

CANADIAN ANTARCTIC BIBLIOGRAPHY

compiled by

C. Simon L. Ommanney

The Canadian Committee on Antarctic Research (CCAR), established by the Canadian Polar Commission (CPC) following Canada's acceptance as a full member of the Scientific Committee on Antarctic Research (SCAR), concluded that if it was to adequately represent the community of those in Canada contributing to our knowledge of Antarctica and the Southern Ocean, it needed to know who they were and what they were doing, or had done. The Secretary of CCAR, at that time Simon Ommanney, was asked to take on this task because he already had a substantial bibliography on the polar regions, accumulated during his 27 years with Environment Canada, his 10 years with the International Glaciological Society, and many subsequent years devoted to compiling this resource.

The work required access to a library system and the full text of documents, because not all tables of contents and abstracts include information on author affiliations. The names of all those affiliated with Canada are underlined in the following list. Not included are publications by the many Canadians who have been obliged to leave Canada to pursue their interest in Antarctic research elsewhere. Some are now among the world leaders of research in this polar region and one hopes that a successful bid for Consultative Membership might mean losing fewer outstanding polar researchers in the future and possibly the return of some of those who were forced to leave.

The listing is not limited to scientific papers, but includes anything that identifies an interest in the Antarctic regions, such as conference presentations, newspaper articles, and even novels. A sampling of media reports, often based on file copy, reflects the type of Antarctic issues and events that editors have deemed worthy of coverage across the country. Although Web links are included for many non-journal references, some of these may no longer be active because conference sites tend to be shut down once a meeting has concluded or as organizations change names so have they changed their web sites. For better layout, some links have been converted to TinyURLs (tinyurl.com). The bibliography concludes with references from 2012, the last year completed after the CPC indicated it was no longer interested in supporting this project. The original intent was to provide annual updates, as well as an index of the individuals from Canada, their organizations and areas of expertise. Up until 2013, a current bibliography had been appended to Canada's annual reports to SCAR.

In order to preserve this record, and make it as widely available as possible, arrangements were made to incorporate it into the University of Alberta Library's Education & Research Archive (<https://era.library.ualberta.ca>). The raw files for the items listed here, originally compiled in EndNote®, were contributed to the ERA for this purpose. They will be available under a Creative Commons Attribution Non-Commercial ShareAlike license that should ensure anyone who wishes to do so can use and modify the listing (<https://creativecommons.org/licenses>).

Canadian involvement with the Antarctic dates back to the earliest days when Sir Charles Wright (Silas) was a member of Captain Robert Falcon Scott's Terra Nova Expedition (1910–1913). This bibliography documents the substantial amount of work done since then in the southern

polar regions by Canada. Work that not only justifies Canada's inclusion as a full member of SCAR, but begs the question as to why Canada has not yet converted its membership of the Antarctic Treaty to full consultative status, as it promised to do when applying for SCAR membership. Once this is done, Canada will honestly be able to claim it is a polar nation, along with the other circumpolar nations.

A formal Antarctic programme is required of those aspiring to Consultative Membership of the Antarctic Treaty, but not a permanent base. To achieve this, those responsible will need to know which areas of Canadian polar expertise are, and have been, applied to the southern polar regions, which ones are in demand by other Treaty members, and which ones are particularly relevant to problems faced in the Canadian Arctic. They will also need to be able to identify the principal stakeholders; those government departments, universities and companies that have taken advantage of the generosity of other polar nations to work on Canadian polar problems in the Antarctic and market products and technologies there specifically developed for the polar regions. This bibliography answers most of those questions. Canada faces significant challenges in the Arctic and the partnerships developed through collaborations in the Antarctic will be invaluable in developing strategies to address them.

Thanks are extended to Prof. Marianne Douglas for arranging library access through the University of Toronto and subsequently through the University of Alberta, to Dr Anita Dey Nuttall for an extension of the latter for part of 2014, and to Prof. Wayne Pollard for my current arrangement with McGill University.

As some references may have been overlooked, details on omissions, or errors, should be forwarded to CCAR, through Polar Knowledge Canada (www.canada.ca/en/polar-knowledge), for the attention of Simon Ommanney.

56 Spinney Road,
Glenwood, Yarmouth County
Nova Scotia, B0W 1W0, Canada
August 2015

- Abbasi, R. *and 266 others* (the IceCube Collaboration that includes [D. Grant](#)). 2009. The IceCube data acquisition system: signal capture, digitization, and timestamping. *Nucl. Instrum. Meth. Phys. Res. A*, **601**(3), 294–316. (10.1016/j.nima.2009.01.001.)
- Abbasi, R. *and 253 others* (the IceCube Collaboration that includes [D. Grant](#)). 2010a. The energy spectrum of atmospheric neutrinos between 2 and 200 TeV with the AMANDA-II detector. *Astropart. Phys.*, **34**(1), 48–58. (10.1016/j.astropartphys.2010.05.001.)
- Abbasi, R. *and 252 others* (the IceCube Collaboration that includes [D. Grant](#)). 2010b. First search for extremely high energy cosmogenic neutrinos with the IceCube Neutrino Observatory. *Phys. Rev. D*, **82**(7), 072003. (10.1103/PhysRevD.82.072003.)
- Abbasi, R. *and 258 others* (the IceCube Collaboration that includes [D. Grant](#)). 2010c. Measurement of the anisotropy of cosmic-ray arrival directions with IceCube. *Astrophys. J. Lett.*, **718**(2), L194–L198. (10.1088/2041-8205/718/2/L194.)
- Abbasi, R. *and 260 others* (the IceCube Collaboration that includes [D. Grant](#)). 2010d. Search for a Lorentz-violating sidereal signal with atmospheric neutrinos in IceCube. *Phys. Rev. D*, **82**(11), 112003. (10.1103/PhysRevD.82.112003.)
- Abbasi, R. *and 258 others* (the IceCube Collaboration that includes [D. Grant](#)). 2010e. Search for relativistic magnetic monopoles with the AMANDA-II neutrino telescope. *Eur. Phys. J. C*, **69**(3–4), 361–378. (10.1140/epjc/s10052-010-1411-6.)
- Abbasi, R. *and 260 others* (the IceCube Collaboration that includes [D. Grant](#)). 2011a. Constraints on high-energy neutrino emission from SN 2008D. *Astron. Astrophys.*, **527**, A28. (10.1051/0004-6361/201015770.)
- Abbasi, R. *and 262 others* (the IceCube Collaboration that includes [D. Grant](#) and [T.R. Wood](#)). 2011b. Constraints on the extremely-high energy cosmic neutrino flux with the IceCube 2008–2009 data. *Phys. Rev. D*, **83**(9), 092003. (*Erratum*: **84**(7), 13 October 2011, 079902(E).) (10.1103/PhysRevD.83.092003; 10.1103/PhysRevD.84.079902.)
- Abbasi, R. *and 263 others* (the IceCube Collaboration that includes [D. Grant](#)). 2011c. First search for atmospheric and extraterrestrial neutrino-induced cascades with the IceCube detector. *Phys. Rev. D*, **84**(7), 072001. (10.1103/PhysRevD.84.072001.)
- Abbasi, R. *and 263 others* (the IceCube Collaboration that includes [D. Grant](#) and [T.R. Wood](#)). 2011d. IceCube sensitivity for low-energy neutrinos from nearby supernovae. *Astron. Astrophys.*, **535**, A109. (10.1051/0004-6361/201117810)
- Abbasi, R. *and 263 others* (the IceCube Collaboration that includes [D. Grant](#)). 2011e. Limits on neutrino emission from gamma-ray bursts with the 40 string IceCube detector. *Phys. Rev. Lett.*, **106**(14), 141101. (10.1103/PhysRevLett.106.141101.)
- Abbasi, R. *and 253 others* (the IceCube Collaboration that includes [D. Grant](#)). 2011f. Measurement of acoustic attenuation in South Pole ice. *Astropart. Phys.*, **34**(6), 382–393. (10.1016/j.astropartphys.2010.10.003.)
- Abbasi, R. *and 260 others* (the IceCube Collaboration that includes [D. Grant](#)). 2011g. Measurement of the atmospheric neutrino energy spectrum from 100 GeV to 400 TeV with IceCube. *Phys. Rev. D*, **83**(1), 012001. (10.1103/PhysRevD.83.012001.)
- Abbasi, R. *and 267 others* (the IceCube Collaboration that includes [D. Grant](#) and [T.R. Wood](#)). 2011h. Observation of anisotropy in the arrival directions of galactic cosmic rays at multiple angular scales with IceCube. *Astrophys. J.*, **740**(1), 16. (10.1088/0004-637X/740/1/16.)
- Abbasi, R. *and 265 others* (the IceCube Collaboration that includes [D. Grant](#) and [T.R. Wood](#)). 2011i. Search for a diffuse flux of astrophysical muon neutrinos with the IceCube 40-string detector. *Phys. Rev. D*, **84**(8), 082001. (10.1103/PhysRevD.84.082001.)

- Abbasi, R. *and 263 others* (the IceCube Collaboration that includes D. Grant). 2011j. Search for dark matter from the Galactic halo with the IceCube Neutrino Telescope. *Phys. Rev. D*, **84**(2), 022004. (10.1103/PhysRevD.84.022004.)
- Abbasi, R. *and 253 others* (the IceCube Collaboration that includes D. Grant). 2011k. Search for neutrino-induced cascades with five years of AMANDA data. *Astropart. Phys.*, **34**(6), 420–430. (10.1016/j.astropartphys.2010.10.007.)
- Abbasi, R. *and 261 others* (the IceCube Collaboration that includes D. Grant). 2011l. Time-integrated searches for point-like sources of neutrinos with the 40-string IceCube detector. *Astrophys. J.*, **732**(1), 18. (10.1088/0004-637X/732/1/18.)
- Abbasi, R. *and 263 others* (the IceCube Collaboration that includes D. Grant). 2012a. Background studies for acoustic neutrino detection at the South Pole. *Astropart. Phys.*, **35**(6), 312–324. (10.1016/j.astropartphys.2011.09.004.)
- Abbasi, R. *and 257 others* (the IceCube Collaboration that includes D. Grant and T.R. Wood). 2012b. The design and performance of IceCube DeepCore. *Astropart. Phys.*, **35**(10), 615–624. (10.1016/j.astropartphys.2011.09.004.)
- Abbasi, R. *and 259 others* (the IceCube Collaboration that includes D. Grant, S.C. Nowicki and T.R. Wood). 2012c. Multiyear search for dark matter annihilations in the Sun with the AMANDA-II and IceCube detectors. *Phys. Rev. D*, **85**(4), 042002. (10.1103/PhysRevD.85.042002.)
- Abbasi, R. *and 265 others* (the IceCube Collaboration that includes D. Grant and T.R. Wood). 2012d. Neutrino analysis of the 2010 September Crab Nebula flare and time-integrated constraints on neutrino emission from the Crab using IceCube. *Astrophys. J.*, **745**(1), Article 45, 45–56. (10.1088/0004-637X/745/1/45.)
- Abbasi, R. *and 259 others* (the IceCube Collaboration that includes D. Grant and T.R. Wood). 2012e. Observation of anisotropy in the galactic cosmic-ray arrival directions at 400 TeV with IceCube. *Astrophys. J.*, **746**(1), Article 33, 33–44. (10.1088/0004-637X/746/1/33.)
- Abbasi, R. *and 254 others* (the IceCube Collaboration that includes D. Grant, S.C. Nowicki and T.R. Wood). 2012f. Search for ultrahigh-energy tau neutrinos with IceCube. *Phys. Rev. D*, **86**(2), 22005. (10.1103/PhysRevD.86.022005.)
- Abbasi, R. *and 258 others* (the IceCube Collaboration that includes D. Grant and T.R. Wood). 2012g. Searches for periodic neutrino emission from binary systems with 22 and 40 strings of IceCube. *Astrophys. J.*, **748**(2), Article 118, 118–124. (10.1088/0004-637X/748/2/118.)
- Abbasi, R. *and 262 others* (the IceCube Collaboration that includes D. Grant and T.R. Wood, and the ROTSE Collaboration). 2012h. Searching for soft relativistic jets in core-collapse supernovae with the IceCube optical follow-up program. *Astron. Astrophys.*, **539**, A60. (10.1051/0004-6361/201118071.)
- Abbasi, R. *and 263 others* (the IceCube Collaboration that includes D. Grant). 2012i. Time-dependent searches for point sources of neutrinos with the 40-string and 22-string configurations of IceCube. *Astrophys. J.*, **744**(1), Article 1, 1–15. (10.1088/0004-637X/744/1/1.)
- Abele, D. *and 15 others* (including I. Schloss). 2010a. An interdisciplinary approach to climate and coastal systems changes on King George Island. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, GC43E-1002, digital media. (www.agu.org/cgi-bin/wais?ss=GC43E-1002.)
- Abele, D. *and 11 others* (including I. Schloss). 2010b. Rapid climate related change at King-George Island: an interdisciplinary approach to coastal systems change. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 2, CD-ROM.

- Abgrall, P. 2004. Variation of Weddell seal (*Leptonychotes weddellii*) underwater vocalizations over mesogeographic ranges. M.Sc. thesis, Department of Biology, University of New Brunswick, Saint John, N.B., xi + 199 pp. (www.collectionscanada.gc.ca/obj/s4/f2/dsk4/etd/MQ82507.PDF.)
- Abgrall, P., J.M. Terhune and H.R. Burton. 2003. Variation of Weddell seal (*Leptonychotes weddellii*) underwater vocalizations over mesogeographic ranges. *Aquat. Mamm.*, **29**(2), 268–277.
- Abraham, E.R., C.S. Law, P.W. Boyd, S.J. Lavender, M.T. Maldonado and A.R. Bowie. 2000. Importance of stirring in the development of an iron-fertilized phytoplankton bloom. *Nature*, **407**(6805), 727–730. (10.1038/35037555.)
- Abraham, L. 2003. Borek Air completes Antarctic rescue. *Peace River Block News [Dawson Cr.]*, 22 September, 1.
- Abrahamowicz, M.I. 2007. A thermodynamic and dynamic Lagrangian model for icebergs: a data-model intercomparison for the Southern Ocean. M.Sc. thesis, Department of Atmospheric and Oceanic Sciences, McGill University, Montréal, Que., 103 pp. (<http://digitool.library.mcgill.ca:8881/thesisfile18677.pdf>.)
- Abrahamowicz, M., B. Tremblay, T. Williams and T. van de Flierdt. 2007a. Modeling iceberg sedimentation in the Southern Ocean: a window into Antarctica's glaciation history. *Air, Ocean, Earth and Ice on the Rock, CMOS-CGU-AMS Congress 2007, 33rd Annual Meeting of the Canadian Geophysical Union, 28 May–1 June 2007, St. John's, Newfoundland and Labrador, Canada. Program and abstracts*. Calgary, Alta, Canadian Geophysical Union, Abstract 1475, CD-ROM, C02-1C5.8. (www.cmos.ca/CongressAbstracts/cong4107.pdf.)
- Abrahamowicz, M.I., B. Tremblay, T. Williams and T. van de Flierdt. 2007b. Modeling iceberg sedimentation in the Southern Ocean: a window into Antarctica's glaciation history. *Bridging the Sciences, 4th Interdisciplinary Graduate Student Research Symposium, 29–30 March 2007, McGill University, Montréal. Abstracts*. Montréal, Que., McGill University. Faculty of Science, 49. (www.mcgill.ca/files/science/schedule_abstracts_igsrs2007.pdf.)
- Abrahamsson, K. and 6 others (including E.A. Pakhomov). 2004. Variations of biochemical parameters along a transect in the Southern Ocean, with special emphasis on volatile halogenated organic compounds. *Deep-Sea Res. II*, **51**(22–24), 2745–2756. (10.1016/j.dsr2.2004.09.004.)
- Acevedo, J. and 15 others (including L. Dalla Rosa). 2007. Migratory destinations of humpback whales from the Magellan Strait feeding ground, southeast Pacific. *Mar. Mammal Sci.*, **23**(2), 453–463. (10.1111/j.1748-7692.2007.00116.x.)
- Aciego, S.M., K.M. Cuffey, J.L. Kavanaugh, D.L. Morse and J.P. Severinghaus. 2007. Pleistocene ice and paleo-strain rates at Taylor Glacier, Antarctica. *Quat. Res.*, **68**(3), 303–313. (10.1016/j.yqres.2007.07.013.)
- Ackley, S.F. and T.E. Kelihier. 1979. Ice sheet internal radio-echo reflections and associated physical property changes with depth. *J. Geophys. Res.*, **84**(B10), 5675–5680. (10.1029/JB084iB10p05675.)
- Ackley, S.F. and 14 others (including I. Stirling). 2003. A top-down, multidisciplinary study of the structure and function of the pack-ice ecosystem in the eastern Ross Sea, Antarctica. *Polar Rec.*, **39**(3), 219–230. (10.1017/S0032247403003115.)
- Ackman, R.G. and S.N. Hooper. 1968. Examination of isoprenoid fatty acids as distinguishing characteristics of specific marine oils with particular reference to whale oils. *Comp. Biochem. Physiol.*, **24**(2), 549–565 (10.1016/0010-406X(68)91008-6.)
- Acton, G.D., C. Borton and the Leg 178 Shipboard Scientific Party (that includes N. Eyles). 2002. Chapter 5. Palmer Deep composite depth scales for Leg 178 sites 1098 and 1099. In Barker, P.F., A. Camerlenghi, G.D. Acton, A.T.S. Ramsay and the Shipboard Scientific Party, eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 178. Antarctic glacial history and sea-level change*. College Station, TX, Texas A & M University. Ocean Drilling Program, December, digital media. (10.2973/odp.proc.sr.178.202.2001.)

- Adamowicz, S.J. and 6 others (including J.C. Topan, T.S. Zemlak, P.D.N. Hebert and J.D.S. Witt). 2010. The evolutionary diversification of the Centropagidae (Crustacea, Calanoida): a history of habitat shifts. *Mol. Phylogenetics Evol.*, **55**(2), 418–430. (10.1016/j.ympev.2009.12.008.)
- Adams, P. 2000a. The Arctic Council, Antarctica and northern studies in Canada. *Arctic*, **53**(3), 334–338. (<http://arctic.synergiesprairies.ca/arctic/index.php/arctic/article/view/864/890>.)
- Adams, P. 2000b. *Canada–Antarctica 2000: visit to Antarctica–New Zealand, January–February 2000*. Unpublished report, adamsp@parl.gc.ca.
- Adams, P. 2000c. Canada, the Arctic Council and Antarctica. *North. Rev. [Whitehorse]*, **22**, Winter 149–155.
- Adams, P. 2000d. Skating on thick ice: an MP in Antarctica. *CARN Newsl.*, **10**, 3. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/10.pdf.)
- Adams, P. 2003. Canada, the Antarctic and the Madrid Protocol. *Arctic*, **56**(4), iii–iv. (<http://arctic.synergiesprairies.ca/arctic/index.php/arctic/article/view/628/657>.)
- Adams, W.P., P.F. Burnet, M.R. Gordon and E.F. Roots. 1987. *Canada and polar science*. Ottawa, Ont., Indian Affairs and Northern Development. Circumpolar and Scientific Affairs.
- Adams, A.S. and G.J. Tripoli. 2005. Surges in the Ross Ice Shelf air stream due to topographically trapped waves. *11th Conference on Mesoscale Processes, 24–28 October 2005, Albuquerque, NM*. Boston, MA, American Meteorological Society, Abstract 3M.7, digital media. (https://ams.confex.com/ams/32Rad11Meso/techprogram/paper_97455.htm.)
- Adams, A. and G. Tripoli. 2007. Topographically trapped waves along the TransAntarctic Mountains. *Air, Ocean, Earth and Ice on the Rock, CMOS-CGU-AMS Congress 2007, 33rd Annual Meeting of the Canadian Geophysical Union, 28 May–1 June 2007, St. John's, Newfoundland and Labrador, Canada. Program and abstracts*. Calgary, Alta, Canadian Geophysical Union, Abstract 1696, CD-ROM, I01-1B8.1. (www.cmos.ca/CongressAbstracts/cong4107.pdf.)
- Addy, T.C. 1997. Underwater call counts of Weddell seals (*Leptonychotes weddellii*) as a function of placement of the hydrophone. Honours thesis, Department of Biology, University of New Brunswick, Saint John, N.B., v + 25 pp.
- Agawin, N.S.R., S. Agustí and C.M. Duarte. 2002. Abundance of Antarctic picophytoplankton and their response to light and nutrient manipulation. *Aquat. Microbial Ecol.*, **29**(2), 161–172. (10.3354/ame029161.)
- Agrell, A. and 44 others (including C. Lamontagne, G. Mallory, I. Plante, G. Tyc and V. Welch). 1995. *Earth's polar regions*. Stockholm, Sweden, International Space University.
- Aguirre, G.E., M.P. Hernando, I.R. Schloss and G.A. Ferreyra. 2009. Indirect effects of temperature and ultraviolet radiation on grazing of the sub-Antarctic copepod *Oithona similis*. *VII Jornadas Nacionales de Ciencias del Mar, 30 November – 4 December 2009, Bahía Blanca, Argentina*. Mar del Plata, Asociación Argentina de Ciencias del Mar, presentation.
- Ahlmann, H.W.son. 1925. Litteratur. C. S. Wright and R. E. Priestly: Glaciology. British (Terra Nova) Antarctic Expedition. XX + 487 p., 179 fig. CCXCI plates and 15 maps. Harrison and Sons. London 1922. *Geografiska Annaler*, **7**(3–4), 155–162. (www.jstor.org/stable/519482.)
- Ahmed, S., H.R. Warren, M.D. Symonds and R.P. Cox. 1989. The RADARSAT system. *IGARSS '89, Quantitative remote sensing: an economic tool for the nineties, International Geoscience and Remote Sensing Symposium, 12th Canadian Symposium on Remote Sensing, 10–14 July 1989, Vancouver, British Columbia. Proceedings, Vol. 1, Monday, 10 July*. New York, NY, Institute of Electrical and Electronics Engineers, 213–217. (IEEE #89Ch2768-0.) (10.1109/IGARSS.1989.567207.)
- Ainley, D.G., C.T. Tynan and I. Stirling. 2003. Sea ice: a critical habitat for polar marine mammals and birds. In Thomas, D.N. and G.S. Dieckmann, eds. *Sea ice: an introduction to its physics, chemistry, biology, and geology*. Oxford, Blackwell Science, 240–266.

- Ainley, D.G., K.A. Hobson, X. Crosta, G.H. Rau, L.I. Wassenaar and P.C. Augustinus. 2006. Holocene variation in the Antarctic coastal food web: linking δD and $\delta^{13}C$ in snow petrel diet and marine sediments. *Mar. Ecol. Progr. Ser.*, **306**, 31–40. (10.3354/meps306031.)
- Ainley, D. and 11 others (including L.K. Blight). 2007. Paradigm lost, or is top-down forcing no longer significant in the Antarctic marine ecosystem? *Antarct. Sci.*, **19**(3), 283–290. (10.1017/S095410200700051X.)
- Ainley, D.G. and L.K. Blight. 2008. Climate effects on Southern Ocean top predator populations: fisheries depletion is part of the story. *The Pacific Seabird Group Special International Meeting 2007, 4–7 October 2007, Lugang, Taiwan, ROC. Proceedings*. Arcata, CA, Pacific Seabird Group, In review.
- Ainley, D.G. and L.K. Blight. 2009. Ecological repercussions of historical fish extraction from the Southern Ocean. *Fish & Fish.*, **10**(1), 13–38. (10.1111/j.1467-2979.2008.00293.x.)
- Ainley, D. and 10 others (including L.K. Blight). 2010. Impacts of cetaceans on the structure of Southern Ocean food webs. *Mar. Mammal Sci.*, **26**(2), 482–498. (10.1111/j.1748-7692.2009.00337.x.)
- Aislabie, J. and J.M. Foght. 2010. Chapter 9. Response of polar soil bacterial communities to fuel spills. In Bej, A.K., J. Aislabie and R.M. Atlas, eds. *Polar microbiology: the ecology, biodiversity and bioremediation potential of microorganisms in extremely cold environments*. Boca Raton, FL, CRC Press; Routledge, Taylor & Francis, 215–230.
- Aislabie, J., J. Foght and D. Saul. 2000. Aromatic hydrocarbon-degrading bacteria from soil near Scott Base, Antarctica. *Polar Biol.*, **23**(3), 183–188. (10.1007/s003000050025.)
- Aislabie, J.M., M.R. Balks, J.M. Foght and E.J. Waterhouse. 2004. Hydrocarbon spills on Antarctic soils: effects and management. *ES&T, Environ. Sci. Technol.*, **38**(5), 1265–1274. (10.1021/es0305149.)
- Aislabie, J., D.J. Saul and J.M. Foght. 2006. Bioremediation of hydrocarbon-contaminated polar soils. *Extremophiles*, **10**(3), 171–179. (10.1007/s00792-005-0498-4.)
- Aislabie, J. and J. Foght. 2008. Chapter 4. Hydrocarbon-degrading bacteria in contaminated cold soils. In Filler, D., I. Snape and D. Barnes, eds. *Bioremediation of petroleum hydrocarbons in cold regions*. Cambridge, U.K., Cambridge University Press, 69–83.
- Aislabie, J., S. Jordan, J. Ayton, J.L. Klassen, G.M. Barker and S. Turner. 2009. Bacterial diversity associated with ornithogenic soil of the Ross Sea region, Antarctica. *Can. J. Microbiol.*, **55**(1), 21–36. (10.1139/W08-126.)
- Alberni Valley Times. 2004. Canadian students join Antarctic expedition. *Alberni Valley Times*, 23 January, A.11.
- Albrecht, T., M. Martin, M. Haseloff, R. Winkelmann and A. Levermann. 2011. Parameterization for subgrid-scale motion of ice-shelf calving fronts. *Cryosphere (TC)*, **5**(1), 35–44. (10.5194/tc-5-35-2011.)
- Alderkamp, A. and 9 others (including C.D. Payne and P. Tortell). 2010. The control of phytoplankton primary productivity in the Amundsen Sea by nitrogen, iron and light. [Abstract.] *Eos, Trans. AGU*, **91**(26), Ocean Sci. Meet. Suppl., IT44C-03. (www.agu.org/meetings/os10.)
- Alderkamp, A.-C. and 10 others (including C.D. Payne). 2012. Iron from melting glaciers fuels phytoplankton blooms in the Amundsen Sea (Southern Ocean): phytoplankton characteristics and productivity. *Deep-Sea Res. II*, **71–76**, 32–48. (10.1016/j.dsr2.2012.03.005.)
- Alexander, S.P. and M.G. Shepherd. 2010. Planetary wave activity in the polar lower stratosphere. *Atmos. Chem. Phys. (ACP)*, **10**(2), 707–718. (10.5194/acp-10-707-2010.)
- Alfred, J.M. 1999. Analysis of polar stratospheric cloud observations with the WINDII instrument on UARS. M.Sc. thesis, Department of Geography, Trent University, Peterborough, Ont. viii + 117 pp. (www.nlc-bnc.ca/obj/s4/f2/dsk2/ftp01/MQ40462.pdf.)

- Alfred Wegener Institute for Polar and Marine Research (AWI). 1991. 2.3.5. Sea ice remote sensing. *Ber. Polarforsch.*, **84**, Expedition ANTARKTIS VIII/1-2 1989, 91–102. (C. Garrity participated.) (<http://epic.awi.de/26261/1/BerPolarforsch199184.pdf>.)
- Algie, J. 2002. Area woman helps clean up Antarctic: trip an eye-opening adventure for Kincardine woman. *Sun Times [Owen Sound]*, 16 March, A.1.
- Allcock, A.L. and 8 others (including D. Steinke). 2010. Cryptic speciation and the circumpolarity debate: a case study on endemic Southern Ocean octopuses using the COI barcode of life. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 22, CD-ROM.
- Allcock, A.L. and 8 others (including D. Steinke). 2011. Cryptic speciation and the circumpolarity debate: a case study on endemic Southern Ocean octopuses using the COI barcode of life. *Deep-Sea Res. II*, **58**(1–2), 242–249. (10.1016/j.dsr2.2010.05.016.)
- Allen, C.C., N.R. Wainwright, S.E. Grasby and R.P. Harvey. 2003. Life in the ice. *Sixth International Conference on Mars, 20–25 July 2003*. Houston, TX, Lunar and Planetary Institute, Abstract #3138, digital media. (LPI Contribution No.1164.) (www.lpi.usra.edu/meetings/sixthmars2003/pdf/3138.pdf.)
- Allen, M.F. 1997. *Wake of the Invercauld: shipwrecked in the sub-Antarctic: a great-granddaughter's pilgrimage*. Montréal, Que., McGill-Queen's University Press.
- Allen, M.F. and K. Scadden. 2007. *The General Grant's gold: shipwreck and greed in the Southern Ocean*. Auckland, New Zealand, Exisle Publishing Ltd.
- Allison, I., R.G. Barry and B.E. Goodison, eds. 2001. *Climate and Cryosphere (CliC) Project: science and co-ordination plan. Version 1*. Geneva, World Meteorological Organization. World Climate Research Programme. (WCRP-114, WMO/TD 1053.)
- Allison, I., R. Barry, C. Dick, B. Goodison and V. Ryabinin. 2004. Antarctic science issues within the WCRP Climate and Cryosphere Project and their relevance to SCAR research. *XXVIII SCAR Open Science Conference, 26–28 July 2004, Bremen, Germany. Abstracts*. Cambridge, U.K., Scientific Committee on Antarctic Research, S7/O06.
- Allison, I. and M. Béland. 2005a. The International Polar Year 2007–2008; a preliminary overview of proposed research activities. *Cryosphere, the frozen frontier of climate science: theory, observations, and practical applications, First CliC International Science Conference, 11–15 April 2005, Beijing. Proceedings*. Geneva, World Meteorological Organization. World Climate Research Programme, 7. (WCRP-125.)
- Allison, I. and M. Béland. 2005b. The International Polar Year 2007–2008: a preliminary overview of proposed research activities. [Abstract.] *Eos, Trans. AGU*, **86**(18), Jt. Assem. Suppl., C41A-01. (www.agu.org/meetings/sm05/waissm05.html.)
- Allison, I. and M. Béland, eds. 2007. *The scope of science for the International Polar Year 2007–2008*. Geneva, World Meteorological Organization. ICSU/WMO Joint Committee for IPY 2007–2008. (WMO/TD 1364.) (www.icsu.org/Gestion/img/ICSU_DOC_DOWNLOAD/1155_DD_FILE_IPY_Science_Plan.pdf.)
- Allison, I., M. Béland, D. Carlson, D. Qin, E. Sarukhanian and C. Smith. 2007. International Polar Year 2007–2008. *WMO Bull.*, **56**(4), 244–249. (www.wmo.int/pages/publications/bulletin_en/documents/56_4_short_en.pdf.)
- Allison, I., M. Béland and D. Carlson. 2008. Status and progress of the International Polar Year. *Eos, Trans. AGU*, **89**(34), 313–314. (10.1029/2008EO340001.)
- Almandoz, G.O. and 7 others (including G.A. Ferreyra and I.R. Schloss). 2008. Distribution and ecology of *Pseudo-nitzschia* species (Bacillariophyceae) in surface waters of the Weddell Sea (Antarctica). *Polar Biol.*, **31**(4), 429–442. (10.1007/s00300-007-0369-9.)

- Alonso-Saez, L. and 14 others (including C. Lovejoy, J. E. Tremblay and M. Potvin). 2012. Role for urea in nitrification by polar marine Archaea. *Proc. Natl. Acad. Sci. USA (PNAS)*, **109**(44), 17989–17994. (10.1073/pnas.1201914109.)
- Alsdorf, D.E., R.R.B. von Frese, J. Arkani-Hamed and H.C. Noltimier. 1994. Separation of lithospheric, external, and core components of the South Polar geomagnetic field at satellite altitudes. *J. Geophys. Res.*, **99**(B3), 4655–4668. (10.1029/93JB02580.)
- Amblas, D. and 8 others (including J.E. Hughes-Clarke). 2006. Relationship between continental rise development and palaeo-ice sheet dynamics, northern Antarctic Peninsula Pacific margin. *Quat. Sci. Rev.*, **25**(9–10), 933–944. (10.1016/j.quascirev.2005.07.012.)
- Amelin, Y. 2007. The ages of angrites. *Thirty-eighth Lunar and Planetary Science Conference, 12–16 March 2007, League City, TX. Abstracts*. Houston, TX, Lunar and Planetary Institute, digital media, Abstract 1669. (LPI Contribution No.1338.) (www.lpi.usra.edu/meetings/lpsc2007/pdf/1669.pdf.)
- Anderson, D. and J.C. Davis. 1999. "Ministerial on ice": an international conference in Antarctica, January 1999. *CARN Newsl.*, **8–9**, 1–2. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/8-9.pdf.)
- Anderson, J., J. Wellner and G. Clarke. 2007. Evidence for organized subglacial meltwater drainage beneath the Pine Island and Marguerite paleo-ice streams, Antarctica following the Last Glacial Maximum. [Abstract.] *Eos, Trans. AGU*, **88**(52), Fall Meet. Suppl., C53A-05. (<http://tinyurl.com/l9efobc>.)
- Anderson, K. 2009. Mom adds Antarctic run to worldwide marathon quest; friends tried to discourage her from risky venture. *Calgary Herald*, A.6.
- Anderson, L.G. and E.P. Jones. 1991. The transport of CO₂ into Arctic and Antarctic seas: similarities and differences in the driving processes. *J. Mar. Syst.*, **2**(1–2), 81–95. (10.1016/0924-7963(91)90015-M.)
- Anderson, M.R., R.B. Rivkin and D.E. Gustafson, Jr. 1990. The fate of bacterial production in McMurdo Sound in the austral spring. *Antarct. J. U.S.*, **25**(5), 190 Review, 193–194. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXXVn5/AJUSvXXVn5p193.pdf>.)
- Anderson, M.R. and R.B. Rivkin. 2001. Seasonal patterns in grazing mortality of bacterioplankton in polar oceans: a bipolar comparison. *Aquat. Microbial Ecol.*, **25**(2), 195–206. (10.3354/ame025195.)
- Andersson, K. and 62 others (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, L. Shaw and K. Vanderlinde). 2011. X-Ray properties of the first Sunyaev-Zel'dovich effect selected galaxy cluster sample from the South Pole Telescope. *Astrophys. J.*, **738**(1), 48. (10.1088/0004-637X/738/1/48.)
- André, M.-F. and K. Hall. 2005a. Geomorphological mapping at the Two Steps Oasis, Alexander Island, Antarctica. In Bockheim, J.G., ed. *International Workshop on Antarctic Permafrost and Soils, 14–18 November 2004, Madison, WI. Final report*. Washington, DC, National Science Foundation. Office of Polar Programs, Antarctic Section, Abstract, 48. (http://earth.waikato.ac.nz/antpas/pdf/FIN_REP_Ant_Wk3.pdf.)
- André, M.-F. and K. Hall. 2005b. Honeycomb development on Alexander Island, glacial history of George VI Sound and palaeoclimatic implications (Two Steps Cliffs/Mars Oasis, W. Antarctica). *Geomorphology*, **65**(1–2), 117–138. (10.1016/j.geomorph.2004.08.004.)
- André, M.-F., K. Hall and V. Comte. 2004. Optical rock properties and weathering processes in polar environments (with special reference to Antarctica). *Polar Geogr.*, **28**(1), 43–62. (10.1080/789610159.)
- André, M.-F., K. Hall, P. Bertran and J. Arocena. 2008. Stone runs in the Falklands: periglacial or tropical? *Geomorphology*, **95**(3–4), 524–543. (10.1016/j.geomorph.2007.07.006.)
- Andrews, H.R., R.M. Brown, G.C. Ball, N. Burn, Y. Imahori, J.C.D. Milton, W.J. Workman and E.L. Fireman. 1982. ¹⁴C content of Antarctic meteorites measured with the Chalk River MP tandem accelerator. *Fifth International Conference on Geochronology, Cosmochronology, Isotope Geology, 27 June–2 July 1982, Nikko National Park, Japan. Abstracts*. Tsukuba, Geological Survey of Japan, 8–9.

- Angiel, P.J. 2012. Snow cover influence on nest-site distribution of a Gentoo penguin (*Pygoscelis Papua*) colony at Lions Rump, King George Island, Antarctica. *IPY 2012 From Knowledge to Action Conference, 22–27 April 201, Montréal, Canada. Program and abstracts.* Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 832, digital media. (http://132.246.11.198/2012-ipy/Abstracts_On_the_Web/pdf/ipy2012arAbstract00832.pdf)
- Angiel, P.J. and M. Dąbski. 2012a. Lichenometric ages of the Little Ice Age moraines on King George Island and of the last volcanic activity on Penguin Island (West Antarctica). *Geografiska Annaler*, **94A**(3), 395–412. (10.1111/j.1468-0459.2012.00460.x.)
- Angiel, P.J. and M. Dąbski. 2012b. Lichenometric ages of the Little Ice Age moraines on King George Island (West Antarctica). *IPY 2012 From Knowledge to Action Conference, 22–27 April 201, Montréal, Canada. Program and abstracts.* Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 984, digital media. (http://132.246.11.198/2012-ipy/Abstracts_On_the_Web/pdf/ipy2012arAbstract00984.pdf.)
- Angiel, P.J. and M. Korczak. 2010. Glaciers retreat in ASPA-151 in the period 1988–2009 (Lions Rump, King George Island, South Shetland Island, Antarctica). *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway.* Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382347, digital media. (www.ipy-osc.no/abstract/382347.)
- Angiel, P.J. and M. Korczak-Abshire. 2011. Recent climate change effect on penguins and pinnipeds, King George Island, Antarctica. *CARN Newsl.*, **30**, 10–16. (<http://tinyurl.com/6r7q3sl>.)
- Angiel, P.J., M. Korczak and A. Gasek. 2010. Changes of the size of the penguin and pinniped populations in ASPA-151(Lions Rump, King George Island, South Shetland Island, Antarctica). *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway.* Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382500, digital media. (www.ipy-osc.no/abstract/382500.)
- Angiel, P.J., M. Potocki and J. Biszczuk-Jakubowska. 2010. Weather condition characteristics at the H. Arctowski Station (South Shetlands, Antarctica) for 2006, in comparison with multi-year research result. *Misc. Geogr.*, **14**, 5–11.
- Anisimov, O. and 7 others (including R. Jeffries and T. Prowse). 2001. Chapter 16. Polar regions (Arctic and Antarctic) In McCarthy, J.J., O.F. Canziani, N.A. Leary, D.J. Dokken and K.S. White, eds. *Climate change 2001: impacts, adaptation, and vulnerability.* Cambridge, U.K., Cambridge University Press. Intergovernmental Panel on Climate Change, 801–841. (<http://tinyurl.com/qx4vmak>.)
- Anisimov, O.A. and 7 others (including C. Furgal and T.D. Prowse). 2007. Chapter 15. Polar regions (Arctic and Antarctic). In Parry, M.L., O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson, eds. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.* Cambridge, U.K., etc., Cambridge University Press. Intergovernmental Panel on Climate Change, 653–685. (www.ipcc.ch/publications_and_data/ar4/wg2/en/ch15.html.)
- Annell, H., D. Weis, J.S. Scoates and A. Giret. 2003. Petrology of the Marion Dufresne basaltic section in the south-central plateau central of the Kerguelen Archipelago, southeast Indian Ocean. [Paper 152-33.] *Geol. Soc. Am. Abstr. Prog.*, **35**(6), 2003 Seattle Annual Meeting, 324. (http://gsa.confex.com/gsa/2003AM/finalprogram/abstract_66365.htm.)
- Annell, H., D. Weis, J.S. Scoates and A. Giret. 2004. Evidence for a depleted mantle component in mildly alkalic high-MgO basalts from Mt. Marion Dufresne, Kerguelen Archipelago, southern Indian Ocean. [Abstract.] *Eos, Trans. AGU*, **85**(47), Fall Meet. Suppl., V31B-1436. (<http://tinyurl.com/nohgfb7>.)
- Annell, H. 2005. Petrology and geochemistry of the 25 Ma Mt. Marion Dufresne basaltic section on the Kerguelen Archipelago: constraining the transition from tholeiitic to mildly alkalic volcanism on a major oceanic island. M.Sc. thesis, Department of Earth and Ocean Sciences, University of British Columbia, Vancouver, B.C., 11 April, xi + 194 pp. (<http://tinyurl.com/p4bf4ly>.)

- Annell, H., J.S. Scoates, D. Weis and A. Giret. 2007. Petrology of flood basalts at the tholeiitic–alkalic transition and phenocryst compositions, Mt. Marion Dufresne, Kerguelen Archipelago, southern Indian Ocean. *Can. Mineral.*, **45**(4), 809–835. (10.2113/gscanmin.45.4.809.)
- Ansorge, I.J., J.V. Durgadoo and E.A. Pakhomov. 2009. Dynamics of physical and biological systems of the Prince Edward Islands in a changing climate. *Pap. Proc. R. Soc. Tasmania*, **143**(1), 15–18. (http://eprints.utas.edu.au/13214/1/2009_Ansorge_dynamics.pdf.)
- Ansorge, I.J., E.A. Pakhomov, S. Kaehler, J.R.E. Lutjeharms and J.V. Durgadoo. 2010. Physical and biological coupling in eddies in the lee of the South-West Indian Ridge. *Polar Biol.*, **33**(6), 747–759. (10.1007/s00300-009-0752-9.)
- Anstey, J.A., T.G. Shepherd and J.F. Scinocca. 2010. Influence of the quasi-biennial oscillation on the extratropical winter stratosphere in an atmospheric general circulation model and in reanalysis data. *J. Atmos. Sci.*, **67**(5), 1402–1419. (10.1175/2009JAS3292.1.)
- Antarctic Journal of the United States. 1988. Canada accedes to the Antarctic Treaty. *Antarct. J. U.S.*, **23**(2), 9. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXXIIIIn2.pdf>.)
- Antico, A., O. Marchal and L.A. Mysak. 2010. Time-dependent response of a zonally averaged ocean–atmosphere–sea ice model to Milankovitch forcing. *Climate Dyn.*, **34**(6), 763–779. (10.1007/s00382-010-0790-6.)
- Antoniades, D., J.M. Blais, M. Toro, R. Pienitz, A. Quesada and W.F. Vincent. 2010. Reconstructing past abundances of southern elephant seals from Byers Peninsula, Livingston Island from the sedimentary record. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 34, CD-ROM.
- Antretter, M., B. Steinberger, F. Heider and H.C. Soffel. 2000. Stationary hotspots or hotspot motion? A contribution from the Kerguelen Plateau. *Geophys. Res. Abstr.*, **2**, digital media. (www.copernicus.org/EGS/egsga/nice00/programme/abstracts/aai1228.pdf.)
- Arendt, A. and 78 others (including T. Bolch, J. Cogley, V. Radić, M. Beedle, D. Burgess, F. Cawkwell, L. Copland, K. Filbert, G. Hartmann, E. Miles, B. Menounos, M. Sharp, R. Wheate and F. Wyatt). 2012a. *Randolph glacier inventory 1.0: a dataset of global glacier outlines*. Boulder, CO, University of Colorado. National Snow and Ice Data Center (NSIDC). Global Land Ice Measurements from Space (GLIMS). (www.glims.org/RGI/RGI_Tech_Report_V1.0.pdf.)
- Arendt, A. and 78 others (including T. Bolch, J. Cogley, V. Radić, M. Beedle, D. Burgess, F. Cawkwell, L. Copland, K. Filbert, G. Hartmann, E. Miles, B. Menounos, M. Sharp, R. Wheate and F. Wyatt). 2012b. *Randolph glacier inventory [v2.0]: a dataset of global glacier outlines*. Boulder, CO, University of Colorado. National Snow and Ice Data Center (NSIDC). Global Land Ice Measurements from Space (GLIMS). (www.glims.org/RGI/RGI_Tech_Report_V2.0.pdf.)
- Argus, D.F. and W.R. Peltier. 2005. Postglacial rebound from space geodesy. [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., G33A-0018. (www.agu.org/meetings/fm05/waisfm05.html.)
- Argus, D.F. and W. Peltier. 2008. Constraining models of postglacial rebound using space geodesy. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., G31A-0646. (www.agu.org/meetings/fm08/waisfm08.html.)
- Argus, D.F. and 7 others (including W.R. Peltier). 2010. The angular velocities of the plates and the velocity of Earth's centre from space geodesy. *Geophys. J. Int.*, **180**(3), 913–960. (10.1111/j.1365-246X.2009.04419.x.)
- Argus, D.F., G. Blewitt, W.R. Peltier and C. Kreemer. 2011. Rise of the Ellsworth Mountains and parts of the East Antarctic coast observed with GPS. *Geophys. Res. Lett.*, **38**(16), L16303. (10.1029/2011GL048025.)

- Argus, D., G. Blewitt, W.R. Peltier and C.W. Kreemer. 2011. Rise of the Ellsworth Mountains and parts of the East Antarctic coast observed with GPS. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA*. Washington, DC, American Geophysical Union, G23B-07, digital media. (<http://sites.agu.org/fallmeeting/scientific-program/>.)
- Armstrong, R.L. 1978. K-Ar dating: Late Cenozoic McMurdo Volcanic Group and Dry Valley glacial history, Victoria Land, Antarctica. *New Zeal. J. Geol. Geophys.*, **21**(6), 685–698. (10.1080/00288306.1978.10425199.)
- Armstrong, T.P., C.M. Laird, D. Venkatesan, S. Krishnaswamy and T.J. Rosenberg. 1989. Interplanetary energetic ions and polar radio wave absorption. *J. Geophys. Res.*, **94**(A4), 3543–3554. (10.1029/JA094iA04p03543.)
- Arnaud, E., G.P. Halverson and G. Shields-Zhou, eds. 2011. *The geological record of Neoproterozoic glaciations*. London, UK, Geological Society of London. (10.1144/M36.0.)
- Arnould, J.P.Y., S.P. Luque, C. Guinet, D.P. Costa, J. Kingston and S.A. Shaffer. 2003. The comparative energetics and growth strategies of sympatric Antarctic and subAntarctic fur seal pups at Îles Crozet. *J. Exp. Biol.*, **206**(24), 4497–4506. (10.1242/jeb.00703.)
- Arocena, J.M. and K. Hall. 2003a. Calcium phosphate coatings on the Yalour Islands, Antarctica: formation and geomorphic implications. *Arct. Ant. Alp. Res.*, **35**(2), 233–241. (10.1657/1523-0430(2003)035[0233:CPCOTY]2.0.CO;2.)
- Arocena, J.M. and K. Hall. 2003b. Calcium phosphate-rich coatings, Yalour Islands, Antarctica. *CARN Newsl.*, **17**, 8–10. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/17.pdf.)
- Aronowitz, C. 1996a. Editorial. Who protects the traveler? *Seventh Continent [Montréal]*, **1**, 3, 8.
- Aronowitz, C. 1996b. Travels tips. *Seventh Continent [Montréal]*, **1**, 3, 8.
- Arrigo, K.R., G.S. Dieckmann, M. Gosselin and C.W. Sullivan. 1990. Studies on the nutrient status in sea ice and underlying platelet layer of McMurdo Sound. *Antarct. J. U.S.*, **25**(5), 1990 Review, 185–188. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXXVn5/AJUSvXXVn5p185.pdf>.)
- Arrigo, K.R., G.S. Dieckmann, M. Gosselin, D.H. Robinson, C.H. Fritsen and C.W. Sullivan. 1995. High resolution study of the platelet ice ecosystem in McMurdo Sound, Antarctica: biomass, nutrient, and production profiles within a dense microalgal bloom. *Mar. Ecol. Progr. Ser.*, **127**, 255–268. (10.3354/meps127255.)
- Arseniuk, M. 2007a. Canadian skis into centre of Antarctic history. *Times Colonist [Victoria]*, 21 January, A.3.
- Arseniuk, M. 2007b. Canadian-led team reaches Antarctic 'middle of nowhere' on skis. *Gazette [Montréal]*, 22 January, A.9.
- Asher, E.C., J.W.H. Dacey, M.M. Mills, K.R. Arrigo and P.D. Tortell. 2011. High concentrations and turnover rates of DMS, DMSP and DMSO in Antarctic sea ice. *Geophys. Res. Lett.*, **38**(23), L23609. (10.1029/2011GL049712.)
- Asher, E.C., J.W. Dacey, M.M. Mills, K.R. Arrigo and P.D. Tortell. 2012. High concentrations and turnover rates of DMS, DMSP, and DMSO in Antarctic sea ice. *2012 Ocean Sciences Meeting, 20–24 February 2012, Salt Lake City, Utah, USA. Abstract book*. Waco, TX, American Society of Limnology and Oceanography, 18. (Abstract 9563.) (www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=9563.)
- Ashkenazy, Y., D.R. Baker, H. Gildor and S. Havlin. 2003. Nonlinearity and multifractality of climate change in the past 420,000 years. *Geophys. Res. Lett.*, **30**(22), 2146. (10.1029/2003GL018099.)
- Ashkenazy, Y., D.R. Baker, H. Gildor and S. Havlin. 2004. Nonlinearity of climate change in the past 420,000 years. [Abstract NG22A-05.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., digital media. (www.agu.org/meetings/sm04/waissm04.html.)

- Ashworth, A.C. and 10 others (including A.P. Wolfe). 2007. The Neogene biota of the Transantarctic Mountains. In A. K. Cooper, P. Barrett, H. Stagg, B. Storey, E. Stump and W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007*. Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (*U.S. Geol. Surv. Open-File Rep.* 2007-1047.) (Extended Abstract 071.) (<http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea071.pdf>.)
- Asioli, A. and D.B. Scott. 2005a. An extreme environment thecamoebian assemblage in the Antarctic permanent ice-cover Lake Hoare (Taylor Valley). [Paper 78-6.] *Geol. Soc. Am. Abstr. Prog.*, **37**(7), 2005 Salt Lake City Annual Meeting, 189. (<http://tinyurl.com/q9ufow9>.)
- Asioli, A. and D.B. Scott. 2005b. Thecamoebian assemblage in the Antarctic permanent ice-cover Lake Hoare (Taylor Valley) as possible astropaleontological example. *PaleoBios*, **25**(2), Supplement, 14–15.
- Asmerom, Y., L.R. Johnson, M.S. Lachniet, S.J. Burns, V.J. Polyak and W.P. Patterson. 2010. Southern Hemisphere modulation of eastern Pacific tropical climate during the last glacial. [Abstract.] *Eos, Trans. AGU*, **91**(26), Meet. Americas Suppl., PP23B-01. (www.agu.org/meetings/ja10/program/index.php.)
- Asmus, K.A., M.A. Cameron, C. Garrity, R.O. Ramseier and K. Strübing. 1987. *The ice regime encountered during FS Polarstern cruise Ark IV/1, 1987*. Bremerhaven, Germany, August, Alfred-Wegener Institut für Polar und Meresforschung. (Polar Biol.)
- Asmus, K.A., M.A. Cameron, C. Garrity, R.O. Ramseier and K. Strübing. 1988. *Ice regime encountered during RV Polarstern Cruises, Arktis IV-1 and IV-2, 1987*. North York, Ont., York University. Centre for Research in Experimental Space Science. AES/YORK/DFVLR Microwave Group. (Technical Report MWG-88-5.)
- Asmus, K.A. and 7 others (M. Collins, C. Garrity, W. Grady, D.J. Lapp, R.O. Ramseier, I.R. Rubinstein and K. Strübing). 1989. *The ice regime encountered during FS Polarstern cruises ARK VI/1, VI/2 and VI/3, 1989*. Ottawa, Ont., Atmospheric Environment Service; Norland Science and Engineering Ltd. (Report MWG-OR 89-5.)
- Asmus, K.A., M. Collins, C. Garrity, D.J. Lapp, R.O. Ramseier, I. Rubinstein and K. Strübing. 1992a. *The ice regime encountered during FS Polarstern cruise's ARK/VI/1,2,3, 1989*. Ottawa, Ont., Atmospheric Environment Service. Ice R & D Division. (Technical Report.)
- Asmus, K.A., C. Garrity, R.O. Ramseier and K. Strübing. 1992b. *ISY real-time ice monitoring demonstration: Weddell Sea operations manual*. Noordwijk, Netherlands, European Space Agency. (ESA/ESTEC Contract 967/91/NL/FG.)
- Asmus, K.A., C. Garrity, R.O. Ramseier and K. Strübing. 1993. *ISY real-time ice monitoring demonstration: Weddell Sea campaign, final report*. Noordwijk, Netherlands, May, European Space Agency. (ESA/ESTEC Purchase Order 92/125514.)
- Asselin, S. 2010. Through a glacier darkly: reversals of race and gender in polar fiction of the nineteenth century. M.A. thesis, Department of English, McGill University, Montréal, Que., iv + 105 pp. (www.collectionscanada.gc.ca/obj/thesescanada/vol2/QMM/TC-QMM-94912.pdf.)
- Atencio, A., A. Cefarelli, I. Schloss, G. Ferreyra and M. Ferrario. 2007. Estudio preliminar de la biodiversidad de diatomeas (Bacillariophyta) en Caleta Potter, Antártida [Preliminary study of the biodiversity of diatoms (Bacillariophyta) in Potter Cove, Antarctica]. *Actas del VI° Simposio Argentino y III° Latinoamericano sobre Investigaciones Antárticas, 10–14 Septiembre 2007, Buenos Aires, Argentina*. Buenos Aires, Dirección Nacional del Antártico. Instituto Antártico Argentino, Extended abstract CVCO326, CD-ROM. [In Spanish] (www.dna.gov.ar/CIENCIA/SANTAR07/CD/PDF/CVCO326.PDF.)

- Atencio, A.G., M.L. Bertolin, L. Longhi, G.A. Ferreyra, M.E. Ferrario and I.R. Schloss. 2008. Spatial and temporal variability of chlorophyll-a and particulate organic matter in the sediments and the water column of Potter Cove, Antarctica. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **571**, 154–161. (<http://epic.awi.de/28602/1/Wie2008b.pdf>.)
- Atkins, C.B., P.J. Barrett and S.R. Hicock. 2002a. Cold glaciers erode and deposit: evidence from Allan Hills, Antarctica. *Geology*, **30**(7), 659–662. (10.1130/0091-7613(2002)030<0659:CGEAD>2.0.CO;2.)
- Atkins, C.B., P.J. Barrett and S.R. Hicock. 2002b. Dry-based glaciers do erode and deposit: evidence from Allan Hills, Antarctica. [Abstract SE52D-09.] *Eos, Trans. AGU*, **83**(22), West. Pac. Geophys. Meet. Suppl., WP127. (www.agu.org/meetings/wp02/waiswp02.html.)
- Atkinson, A., V. Siegel, E. Pakhomov and P. Rothery. 2004. Long-term decline in krill stock and increase in salps within the Southern Ocean. *Nature*, **432**(7013), 100–103. (10.1038/nature02996.)
- Atkinson, A. and 9 others (including E.A. Pakhomov). 2007. Mechanisms for the high total production of Antarctic krill. *Human and climate forcing of zooplankton populations. 4th International Zooplankton Production Symposium, 28 May–1 June 2007, Hiroshima, Japan. Abstracts and program*. Sidney, B.C., North Pacific Marine Science Organization (PICES), Abstract W3-3512, 223. (www.pices.int/publications/book_of_abstracts/2007_4th_Zooplankton_Symposium.pdf.)
- Atkinson, A. and 11 others (including E.A. Pakhomov). 2008. Oceanic circumpolar habitats of Antarctic krill. *Mar. Ecol. Progr. Ser.*, **362**, 1–23. (CCAMLR Meeting Document WG-EMM-08/P4.) (10.3354/meps07498.)
- Atkinson, A., V. Siegel, E.A. Pakhomov, M.J. Jessopp and V. Loeb. 2009. A re-appraisal of the total biomass and annual production of Antarctic krill. *Deep-Sea Res. I*, **56**(5), 727–740. (CCAMLR Meeting Document WG-EMM-08/17, 2008.) (10.1016/j.dsr.2008.12.007.)
- Atkinson, A., P. Ward, B.P.V. Hunt, E.A. Pakhomov and G.W. Hosie. 2012a. An overview of Southern Ocean zooplankton data: abundance, biomass, feeding and functional relationships. *CCAMLR Sci.*, **19**, 171–218. (CCAMLR Meeting Document CCAMLR-IWC-WS-08/12, 2008.) (www.ccamlr.org/en/system/files/science_journal_papers/Atkinson-et-al-zoo.pdf.)
- Atkinson, A. and 9 others (including E. Pakhomov). 2012b. Fitting *Euphausia superba* into Southern Ocean food-web models: a review of data sources and their limitations. *CCAMLR Sci.*, **19**, 219–245. (www.ccamlr.org/en/system/files/science_journal_papers/Atkinson-krill.pdf.)
- Aubin, F. and 40 others (including M. Dobbs, P. Hyland, K. MacDermid and G. Smecher). 2010. First implementation of TES bolometer arrays with SQUID-based multiplexed readout on a balloon-borne platform. In Holland, W.S. and J. Zmuidzinas, eds. *Millimeter, submillimeter, and far-infrared detectors and instrumentation for astronomy V*. Bellingham, WA, Society of Photo-optical Instrumentation Engineers, 77411T. (SPIE Proceedings 7741.) (10.1117/12.857596.)
- Auld, A. 2007a. Antarctic trip reveals wonders. *Daily News Halifax*, 26 February, 8.
- Auld, A. 2007b. Ice shelf collapse offers unique chance to probe once-covered Antarctic. *Telegram [St John's]*, 26 February, A.4.
- Auld, A. 2007c. Ice shelf collapse offers unique chance to probe once-covered Antarctic. *Whitehorse Star*, 26 February, 13.
- Auld, A. 2009. More of North America would flood from Antarctic ice sheet melt: study. *Whitehorse Star*, 6 February, 40.
- Aumento, F. and J.M. MacGillivray. 1975. Chapter 26. Geochemistry of buried Miocene-Pleistocene ferromanganese nodules from the Antarctic Ocean. In Hayes, D.E. and L.A. Frakes, eds. *Deep Sea Drilling Project: initial reports, Vol. 28. Fremantle, Australia, to Christchurch, New Zealand: Leg 28*. Washington, DC, U.S. Government Printing Office, July, 795–803. (http://deepseadrilling.org/28/volume/dsdp28_26.pdf.)

- Austermann, J.E. *and 60 others* (the SPT Collaboration that includes A. Bender, T. de Haan, M.A. Dobbs, G.P. Holder, J. Kennedy and K. Vanderlinde). 2012. SPTpol: an instrument for CMB polarization measurements with the South Pole Telescope. In Holland, W.S. and J. Zmuidzinas, eds. *Millimeter, submillimeter, and far-infrared detectors and instrumentation for astronomy VI*. Bellingham, WA, International Society for Optical Engineering, 84521E. (SPIE Proceedings 8452, Part One.) (10.1117/12.927286.)
- Austin, J. *and 12 others* (including S.R. Beagley and T.G. Shepherd). 2003. Uncertainties and assessments of chemistry–climate models of the stratosphere. *Atmos. Chem. Phys. (ACP)*, **3**(1), 1–27. (10.5194/acp-3-1-2003.)
- Austin, J. *and 21 others* (including V.I. Fomichev and N.P. Gillett). 2009. Coupled chemistry climate model simulations of stratospheric temperatures and their trends for the recent past. *Geophys. Res. Lett.*, **36**(13), L13809. (10.1029/2009GL038462.)
- Austin, J. *and 37 others* (including J. Scinocca, D.A. Plummer and T.G. Shepherd). 2010a. Chemistry–climate model simulations of spring Antarctic ozone. *J. Geophys. Res.*, **115**(D3), Special Section, D00M11. (10.1029/2009JD013577.)
- Austin, J. *and 34 others* (including J. Scinocca, D.A. Plummer and T.G. Shepherd). 2010b. Decline and recovery of total column ozone using a multimodel time series analysis. *J. Geophys. Res.*, **115**(D3), Special Section, D00M10. (10.1029/2010JD013857.)
- Ave, M. *and 10 others* (including P.J. Boyle). 2011. The TRACER instrument: a balloon-borne cosmic-ray detector. *Nucl. Instrum. Meth. Phys. Res. A*, **654**(1), 140–156. (10.1016/j.nima.2011.05.050.)
- Azeem, I., G.G. Sivjee and D.J. McEwen. 2008a. Multi-instrument observations of dayside auroral emission dynamics at South Pole. [Abstract.] *Eos, Trans. AGU*, **89**(23), Jt. Assem. Suppl., SA41C-02. (www.agu.org/meetings/ja08/waisja08.html.)
- Azeem, I., D.J. McEwen, G.G. Sivjee and V.N. Kravets. 2008. Multi-instrument observations of dayside auroral emission dynamics at South Pole. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S2.3/O10, 307–308.
- Baardsnes, J., M.J. Kuiper and P.L. Davies. 2003. Antifreeze protein dimer: when two ice-binding faces are better than one. *J. Biol. Chem.*, **278**(40), 38,942–38,947. (10.1074/jbc.M306776200.)
- Baek, S., O.-I.-I. Kwoun, A. Braun, Z. Lu and C.K. Shum. 2005a. Digital elevation model of King Edward VII Peninsula, West Antarctica, from SAR interferometry and ICESat laser altimetry. *IEEE Geosci. Rem. Sens. Lett.*, **2**(4), 413–417. (10.1109/LGRS.2005.853623.)
- Baek, S., C. Shum, Y. Yi, O. Kwoun, Z. Lu and A. Braun. 2005b. Sulzberger Ice Shelf tidal signal reconstruction using InSAR. [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., G42A-08. (www.agu.org/meetings/fm05/waisfm05.html.)
- Baeseman, J.L., A. Church, T. Kuhn, M. Raymond and H. Lantuit. 2006. International Polar Year Youth Steering Committee. [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., ED14A-03. (www.agu.org/meetings/fm06/waisfm06.html.)
- Baeseman, J. *and 9 others* (including B. Else). 2011a. Chapter 4.3. Early career researcher activities during IPY. In Krupnik, I. *and 8 others* (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 511–522. (CCI Occasional Publication 69.) (http://library.arcticportal.org/1211/1/IPY_Summary.pdf)

- Baeseman, J. and 7 others (including K. Fischer, D. Hik and K. Kraft Sloan). 2011b. Chapter 5.6. Shaping the future. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 609–627. (CCI Occasional Publication 69.) (http://library.arcticportal.org/1211/1/IPY_Summary.pdf)
- Bailleul, F., S. Luque, L. Dubroca, J.P.Y. Arnould and C. Guinet. 2005. Differences in foraging strategy and maternal behaviour between two sympatric fur seal species at the Crozet Islands. *Mar. Ecol. Progr. Ser.*, **293**, 273–282. (10.3354/meps293273.)
- Bailleul, F. and 6 others. 2010. Looking at the unseen: combining animal bio-logging and stable isotopes to reveal a shift in the ecological niche of a deep diving predator. *Ecography*, **33**(4), 709–719. (10.1111/j.1600-0587.2009.06034.x.)
- Bains, C. 2001. Canadians make history on student Antarctic expedition. *Western Star [Corner Brook]*, 17 February, 14.
- Baird, G.A. and M.A. Pomerantz. 1972. Upper limit on the X-ray flux associated with gravitational radiation. *Phys. Rev. Lett.*, **28**(20), 1337–1340. (10.1103/PhysRevLett.28.1337.)
- Baird, P.D. 1964. *The polar world*. New York, NY, etc., John Wiley and Sons.
- Baird, P.D. 1972. Research in Antarctic – Symposium presented at Dallas Meeting of American-Association-for-Advancement-of-Science, December, 1968 - QUAM, L. O. *Ann. Assoc. Am. Geogr.*, **62**(4), 728–729.
- Bais, A.F. and 25 others (including D.A. Plummer and T.G. Shepherd). 2011. Projections of UV radiation changes in the 21st century: impact of ozone recovery and cloud effects. *Atmos. Chem. Phys. (ACP)*, **11**(15), 7533–7545. (10.5194/acp-11-7533-2011.)
- Baker, D.N. and 9 others (including R.D. Elphinstone and J.S. Murphree). 1993. CDAW 9 analysis of magnetospheric events on May 3, 1986: event C. *J. Geophys. Res.*, **98**(A3), 3815–3834. (10.1029/92JA02475.)
- Baker, A.J., S.L. Pereira, O.P. Haddrath and K.-A. Edge. 2006. Multiple gene evidence for expansion of extant penguins out of Antarctica due to global cooling. *Proc. R. Soc. London, Ser. B*, **273**(1582), 11–17. (10.1098/rspb.2005.3260.)
- Baker, C.S. and 10 others (including J. Lien). 1994. Hierarchical structure of mitochondrial DNA gene flow among humpback whales *Megaptera novaeangliae*, world-wide. *Mol. Ecol.*, **3**(4), 313–327. (10.1111/j.1365-294X.1994.tb00071.x.)
- Baker, M.G., S. Lalonde, K. Konhauser and J. Foght. 2008. The influence of extracellular polymeric substances on the chemical reactivity of *Hymenobacter aerophilus*, a psychrotolerant bacterium. *3rd International Conference on Polar and Alpine Microbiology, Banff, Alberta, Canada, 11–15 May 2008. Program & abstracts*. Edmonton, Alta., University of Alberta. Department of Biological Sciences, Abstract PA-07, 28. (www.polaralpinemicrobiology.com/PAM_Program.pdf)
- Baldwin, M.P., J.L. Neu, S. Drobot, P. Canziani, S. Yoden and N. McFarlane. 2005. SPARC and the International Polar Year (IPY) 2007–2008. *SPARC Newsl.*, **25**, 3–5. (<http://tinyurl.com/qe9paaj>.)
- Balks, M.R., J. Aislabie and J. Foght. 1998. Preliminary assessment of the constraints to biodegradation of fuel spills in Antarctic soils / Evaluation préliminaire des limites de la biodégradation d'hydrocarbures issus de déversements accidentels dans les sols de l'Antarctique. *Proceedings of the 16th World Congress of Soil Science, 20–26 August 1998, Montpellier France*. Montpellier, France, International Union of Soil Sciences, II-694, CD-ROM. (<http://natres.psu.ac.th/Link/SoilCongress/bdd/symp38/1132-t.pdf>)
- Bankes, N.D. 1981. Environmental protection in Antarctica. In Bourne, C.B., ed. *Canadian yearbook of international law, Vol. 19*. Vancouver, B.C., University of British Columbia Press, 303–319.
- Bankes, N.D. 1988. Canada and the natural resources of the polar regions. *Queen's Law J.*, **1988**, Special Issue, 292–323.

- Baraniecki, C.A.P. 2000. Characterization of *Sphingomonas paucimobilis* ANT 17, an oil-degrading bacterial isolate from Antarctica. M.Sc. thesis, Department of Biological Sciences, University of Alberta, Edmonton, Alta., 15 + 178 pp. (<http://hdl.handle.net/10402/era.5286>.)
- Baraniecki, C.A., J. Aislabie and J.M. Foght. 2002. Characterization of *Sphingomonas* sp. Ant 17, an aromatic hydrocarbon-degrading bacterium isolated from Antarctic soil. *Microbial Ecol.*, **43**(1), 44–54. (10.1007/s00248-001-1019-3.)
- Barber, D.L., J.E. Mills Westermann and M.G. White. 1981. The blood cells of the Antarctic icefish *Chaenocephalus aceratus* Lönnberg: light and electron microscopic observations. *J. Fish Biol.*, **19**(1), 11–28. (10.1111/j.1095-8649.1981.tb05807.x.)
- Barber, D.L., J.E. Mills Westermann and P. Storoz. 1987. *Haemogregarina nototheniae* n. sp., from the blood of Antarctic nototheniids. *Syst. Parasitol.*, **10**(2), 135–147. (10.1007/BF00009619.)
- Barber, D.L. and J.E. Mills Westermann. 1988. *Haemogregarina georgiana* n. sp., a new haemogregarine parasite from the Antarctic teleost *Parachaenichthys georgianus* *Syst. Parasitol.*, **11**(1), 65–71. (10.1007/BF00006978.)
- Barber, D. and R.A. Massom. 2007. Chapter 1. The role of sea ice in Arctic and Antarctic polynyas. In Smith, W., Jr and D. Barber, eds. *Polynyas: windows to the world*. Amsterdam, Elsevier, 1–54. (Oceanography Series 74.) (10.1016/S0422-9894(06)74001-6.)
- Barber, L., P. Collin, L. Malo, N. Snape and S. Roy. 2008. Projet Ant-Arctique - a classroom approach to polar research. *Arctic Change 2008, Conference Programme and Abstracts/Programme et résumés de la conférence, 9–12 December/décembre 2008, Québec*. Québec, Qué., Université Laval. ArcticNet Inc., 176. (www.arctic-change2008.com/pdf/ac-programme.pdf.)
- Barber, L.M.J. 2010. Projet Ant-Arctique – a classroom approach to polar research. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 385861, digital media. (www.ipy-osc.no/abstract/385861.)
- Barbier, J., E.S. Grew, P.B. Moore and S.-C. Su. 1999. Khmaralite, a new beryllium-bearing mineral related to sapphirine; a superstructure resulting from partial ordering of Be, Al, and Si on tetrahedral sites. *Am. Mineral.*, **84**(10), 1650–1660. (www.minsocam.org/msa/ammin/toc/Articles_Free/1999/Barbier_p1650-1660_99.pdf.)
- Barbier, J., E.S. Grew, E. Halenius, U. Halenius and M.G. Yates. 2002. The role of Fe and cation order in the crystal chemistry of surinamite, $(\text{Mg,Fe}^{2+})_3(\text{Al,Fe}^{3+})_3\text{O}[\text{AlBeSi}_3\text{O}_{15}]$: a crystal structure, Mössbauer spectroscopic, and optical spectroscopic study. *Am. Mineral.*, **87**(4), 501–513. (www.minsocam.org/msa/ammin/toc/Articles_Free/2002/Barbier_p501-513_02.pdf.)
- Barkay, T. and A.J. Poulain. 2007. Mercury (micro)biogeochemistry in polar environments. *FEMS Microbiol. Ecol.*, **59**(2), 232–241. (10.1111/j.1574-6941.2006.00246.x.)
- Barkay, T., N. Kroer and A.J. Poulain. 2011. Some like it cold: microbial transformations of mercury in polar regions. *Polar Res.*, **30**, 15469. (10.3402/polar.v30i0.15469.)
- Barker, H.W. 1995. Methodological dependencies of cloud radiative forcing for the Canadian Climate Centre second-generation general circulation model. *J. Geophys. Res.*, **100**(D1), 1017–1025. (10.1029/94JD02045.)
- Barker, H.W. and A.V. Korolev. 2010. An update on blue snow holes. *J. Geophys. Res.*, **115**(D18), D18211. (10.1029/2009JD013085.)
- Barker, J. 2003. Biogeochemical transformations of organic carbon in cold-based glacier systems. *CARN Newsl.*, **16**, 7–8. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/16.pdf.)
- Barker, J. 2005. Upper Victoria Valley, McMurdo Dry Valleys, Antarctica, January and November, 2003. *CARN Newsl.*, **20**, 1–2. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/20.pdf.)

- Barker, J.D. 2007. An investigation of the abundance and molecular characteristics of organic matter in glacier systems. Ph.D. thesis, Department of Earth and Atmospheric Sciences, University of Alberta, Edmonton, Alta, 115 pp.
- Barker, J., M. Sharp, J. Klassen, J. Foght and R. Turner. 2004. Organic carbon dynamics in glacier systems. [Abstract.] *Eos, Trans. AGU*, **85**(47), Fall Meet. Suppl., B23C-07. (www.agu.org/meetings/fm04/waisfm04.html.)
- Barker, J.D., M.J. Sharp, S.J. Fitzsimons and R.J. Turner. 2006. Abundance and dynamics of dissolved organic carbon in glacier systems. *Arct. Ant. Alp. Res.*, **38**(2), 163–172. (10.1657/1523-0430(2006)38[163:AADODO]2.0.CO;2.)
- Barker, J.D., Y. Chin, M.J. Sharp, W.B. Lyons and R.J. Turner. 2007. The presence and export of labile dissolved organic matter from glacier systems. [Abstract.] *Eos, Trans. AGU*, **88**(52), Fall Meet. Suppl., B42A-04. (www.agu.org/meetings/fm07/waisfm07.html.)
- Barker, J.D., J.L. Klassen, M.J. Sharp, S.J. Fitzsimons and R.J. Turner. 2010. Detecting biogeochemical activity in basal ice using fluorescence spectroscopy. *Ann. Glaciol.*, **51**(56), 47–55. (10.3189/172756411795931967.)
- Barker, P. and J. Bye. 2004. Subantarctic mode water formation south of Australia. [Abstract OS51A-02.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA305. (www.agu.org/meetings/sm04/waism04.html.)
- Barker, P., R. Karsten and H. Freeland. 2004. Argo float observation of Antarctic intermediate water. 2005 *IAG/IAPSO/IABO Joint Assembly Abstracts*. Göteborg, International Association for the Physical Sciences of the Oceans, paper 315.
- Barker, P., R. Karsten and H. Freeland. 2006. Argo float observations of Antarctic intermediate water. *Second Argo Science Workshop, 13–18 March 2006, Venice, Italy. Abstracts*. Ramonville, France, Argo Information Center, digital media. (www.argo.ucsd.edu/workshop2/Barker_abs.html.)
- Barker, P.F. and 24 others (including C.P.G. Pereira and E. Schandl), eds. 1988a. *Proceedings of the Ocean Drilling Program: initial reports. Weddell Sea, Antarctica: sites 689–697: covering Leg 113 of the cruises of the Drilling Vessel JOIDES Resolution, Valparaiso, Chile, to East Cove, Falkland Islands, Sites 689–697, 25 December 1986–11 March 1987. Vol. 113*. College Station, TX, Texas A & M University. Ocean Drilling Program. (10.2973/odp.proc.ir.113.1988.)
- Barker, P.F. and 24 others (including C.P.G. Pereira and E. Schandl). 1988b. Résultats préliminaires de la campagne 113 du Joides-Resolution (Ocean Drilling Program) en mer de Weddell; histoire de la glaciation antarctique [Preliminary results of ODP Leg 113 of the JOIDES Resolution in the Weddell Sea; history of the Antarctic glaciation]. *C. R. Acad. Sci. II [Paris]*, **306**(1), 73–78. (<http://gallica.bnf.fr/ark:/12148/bpt6k5664568n>.)
- Barker, P.F. and 24 others (including C.P.Q. Pereira and E. Schandl), eds. 1990. *Proceedings of the Ocean Drilling Program: scientific results. Weddell Sea, Antarctica: covering Leg 113 of the cruises of the Drilling Vessel JOIDES Resolution, Valparaiso, Chile, to East Cove, Falkland Islands, sites 689–697, 25 December 1986–11 March 1987. Vol. 113*. College Station, TX, Texas A & M University. Ocean Drilling Program, July. (10.2973/odp.proc.ir.113.1988.)
- Barker, P.F., A. Camerlenghi, G.D. Acton, A.T.S. Ramsay and the Shipboard Scientific Party (that includes N. Eyles), eds. 1999. *Proceedings of the Ocean Drilling Program: initial reports. Antarctic glacial history and sea-level change: covering Leg 178 of the cruises of the drilling vessel JOIDES Resolution. Punta Arenas, Chile, to Cape Town, South Africa: sites 1095–1103, 5 February–9 April 1998. Vol. 178*. College Station, TX, Texas A & M University. Ocean Drilling Program. (10.2973/odp.proc.ir.178.1999.)

- Barker, P.F., A. Camerlenghi, G.D. Acton, A.T.S. Ramsay and the Shipboard Scientific Party (that includes N. Eyles and A. Caldwell as ice observer), eds. 2002. *Proceedings of the Ocean Drilling Program: scientific results. Antarctic glacial history and sea-level change: covering Leg 178 of the cruises of the drilling vessel JOIDES Resolution. Punta Arenas, Chile, to Cape Town, South Africa: sites 1095–1103, 5 February–9 April 1998. Vol. 178.* College Station, TX, Texas A&M University. Ocean Drilling Program. (10.2973/odp.proc.sr.178.2002.)
- Barnes, D.K.A. and K.E. Conlan. 2007. Disturbance, colonization and development of Antarctic benthic communities. *Philos. Trans. R. Soc. London, Ser. B*, **362**(1477), 11–38. (10.1098/rstb.2006.1951.)
- Barnes, D.K.A. and K.E. Conlan. 2012. Chapter 9. The dynamic mosaic. In Rogers, A.D., N.M. Johnston, E.J. Murphy and A. Clarke, eds. *Antarctic ecosystems: an extreme environment in a changing world.* Oxford, Wiley-Blackwell, 255–290. (10.1002/9781444347241.ch9.)
- Barnes-Connell, V.G. 2009. Ashley Dubnick researching in Antarctica. *La Ronge North.*, (Thursday, 22 October), digital media. (www.townoflaronge.ca/TheNortherner/Story.php?id=535.)
- Barr, R. 2002. Large area of Antarctic ice collapses. *Niagara Falls Rev.*, C.8.
- Barr, S.R., N. Januszczak, T.S. Brewer and P.K. Harvey. 2001. Determining the glacial history of Prydz Bay, Antarctica; observations based on the integration of downhole logging data and sedimentological description from ODP Leg 188, Hole 1166. [Abstract.] *Quad. Geofis.*, **16**, 11–12.
- Barr, W. 1985. Aleksandr Stepanovich Kuchin: the Russian who went south with Amundsen. *Polar Rec.*, **22**(139), 401–412. (10.1017/S0032247400005647.)
- Barr, W. 2000. First landings on Zavodovski Island, South Sandwich Islands, 1819. *Polar Rec.*, **36**(199), 317–322. (10.1017/S0032247400016806.)
- Barr, W. 2007a. Belgian Antarctic (Belgica) Expedition (1897–1899). In Riffenburgh, B., ed. *Encyclopedia of the Antarctic, Vol. 1.* New York, NY, Routledge. Taylor and Francis Group, 136–137.
- Barr, W. 2007b. British Antarctic (Erebus and Terror) Expedition (1839–1843). In Riffenburgh, B., ed. *Encyclopedia of the Antarctic, Vol. 1.* New York, NY, Routledge. Taylor and Francis Group, 181–183.
- Barr, W. 2007c. Dallmann, Eduard. In Riffenburgh, B., ed. *Encyclopedia of the Antarctic, Vol. 1.* New York, NY, Routledge. Taylor and Francis Group, 321–322.
- Barr, W. 2007d. de Gerlache de Gomery, Baron Adrien. In Riffenburgh, B., ed. *Encyclopedia of the Antarctic, Vol. 1.* New York, NY, Routledge. Taylor and Francis Group, 325–326.
- Barr, W. 2007e. Filchner, Wilhelm. In Riffenburgh, B., ed. *Encyclopedia of the Antarctic, Vol. 1.* New York, NY, Routledge. Taylor and Francis Group, 394–395.
- Barr, W. 2007f. German South Polar (Deutschland) Expedition (1911–1912). In Riffenburgh, B., ed. *Encyclopedia of the Antarctic, Vol. 1.* New York, NY, Routledge. Taylor and Francis Group, 453–455.
- Barr, W. 2007g. International Polar Years. In Riffenburgh, B., ed. *Encyclopedia of the Antarctic, Vol. 1.* New York, NY, Routledge. Taylor and Francis Group, 537–539.
- Barr, W. 2007h. Ross, James Clark. In Riffenburgh, B., ed. *Encyclopedia of the Antarctic, Vol. 2.* New York, NY, Routledge. Taylor and Francis Group, 809–810.
- Barr, W. 2008. Fritz Koerner: explorer whose polar data illuminated the climate-change debate. *Guardian*, Wednesday, 13 August, digital media. (www.guardian.co.uk/science/2008/aug/13/scienceofclimatechange.arctic.)
- Barr, W. and J.P.C. Watt. 2005. Pioneer whalers in the Ross Sea, 1923–33. *Polar Rec.*, **41**(4), 281–304. (10.1017/S0032247405004638.)
- Barr, W., R. Krause and P.-M. Pawlik. 2004. Chukchi Sea, Southern Ocean, Kara Sea: the polar voyages of Captain Eduard Dallmann, whaler, trader, explorer 1830–96. *Polar Rec.*, **40**(1), 1–18. (10.1017/S0032247403003139.)

- Barrie, L.A. 1993. Features of polar regions relevant to tropospheric ozone chemistry. In Niki, H. and K.H. Becker, eds. *The tropospheric chemistry of ozone in the polar regions*. Berlin, etc., Springer-Verlag, 3–24. (NATO ASI Series I: Global Environmental Change 7.)
- Barrie, L.A. and R.J. Delmas. 1994. Polar atmosphere and snow chemistry. In Prinn, R.G., ed. *Global Atmospheric-Biospheric Chemistry, Vol. 48*. New York, Plenum Press, 149–164. (Environmental Science Research.)
- Barron, J.A. and 29 others (including R.E. Cranston and C.J. Schroder), eds. 1989. *Kerguelen Plateau–Prydz Basin: covering Leg 119 of the cruises of the drilling vessel JOIDES Resolution, Port Louis, Mauritius to Fremantle, Australia, sites 736–746, 14 December 1987–20 February 1988. Vol. 119*. College Station, TX, Texas A & M University. Ocean Drilling Program, September. (Proceedings of the Ocean Drilling Program, Part A: initial reports.) (10.2973/odp.proc.ir.119.1989.)
- Barron, J.A. and 29 others (including R.E. Cranston and C. Schroder), eds. 1991. *Proceedings of the Ocean Drilling Program: scientific results. Kerguelen Plateau–Prydz Basin: covering Leg 119 of the cruises of the drilling vessel JOIDES Resolution, Port Louis, Mauritius to Fremantle, Australia, sites 736–746, 14 December 1987–20 February 1988. Vol. 119*. College Station, TX, Texas A & M University. Ocean Drilling Program, September. (10.2973/odp.proc.sr.119.1991.)
- Barrow, C.H., K. Wilhelm, J. Watermann and D.S. Evans. 1991. Observations of Antarctic auroral electron precipitation with high stability in time and longitude. *Ann. Geophys.*, **9**(4), 259–266.
- Bassett, S.E., G.A. Milne, J.X. Mitrovica and P.U. Clark. 2004. Modelling near and far-field sea-level data to infer source of meltwater pulse IA. [Abstract GC11A-03.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA135. (www.agu.org/meetings/sm04/waissm04.html.)
- Bassett, S.E., G.A. Milne, J.X. Mitrovica and P.U. Clark. 2005. Ice sheet and solid Earth influences on far-field sea-level histories. *Science*, **309**(5736), 925–928. (10.1126/science.1111575.)
- Bastmeijer, C.J., P.T. Maher, J. O'Reilly and T. Tin. 2010. Public perception of the Antarctic wilderness: initial data from an educated, environmentally knowledgeable, European community. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 380274, digital media. (www.ipy-osc.no/abstract/380274.)
- Bathmann, U., L. von Harbou, S. Krägefsky, S. Kruse, B. Meyer and E. Pakhomov. 2010. Pelagic ecosystem dynamics in the Lazarev Sea, Southern Ocean. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 362190, digital media. (www.ipy-osc.no/abstract/362190.)
- Batten, S. and G. Hosie. 2009. SCAR Southern Ocean Continuous Plankton Recorder survey. *From ecosystem function to prediction, 3rd GLOBEC Open Science Meeting, 22–26 June 2009, Victoria, BC, Canada. Abstracts*. Nanaimo, B.C., Department of Fisheries and Oceans. Pacific Biological Station, Abstract WF-O3, 116. (www.confmanager.com/communities/c1345/files/osm/abstracts_book_web.pdf.)
- Batten, S. and P. Burkill. 2009. Workshop F: Continuous Plankton Recorder surveys of the global ocean. *GLOBEC Int. Newsl.*, **15**(2), 42–44. (www.globec.org/downloader.php?id=231.)
- Baulch, S., P. Pulsifer and D.R.F. Taylor. 2003. *Learning modules for the Cybercartographic Atlas of Antarctica: interim report*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies, Geomatics and Cartographic Research Centre.
- Baulch, S., R. MacDonald, P.L. Pulsifer and D.R.F. Taylor. 2005. Chapter 21. Cybercartography for education: the case of the Cybercartographic Atlas of Antarctica. In Taylor, D.R.F., ed. *Cybercartography: theory and practice*. Amsterdam, Elsevier, 491–516. (Modern Cartography Series 4.) (10.1016/S1363-0814(05)80024-3.)

- Bayer, B., C. Müller, W.H. Geissler, D.W. Eaton, A. Eckstaller and W. Jokat. 2007a. Crust and upper mantle in Dronning Maud Land Antarctica retrieved from shear-wave splitting receiver functions seismic refraction and 3-D gravity modelling. In Cooper, A.K., P. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007*. Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (U.S. Geol. Surv. Open-File Rep. 2007-1047.) (Extended Abstract 036.) (<http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea036.pdf>.)
- Bayer, B., C. Müller, D.W. Eaton and W. Jokat. 2007b. Seismic anisotropy beneath Dronning Maud Land, Antarctica, revealed by shear wave splitting. *Geophys. J. Int.*, **171**(1), 339–351. (10.1111/j.1365-246X.2007.03519.x.)
- Beagley, S.R. 2004. The interaction between chemistry and dynamics in a climate model during Antarctic ozone depletion events. [Abstract A23B-03.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA34. (www.agu.org/meetings/sm04/waissm04.html.)
- Beagley, S., K. Semeniuk, J. de Grandpré, V.I. Formichev, J.C. McConnell, D. Plummer, A. Jonsson, C. McLandress, T.G. Shepherd, J. Scinocca and N.A. McFarlane. 2006. Simulating the evolution of stratospheric ozone depletion: growth of a problem. *40th CMOS Congress, Weather, Oceans and Climate, Exploring the Connections, 29 May–1 June 2006, Toronto, Ontario. Abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 2DPA6.11. (www.cmos.ca/CongressAbstracts/cong4006.pdf.)
- Beaudoin, Y., S.D. Scott, M.P. Gorton, Z. Zajacz and W. Halter. 2007. Pb and other ore metals in modern seafloor tectonic environments: evidence from melt inclusions. *Mar. Geol.*, **242**(4), 271–289. (10.1016/j.margeo.2007.04.004.)
- Beaulieu, L., A. Juan and P. Boissonnet. 2010. *Antarctica: espace(s) de fragilité. Galerie d'art du Parc. Trois-Rivières, Qué., Université du Québec à Trois-Rivières. Arts visuels.*
- Beck, P.J. 1991. *Canada as a bi-polar power: Canada's Antarctic dimension*. Thunder Bay, Ont., Lakehead University. Centre for Northern Studies. (Occasional Paper 7.)
- Beck, P.J. 1995. Through Arctic eyes: Canada and Antarctica, 1945–62. *Arctic*, **48**(2), 136–146. (<http://arctic.synergiesprairies.ca/arctic/index.php/arctic/article/view/1235/1260>.)
- Beck, P.J. 1996. Identifying national interests in Antarctica: the case of Canada. *Polar Rec.*, **32**(183), 335–346. (10.1017/S0032247400067553.)
- Becker, S., R. Hanner and D. Steinke. 2011. Five years of FISH-BOL: brief status report. *MtDNA*, **22**(S1), 3–9. (10.3109/19401736.2010.535528.)
- Bédard, J.H. and 7 others. 2005. Evidence for channelized transfer of residual melts and fluids in the basement sill, Ferrar Province, Antarctica. [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., V14C-05. (www.agu.org/meetings/fm05/waisfm05.html.)
- Bédard, J.H.J., B.D. Marsh, T.G. Hersum, H.R. Naslund and S.B. Mukasa. 2007. Large-scale mechanical redistribution of orthopyroxene and plagioclase in the basement sill, Ferrar dolerites, McMurdo Dry Valleys, Antarctica: petrological, mineral-chemical and field evidence for channelized movement of crystals and melt. *J. Petrol.*, **48**(12), 2289–2326. (10.1093/petrology/egm060.)
- Beeby, D. 1994. *In a crystal land: Canadian explorers in Antarctica*. Toronto, Ont., University of Toronto Press.
- Beeby, D. 1998. Hugh Blackwall Evans: first Canadian in the Antarctic. *CARN Newsl.*, **7**, 2–3. ([www.polarcom.gc.ca/uploads/Publications/\(CARN\)/CARN%207%20English.pdf](http://www.polarcom.gc.ca/uploads/Publications/(CARN)/CARN%207%20English.pdf).)
- Beeby, D. 2002a. Canada under fire for failing to ratify Antarctic deal after 10 years. *Sudbury Star*, 13 January, A.5.

- Beeby, D. 2002b. Canada's failure to ratify Antarctic deal criticized. *Expositor [Brantford]*, 19 January, D.12.
- Beech, M. 2006. From Antarctica to Manitoba - the 14th Annual MIAC meeting. *J. R. Astron. Soc. Can.*, **100**(1), 26. (www.rasc.ca/sites/default/files/jrasc2006-02.pdf.)
- Béland, M. and I. Allison. 2005. The emerging framework for IPY 2007–2008. *Geophys. Res. Abstr.*, **7**, 2005 EGU Gen. Assem., EGU05-A-09719. (www.cosis.net/abstracts/EGU05/09719/EGU05-J-09719.pdf.)
- Bell, L.G. 2002. World ocean temperature lag time: an analysis based on glaciation data for the last two million years. *Theor. Appl. Climatol.*, **73**(3–4), 243–247. (10.1007/s00704-002-0687-3.)
- Bell, P. and G. Younger-Lewis. 1999. Sorby of the Antarctic: Next year, adventurer Sunniva Sorby of Montreal and a colleague will attempt to become the first women to make the frigid 2,500-kilometre trek across Antarctica. Pat Bell reports. *Ottawa Citizen*, 25 June, A.1.
- Bell, R.E., M. Studinger, A.A. Tikku, G.K. Clarke and M.M. Gutner. 2001. Freezing and open-system water exchange in Subglacial Lake Vostok. [Abstract IP21A-0670.] *Eos, Trans. AGU*, **82**(47), Fall Meet. Suppl., digital media. (www.agu.org/meetings/fm01/waisfm01.html.)
- Bell, R.E., M. Studinger, A. Tikku, G.K.C. Clarke, M. Gutner and C. Meertens. 2002a. Origin and fate of Lake Vostok water accreted to the base of the East Antarctic ice sheet. [Abstract B22A-01.] *Eos, Trans. AGU*, **83**(19), Spring Meet. Suppl., S89. (www.agu.org/meetings/sm02/waism02.html.)
- Bell, R.E., M. Studinger, A.A. Tikku, G.K.C. Clarke, M.M. Gutner and C. Meertens. 2002b. Origin and fate of Lake Vostok water frozen to the base of the East Antarctic ice sheet. *Nature*, **416**(6878), 307–310. (10.1038/416307a.)
- Bell, R.E. and 14 others (including G. Duhaime). 2003. A new phase of exploration and understanding: planning for the International Polar Year - 2007/2008. [Abstract C32B-01.] *Eos, Trans. AGU*, **84**(46), Fall Meet. Suppl., F385. (www.agu.org/meetings/fm03/waisfm03.html.)
- Bell, R.E., M. Studinger, G.K. Clarke and A. Tikku. 2005. Distribution and stability of accretion in Lake Vostok. [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., C12C-06. (www.agu.org/meetings/fm05/waisfm05.html.)
- Bell, R.E. and 12 others (including S. Elieff). 2009a. The East Antarctic ice sheet and the Gamburtsev Subglacial Mountains. [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., G52B-03. (www.agu.org/meetings/fm09/waisfm09.html.)
- Bell, R. and 12 others (including S. Elieff). 2009b. Peering beneath the ice sheet: AGAP evidence for a more dynamic East Antarctica. 2009 WAIS/FRISP Workshop, 16th Annual WAIS Workshop, September 27–29, 2009, Pack Forest Conference Center, Eatonville, Washington. *Agenda & abstracts*. Greenbelt, MD, NASA/Goddard Space Flight Center, digital media. (www.waisworkshop.org/pastmeetings/abstracts09/Bell.pdf.)
- Bell, R. and 12 others (including S. Elieff). 2009c. Peering beneath the ice sheet: AGAP evidence for a more dynamic East Antarctica. *First Antarctic Climate Evolution Symposium, 7–11 September 2009, Parque de las Ciencias, Granada, Spain*. Granada, Universidad de Granada (UGR). Consejo Superior de Investigaciones Científicas (CSIC). Instituto Andaluz de Ciencias de la Tierra (IACT), Abstract 3578, digital media. (www.apcongress.es/misc/webantartic/docs/resumen/M8-10.40.pdf.)
- Bell, R.E., I. Krupnik, D. Hik, K.D. Alverson and M.R. Drinkwater. 2010. Building on IPY data, collaborations and infrastructure to understand the changing poles. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, GC11A-01, digital media. (www.agu.org/cgi-bin/wais?ss=GC11A-01.)
- Bell, T.F., U.S. Inan, J.P. Katsufakis and H.G. James. 1982. Frequency bandwidth increase of VLF transmitter signals during propagation at low altitude. *Antarct. J. U.S.*, **17**(5), 1982 Review, 238–239. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXVIIIn5/AJUSvXVIIIn5p238.pdf>.)

- Bell, T.F., J.P. Katsufraakis and H.G. James. 1983. Studies of the spectral broadening effect with the Siple Station VLF transmitter. *Antarct. J. U.S.*, **18**(5), 1983 Review, 272–274. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXVIIIIn5/AJUSvXVIIIIn5p272.pdf>.)
- Bell, T.F., J.P. Katsufraakis, V.S. Sonwalkar, R.A. Helliwell and H.G. James. 1984. Siple Station VLF wave-injection experiments: ISIS and ISEE satellite observations. *Antarct. J. U.S.*, **19**(5), 1984 Review, 230–232. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXIXn5/AJUSvXIXn5p230.pdf>.)
- Bell, T.F., J.P. Katsufraakis and H.G. James. 1985a. A new type of very-low-frequency emission triggered at altitudes below 1,400 kilometers by signals from Siple Station. *Antarct. J. U.S.*, **20**(5), 1985 Review, 241–242. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXXn5/AJUSvXXn5p241.pdf>.)
- Bell, T.F., J.P. Katsufraakis and H.G. James. 1985b. A new type of VLF emission triggered at low altitude in the subauroral region by Siple Station VLF transmitter signals. *J. Geophys. Res.*, **90**(A12), 965–974. (10.1029/JA090iA12p12183.)
- Belzile, C., S. Demers, D.R.S. Lean, B. Mostajir, S. Roy, S. de Mora, M. Gosselin, D. Bird, J.P. Chanut and M. Levasseur. 1998. An experimental tool for the study of the effects of ultraviolet radiation of planktonic communities: a mesocosm approach. *Environ. Technol.*, **19**(7), 667–682. (10.1080/09593331908616723.)
- Benson, B.A. and 79 others (the SPT Collaboration that includes T. de Haan, J.P. Dudley, M.A. Dobbs, G.P. Holder, L. Shaw, A. van Engelen and K. Vanderlinde). 2012. Cosmological constraints from Sunyaev-Zel'dovich-selected clusters with X-ray observations in the first 178 deg² of the South Pole Telescope survey. *Astrophys. J.*, **763**(2), Article 147. (10.1088/0004-637X/763/2/147.)
- Bentley, C.R. and M.B. Giovinetto. 1991. Mass balance of Antarctica and sea level change. In Weller, G., C.L. Wilson and B.A.B. Severin, eds. *International Conference on the Role of the Polar Regions in Global Change. Proceedings of a conference held June 11–15, 1990 at the University of Alaska Fairbanks, Vol. II*. Fairbanks, AK, University of Alaska. Geophysical Institute. Center for Global Change and Arctic System Research, December, 481–488.
- Bentley, C.R. and M.B. Giovinetto. 1992. Mass balance of Antarctica and sea level change. [Abstract.] *Eos, Trans. AGU*, **73**(43), Fall Meet. Suppl., 203.
- Benson, K.R. and H.M. Rozwadowski, eds. 2007. *Extremes: oceanography's adventures at the Poles. Vol. 4*. Sagamore Beach, MA, Watson Publishing International. Science History Publications. (Maury Workshop.)
- Bergmann, M. and J. Tomkins. 2008. Polar Continental Shelf Project: 50 years of supporting Arctic science. *Arctic Change 2008, Conference Programme and Abstracts/Programme et résumés de la conférence, 9–12 December/décembre 2008, Québec*. Québec, Qué., Université Laval. ArcticNet Inc., 181. (www.arctic-change2008.com/pdf/ac-programme.pdf.)
- Berkey, F.T. and 6 others (including W.K. Hocking, C.E. Meek and A.H. Manson). 2002. MF radar measurements with the NOAA dynasonde. *Eos, Trans. AGU*, **83**(22), West. Pac. Geophys. Meet. Suppl., Abstract SP51C-05. (www.agu.org/meetings/wp02/waiswp02.html.)
- Bernier, M., Y. Gauthier and A. El Battay. 2007. *Traitement et analyse d'images RADARSAT-1 de l'Archipel de Melchior dans le cadre de la Mission Antarctique du SEDNA IV*. Sainte-Foy, Québec Institut national de la recherche scientifique, Eau, Terre et Environnement (INRS-ETE), présenté à l'Agence Spatiale Canadienne. (Rapport de recherche R-908.)
- Bers, A.V., F. Momo, I. Schloss, D. Abele and M. Braun. 2012. Analysis of trends and sudden changes in environmental long-term data from King George Island (Antarctica): relationships between global climatic oscillations and local system response. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_35.pdf.)

- Bertoia, C. and B. Ramsay. 1998. Sea ice analysis and products: cooperative work at the US and Canadian national ice centers. In Stein, T.I., ed. *IGARSS '98, Sensing and managing the environment, 18th International Geoscience and Remote Sensing Symposium, 6–10 July 1998, Seattle, Washington. Proceedings, Vol. 4*. New York, NY, Institute of Electrical and Electronics Engineers, 1944–1947. (10.1109/IGARSS.1998.703703.)
- Bertolin, M.L. and I.R. Schloss. 2009. Phytoplankton production after the collapse of the Larsen A Ice Shelf, Antarctica. *Polar Biol.*, **32**(10), 1435–1446. (10.1007/s00300-009-0638-x.)
- Best, P. 2006. Antarctic trek requires stamina and – most importantly – heart. *Globe & Mail [Toronto]*, 28 February, B.2.
- Bestelmeyer, B.T. and 11 others (including K.B. Gorman). 2011. Analysis of abrupt transitions in ecological systems. *Ecosphere*, **2**(12), art129. (10.1890/ES11-00216.1.)
- Beukens, R.P., J.C. Rucklidge and Y. Miura. 1988. ^{14}C ages of 10 Yamato and Allan Hills meteorites. *Proc. NIPR Symp. Ant. Meteorites*, **1**, 224–230.
- Beverley-Burton, M. 1971. Helminths from the Weddell seal, *Leptonychotes weddelli* (Lesson, 1826), in the Antarctic. *Can. J. Zool.*, **49**(1), 75–83. (10.1139/z71-012.)
- Beylich, A.A., S.F. Lamoureux and A. Decaulne. 2009. Sediment Budgets In Cold Environments—the Sedibud Program. Introduction. *Arct. Ant. Alp. Res.*, **41**(1), 1–2. (10.1657/1938-4246(INTRO)[BEYLICH]2.0.CO;2.)
- Biali, S., P.J.H. Jones, R.A. Pederson, I. Iqbal and P. Suedfeld. 1995. Influence of a perpetual-daylight Arctic environment on periodicity in human cholesterol synthesis. *Arct. Med. Res.*, **54**(3), 134–144. (www.ncbi.nlm.nih.gov/pubmed/7669127.)
- Bidleman, T.F., M.D. Walla, R. Roura, E. Carr and S. Schmidt. 1993. Organochlorine pesticides in the atmosphere of the Southern Ocean and Antarctica, January–March, 1990. *Mar. Pollut. Bull.*, **26**(5), 258–262. (10.1016/0025-326X(93)90064-Q.)
- Bidleman, T.F., P.A. Helm, B.M. Braune and G.W. Gabrielsen. 2010. Polychlorinated naphthalenes in polar environments – a review. *Sci. Total Environ.*, **408**(15), 2919–2935. (10.1016/j.scitotenv.2009.09.013.)
- Biggar, K., A. Mullick, S. Guigard, J. Foght and C.A. Mendoza. 2000. Natural attenuation of 1,1,1 TCA and BTEX at cold temperatures. *6th Environmental Engineering Specialty Conference of the CSCE and 2nd Spring Conference of the Geoenvironmental Division of the Canadian Geotechnical Society, 7–10 June 2000, London, Ontario. Proceedings, Vol. 1*. Montréal, Qué., Canadian Society for Civil Engineering, 105–112.
- Biggs, D.C. and 9 others (including S.A. Macko). 1988. Chapter 4. A cooperative study of upper-ocean particulate fluxes in the Weddell Sea. In Barker, P.F. and 24 others, eds (including C.P.G. Pereira and E. Schandl). *Proceedings of the Ocean Drilling Program: initial reports, Vol. 113. Weddell Sea, Antarctica: sites 689–697*. College Station, TX, Texas A & M University. Ocean Drilling Program, 77–86. (10.2973/odp.proc.ir.113.105.1988.)
- Biggs, D.C. and 7 others (including S.A. Macko). 1989. Chapter 4. Cooperative study of upper ocean particle fluxes. In Barron, J. and 29 others, eds (including R.E. Cranston and C.J. Schröder). *Proceedings of the Ocean Drilling Program, Part A: initial reports, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, 109–120. (10.2973/odp.proc.ir.119.116.1989.)
- Bigras, S.C., pref. 2000a. *Developing indicators on Canadian polar knowledge: establishing the 1998 baseline*. Ottawa, Ont., Canadian Polar Commission.
- Bigras, S. 2000b. The Scientific Committee on Antarctic Research (SCAR) and the new millennium. *CARN Newsl.*, **11**, 6–7. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/11.pdf.)

- Bigras, S.C., pref. 2001a. *Indicators of Canadian polar knowledge, 1999 / Indicateurs de la connaissance polaire au Canada, 1999: Arctic and Antarctic Research in Canada*. Ottawa, Ont., Canadian Polar Commission.
- Bigras, S. 2001b. Reports on SCAR Working Groups meetings, Tokyo, July 2000. *Glaciology. CARN Newsl.*, **12**, 11–12. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/12.pdf)
- Bigras, S.C. 2002. SCAR XXVIII. *CARN Newsl.*, **15**, 7. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/15.pdf)
- Bigras, S.C. 2005. SCAR XXVIII delegate's report. *CARN Newsl.*, **19**, 7–8. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/19.pdf)
- Bigras, S.C. 2011. XXXI SCAR meeting – Delegates. *CARN Newsl.*, **30**, 3–5. (<http://tinyurl.com/6r7q3sl>.)
- Bindeman, I.N., J.M. Eiler, B.A. Wing and J. Farquhar. 2007. Rare sulfur and triple oxygen isotope geochemistry of volcanogenic sulfate aerosols. *Geochim. Cosmochim. Acta*, **71**(9), 2326–2343. (10.1016/j.gca.2007.01.026.)
- Bindschadler, R., P. Vornberger and L. Gray. 2005. Changes in the ice plain of Whillans Ice Stream, West Antarctica. *J. Glaciol.*, **51**(175), 620–636. (10.3189/172756505781829070.)
- Bingham, R.J., M. King, P. Moore, P. Whitehouse, M. Bentley and G.A. Milne. 2012. A lower Antarctic sea level contribution estimated from GRACE using a new glacial isostatic adjustment model. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, G23C-05, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Bird, D.F. and D.M. Karl. 1991. Massive prasinophyte bloom in northern Gerlache Strait. *Antarct. J. U.S.*, **26**(5), 1991 Review, 152–154. (<http://tinyurl.com/prgwk9g>.)
- Bird, D.F., R. Maranger and D.M. Karl. 1993. Palmer LTER: aquatic virus abundances near the Antarctic Peninsula. *Antarct. J. U.S.*, **28**(5), 1993 Review, 234–235. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXXVIIIIn5/AJUSvXXVIIIIn5p234.pdf>)
- Bird, D.F. and D.M. Karl. 1994. Viral abundances in the water column and in sea ice near the Antarctic Peninsula during spring 1992. [Abstract] *Eos, Trans. AGU*, **75**(3), Ocean Sci. Meet. Suppl., 201.
- Bird, D.F. and D.M. Karl. 1999. Uncoupling of bacteria and phytoplankton during the austral spring bloom in Gerlache Strait, Antarctic Peninsula. *Aquat. Microbial Ecol.*, **19**(1), 13–27. (www.int-res.com/articles/ame/19/a019p013.pdf.)
- Bird, D. 2001. Life in Lake Vostok. In Löken, O.H. and N.J. Couture, eds. *Subglacial lake and deep ice exploration: Canadian expertise and international opportunities*. Ottawa, Ont., Canadian Polar Commission, May, 13–14. (http://www.polarcom.gc.ca/english/antarctic/pdf/antarctic_subglacial_en.pdf)
- Bird, J. 2001. Aurora at the South Pole. *CARN Newsl.*, **13**, 6–7. (<http://tinyurl.com/7k2sc5k>.)
- Bird, R.T. and W.R. Roest. 1998. Another look at Rodinia reconstructions; using continental aeromagnetic and gravity data. *Geol. Soc. Austral. Abstr.*, **50**, 1–5.
- Bird, R.T., D.F. Naar, R.L. Larson, R.C. Searle and C.R. Scotese. 1998. Plate tectonic reconstructions of the Juan Fernandez microplate: transformation from internal shear to rigid rotation. *J. Geophys. Res.*, **103**(B4), 7049–7067. (10.1029/97JB02133.)
- Biswas, T., C.O. Coleman and E.A. Hendrycks. 2009. *Andeepia ingridae* a new genus and species of Pardaliscidae (Crustacea, Amphipoda) from the Antarctic deep-sea and short redescription of *Nicippe unidentata* K.H. Barnard, 1932. *Zootaxa*, **1977**, 21–38. (<http://tinyurl.com/q7jly43>.)
- Bitz, C.M., K.E. McCusker, D.S. Battisti and S.J. Marshall. 2010. Can stratospheric sulfate aerosols prevent cryospheric change and sea level rise in the 21st? *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, GC22A-06, digital media. (www.agu.org/cgi-bin/wais?ss=GC22A-06.)

- Black, D. 2000. Students head south for Antarctic expedition: adventures don't get much cooler than this. *Toronto Star*, 27 December, A.03.
- Blair, J. 1997. Satellite images aid search for lost sailor: Yachter Gerry Roufs of Montreal is missing in Antarctic waters. *Vancouver Sun*, 14 January, A.3.
- Blake, E. 2001. A proposal for sampling a subglacial lake at South Pole. In Löken, O.H. and N.J. Couture, eds. *Subglacial lake and deep ice exploration: Canadian expertise and international opportunities*. Ottawa, Ont., Canadian Polar Commission, May, 15–16.
(http://www.polarcom.gc.ca/english/antarctic/pdf/antarctic_subglacial_en.pdf)
- Blake, E. 2002a. Report on subglacial lakes: Canadian Deep Ice Project. *CARN Newsl.*, **15**, 10–11.
(www.polarcom.gc.ca/uploads/Antarctic%20Publications/15.pdf.)
- Blake, E. 2002b. SCAR 2002 report: physical sciences/glaciology. *CARN Newsl.*, **15**, 8.
(www.polarcom.gc.ca/uploads/Antarctic%20Publications/15.pdf.)
- Blake, E. 2006. Sterile penetration and sampling of subglacial lakes. *6th International Workshop on Ice Drilling Technology, 17–23 September 2006, Shepherdstown, West Virginia, USA*. Cambridge, UK, International Glaciological Society, presentation.
- Blake, E.W. and P.B. Price. 2000. Sampling of a subglacial lake at South Pole, Antarctica. *CARN Newsl.*, **11**, 3–4. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/11.pdf.)
- Blake, E.W. and B. Price. 2002. A proposed sterile sampling system for Antarctic subglacial lakes. [*Mem. Natl. Inst. Polar Res.*], **56**, Special Issue. Ice Drilling Technology 2000, 253–263.
(<http://ci.nii.ac.jp/naid/110000010512>.)
- Blake, W., Jr and J. Hollin. 1960. Correspondence. Recent moraines of a lobe of the Taylor Glacier, Victoria Land, Antarctica. *J. Glaciol.*, **3**(28), 792–793.
- Blake, W., Jr and J. Hollin. 1961. Correspondence. Recent moraines of a lobe of the Taylor Glacier, Victoria Land, Antarctica. *J. Glaciol.*, **3**(30), 1165.
- Blanchfield, M. 1997a. Breaking the Ice: 'The Antarctic is about God,' says one Canadian who has journeyed to the bottom of the world. *Gazette [Montréal]*, 9 February, B.7.
- Blanchfield, M. 1997b. Cracking the Antarctic frontier: Two things draw Canadians to the 'Crystal Land' – the pursuit of science and chasing adventure. *Vancouver Sun*, 31 January, A.6.
- Blanchfield, M. 1997c. The last frontier: Canadians hard at work in the Antarctic. *Hamilton Spectator*, 29 January, B.4.
- Blanchon, P. 1995. Catastrophic sea-level rise and reef drowning 8 ka ago: an omen? *Linked Earth Systems. 1st SEPM Congress on Sedimentary Geology, 13–16 August 1995, St. Pete Beach, FL. Abstracts*. Tulsa, OK, Society of Economic Paleontologists and Mineralogists, 116.
- Blanchon, P. and J. Shaw. 1995. Reef drowning during the last deglaciation: evidence for catastrophic sea-level rise and ice-sheet collapse. *Geology*, **23**(1), 4–8. (10.1130/0091-7613(1995)023<0004:RDDTLD>2.3.CO;2.)
- Bleeker, A. and S. Bleeker. 2007. Antarctic sinking raises safety and environmental issues. *Edmonton J.*, I.5.
- Bleem, L.E. and 70 others (the SPT Collaboration that includes A. van Engelen, G.P. Holder, T. de Haan, M.A. Dobbs, J.P. Dudley, J.E. Geach and K. Vanderlinde). 2012a. A measurement of the correlation of galaxy surveys with CMB lensing convergence maps from the South Pole Telescope. *Astrophys. J. Lett.*, **753**(1), Article L9. (10.1088/2041-8205/753/1/L9.)
- Bleem, L. and 58 others (the SPT Collaboration that includes T. de Haan, M. Dobbs, J. Kennedy and K. Vanderlinde). 2012b. An overview of the SPTpol experiment. *J. Low Temp. Phys.*, **167**(5–6), 859–864. (10.1007/s10909-012-0505-y.)

- Blight, L.K. 2006. Antarctic site inventory. *CARN Newsl.*, **22**, 7.
([www.polarcom.gc.ca/uploads/Publications/\(CARN\)/carn_vol22_eng.pdf](http://www.polarcom.gc.ca/uploads/Publications/(CARN)/carn_vol22_eng.pdf).)
- Blight, L.K. and D.G. Ainley. 2008. Letters. Southern Ocean not so pristine. *Science*, **321**(5895), 1443–1444.
(www.sciencemag.org/cgi/content/full/321/5895/1443b.)
- Blight, L.K. and S. Stevens. 2000. Partial melanism in King penguins *Aptenodytes patagonicus*. *Mar. Ornithol.*, **28**(1), 83. (www.marineornithology.org/PDF/28_1/28_1_14.pdf.)
- Blight, L.K. and E.J. Woehler. 2008. First record of a broad-billed prion *Pachyptila vittata* at Coronation Island, South Orkney Islands. *Mar. Ornithol.*, **36**(2), 191.
(www.marineornithology.org/PDF/36_2/36_2_191.pdf.)
- Blight, L.K. and 32 others (including I. Stirling). 2010. Fishing for data in the Ross Sea. *Science*, **330**(6009), 1316. (10.1126/science.330.6009.1316.)
- Blinova, A. and C.D.K. Herd. 2009. Experimental study of polybaric REE partitioning between olivine, pyroxene and melt of the Yamato 980459 composition: Insights into the petrogenesis of depleted shergottites. *Geochim. Cosmochim. Acta*, **73**(11), 3471–3492. (10.1016/j.gca.2009.03.007.)
- Bliss, A.K., V. Radić, J.G. Cogley and R.M. Hock. 2011a. Mass changes of glaciers of the Antarctic periphery. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA*. Washington, DC, American Geophysical Union, C53D-0703, digital media.
(<http://sites.agu.org/fallmeeting/scientific-program/>.)
- Bliss, A.K., K.M. Cuffey and J.L. Kavanaugh. 2011b. Sublimation and surface energy budget of Taylor Glacier, Antarctica. *J. Glaciol.*, **57**(204), 684–696. (10.3189/002214311797409767.)
- Bliss, A.K., R.M. Hock, V. Radić and J.G. Cogley. 2012. Antarctic periphery glacier mass changes: uncertainty of 21st century projections. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, C53B-0851, digital media.
(<http://fallmeeting.agu.org/2012/>.)
- Bliss, L.C. 1979. Vascular plant vegetation of the southern circumpolar region in relation to Antarctic, Alpine, and Arctic vegetation. *Can. J. Bot./J. Can. Bot.*, **57**(20), 2167–2178. (10.1139/b79-270.)
- Block, A.E., R.E. Bell, G.E. Flowers, S. Pimentel, M. Studinger and N. Frearson. 2010. The role of subglacial lakes in the onset and maintenance of Recovery Ice Stream, East Antarctica. *Chapman Conference on the Exploration and Study of Antarctic Subglacial Aquatic Environments (SAE), 15–17 March 2010, Baltimore, Maryland, USA*. Washington, DC, American Geophysical Union, Abstract, 12.
(www.agu.org/meetings/chapman/2010/ccall/pdf/Program_Book.pdf.)
- Block, W., L. Sømme, R. Ring, P. Ottesen and M.R. Worland. 1988. Reports on Antarctic fieldwork. Adaptations of arthropods to the sub-Antarctic environment. *Br. Ant. Surv. Bull.*, **81**, 65–67.
(www.antarctica.ac.uk/documents/bas_bulletins/bulletin81_07.pdf.)
- Bocher, P., Y. Cherel and K.A. Hobson. 2000. Complete trophic segregation between South Georgian and common diving petrels during breeding at Iles Kerguelen. *Mar. Ecol. Progr. Ser.*, **208**, 249–264.
(10.3354/meps208249.)
- Bockheim, J.G. and C. Tarnocai. 1998. Nature, occurrence and origin of dry permafrost. *Collect. Nordicana, Univ. Laval. Cent. Études Nord.*, **57**, 7th International Conference on Permafrost, 57–63.
- Bockheim, J.G. and K. Hall. 1999. Permafrost, active layer dynamics and periglacial environments of continental Antarctica. In Lee-Thorp, J. and H. Clift, eds. *Book of Abstracts, XV INQUA International Congress*. International Union for Quaternary Research, 26.
- Bockheim, J.G. and K.J. Hall. 2000. Permafrost, active layer dynamics and periglacial environments of continental Antarctica. *Quat. Int.*, **63–64**, 26. (10.1016/S1040-6182(99)00031-2.)
- Bockheim, J.G. and K.J. Hall. 2002. Permafrost, active-layer dynamics and periglacial environments of continental Antarctica. *S. Afr. J. Sci.*, **98**(1–2), 82–90.

- Bodhaine, B.A., L.A. Barrie, R.C. Schnell, G.E. Shaw and J.K. McKie. 1992. Symposium on the Tropospheric Chemistry of the Antarctic Region *Tellus*, **44B**(4), 250–251. (10.1034/j.1600-0889.1992.t01-3-00002.x.)
- Boelhouwers, J. and K. Hall. 2002. Introduction. Southern Hemisphere Working Group of the International Permafrost Association: periglacial and permafrost research in the Southern Hemisphere. *S. Afr. J. Sci.*, **98**(1–2), 46–47.
- Boer, G.J. 1991. The vorticity budget of the hemispheres. *J. Atmos. Sci.*, **48**(1), 19–39. (10.1175/1520-0469(1991)048<0019:TVBOTH>2.0.CO;2.)
- Boer, G.J. and B. Yu. 2003. Dynamical aspects of climate sensitivity. *Geophys. Res. Lett.*, **30**(3), 1135. (10.1029/2002GL016549.)
- Boer, G.J., N.A. McFarlane and M. Lazare. 1992. Greenhouse gas-induced climate change simulated with the CCC second-generation general circulation model. *J. Climate*, **5**(10), 1045–1077. (10.1175/1520-0442(1992)005<1045:GGCCSW>2.0.CO;2.)
- Boer, G.J., G. Flato and D. Ramsden. 2000. A transient climate change simulation with greenhouse gas and aerosol forcing: projected climate to the twenty-first century. *Climate Dyn.*, **16**(6), 427–450. (10.1007/s003820050338.)
- Bohannon, J. 2007. Sailing the Southern Sea: an international project sorts out the dynamics of climate and nutrient fluxes in this polar ocean community. *Science*, **315**(5818), 1520–1521. (report on work of P. Tortell.) (10.1126/science.315.5818.1520.)
- Bojkov, R.D. 1986a. The 1979–1985 ozone decline in the Antarctic as reflected in ground based observations. *Geophys. Res. Lett.*, **13**(12), Supplement, 1236–1239. (10.1029/GL013i012p01236.)
- Bojkov, R.D. 1986b. Spring-ozone change in Antarctica and the role of the polar vortex. *Adv. Space Res.*, **6**(10), 89–98. (10.1016/0273-1177(86)90463-1.)
- Bojkov, R.D. 1988. Ozone variations in the northern polar region. *Meteorol. Atmos. Phys.*, **38**(3), 117–130. (10.1007/BF01029776.)
- Bojkov, R.D., L. Bishop and V.E. Fioletov. 1995. Total ozone trends from quality-controlled ground-based data (1964–1994). *J. Geophys. Res.*, **100**(D12), 25,867–25,876. (10.1029/98JC00367.)
- Bojkov, R.D., D.S. Balis and C.S. Zerefos. 1998. Characteristics of the ozone decline in the northern polar and middle latitudes during the winter-spring. *Meteorol. Atmos. Phys.*, **69**(1–2), 119–135. (10.1007/BF01025187.)
- Bokhorst, S. and 6 others (including B.J. Sinclair). 2011. Microclimate impacts of passive warming methods in Antarctica: implications for climate change studies. *Polar Biol.*, **34**(10), 1421–1435. (10.1007/s00300-011-0997-y.)
- Boldt, K. and 7 others (including M. Koppes). 2011. Rates of glacial-marine sediment accumulation over the last century in fjords along the Antarctic Peninsula and Chilean Patagonia. *11th International Symposium on Antarctic Earth Sciences, 10–15 July 2011, Edinburgh. Programme and abstracts*. Edinburgh, U.K., University of Edinburgh. School of GeoSciences, 458. (<http://tinyurl.com/olho9rg>.)
- Boldt, K. and 8 others (including M. Koppes). 2012. Patterns in glacial-marine sediment delivery, accumulation, and in the record of tidewater glacier behavior: the fjords of Patagonia and the Antarctic Peninsula. *International Symposium on Interaction of Ice Sheets and Glaciers with the Ocean, 5–10 June 2011, La Jolla, California. Program and abstracts*. La Jolla, CA, Scripps Institution of Oceanography. International Glaciological Society, Abstract 060. (<http://tinyurl.com/petgesl>.)
- Bond, J.R., D. Pogoyan, S. Prunet, K. Sigurdson and the MaxiBoom Collaboration. 2001. The quintessential CMB, past & future. In Durrer, R., J. García-Bellido and M. Shaposhnikov, eds. *Cosmology and Particle Physics: CAPP 2000, 17–28 July 2000, Verbier, Switzerland*. Washington, DC, American Institute of Physics, 263–276. (AIP Conference Proceedings 555.) (10.1063/1.1363525.)

- Bond, J.R. and 42 others (the MaxiBoom Collaboration that includes J.R. Bond, C.B. Netterfield, D. Pogosyan, S. Prunet and K. Sigurdson). 2005. CMB analysis of BOOMERANG and MAXIMA and the cosmic parameters $\{\Omega_{\text{tot}}, \Omega_{\text{b}}h^2, \Omega_{\text{cdm}}h^2, \Omega_{\text{L}}, n_s\}$. In Lasenby, A. and A. Wilkinson, eds. *New cosmological data and the values of the fundamental parameters. IAU Symposium 201, 7–11 August 2000, Manchester UK. Proceedings, Vol. 201*. San Francisco, CA, Astronomical Society of the Pacific, 347–356. (ASP Conference Series.)
- Bonnetti, L., M. Guglielmin and H.M. French. 1999. Studio dell'evoluzione paleoclimatica delle aree deglacciate della Terra Vittorias Settentrionale, attraverso l'analisi della distribuzione del permafrost e del ghiaccio sepolto. *Rapporto sulla Campagna Antartica Estate Austral 1998–99*. 16–17. (Progetto Antartide 99/4.)
- Booth, C.R. and 12 others (including J.J. Cullen). 1997. Impacts of solar UVR on aquatic microorganisms. *Photochem. Photobiol.*, **65**(2), 252–269. (10.1111/j.1751-1097.1997.tb08550.x.)
- Borg, S.G. and 6 others (including R.L. Armstrong). 1987. Granitoids of northern Victoria Land, Antarctica: implications of chemical and isotopic variations to regional crustal structure and tectonics. *Am. J. Sci.*, **287**(2), 127–169. (10.2475/ajs.287.2.127)
- Bornhold, B.D. and A. Guilcher, eds. 1984. Sedimentation on high-latitude continental shelves. *Mar. Geol.*, **57**(1–4), 359.
- Böser, S. and for the IceCube Collaboration (that includes D. Grant, S.C. Nowicki and T.R. Wood). 2012. A Radio Air-Shower Test Array (RASTA) for IceCube. *Nucl. Instrum. Meth. Phys. Res. A*, **662**, Suppl. 1, S66–S68. (10.1016/j.nima.2010.11.164.)
- Bost, C.A. and 6 others (including A. Fahlman). 2007. Changes in dive profiles as an indicator of feeding success in king and Adélie penguins. *Deep-Sea Res. II*, **54**(3–4), 248–255. (10.1016/j.dsr2.2006.11.007.)
- Boswell, R. 2004. Canadian plans to kite-surf across Antarctic in journey envisioned by Shackleton. *Natl. Post [Don Mills]*, A.10.
- Boswell, R. 2007a. Antarctic land claim sounds alarm in Canada; U.K. plan to claim seabed and Canada's official indifference worries polar politics experts. *Vancouver Sun*, 20 October, A.9.
- Boswell, R. 2007b. British designs on South Pole seen as threat; Canada signed on to Antarctic Treaty and should be paying attention, experts warn. *Edmonton J.*, A.2.
- Boswell, R. 2007c. S. Pole politics heats up; Britain's plan to claim Antarctic territory seabeds draws concern. *Windsor Star*, 20 October, A.20.
- Boswell, R. 2007d. South Pole politics starting to heat up; Canadian professors concerned over British plans to claim a large portion of the Antarctic seabed. *Gazette [Montréal]*, 20 October, A.10.
- Boswell, R. 2008a. Antarctic expedition letters set for auction; Canadian details finding remains of explorer Robert Scott. *Natl. Post [Don Mills]*, A.9.
- Boswell, R. 2008b. Canadian's letters from ill-fated Antarctic voyage up for sale: writings chart mood shift from enthusiasm to sorrow. *Edmonton J.*, A.4.
- Boswell, R. 2008c. Letters from Canadian who discovered Antarctic explorer's remains up for auction. *Dawson Creek Daily News*, 17 October, A.5.
- Boswell, R. 2010. Artifacts owned by Canadian explorer sell for \$600,000: Charles Wright accompanied Robert Scott on Antarctic expedition. *Edmonton J.*, A.9.
- Bottenheim, J.W. and 16 others (including J. Abbatt, R. Macdonald and J. McConnell). 2004. OASIS: Ocean–atmosphere–sea-ice–snowpack interactions in polar regions. [Abstract U24A-01.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA10. (www.agu.org/meetings/sm04/waissm04.html.)

- Bouchard, J.N. 2005. Étude de l'effet du rayonnement ultraviolet-B (UVB; 280–320 nm) sur la protéine D1 impliquée dans le cycle de réparation du photosystème II de communautés phytoplanctoniques naturelles. Thèse de doctorat, Université du Québec à Rimouski, Rimouski, Qué.
- Bouchard, J.N., S. Roy, G. Ferreyra, D.A. Campbell and A. Curtosi. 2005. Ultraviolet-B effects on photosystem II efficiency of natural phytoplankton communities from Antarctica. *Polar Biol.*, **28**(8), 607–618. (10.1007/s00300-005-0727-4.)
- Bouchard, J.N., S. Roy and D.A. Campbell. 2006. UVB effects on the photosystem II-D1 protein of phytoplankton and natural phytoplankton communities. *Photochem. Photobiol.*, **82**(4), 936–951. (10.1562/2005-08-31-IR-666.)
- Bourdon, B. 2011. Pilot hand-picked for risky evacuation of British scientists from Antarctic. *Globe & Mail [Toronto]*, 15 January, S.9.
- Bowen, W.D. 1997. Role of marine mammals in aquatic ecosystems. *Mar. Ecol. Progr. Ser.*, **158**, 267–274. (www.int-res.com/articles/meps/158/m158p267.pdf.)
- Bowermaster, J. 1991. Is the Antarctic safe? The lure of mineral riches may prove too powerful. *Gazette [Montréal]*, 4 October, B.3.
- Bowie, A.R. and 8 others (including M.T. Maldonado). 2001. The fate of added iron during a mesoscale fertilisation experiment in the Southern Ocean. *Deep-Sea Res. II*, **48**(11–12), 2703–2743. (10.1016/S0967-0645(01)00015-7.)
- Bowser, S.S. and 7 others (including K. Conlan). 2004. Preliminary results of sampling benthic biota under the Ross Ice Shelf. *XXVIII SCAR Open Science Conference, 26–28 July 2004, Bremen, Germany. Abstracts*. Cambridge, U.K., Scientific Committee on Antarctic Research, S3/O16.
- Boychuk, R. 2007. The ice pilot: polar voices. *Can. Geographic*, **127**(5), 28, 30. (work of P.R.M. Toomey.)
- Boyd, C.M., M. Heyraud and C.N. Boyd. 1984. Feeding of Antarctic krill *Euphausia superba*. *J. Crustacean Biol.*, **4**(1), Special Issue, 123–141. (www.jstor.org/stable/27920092.)
- Boyd, P.W., C. Robinson, G. Savidge and P.J.L. Williams. 1995. Water column and sea-ice primary production during Austral spring in the Bellingshausen Sea. *Deep-Sea Res. II*, **42**(4–5), 1177–1200. (10.1016/0967-0645(95)00070-7.)
- Boyd, P.W. and 34 others (including M.T. Maldonado and S. Rintoul). 2000. A mesoscale phytoplankton bloom in the polar Southern Ocean stimulated by iron fertilization. *Nature*, **407**(6805), 695–702. (10.1038/35037500.)
- Boyd, P.W. and 9 others (including M. Maldonado). 2004. FeCycle – a sulfur hexafluoride labelled mesoscale study of iron biogeochemistry in unperturbed HNLC waters. *ASLO/TOS 2004 Ocean Research Conference, 15–20 February 2004, Honolulu, Hawaii. Abstract book*. Waco, TX, American Society of Limnology and Oceanography, 20. (www.aslo.org/meetings/honolulu2004/files/aslo-tos-2004-abstracts.pdf.)
- Boyd, P.W. and 27 others (including M. Maldonado). 2005. FeCycle – attempting an iron biogeochemical budget from a mesoscale SF₆ tracer experiment in unperturbed low iron waters. *GBC Global Biogeochem. Cycles*, **19**(4), GB4S20. (10.1029/2005GB002494.)
- Boyd, P.W. and 22 others (including J.J. Cullen, M. Levasseur and R.B. Rivkin). 2007. Mesoscale iron enrichment experiments 1993–2005: synthesis and future directions. *Science*, **315**(5812), 612–617. (10.1126/science.1131669.)
- Boyd, R.S. 1999a. Antarctic detective story: Huge ice chunk holds 100,000 years' worth of global climate history. *Gazette [Montréal]*, 24 January, D.7.
- Boyd, R. 1999b. Antarctic ice holds clues to history: three-year drilling project yields samples 80,000 years old. *Ottawa Citizen*, 24 January, B.8.

- Boyle, E. and A. Weaver. 1994. Ocean circulation: conveying past climates. *Nature*, **372**(6501), 41–42. (10.1038/372041a0.)
- Brabant, F., G. Carnat, S.F. Ackley and J.-L. Tison. 2008. DMS and DMSP dynamics in Antarctic early spring sea ice (Bellingshausen Sea, September–October 2007). *Geophys. Res. Abstr.*, **10**, 2008 EGU Gen. Assem., EGU2008-A-00773. (www.cosis.net/abstracts/EGU2008/00773/EGU2008-A-00773.pdf.)
- Brabant, F., G. Carnat and J. Tison. 2009. Early springtime dynamics of dimethylsulfoxide (DMSO) within East Antarctic sea ice. [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., C52B-05. (www.agu.org/meetings/fm09/waisfm09.html.)
- Brabant, F. and 6 others (including G. Carnat). 2011. Dimethylsulphoxide (DMSO) evolution in Antarctic sea ice in response to multiple warming and cooling cycles. *International Symposium on Sea Ice in the Physical and Biogeochemical System, 31 May – 4 June 2010, Tromsø, Norway*. Cambridge, UK, International Glaciological Society, Abstract 57A192, digital media. (www.igs2010.org/Abstracts/57A192.html.)
- Brachfeld, S. and 7 others (including R. Gilbert). 2003a. Geomagnetic field paleointensity as a chronological tool for Antarctic Holocene sediment. *XVI INQUA Congress. Shaping the Earth: a Quaternary perspective, 23–30 July 2003, Reno, Nevada. Program with Abstracts*. Boulder, CO, Geological Society of America. International Union for Quaternary Research, 227. (Paper 86-5.) (http://gsa.confex.com/gsa/inqu/finalprogram/abstract_53601.htm.)
- Brachfeld, S. and 8 others (including R. Gilbert). 2003b. Holocene history of the Larsen-A ice Shelf constrained by geomagnetic paleointensity dating. *Geology*, **31**(9), 749–752. (10.1130/G19643.1.)
- Brachfeld, S.A., S. Hemming, S.L. Goldstein, C. van de Flierdt and M. Roy. 2006. Integrated provenance characteristics of East Antarctic glacial sediments. [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., PP23A-1731. (www.agu.org/meetings/fm06/waisfm06.html.)
- Brachfeld, S. and 6 others (including M. Roy). 2007a. Integrated provenance characteristics of glacial-marine sediment from East and West Antarctica. In Cooper, A.K., P. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007*. Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (*U.S. Geol. Surv. Open-File Rep.* 2007-1047.) (Extended Abstract 060.) (http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea060.pdf.)
- Brachfeld, S. and 6 others (including M. Roy). 2007b. Tracing provenance of Antarctic glacio-marine sediment through radiogenic isotopes, Ar/Ar hornblende ages, and bulk geochemistry. [Abstract.] *Eos, Trans. AGU*, **88**(23), Jt. Assem. Suppl., H33E-05. (www.agu.org/meetings/ja07/waism07.html.)
- Bradley, S.L., M. Siddall, G.A. Milne, V. Masson-Delmotte and E. Wolff. 2012. Where might we find evidence of a Last Interglacial West Antarctic ice sheet collapse in Antarctic ice core records? *Global Planet. Change*, **88–89**, 64–75. (10.1016/j.gloplacha.2012.03.004.)
- Brady, M. 2005. No longer a dog's world: Antarctic's environmental rules meant huskies had to go. *Ottawa Citizen*, 13 February, C.6.
- Brandenberger, A.J. and C. Bull. 1966. Glacier surveying and mapping program of the Ohio State University. *Can. J. Earth Sci.*, **3**(6), 849–861. (10.1139/e66-067.)
- Brandt, A. and 21 others (including E. Pakhomov). 2011. Maud Rise – a snapshot through the water column. *Deep-Sea Res. II*, **58**(19–20), 1962–1982. (10.1016/j.dsr2.2011.01.008.)
- Bravo, L.A. and M. Griffith. 2005. Characterization of antifreeze activity in Antarctic plants. *J. Exp. Bot.*, **56**(414), 1189–1196. (10.1093/jxb/eri112.)
- Braziunas, T.F., I.Y. Fung and M. Stuiver. 1995. The preindustrial atmospheric ¹⁴CO₂ latitudinal gradient as related to exchanges among atmospheric, oceanic, and terrestrial reservoirs. *GBC Global Biogeochem. Cycles*, **9**(4), 565–584. (10.1029/95GB01725.)

- Brean, J. 2004. Canadian's pole quest: due south on the double: Antarctic speed record. *Natl. Post [Don Mills]*, A.3.
- Bredesen, E.L. 2003. Krill and the Antarctic: finding the balance. M.Sc. thesis, Department of Zoology, University of British Columbia, Vancouver, B.C., 91 pp. (https://circle.ubc.ca/bitstream/handle/2429/15326/ubc_2004-0095.pdf?sequence=1.)
- Bredesen, E.L. and A.W. Trites. 2001. The effect of krill fishing on pinniped and whale populations: insights from a Southern Ocean ecosystem mode. *14th Biennial Conference on the Biology of Marine Mammals, 28 November–3 December 2001, Vancouver, British Columbia, Canada. Abstracts*. San Francisco, CA, Society of Marine Mammalogy.
- Breitsprecher, K. and D.J. Thorkelson. 2009. Neogene kinematic history of Nazca–Antarctic–Phoenix slab windows beneath Patagonia and the Antarctic Peninsula. *Tectonophys.*, **464**(1–4), 10–20. (10.1016/j.tecto.2008.02.013.)
- Brenizer, L.E., T.D. Frank and N.P. James. 2012. Carbonate deposition on the Ross Sea Shelf, Antarctica. [Paper 64-4.] *Geol. Soc. Am. Abstr. Prog.*, **44**(7), 2012 Charlotte Annual Meeting, 177. (<https://gsa.confex.com/gsa/2012AM/webprogram/Paper211161.html>.)
- Brêthes, J.-C., G. Ferreyra and S. de la Vega. 1994. Distribution, growth and reproduction of the limpet *Nacella (Patinigera) concinna* (Strebel 1908) in relation to potential food availability, in Esperanza Bay (Antarctic Peninsula). *Polar Biol.*, **14**(3), 161–170. (10.1007/BF00240521.)
- Briggs, R. 2012. Understanding the past evolution of the Antarctic Ice Sheet: merging data and glaciological modeling. [Abstract.] *Quat. Int.*, **279–280**, XVIII INQUA Congress, 68. (10.1016/j.quaint.2012.07.298.)
- Briggs, R., D. Pollard and L. Tarasoff. 2009. Initial results from a Bayesian calibration of a 3D glacial systems model for Antarctic deglaciation. [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., C43A-0489. (www.agu.org/meetings/fm09/waisfm09.html.)
- Briggs, R., D. Pollard and L. Tarasov. 2011a. Bayesian calibration of a 3D glacial systems model for the past evolution of the Antarctic ice sheet. *Geophys. Res. Abstr.*, **13**, 2011 EGU Gen. Assem., EGU2011-907. (<http://meetingorganizer.copernicus.org/EGU2011/EGU2011-907.pdf>.)
- Briggs, R., D. Pollard and L. Tarasov. 2011b. Past evolution of the Antarctic ice sheet: a Bayesian calibrated 3D glacial system modelling study. *11th International Symposium on Antarctic Earth Sciences, 10–15 July 2011, Edinburgh. Programme and abstracts*. Edinburgh, U.K., University of Edinburgh. School of GeoSciences, 244. (www.isaes2011.org.uk/abstracts_v4_20_07_2011.pdf.)
- Briggs, W.M., Jr. 1978. Ostracoda from the Pleistocene Taylor Formation, Ross Island, and the Recent of the Ross Sea and McMurdo Sound region, Antarctica. *Antarct. J. U.S.*, **13**(4), 27–29. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXIIIIn4/AJUSvXIIIIn4p27.pdf>.)
- Brinkhuis, H. and 8 others (including G.L. Williams). 2002. Was Antarctica kept warm by subtropical waters in the Eocene? Part 1. Evidence from biotic endemism. [Abstract PP11C-02.] *Eos, Trans. AGU*, **83**(47), Fall Meet. Suppl., F925–F926. (www.agu.org/meetings/fm02/waisfm02.html.)
- Broady, P.A. and W.F. Vincent. 1990. Life in land, ice and inland water habitats. In Hatherton, T., ed. *Antarctica: the Ross Sea region*. Wellington, New Zealand, DSIR Publishing, 176–194.
- Brodwin, M. and 66 others (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, L. Shaw and K. Vanderlinde). 2010. SPT-CL J0546-5345: a massive $z>1$ galaxy cluster selected via the Sunyaev-Zel'dovich effect with the South Pole Telescope. *Astrophys. J.*, **721**(1), 1736–1747. (10.1088/0004-637X/721/1/90.)
- Bromwich, D. and 11 others (including H. Hung and J. Zheng). 2011. Chapter 2.1. Polar atmosphere. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 137–154. (CCI Occasional Publication 69.) (http://library.arcticportal.org/1211/1/IPY_Summary.pdf.)

- Brook, P. 1999. I'll take New Year on ice – and lots of it: While landlubbers cling to millennial mediocrity, we will brave Antarctic ice floes. Oh dear, what have we done? *Vancouver Sun*, 22 December, A.17.
- Brown, D.E. and S.M. George. 1996. Surface and bulk diffusion of H₂¹⁸O on single-crystal H₂¹⁸O ice multilayers. *J. Phys. Chem.*, **100**(38), 15,460–15,469. (10.1021/jp952670a.)
- Brown, J. and 7 others (including S.L. Smith). 2010. The thermal state of permafrost: the IPY–IPA snapshot (2007–2009). *GEO2010: 63rd Canadian Geotechnical Conference & 6th Canadian Permafrost Conference 12–16 September 2010, Calgary, Alberta. Proceedings*. Richmond, B.C., Canadian Geotechnical Society, 1228–1234. (<http://pubs.aina.ucalgary.ca/cpc/CPC6-1228.pdf>.)
- Brown, P. 1996. Bar codes to help in 'checking out' Antarctic penguins. *Ottawa Citizen*, 7 August, A.9.
- Brown, R.G.B., F. Cooke, P.K. Kinnear and E.L. Mills. 1975. Summer seabird distributions in Drake Passage, the Chilean fjords and off southern South America. *Ibis*, **117**(3), 339–356. (10.1111/j.1474-919X.1975.tb04221.x.)
- Brown, R.G.B. 1982. The moving volcano and Drake's "Elizabeth Island". *Polar Rec.*, **21**(130), 65–66. (10.1017/S0032247400004253.)
- Brown, R.M., H.R. Andrews, G.C. Ball, N. Burn, Y. Imahori, J.C.D. Milton and E.L. Fireman. 1984. ¹⁴C content of ten meteorites measured by tandem accelerator mass spectrometry. *Earth Planet. Sci. Lett.*, **67**(1), 1–8. (10.1016/0012-821X(84)90033-5.)
- Brown, R.N.R. 1924. Reviews. British (Terra Nova) Antarctic Expedition, 1910-1913. Physiography (Robertson Bay and Terra Nova Bay Regions) by R. E. Priestley; Physiography of the Beardmore Glacier Region by C. S. Wright; Physiography of the Ross Archipelago by F. Debenham; Report on the Maps and Survey by F. Debenham. *Geogr. Teacher*, **12**(6), 464. (Review of work by C.S. Wright.) (www.jstor.org/stable/40555175.)
- Bruggeman, P. 1998a. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Annelida: polychaetes, bristle worms, featherduster worms, leeches*. La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of *Protodriloides symbioticus*, *Capitella perarmata*, cirratulid polychaete *Aphelochaeta* sp., *Psamathe fauveli*, *Axiothella antarctica*, *Ophelina breviata*, *Leitoscoloplos kerguelensis*, *Barrukia cristata*, *Perkinsiana littoralis*, *Spiophanes tcherniai*, spionid polychaete *Laonice* sp., Terebellid polychaetes, contributed by K. Conlan.) (<http://tinyurl.com/ps72efm>.)
- Bruggeman, P. 1998b. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Arthropoda – Amphipoda: amphipods*. La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of *Haplocheira plumosa*, *Epimeria* sp., *Eusirus perdentatus*, *Hyperia macrocephala*, *Abyssorhomene plebs*, *Hippomedon kergueleni*, *Orchomenella pinguides*, *Orchomenella franklini*, lysianassoid amphipod, *Monoculodes curtipediculus*, *Pagetina antarctica*, *Heterophoxus videns*, *Seba antarctica*, *Torometopa antarctica*, *Metopoides* sp., contributed by K. Conlan.) (<http://www.peterbruggeman.com/nsf/fguide/arthropoda-amphipoda.pdf>.)
- Bruggeman, P. 1998c. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Arthropoda – Chelicerata: sea spiders*. La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of *Achelia* sp., *Ammothea* sp., *Colossendeis* sp., *Pentanyphon antarcticum*, contributed by K. Conlan.) (<http://www.peterbruggeman.com/nsf/fguide/arthropoda-chelicerata.pdf>.)
- Bruggeman, P. 1998d. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Arthropoda – Isopoda: isopods*. La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of Arcturid, gnathiid, munnid, pleurogoniid and stenetriid, isopods contributed by K. Conlan.) (<http://www.peterbruggeman.com/nsf/fguide/arthropoda-isopoda.pdf>.)
- Bruggeman, P. 1998e. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Arthropoda – other: copepods, krill, ostracods, mysids, tanaids, barnacles, shrimp, etc.* La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of myodocopid, podocopid ostracod, mysid, barnacle, *Nototanais dimorphus*, contributed by K. Conlan.) (<http://tinyurl.com/ndt993r>.)

- Brueggeman, P. 1998f. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Cnidaria – Anthozoa: anemones, soft coral.* La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of *Artemidactis victrix*, *Edwardsia meridionalis*, *Clavularia frankliniana*, *Achelia* sp., sea whip, contributed by K. Conlan.) (<http://www.peterbrueggeman.com/nsf/fguide/cnidaria-anthozoa.pdf>.)
- Brueggeman, P. 1998g. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Cnidaria – Hydrozoa: medusae, siphonophores, hydroids.* La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of Trachymedusae, *Tubularia*, *Ophiodes arboreus*, other hydroids contributed by K. Conlan.) (<http://www.peterbrueggeman.com/nsf/fguide/cnidaria-hydrozoa.pdf>.)
- Brueggeman, P. 1998h. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Echinodermata – Asteroidea: seastars.* La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of *Cuenotaster involutus*, *Notasterias armata*, *Porania antarctica*, contributed by K. Conlan.) (<http://www.peterbrueggeman.com/nsf/fguide/echinodermata-asteroidea.pdf>.)
- Brueggeman, P. 1998i. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Echinodermata: other urchins, brittle stars, sea cucumbers, crinoids.* La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of sea urchins, *Ophioparte gigas*, *Staurocucumis turqueti*, contributed by K. Conlan.) (<http://www.peterbrueggeman.com/nsf/fguide/echinodermata-other.pdf>.)
- Brueggeman, P. 1998j. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Ectoprocta: bryozoans.* La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of *Cellaria* sp., *Hornera* sp., contributed by K. Conlan.) (<http://www.peterbrueggeman.com/nsf/fguide/ectoprocta.pdf>.)
- Brueggeman, P. 1998k. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Mollusca – Gastropoda – Opisthobranchia: nudibranchs, pteropods.* La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of *Bathyberthella antarctica*, *Limacina helicina antarctica*, contributed by K. Conlan.) (<http://www.peterbrueggeman.com/nsf/fguide/mollusca-gastropoda-opisthobranchia.pdf>.)
- Brueggeman, P. 1998l. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Mollusca – Gastropoda – other: gastropods.* La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of *Onoba (Onoba) turqueti* contributed by K. Conlan contributed by K. Conlan.) (<http://www.peterbrueggeman.com/nsf/fguide/mollusca-gastropoda-other.pdf>.)
- Brueggeman, P. 1998m. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Mollusca – other: bivalves, chitons, octopus.* La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of *Nuttallochiton mirandus*, *Adamussium colbecki*, *Yoldia eightsi*, contributed by K. Conlan.) (<http://www.peterbrueggeman.com/nsf/fguide/mollusca-other.pdf>.)
- Brueggeman, P. 1998n. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Porifera – Demospongiae: demosponges.* La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of *Calyx arcuarius*, *Cinachyra antarctica*, *Haliclona tenella*, *Microxina benedeni*, *Polymastia invaginata*, *Stylocordyla chupachups*, contributed by K. Conlan.) (<http://www.peterbrueggeman.com/nsf/fguide/porifera-demospongiae.pdf>.)
- Brueggeman, P. 1998o. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Porifera – Hexactinellida: glass sponges.* La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of *Rossella fibulata* contributed by K. Conlan.) (<http://tinyurl.com/p6od4ct>.)
- Brueggeman, P. 1998p. *Underwater field guide to Ross Island & McMurdo Sound, Antarctica. Protoctista: foraminiferans, amoeba, algae, diatoms.* La Jolla, CA, University of California at San Diego. Scripps Institution of Oceanography. (Photos of *Gromia oviformis*, *Phyllophora antarctica*, coralline and filamentous algae, diatoms, contributed by K. Conlan.) (<http://tinyurl.com/qdc3lfn>.)

- Brunt, K.M., L. Copland, E.B. O'Donnell and D.R. MacAyeal. 2006. Observations and models of tidally pulsed flow of the Ross Ice Shelf, Antarctica. [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., C43B-05. (www.agu.org/meetings/fm06/waisfm06.html.)
- Bryan, B. 2011a. Local to give presentation on research trip to Antarctic. *Townsmen [Cranbrook]*, 8 June, 3.
- Bryan, B. 2011b. Local to give presentation on research trip to Antarctic. *Bulletin [Kimberley]*, 8 June, 3.
- Bryan, R. 1983. Review. Assault on eternity. Richard E. Byrd and the exploration of Antarctica: Lisle A. Rose, (Annapolis, Maryland: Naval Institute Press, 1980. Pp. x+292. \$26-90). *J. Hist. Geogr.*, **9**(1), 99–101. (10.1016/0305-7488(83)90174-3.)
- Bryan, R. 2011. *Ordeal by ice: ships of the Antarctic*. Dobbs Ferry, NY, Sheridan House.
- Buatois, L.A., O. Macsotay and L.I. Quiroz. 2009. *Sinusichnus*, a trace fossil from Antarctica and Venezuela: expanding the dataset of crustacean burrows. *Lethaia*, **42**(4), 511–518. (10.1111/j.1502-3931.2009.00156.x.)
- Buchan, K.L., R.E. Ernst, M.A. Hamilton, S. Mertanen, L.J. Pesonen and S.-Å. Elming. 2001. Rodinia: the evidence from integrated palaeomagnetism and U–Pb geochronology. *Precambrian Res.*, **110**(1–4), 9–32. (10.1016/S0301-9268(01)00178-4.)
- Budd, C. 2009. With the Students on Ice Antarctic University Expedition. *CARN Newsl.*, **27**, 6–8. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN%2027.pdf)
- Bueckert, D. 1999. Anderson sees Antarctic treaty as model for high seas. *Standard [St Catharines]*, 25 January, A.6.
- Buesseler, K.O. and 6 others (including G.T. Crossin). 2001. An intercomparison of small- and large-volume techniques for thorium-234 in seawater. *Mar. Chem.*, **74**(1), 15–28. (10.1016/S0304-4203(00)00092-X.)
- Buizert, C. and 6 others (including J.L. Kavanaugh). 2012. In situ cosmogenic radiocarbon production and 2-D ice flow line modeling for an Antarctic blue ice area. *J. Geophys. Res.*, **117**(F2), F02029. (10.1029/2011JF002086.)
- Bullock, K. 2003. 17-year-old contest winner off on Antarctic adventure. *Ottawa Citizen*, 15 December, D.3.
- Bulman, E. 2003. Antarctic ozone hole record size: experts. *Telegram [St John's]*, 18 September, B.6.
- Burg, T.M. and J.P. Croxall. 2004. Global population structure and taxonomy of the wandering albatross species complex. *Mol. Ecol.*, **13**(8), 2345–2355. (10.1111/j.1365-294X.2004.02232.x.)
- Burger, A.E. and S.A. Shaffer. 2008. Application of tracking and data-logging technology in research and conservation of seabirds. *Auk*, **125**(2), 253–264. (10.1525/auk.2008.1408)
- Burgess, C.P. and K. Zuber. 2000. Footprints of the newly discovered Vela supernova in Antarctic ice cores? *Astropart. Phys.*, **14**(1), 1–6. (10.1016/S0927-6505(00)00102-X.)
- Burn, C.R. 2004. The thermal regime of cryosols. In Kimble, J.M., ed. *Cryosols: permafrost-affected soils*. Berlin, Federal Republic of Germany, Springer-Verlag, 391–413.
- Burnet, P.F. 1992. *Canadian interests in Antarctica*. Ottawa, Ont., Department of Indian Affairs and Northern Development, unpublished.
- Burns, G.B., D.J. McEwen, R.A. Father, F.T. Berkey and J.S. Murphree. 1990. Optical auroral conjugacy: Viking UV imager — South Pole station ground data. *J. Geophys. Res.*, **95**(A5), 5781–5790. (10.1029/JA095iA05p05781.)
- Burns, G.B., W.J.R. French, P.A. Greet, P.F.B. Williams, K. Finlayson and R.P. Lowe. 1998. Monitoring the Antarctic mesopause region for signatures of climate change. *Ann. Glaciol.*, **27**, 669–673.
- Burns, G.B., P.F.B. Williams, R.P. Lowe, W.J.R. French, P.A. Greet and D.P. Monselesan. 2002. Argon auroral emissions. *J. Atmos. Solar–Terres. Phys.*, **64**(18), 2013–2017. (10.1016/S1364-6826(02)00077-9.)

- Burns, J.M., J.F. Schreer and M.A. Castellini. 1997. Physiological effects on dive patterns and foraging strategies in yearling Weddell seals (*Leptonychotes weddellii*). *Can. J. Zool.*, **75**(11), 1796–1810. (10.1139/z97-809.)
- Burns, J.M. and J.F. Schreer. 2000. Changes in the behavioral repertoire of Weddell seal pups diving in McMurdo Sound, Antarctica. In Davison, W., C. Howard-Williams and P. Broady, eds. *Antarctic ecosystems: models for wider ecological understanding*. Canterbury, New Zealand, Caxton Press. New Zealand Natural Sciences, 85–95.
- Bury, S., M. Pinkerton, E.A. Pakhomov, D. Thompson, J. Johnson and J. Brown. 2010. What effect does the lipid-extraction process have on Ross Sea Antarctic toothfish (*Dissostichus mawsoni*) stable isotope data? *VII International Conference on Applications of Stable Isotope Techniques to Ecological Studies (ISOECOL VII)*, 9–13 August 2010, University of Alaska, Fairbanks, USA. presentation. (www.isoecol.org.)
- Bury, S.J. and 7 others (including E. Pakhomov). 2012. Stable isotope analysis of high lipid-content notothenioid (anti-freeze) fish from the Ross Sea, Antarctica: lipid extraction issues and corrections. *The 8th International Conference on Applications of Stable Isotope Techniques to Ecological Studies*, 20–24 August 2012, Brest, France. Program and abstracts. Brest, France, Institut français de recherche pour l'exploitation de la mer, 94. (www.e-mer-gence.fr/isoecol2012/doc/Program_ISOECOL_V2.pdf.)
- Bush, A. 2010. The role of Antarctica in the climate system. *Our Earth, our air, our water, our future. 44th Annual CMOS Congress, 36th Annual Scientific Meeting of CGU, 3rd Joint CMOS-CGU Congress, 31 May–4 June, Ottawa, Ontario. Congress abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 3886, 341. (www.cmos.ca/CongressAbstracts/cong4410.pdf.)
- Bush, A.B.G. and S.G.H. Philander. 1997. The late Cretaceous: simulation with a coupled atmosphere–ocean general circulation model. *Paleoceanography*, **12**(3), 495–516. (10.1029/97PA00721.)
- Bushula, T., E.A. Pakhomov, S. Kaehler, S. Davis and R.M. Kalin. 2005. Diet and daily ration of two small nototheniid fish on the shelf of the sub-Antarctic Prince Edward Islands. *Polar Biol.*, **28**(8), 585–593. (10.1007/s00300-005-0729-2.)
- Butchart, N. and 41 others (including P. J. Kushner, M. Sigmond, L. Wang, D. Plummer, J. Scinocca and T. G. Shepherd). 2011. Multimodel climate and variability of the stratosphere. *J. Geophys. Res.*, **116**(D5), D05102. (10.1029/2010JD014995.)
- Butler, P.J. and D.R. Jones. 1997. Physiology of diving of birds and mammals. *Physiol. Rev.*, **77**(6), 837–899.
- Cabanac, A.J. 2002. Contracted spleen in seals, estimates of dilated organs, and diving capacity. *Polar Biol.*, **25**(1), 1–4. (10.1007/s003000100303.)
- Cailleux, A. 1966a. Compte rendu. Hatherton, Trevor. Antarctica. Methuen, Londres, 1965, 511 pp., 149 fig., 1 carte h.-t. *Cah. Géogr. Québec*, **10**(20), 379. (10.7202/020666ar.)
- Cailleux, A. 1966b. Compte rendu. Voronov, P.S., 1964. Tectonics and neotectonics of Antarctica. In Antarctic Geology, p. 692-700, 1 fig., Amsterdam; et SCAR-IUGS, Symposium on Antarctic Geology, Capetown; et Antarktika, Ak, Naouk SSSR, Dokl. Kom., 1963 (1964), p. 21-32, 1 fig., Moscou. *Cah. Géogr. Québec*, **10**(20), 378–379. (10.7202/020665ar.)
- Cailleux, A. 1972a. Compte rendu. Quam, Louis O., edit. (1971) Research in the Antarctic. Washington, American Association for the Advancement of Science. 784 p., 247 ill. 2 cartes hors-texte. 44 tabl. Publication no 93. *Cah. Géogr. Québec*, **16**(38), 350–353. (10.7202/021066ar.)
- Cailleux, A. 1972b. Indices polaires en Antarctique et Subantarctique *Ann. Géogr.*, **81**(445), 257–277 (10.3406/geo.1972.18717)
- Cailleux, A. 1972c. Les formes et dépôts nivéo-éoliens actuels en Antarctique et au Nouveau-Québec. *Cah. Géogr. Québec*, **16**(39), 377–409. (10.7202/021079ar.)

- Calamai, P. 1999. Lake's secrets lure searchers: why a probe for life on Europa may begin under Antarctic ice. *Toronto Star*, 19 December, 1.
- Calamai, P. 2004. Diatoms are forever: lake scientist explores the question of when northernmost part of Antarctic began warming U of T prof carries on family tradition through passion for polar regions. *Toronto Star*, 1 January, B.04.
- Calamai, P. 2005. Changing climate blamed as giant ice sheets break; Temperatures rising in Antarctic Peninsula Area of shrunken ice shelves twice the size of GTA. *Toronto Star*, 20 August, F.05.
- Calgary Herald. 2002. Canada blamed for inaction in Antarctic. *Calgary Herald*, A.6.
- Camerlenghi, A. and 7 others (including R. Gilbert). 2001. Glacial morphology and post-glacial contourites in northern Prince Gustav Channel (NW Weddell Sea, Antarctica). *Mar. Geophys. Res.*, **22**(5–6), 417–443. (10.1023/A:1016399616365.)
- Campagna, L., J.J.H. St Clair, S.C. Loughheed, R.W. Woods, S. Imberti and P.L. Tubaro. 2012. Divergence between passerine populations from the Malvinas–Falkland Islands and their continental counterparts: a comparative phylogeographical study. *Biol. J. Linnean Soc.*, **106**(4), 865–879. (10.1111/j.1095-8312.2012.01898.x.)
- Campana, G., M.L. Quartino, F. Momo and G. Ferreyra. 2007. Efectos de la radiación ultravioleta sobre las interacciones entre algas bentónicas y anfípodos en Antártida [Effects of ultraviolet radiation on benthic algae-amphipods interactions in Antarctica]. *Actas del VI° Simposio Argentino y III° Latinoamericano sobre Investigaciones Antárticas, 10–14 Septiembre 2007, Buenos Aires, Argentina*. Buenos Aires, Dirección Nacional del Antártico. Instituto Antártico Argentino, Extended abstract CVCO328, CD-ROM. [In Spanish] (www.dna.gov.ar/CIENCIA/SANTAR07/CD/PDF/CVCO328.PDF.)
- Campana, G., F. Momo, M.L. Quartino and G.A. Ferreyra. 2008. Effects of UV radiation and grazing on biomass and primary production of subtidal benthic algae in Antarctica. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **571**, 278–286. (<http://epic.awi.de/28602/1/Wie2008b.pdf>.)
- Campana, G.L., F.R. Momo, G.A. Ferreyra and M.L. Quartino. 2009. Short term UV effects on trophic interactions between *Gondogeneia antarctica* and *Palmaria decipiens*: effects on feeding rates and algal palatability. *Workshop on the Response of Marine and Terrestrial Biota along the Western Antarctic Peninsula to Climate Change – and the Global Context of the Observed Change, 24–29 August 2009, Mqdralin, Poland. Program and abstracts*. Warsaw, Polish Academy of Sciences. Centre for Ecological Research, presentation.
- Campana, G.L. and 7 others (including G.A. Ferreyra). 2010a. Impacts of UV radiation and grazers on the colonization of marine benthic primary producers in Antarctica (Part II: subtidal communities). *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 113, CD-ROM.
- Campana, G.L., M.L. Quartino, G. Ferreyra and F. Momo. 2010b. Ultraviolet radiation influences the feeding behaviour and grazing rate of a common Antarctic benthic amphipod. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 114, CD-ROM.
- Campbell, W.J., R.O. Ramseier, W.F. Weeks and J.A. Wayenberg. 1974. Visual observations of floating ice from SKYLAB. *Skylab explores the Earth*. Houston, TX, National Aeronautics and Space Administration. Lyndon B. Johnson Space Center, 353–379. (NASA SP-380.)
- Campbell, W.J., W.F. Weeks, R.O. Ramseier and P. Gloersen. 1975. Geophysical studies of floating ice by remote sensing. *J. Glaciol.*, **15**(73), 305–328.
- Canada: Environment Canada. 2003. Canada ratifies the Protocol on Environmental Protection to the Antarctic Treaty (Madrid Protocol). *CARN Newsl.*, **17**, 1–2. (<http://tinyurl.com/n8pfqre>.)
- Canada: Environment Canada. 2003. Canada to ratify Protocol on Environmental Protection. *CARN Newsl.*, **16**, 1–2. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/16.pdf.)

- Canada: Natural Resources Canada. 2008. Dr. Roy M. ("Fritz") Koerner (1932–2008): "Relic" of the British Empire. Ottawa, Ont., Natural Resources Canada, digital media. (30 December.) (www.nrcan-nrcan.gc.ca/com/deptmini/traipion/roykoerner-eng.php.)
- Canadian IPY Secretariat. 2007a. *International Polar Year Day: ice sheets*. Edmonton, Alta., Canadian IPY Secretariat. (IPY Day 2.) (http://ipy.arcticportal.org/index.php?option=com_k2&id=1007:international-polar-day-ice-sheets&view=item&Itemid=47.)
- Canadian IPY Secretariat. 2007b. *International Polar Year Day: sea ice*. Edmonton, Alta., Canadian IPY Secretariat. (IPY Day 1.) (www.ipy.org/ipy-blogs/item/943.)
- Canadian Polar Commission (CPC). 1993. *Canadians in Antarctica: report of a workshop held in Ottawa, 20–21 February 1993*. Ottawa, Ont., Canadian Polar Commission. (Polaris Paper 1(2).)
- Canadian Polar Commission (CPC). 1996a. Setting priorities for Antarctic research. *Meridian/Méridien*, **1**(2), 7. (<http://tinyurl.com/oa9go9l>.)
- Canadian Polar Commission (CPC). 1996b. *Toward a Canadian Antarctic research program*. Ottawa, Ont., Canadian Polar Commission.
- Canadian Polar Commission (CPC). 1997a. *Bibliography of Canadian Contributions to Antarctic and Bipolar Science*. Ottawa, Ont., Canadian Polar Commission.
- Canadian Polar Commission (CPC). 1997b. Canadian Arctic–Antarctic exchange. *Meridian/Méridien*, **2**(1), 7. (www.polarcom.gc.ca/uploads/Publications/Meridian%20Newsletter/Meridian%20spring%2097.pdf.)
- Canadian Polar Commission (CPC). 1997c. Canadians in Antarctic and bipolar science. *Meridian/Méridien*, **2**(1), 7. (<http://tinyurl.com/o7n6yd7>.)
- Canadian Polar Commission (CPC). 1997d. Co-ordination of Antarctic data. *Meridian/Méridien*, **2**(1), 7. (www.polarcom.gc.ca/uploads/Publications/Meridian%20Newsletter/Meridian%20spring%2097.pdf.)
- Canadian Polar Commission (CPC). 2000. Geographical Names Board of Canada approves Antarctic geographical name. *CARN Newsl.*, **11**, 11. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/11.pdf.)
- Canadian Polar Commission (CPC). 2001a. *Canadian Polar Commission, 2000–2001 annual report / Rapport annuel 2000–2001, Commission canadienne des affaires polaires*. Ottawa, Ont., Canadian Polar Commission. (www.polarcom.gc.ca/uploads/Publications/CPCs%20Annual%20Report/00-01.pdf.)
- Canadian Polar Commission (CPC). 2001b. *Indicators of Canadian polar knowledge 1999*. Ottawa, Ont., Canadian Polar Commission, June.
- Canadian Polar Commission (CPC). 2002a. \$2.6 million in funding to develop cybercartographic atlases. *CARN Newsl.*, **15**, 4. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/15.pdf.)
- Canadian Polar Commission (CPC). 2002b. *Annual report 2001–2002, Canadian Polar Commission / Commission canadienne des affaires polaires, rapport annuel 2001–2002*. Ottawa, Ont., Canadian Polar Commission. (www.polarcom.gc.ca/uploads/Publications/CPCs%20Annual%20Report/01-02.pdf.)
- Canadian Polar Commission (CPC). 2002c. *Antarctic science and bipolar linkages: a strategy for Canada*. Ottawa, Ont., Canadian Polar Commission. Canadian Committee for Antarctic Research. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/Antarctic%20Science.pdf.)
- Canadian Polar Commission (CPC). 2002d. Canadian to chair CliC Scientific Steering Group. *CARN Newsl.*, **15**, 6. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/15.pdf.)
- Canadian Polar Commission (CPC). 2002e. Carleton University honours Dr. Fred Roots. *CARN Newsl.*, **15**, 9. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/15.pdf.)
- Canadian Polar Commission (CPC). 2002f. *Indicators of Canadian polar knowledge 2000*. Ottawa, Ont., Canadian Polar Commission, June.

- Canadian Polar Commission (CPC). 2003a. *Canadian Polar Commission annual report 2002–2003 / Rapport annuel 2002–2003, Commission canadienne des affaires polaires*. Ottawa, Ont., Canadian Polar Commission. (www.polarcom.gc.ca/uploads/Publications/CPCs%20Annual%20Report/02-03.pdf.)
- Canadian Polar Commission (CPC). 2003b. *Indicators of Canadian polar knowledge 2001*. Ottawa, Ont., Canadian Polar Commission, June.
- Canadian Polar Commission (CPC). 2003c. Workshop to plan a Canadian Antarctic research program. *CARN Newsl.*, **16**, 11. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/16.pdf.)
- Canadian Polar Commission (CPC). 2004a. *Canadian Polar Commission, 2003–2004 annual report / Rapport annuel 2003–2004 de la Commission canadienne des affaires polaires*. Ottawa, Ont., Canadian Polar Commission. (www.polarcom.gc.ca/uploads/Publications/CPCs%20Annual%20Report/03-04.pdf.)
- Canadian Polar Commission (CPC). 2004b. *Indicators of Canadian polar knowledge 2002*. Ottawa, Ont., Canadian Polar Commission, August.
- Canadian Polar Commission (CPC). 2005. *Canadian Polar Commission annual report 2004–2005 / Commission canadienne des affaires polaires rapport annuel 2004–2005*. Ottawa, Ont., Canadian Polar Commission. (www.polarcom.gc.ca/uploads/Publications/CPCs%20Annual%20Report/04-05.pdf.)
- Canadian Polar Commission (CPC). 2006. *Canadian Polar Commission annual report 2005–2006 / Commission canadienne des affaires polaires rapport annuel 2005–2006*. Ottawa, Ont., Canadian Polar Commission. (www.polarcom.gc.ca/uploads/Publications/CPCs%20Annual%20Report/05-06.pdf.)
- Canadian Polar Commission (CPC). 2007a. *Canadian Polar Commission annual report 2006–2007 / Commission canadienne des affaires polaires rapport annuel 2006–2007*. Ottawa, Ont., Canadian Polar Commission. (www.polarcom.gc.ca/uploads/Publications/CPCs%20Annual%20Report/06-07.pdf.)
- Canadian Polar Commission (CPC). 2007b. Protocol for Canada–Argentina collaboration. *CARN Newsl.*, **24**, 16–17. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/24.pdf.)
- Canadian Polar Commission (CPC). 2008. *Canadian Polar Commission annual report 2007–2008 / Commission canadienne des affaires polaires rapport annuel 2007–2008*. Ottawa, Ont., Canadian Polar Commission. (www.polarcom.gc.ca/uploads/Publications/CPCs%20Annual%20Report/07-08.pdf.)
- Canadian Polar Commission (CPC). 2009. *Canadian Polar Commission annual report 2008–2009 / Commission canadienne des affaires polaires rapport annuel 2008–2009*. Ottawa, Ont., Canadian Polar Commission. (<http://tinyurl.com/ngfzy26>.)
- Canadian Polar Commission (CPC). 2010a. Canada–Argentina agreement. *CARN Newsl.*, **29**, 1–2. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN%20vol%2029%20Nov%202010.pdf.)
- Canadian Polar Commission (CPC). 2010b. *Canadian Polar Commission annual report 2009–2010 / Commission canadienne des affaires polaires rapport annuel 2009–2010*. Ottawa, Ont., Canadian Polar Commission. (<http://tinyurl.com/74gtsph>.)
- Canadian Polar Commission (CPC). 2010c. Wilhelmina Roa Clavano – SCAR Fellow. *CARN Newsl.*, **28**, 12. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN28.pdf.)
- Canadian Polar Commission (CPC). 2011. *Canadian Polar Commission annual report 2010–2011 / Commission canadienne des affaires polaires rapport annuel 2010–2011*. Ottawa, Ont., Canadian Polar Commission. (<http://tinyurl.com/p7mgpxb>.)
- Canadian Polar Commission (CPC). 2012. *Canadian Polar Commission 2011–2012 annual report*. Ottawa, Ont., Canadian Polar Commission. (www.polarcom.gc.ca/sites/default/files/ar_english_jan_17_.pdf.)
- Canadian Press. 2003. Ailing Antarctic worker on way home thanks to Canadian crew. *Daily News Halifax*, 22 September, 12.

- Canals, M. *and 16 others* (including J. Locat). 2004. Slope failure dynamics and impacts from seafloor and shallow sub-seafloor geophysical data: case studies from the COSTA project *Mar. Geol.*, **213**(1–4), 9–72. (10.1016/j.margeo.2004.10.001.)
- Canning, C. 2002. Movie fan wins trip to the Antarctic. *Barrie Exam.*, 9 November, C.2.
- Capithorne, M. and D. Overholt. 1990. International regulation of the Antarctic. *Sustainable development in Canada: options for law reform*. Ottawa, Ont., Canadian Bar Association. Committee on Sustainable Development in Canada, 272–283. (Report.)
- Caquard, S., J.-P. Fiset and D.R.F. Taylor. 2005a. Le concept d'acte cybercartographique: genèse d'un atlas cybercartographique de l'Antarctique. In Josselin, D. and T. Libourel, eds. *SAGEO 2005, Colloque International de Géomatique et d'Analyse Spatiale, 20–23 Juin 2005, Avignon, France. Actes*. Avignon, UMR Espace, CD-ROM. (<http://lazarus.elte.hu/cet/madrid-2005/caquard.ppt>.)
- Caquard, S., G. Brauen and B. Wright. 2005b. Exploring sound design in cybercartography. *Mapping approaches into a changing world. Proceedings of the 22nd International Cartographic Conference, 9–16 July 2005, A Coruña, Spain*. A Coruña, Spain, Global Congresses. International Cartographic Association (ICA), CD-ROM, 7 pp. (<http://tinyurl.com/q9nt75e>.)
- Caquard, S., P. Pulsifer and D.R.F. Taylor. 2005c. Multiple ways of learning about Antarctica with cybercartography. *Joint ICC Seminar on Internet Mapping and Education, 6–8 July 2005, Madrid, Spain*. Barcelona, Spain, Institut Cartogràfic de Catalunya, digital media. (<http://lazarus.elte.hu/cet/madrid-2005/caquard.ppt>.)
- Caquard, S., P. Pulsifer, J.-P. Fiset and D.R.F. Taylor. 2007. Introduction au concept d'acte cybercartographique: genèse d'un atlas cybercartographique. *Cybergeo*, Article 395, digital media. (www.cybergeo.eu/index9272.html.)
- Caquard, S., G. Brauen, B. Wright and P. Jasen. 2008. Designing sound in cybercartography: from structured cinematic narratives to unpredictable sound/image interactions. *Int. J. Geogr. Inf. Sci.*, **22**(11–12), 1219–1245. (10.1080/13658810801909649.)
- Carcaillet, C. *and 22 others* (including H. Asnong, K. Gajewski, S.D. Muller and P.J.H. Richard). 2002. Holocene biomass burning and global dynamics of the carbon cycle. *Chemosphere*, **49**(8), 845–863. (10.1016/S0045-6535(02)00385-5.)
- Carleer, M.R. *and 25 others* (including C.D. Boone, K.A. Walker, P.F. Bernath, K. Strong, R.J. Sica, J. Kar, C.E. Sioris, M.R.M. Izawa, C.T. McElroy, J.R. Drummond, C.R. Nowlan, J. Zou, F. Nichitiu and D.G. Dufour). 2008. Validation of water vapour profiles from the Atmospheric Chemistry Experiment (ACE). *Atmos. Chem. Phys. Discuss. (ACPD)*, **8**(2), Special Issue, 4499–4559. (10.5194/acpd-8-4499-2008.)
- Carlstrom, J.E. *and 43 others* (the SPT Collaboration that includes M.A. Dobbs and T.M. Lanting). 2011. The 10 meter South Pole telescope. *Pub. Astron. Soc. Pacific (PASP)*, **123**(903), 568–581. (10.1086/659879.)
- Carmack, E.C. 1986. Circulation and mixing in ice-covered waters. In Untersteiner, N., ed. *The geophysics of sea ice*. London, U.K., etc., Plenum Press, 641–712. (NATO ASI Series B: Physics 146.)
- Carmack, E.C. and P.D. Killworth. 1978. Formation and interleaving of abyssal water masses off Wilkes Land, Antarctica. *Deep-Sea Res.*, **25**(4), 357–369. (10.1016/0146-6291(78)90563-5.)
- Carmack, E. and J. Wüest. 2000. Reckoning Lake Vostok. *CARN Newsl.*, **10**, 1–2. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/10.pdf.)
- Carnat, G. and 7 others (including M. Lévassieur and T. Papakyriakou). 2010a. A comparative study of DMS/P dynamics in Arctic and Antarctic sea ice. *International Symposium on Sea Ice in the Physical and Biogeochemical System, 31 May – 4 June 2010, Tromsø, Norway*. Cambridge, U.K., International Glaciological Society, presentation

- Carnat, G. and 13 others (including Lisa Miller, W. Keith Johnson and Tim Papakyriakou). 2010b. Measuring climate-active gases in early spring Antarctic sea ice: the SIMBA project. *CARN Newsl.*, **29**, 5–10. (<http://tinyurl.com/7dg5clk>.)
- Carpenter, D.L., F. Walter, R.E. Barrington and D.J. McEwen. 1968. Alouette 1 and 2 observations of abrupt changes in whistler rate and of VLF noise variations at the plasmapause – a satellite-ground study. *J. Geophys. Res.*, **73**(9), 2929–2940. (10.1029/JA073i009p02929.)
- Carrieres, T.G. and H.D. Tran. 1999. Ocean adjustment in coupled sea ice–ocean forecast models. [Abstract OS41A-12.] *Eos, Trans. AGU*, **80**(46), Fall Meet. Suppl., F551. (www.agu.org/meetings/fm99/waisfm99.html.)
- Carscallen, W.M.A. and T.N. Romanuk. 2012. Structure and robustness to species loss in Arctic and Antarctic ice-shelf meta-ecosystem webs. *Ecol. Model.*, **245**, 208–218. (10.1016/j.ecolmodel.2012.03.027.)
- Carson, C.J., J.J. Ague and C.D. Coath. 2002a. U–Pb geochronology from Tonagh Island, East Antarctica: implications for the timing of ultra-high temperature metamorphism of the Napier Complex. *Precambrian Res.*, **117**(3–4), 237–263. (10.1016/S0301-9268(02)00023-2.)
- Carson, C.J., J.J. Ague, M. Grove, C.D. Coath and T.M. Harrison. 2002b. U–Pb isotopic behaviour of zircon during upper-amphibolite facies fluid infiltration in the Napier Complex, East Antarctica. *Earth Planet. Sci. Lett.*, **199**(3–4), 287–310. (10.1016/S0012-821X(02)00565-4.)
- Cartlidge, E. 2009. Do cosmic rays destroy the ozone layer? *environmentalresearchweb*, digital media. (Report on work of Q.-B. Lu.) (<http://environmentalresearchweb.org/cws/article/news/38404>.)
- Cary, A. 2007. Cooling things down in Antarctic. *Natl. Post [Don Mills]*, A.21.
- Cary, P.W. 1977. A creep instability analysis of the Antarctic ice sheet. B.Sc. thesis, Department of Physics, University of Toronto, Toronto, Ont.
- Cary, P.W., G.K.C. Clarke and W.R. Peltier. 1979. A creep instability analysis of the Antarctic and Greenland ice sheets. *Can. J. Earth Sci.*, **16**(1), 182–188. (10.1139/e79-016.)
- Cassar, N., B.A. Barnett, M.L. Bender, J. Kaiser, R.C. Hamme and B. Tilbrook. 2009. Continuous high-frequency dissolved O₂/Ar measurements by equilibrator inlet mass spectrometry. *Anal. Chem.*, **81**(5), 1855–1864. (10.1021/ac802300u.)
- Cassidy, W.A., J. Schutt, C. Koeberl, K. Yanai, L. Lindner and A. Mardon. 1987. The meteorite concentration of the Lewis Cliff, Antarctica, Ice Tongue. [Abstract.] *Meteoritics*, **22**(4), 50th Annual Meteoritical Soc. Meet., 353. (10.1111/j.1945-5100.1987.tb01278.x.)
- Castellani, C., A.J. Richardson, S. Batten, G.W. Hosie, X. Irigoien and R.P. Harris. 2007. Temporal and spatial variability of *Oithona* spp. abundance and phenology in the North Atlantic, North Pacific and Southern Ocean using the CPR data. *Human and climate forcing of zooplankton populations. 4th International Zooplankton Production Symposium, 28 May–1 June 2007, Hiroshima, Japan. Abstracts and program*. Sidney, B.C., North Pacific Marine Science Organization (PICES), 54. (Poster S1-3466.) (www.pices.int/publications/book_of_abstracts/2007_4th_Zooplankton_Symposium.pdf.)
- Catchpole, K. 2010. Antarctic dream: tips to make the most of the world's end. *N. Shore News [N. Vancouver]*, 12 December.
- Cavell, J. 2009. Book reviews. ANTARCTIC DESTINIES: SCOTT, SHACKLETON AND THE CHANGING FACE OF HEROISM. Stephanie Barczewski. 2007. London: Hambledon Continuum. 390 p, illustrated, hard cover. ISBN 978 1 84725 192 3. \$28.95/ £25. *Polar Rec.*, **45**(3), 280–281. (10.1017/S0032247409008250.)
- Cembrano, J., A. Lavenu, P. Reynolds, G. Arancibia, G. López and A. Sanhueza. 2002. Late Cenozoic transpressional ductile deformation north of the Nazca–South America–Antarctica triple junction. *Tectonophysics*, **354**(3–4), 289–314. (10.1016/S0040-1951(02)00388-8.)

- Chalifoux, S. 2011. Science and Operational Applications Research for RADARSAT-2. *2011 IEEE International Geoscience & Remote Sensing Symposium, 24–29 July 2011, Vancouver, British Columbia, Canada. Proceedings.* New York, NY, Institute of Electrical and Electronics Engineers, 3484–3487. (10.1109/IGARSS.2011.6049971.)
- Chamberlin, T.C. 1923. Reviews. British (Terra Nova) Antarctic Expedition, 1910–1913. *Glaciology.* By C. S. Wright and R. E. Priestley. Quarto, pp. xx + 487, figs. 481, plates 417, maps XIV. London, 1922. *J. Geol.*, **31**(6), 513–524. (Review of report by C.S. Wright.) (www.jstor.org/stable/30081283.)
- Chambers, S.R. and R.E. Cranston. 1991. Chapter 18. Interstitial-water geochemistry of Kerguelen Plateau sediments. In Barron, J.A. and 29 others, eds (including R.E. Cranston and C.J. Schröder). *Proceedings of the Ocean Drilling Program: scientific results, Vol. 119. Kerguelen Plateau–Prydz Basin.* College Station, TX, Texas A & M University. Ocean Drilling Program, September, 347–374. (10.2973/odp.proc.sr.119.169.1991.)
- Chandler, G. 2008. Phantom mountains under the Antarctic ice. International Polar Year initiative to explore Antarctica's Gamburstev Province. *Earth Expl.*, 4–7. (Describes use of Sander Geophysics gravimeter.) (www.sgl.com/technicalpapers/Earth-Explorer-2008-11.pdf.)
- Chang, C. and 43 others (the SPT Collaboration that includes M.A. Dobbs, G.P. Holder, T.M. Lanting, L. Shaw, K. Vanderlinde and T. de Haan). 2009. SPT-SZ: a SZ survey for galaxy clusters. *LTD-13, Thirteenth International Workshop on Low Temperature Detectors, July 19–24 2009, Stanford University / SLAC. Abstracts book.* Menlo Park, CA, Stanford University. SLAC National Accelerator Laboratory, Abstract 216, 190. (<http://ltd-13.stanford.edu/downloads/abstracts.pdf>.)
- Chang, C. and 45 others (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, G.P. Holder, T.M. Lanting, L. Shaw and K. Vanderlinde). 2010. SPT-SZ: a Sunyaev-Zel'dovich survey for galaxy clusters. In Young, B., A. Miller and B. Cabrera, eds. *The Thirteenth International Workshop on Low Temperature Detectors - LTD 13, 20–24 July 2009, Stanford, California.* New York, NY, etc., Springer. American Institute of Physics, 475–477. (AIP Conference Proceedings 1185.) (10.1063/1.3292381.)
- Chang, C.L. and 58 others (the SPT Collaboration that includes T. de Haan, M. Dobbs, J. Kennedy and K. Vanderlinde). 2012. Optical and thermal properties of ANL/KICP polarization sensitive bolometers for SPTpol. *J. Low Temp. Phys.*, **167**(5–6), 865–871. (10.1007/s10909-012-0491-0.)
- Chapman, P.M. and M.J. Riddle. 2005. Toxic effects of contaminants in polar marine environments. *ES&T, Environ. Sci. Technol.*, **39**(9), 200A–207A. (10.1021/es0532537.)
- Charles Perry Weather. 2008. Scientists reveal collapse of Antarctic ice: is it another example of global warming? *Times & Transcript [Moncton]*, 27 March, A.9.
- Chatterjee, S., D. Martinioni, F. Novas, F. Mussel and R. Templin. 2006. A new fossil loon from the Late Cretaceous of Antarctica and early radiation of foot propelled diving birds. [Abstract.] *J. Vertebr. Paleontol.*, **26**(3), Supplement, 49.
- Chavanne, C.P., K.J. Heywood, K.W. Nicholls, M. Inall and C. Griffiths. 2012. Continental shelf and slope variability in the southeast Weddell Sea. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts.* Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 550, digital media. (http://132.246.11.198/2012-ipy/Abstracts_On_the_Web/pdf/ipy2012arAbstract00550.pdf.)
- Chen, C., J.E. Box, R.M. Hock and J.G. Cogley. 2011. A moderate resolution inventory of small glaciers and ice caps surrounding Greenland and the Antarctic Peninsula. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA.* Washington, DC, American Geophysical Union, C31A-0614, digital media. (<http://sites.agu.org/fallmeeting/scientific-program/>.)
- Cherel, Y. and K.A. Hobson. 2005. Stable isotopes, beaks and predators: a new tool to study the trophic ecology of cephalopods, including giant and colossal squids. *Proc. R. Soc. London, Ser. B*, **272**(1572), 1601–1607 (10.1098/rspb.2005.3115.)

- Cherel, Y. and K.A. Hobson. 2007. Geographical variation in carbon stable isotope signatures of marine predators: a tool to investigate their foraging areas in the Southern Ocean. *Mar. Ecol. Progr. Ser.*, **329**, 281–287. (10.3354/meps329281.)
- Cherel, Y., P. Bocher, C. de Broyer and K.A. Hobson. 2002a. Food and feeding ecology of the sympatric thin-billed *Pachyptila belcheri* and Antarctic *P. desolata* prions at Iles Kerguelen, Southern Indian Ocean. *Mar. Ecol. Progr. Ser.*, **228**, 263–281. (10.3354/meps225001.)
- Cherel, Y., K. Pütz and K.A. Hobson. 2002b. Summer diet of king penguins (*Aptenodytes patagonicus*) at the Falkland Islands, southern Atlantic Ocean. *Polar Biol.*, **25**(12), 898–906. (10.1007/s00300-002-0419-2.)
- Cherel, Y., K.A. Hobson and H. Weimerskirch. 2005. Using stable isotopes to study resource acquisition and allocation in procellariiform seabirds. *Oecologia*, **145**(4), 533–540. (10.1007/s00442-005-0156-7.)
- Cherel, Y., R.A. Phillips, K.A. Hobson and R. McGill. 2006. Stable isotope evidence of diverse species-specific and individual wintering strategies in seabirds. *Biol. Lett.*, **2**(2), 301–303 (10.1098/rsbl.2006.0445.)
- Cherel, Y., K.A. Hobson, C. Guinet and C. Vanpe. 2007. Stable isotopes document seasonal changes in trophic niches and winter foraging individual specialization in diving predators from the Southern Ocean. *J. Animal Ecol.*, **76**(4), 826–836. (10.1111/j.1365-2656.2007.01238.x.)
- Cherwinka, J. and 12 others (including D. Grant). 2012. A search for the dark matter annual modulation in South Pole ice. *Astropart. Phys.*, **35**(11), 749–754. (10.1016/j.astropartphys.2012.03.003.)
- Cheung, W.W.L., V.W.Y. Lam, J.L. Sarmiento, K. Kearney, R. Watson and D. Pauly. 2009. Projecting global marine biodiversity impacts under climate change scenarios. *Fish & Fish.*, **10**(3), 235–251. (10.1111/j.1467-2979.2008.00315.x.)
- Chevalier, P., D. Proulx, P. Lessard, W.F. Vincent and J. de la Noüe. 2000. Nitrogen and phosphorus removal by high latitude mat-forming cyanobacteria for potential use in tertiary wastewater treatment. *J. Appl. Phycol.*, **12**(2), 105–112. (10.1023/A:1008168128654.)
- Chierici, M., A. Fransson, D.R. Turner, E.A. Pakhomov and P.W. Froneman. 2004. Variability in pH, $f\text{CO}_2$, oxygen and flux of CO_2 in the surface water along a transect in the Atlantic sector of the Southern Ocean. *Deep-Sea Res. II*, **51**(22–24), 2773–2787. (10.1016/j.dsr2.2001.03.002.)
- Childs, J. 2007. Book reviews. Extreme tourism: lessons from the world's cold water islands (Godfrey Baldacchino, editor). *Polar Geogr.*, **30**(1–2), 75–77. (10.1080/10889370701666523.)
- Chisham, G. and 17 others (including K.A. McWilliams and G.J. Sofko). 2007. A decade of the Super Dual Auroral Radar Network (SuperDARN); scientific achievements, new techniques and future directions. *Surv. Geophys.*, **28**(1), 33–109. (10.1007/s10712-007-9017-8.)
- Choboter, P.F. and G.E. Swaters. 2004. Shallow water modeling of Antarctic bottom water crossing the equator. *J. Geophys. Res.*, **109**(C3), C03038. (10.1029/2003JC002048.)
- Choi, E.M. 1999. The Radarsat Antarctic Mapping Mission. *IEEE Aerospace Electron. Syst. Mag.*, **14**(5), 3–5. (10.1109/62.765771.)
- Choi, S.-D. and 7 others (including F. Wania and M.G. Ikonomou). 2008. Passive air sampling of polychlorinated biphenyls and organochlorine pesticides at the Korean Arctic and Antarctic research stations: implications for long-range transport and local pollution. *ES&T, Environ. Sci. Technol.*, **42**(19), 7125–7131. (10.1021/es801004p.)
- Chong, Å. 2000. Sediment trap records of deposition in Lallemand Fjord adjacent to Muller Ice Shelf, Antarctic Peninsula. M.Sc. thesis, Department of Geography, Queen's University, Kingston, Ont., x + 105 pp. (www.nlc-bnc.ca/obj/s4/f2/dsk2/ftp01/MQ52887.pdf.)

- Chong, A. and R. Gilbert. 2000. Sediment trap records of deposition in Lallemand Fjord adjacent to Müller Ice Shelf, Antarctic Peninsula. *Thirtieth Annual Arctic Workshop, March 2000, Boulder, Colorado. Program with abstracts*. Boulder, CO, University of Colorado. Institute of Arctic and Alpine Research, 39–40.
- Chown, S.L., B.J. Sinclair and B.J. van Vuuren. 2008. DNA barcoding and the documentation of alien species establishment on sub-Antarctic Marion Island. *Polar Biol.*, **31**(5), 651–655. (10.1007/s00300-007-0402-z.)
- Christian, J.R., V.K. Arora, G.J. Boer, C.L. Curry, K. Zahariev, K.L. Denman, G.M. Flato, W.G. Lee, W.J. Merryfield, N.T. Roulet and J.F. Scinocca. 2010. The global carbon cycle in the Canadian Earth system model (CanESM1): Preindustrial control simulation. *J. Geophys. Res.*, **115**(G3), G03014. (10.1029/2008JG000920.)
- Christoffel, D.A. and D.I. Ross. 1970. A fracture zone in the south west Pacific basin south of New Zealand and its implications for sea floor spreading. *Earth Planet. Sci. Lett.*, **8**(2), 125–130. (10.1016/0012-821X(70)90161-5.)
- Chshyolkova, T. and 8 others (including A.H. Manson, C.E. Meek, J.W. MacDougall and W. Hocking). 2006. Planetary wave coupling processes in the middle atmosphere (30–90 km): a study involving MetO and MFR data. *J. Atmos. Solar–Terres. Phys.*, **68**(3–5), 353–368. (10.1016/j.jastp.2005.05.011.)
- Chu, X., P.J. Espy, G.J. Nott, J.C. Diettrich and C.S. Gardner. 2006. Polar mesospheric clouds observed by an iron Boltzmann lidar at Rothera (67.5°S, 68.0°W), Antarctica from 2002 to 2005: properties and implications. *J. Geophys. Res.*, **111**(D20), D20213. (10.1029/2006JD007086.)
- Chu, X., G.J. Nott, P.J. Espy, J.M. Plane and W.T. Huang. 2007. Seasonal variations of mesospheric Fe layers at Rothera and comparisons to the South Pole results. [Abstract.] *Eos, Trans. AGU*, **88**(52), Fall Meet. Suppl., SA21A-0267. (www.agu.org/meetings/fm07/waisfm07.html.)
- Chu, X. and 7 others (including G.J. Nott). 2009. Responses of polar mesospheric cloud brightness to stratospheric gravity waves at the South Pole and Rothera, Antarctica. *J. Atmos. Solar–Terres. Phys.*, **71**(3–4), 434–445. (10.1016/j.jastp.2008.10.002.)
- Chung, E., T. Williams, T. van der Flierdt and M. Roy. 2005. Provenance of ice-rafted debris and icebergs offshore of Prydz Bay, Antarctica, from the Early Miocene to the present. [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., PP41A-0623. (www.agu.org/meetings/fm05/waisfm05.html.)
- Church, A.K., T.S. Kuhn, J. Baeseman, A. Garmulewicz, M. Raymond and R. Salmon. 2006. International Youth Conference on the Poles. [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., ED13B-03. (www.agu.org/meetings/fm06/waisfm06.html.)
- Church, I. 2009. IPY 2007–2008: an unfolding legacy. *Meridian/Méridien*, **2009**, 16–21. (www.polarcom.gc.ca/uploads/Publications/Meridian%20Newsletter/Meridian%20Fall-Winter%202009.pdf.)
- Church, J.A. and 9 others (including J.G. Cogley). 2011. Revisiting the Earth's sea-level and energy budgets from 1961 to 2008. *Geophys. Res. Lett.*, **38**(18), L18601. (10.1029/2011GL048794.)
- Chýlek, P. and H. Wu. 1992. Black carbon concentration in Byrd Station ice core: from 700 to 12,900 years BP. [Abstract] *Eos, Trans. AGU*, **73**(14), Spring Meet. Suppl., 107–108.
- Chýlek, P., B. Johnson and H. Wu. 1992. Black carbon concentration in Byrd Station ice core: from 13,000 to 700 years before present. *Ann. Geophys.*, **10**(8), 625–629.
- Chylek, P., C.K. Folland, G. Lesins and M.K. Dubey. 2010. Twentieth century bipolar seesaw of the Arctic and Antarctic surface air temperatures. *Geophys. Res. Lett.*, **37**(8), L08703. (10.1029/2010GL042793.)
- Ciesielski, P.F., G.P. Grinstead and B.D. Bornhold. 1984. Late Miocene to Pliocene fluctuations of the Polar front in the Southwest Atlantic. *Geol. Soc. Am. Abstr. Prog.*, **16**(6), GSA 97th Annual Meeting, 471.

- Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. 1988. *Proceedings of the Ocean Drilling Program: initial reports. Subantarctic South Atlantic: covering Leg 114 of the cruises of the Drilling Vessel JOIDES Resolution, East Cove, Falkland Islands, to Port Louis, Mauritius, Sites 698–704, 11 March 1987–13 May 1987. Vol. 114.* College Station, TX, Texas A & M University. Ocean Drilling Program, February. (10.2973/odp.proc.ir.114.111.1988.)
- Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. 1991. *Proceedings of the Ocean Drilling Program: scientific results. Subantarctic South Atlantic: covering Leg 114 of the cruises of the Drilling Vessel JOIDES Resolution, East Cove, Falkland Islands, to Port Louis, Mauritius, Sites 698–704, 11 March 1987–13 May 1987. Vol. 114.* College Station, TX, Texas A & M University. Ocean Drilling Program, February. (10.2973/odp.proc.ir.113.1988.)
- Cilliers, P.J., C.M. Ngwira, P. Prikryl, L. Alfonsi and C.N. Mitchell. 2012a. Contributions to ionospheric TEC and GPS phase scintillation climatology at high latitudes in Antarctica by new instruments deployed during IPY. *IPY 2012 From Knowledge to Action Conference, 22–27 April 201, Montréal, Canada. Program and abstracts.* Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 1397, digital media. (<http://tinyurl.com/q4dlfek>.)
- Cilliers, P. and 7 others (including P. Prikryl). 2012b. Space weather impact on the upper atmosphere over the South Atlantic magnetic anomaly. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon.* Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_28.pdf.)
- Cimino, M.A., M.J. Oliver, W. Fraser, A. Irwin and D. Miller. 2012. Climate migration changes penguin distributions on the west Antarctic Peninsula. *2012 Ocean Sciences Meeting, 20–24 February 2012, Salt Lake City, Utah, USA. Abstract book.* Waco, TX, American Society of Limnology and Oceanography, 83. (Abstract 9535.) (www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=9535.)
- Clark, F.E. 1994. New species and a new genus of Neogene benthic foraminifera from the Southwest Pacific Ocean. *J. Foram. Res.*, **24**(2), 182–189.
- Clark, P.U., J.X. Mitrovica, G.A. Milne and M.E. Tamisiea. 2002. Sea-level fingerprinting as a direct test for the source of global meltwater pulse IA. *Science*, **295**(5564), 2438–2441. (10.1126/science.1068797.)
- Clark, P.U., A.J. Weaver and J.X. Mitrovica. 2003. Ice sheet forcing of abrupt climate change: lessons from the last deglaciation. *Geophys. Res. Abstr.*, **5**, EAE03-A-08091. (www.cosis.net/abstracts/EAE03/08091/EAE03-J-08091.pdf.)
- Clark, P.U., A.M. McCabe, A.C. Mix and A.J. Weaver. 2004. Rapid rise of sea level 19,000 years ago and its global implications. *Science*, **304**(5674), 1141–1144. (10.1126/science.1094449.)
- Clark, P.U. and 7 others (including A.S. Dyke). 2009. The Last Glacial Maximum. *Science*, **325**(5941), 710–714. (10.1126/science.1172873.)
- Clark, M.S. and 6 others (including Y. Meng, L.L. Guan and S. Moore). 2011. Antarctic krill 454 pyrosequencing reveals chaperone and stress transcriptome. *PLoS ONE*, **6**(1), e15919. (10.1371/journal.pone.0015919.)
- Clarke, G.K.C., ed. 1987a. Chapman Conference on Fast Glacier Flow. *J. Geophys. Res.*, **92**(B9), Special section, 8835–9134.
- Clarke, G.K.C. 1987b. Fast glacier flow: ice streams, surging and tidewater glaciers. *J. Geophys. Res.*, **92**(B9), 8835–8841. (10.1029/JB092iB09p08835.)
- Clarke, G.K.C. 2001. Lake Vostok as tabula rasa and multidisciplinary challenge. In Löken, O.H. and N.J. Couture, eds. *Subglacial lake and deep ice exploration: Canadian expertise and international opportunities.* Ottawa, Ont., Canadian Polar Commission, May, 17–18. (http://www.polarcom.gc.ca/english/antarctic/pdf/antarctic_subglacial_en.pdf)
- Clarke, G.K.C. 2005. Subglacial processes. *Annu. Rev. Earth Planet. Sci.*, **33**, 247–276. (10.1146/annurev.earth.33.092203.122621.)

- Clarke, G.K.C. 2006a. Ice-sheet plumbing in Antarctica *Nature*, **440**(7087), 1000–1001. (10.1038/4401000a.)
- Clarke, G.K. 2006b. Nye lecture: water under ice: curiosities, complexities, and catastrophes. [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., C23A-01. (www.agu.org/meetings/fm06/waisfm06.html.)
- Clarke, G.K., R.E. Bell and M. Studinger. 2005a. Isotopic and chemical balance of large lakes beneath the East Antarctic ice sheet [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., C12C-04. (www.agu.org/meetings/fm05/waisfm05.html.)
- Clarke, G.K.C., M. Studinger, R.E. Bell and A.A. Tikku. 2005b. Mass and energy balance of large subglacial lakes in East Antarctica *31st Annual Meeting of the Canadian Geophysical Union, 8–11 May 2005, Banff, Alberta. Program and abstracts. Calgary, Alta, Canadian Geophysical Union. Calgary, Alta, Canadian Geophysical Union, Abstract 50, CD-ROM.*
- Clarke, G.K.C., M. Studinger and R.E. Bell. 2008. Mass balance, circulation and freezing patterns of subglacial Lake Vostok, East Antarctica. *International Symposium on Dynamics in Glaciology, 17–22 August 2008, Limerick, Ireland. Cambridge, UK, International Glaciological Society, presentation.*
- Clavano, W.R. 2010. *Snow over ice: ground measurements for satellite validation of snow layering over land ice and snow thickness over sea ice around McMurdo Sound, Antarctica.* Cambridge, U.K., Scientific Committee on Antarctic Research, 10 pp. (SCAR Fellowship Report.) (www.scar.org/awards/fellowships/fellowship0809/Fellow_Report_Clavano.pdf.)
- Clavano, W.R., M. Sharp and W. Rack. 2010. Correcting for uneven illumination in near-infrared images of snow layers in a dry snow zone, Ross Island, Antarctica. *SIRG 2010, Snow and Ice Group (NZ) Annual Workshop, 15–17 February 2010, Queenstown, New Zealand. Programme and abstract book.* Christchurch, Gateway Antarctica, University of Canterbury, 13. (www.sirg.org.nz/data_files/SIRG_Programme_Book_2010.pdf.)
- Clerbaux, C. and 51 others (including K.A. Walker, P.F. Bernath, C.D. Boone, J.R. Drummond, E. Dupuy, K. Strong and A. Wiacek). 2008. CO measurements from the ACE-FTS satellite instrument: data analysis and validation using ground-based, airborne and spaceborne observations. *Atmos. Chem. Phys. (ACP)*, **8**(9), Special Issue, 2569–2594. (10.5194/acp-8-2569-2008.)
- Clilverd, M.A. and 7 others (including I.J. Rae). 2012. Combined THEMIS and ground-based observations of a pair of substorm-associated electron precipitation events. *J. Geophys. Res.*, **117**(A2), A02313. (10.1029/2011JA016933.)
- Coble, K. and 36 others (including J.R. Bond, C.R. Contaldi, C.B. Netterfield, D. Pogosyan and S. Prunet). 2003. Observations of galactic and extra-galactic sources from the BOOMERANG and SEST telescopes. *Astrophys. J. Suppl.*, Unpublished, eprint. (<http://arxiv.org/abs/astro-ph/0301599v1>.)
- Cochran, J.R., R.E. Bell, N. Frearson and S. Elieff. 2010a. Inversion of IceBridge gravity data for continental shelf bathymetry beneath the Larsen Ice Shelf. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA.* Washington, DC, American Geophysical Union, C14A-05, digital media. (www.agu.org/cgi-bin/wais?ss=C14A-05.)
- Cochran, J.R., R.E. Bell, M. Studinger, N. Frearson and S. Elieff. 2010b. Inversion of IceBridge gravity data for continental shelf bathymetry beneath the Larsen Ice Shelf. *WAIS 2010, Seventeenth Annual WAIS Workshop, 22–25 September 2010, Raystown, PA. Agenda & abstracts.* Greenbelt, MD, NASA/Goddard Space Flight Center, digital media, 14. (<http://neptune.gsfc.nasa.gov/wais/pastmeetings/abstracts10.pdf>.)
- Cochran, J.R., K.J. Tinto, S.H. Elieff and R.E. Bell. 2011. Systematic analysis of resolution and uncertainties in gravity interpretation of bathymetry beneath floating ice. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA.* Washington, DC, American Geophysical Union, C41E-0451, digital media. (<http://sites.agu.org/fallmeeting/scientific-program/>.)
- Cogley, J.G. 1979. The albedo of water as a function of latitude. *Mon. Weather Rev.*, **107**(6), 775–781. (10.1175/1520-0493(1979)107<0775:TAOWAA>2.0.CO;2.)

- Cogley, J.G. 1984. Deglacial hypsometry of Antarctica. *Earth Planet. Sci. Lett.*, **67**(3), 284–296. (10.1016/0012-821X(84)90168-7.)
- Cogley, J.G. 2005. Mass and energy balances of glaciers and ice sheets. In Anderson, M.G., ed. *Encyclopedia of hydrological sciences, Vol. 4*. Chichester, etc., John Wiley & Sons, digital media. (Part 14.) (10.1002/0470848944.hsa171.)
- Cogley, J.G. 2009a. A more complete version of the world glacier inventory. *Ann. Glaciol.*, **50**(53), 32–38. (10.3189/172756410790595859.)
- Cogley, G. 2009b. Disintegrating ice shelves. *environmentalresearchweb*, digital media. (<http://environmentalresearchweb.org/blog/2009/05/disintegrating-ice-shelves.html>.)
- Cogley, G. 2009c. Dynamic thinning: just add warm water? *environmentalresearchweb*, digital media. (<http://environmentalresearchweb.org/blog/2009/10/dynamic-thinning-just-add-warm.html>.)
- Cogley, G. 2009d. Fjords and unstable glacier behaviour. *environmentalresearchweb*, digital media. (<http://environmentalresearchweb.org/blog/2009/09/fjords-and-unstable-glacier-be.html>.)
- Cogley, G. 2009e. Greenhouse gas and the Gamburtsev Mountains. *environmentalresearchweb*, digital media. (<http://environmentalresearchweb.org/blog/2009/08/greenhouse-gas-and-the-gamburt.html>.)
- Cogley, G. 2009f. One of glaciology's bigger surprises. *environmentalresearchweb*, digital media. (<http://environmentalresearchweb.org/blog/2009/06/one-of-glaciologys-bigger-surp.html>.)
- Cogley, G. 2009g. Out-of-the-way glaciers. *environmentalresearchweb*, digital media. (<http://environmentalresearchweb.org/blog/2009/10/out-of-the-way-glaciers.html>.)
- Cogley, G. 2009h. PDFs, fat tails and collapsing ice sheets. *environmentalresearchweb*, digital media. (<http://environmentalresearchweb.org/blog/2009/07/pdfs-fat-tails-and-collapsing.html>.)
- Cogley, G. 2009i. Things that live in glaciers. *environmentalresearchweb*, digital media. (<http://environmentalresearchweb.org/blog/2009/10/things-that-live-in-glaciers.html>.)
- Cohen, T. 2006. Heart recipient returns after scaling Antarctic mountain. *Western Star [Corner Brook]*, 27 December, 7.
- Coleman, A.P. 1933. Ice ages and the drift of continents. *J. Geol.*, **41**(4), 409–417. (www.jstor.org/stable/30058970.)
- Collerson, K.D. and J.W. Sheraton. 1985. Geochemistry and Sr isotope systematics of Proterozoic diabase dykes in the Vestfold Block, Antarctica; inferences about the character of ancient sub-Gondwana lithosphere. [Abstract.] *Eos, Trans. AGU*, **66**(46), Fall Meet. Suppl., 1110.
- Collins, K.T. and J.M. Terhune. 2007. Geographic variation of Weddell seal (*Leptonychotes weddellii*) airborne mother–pup vocalisations. *Polar Biol.*, **30**(11), 1373–1380. (10.1007/s00300-007-0297-8.)
- Collins, K.T., T.L. Rogers, J.M. Terhune, P.D. McGreevy, K.E. Wheatley and R.G. Harcourt. 2005. Individual variation of in-air female "pup contact" calls in Weddell seals, *Leptonychotes weddellii*. *Behaviour*, **142**(2), 167–189. (10.1163/1568539053627668.)
- Collins, K.T., J.M. Terhune, T.L. Rogers, K.E. Wheatley and R.G. Harcourt. 2006. Vocal individuality of in-air Weddell seal (*Leptonychotes Weddellii*) pup "primary" calls. *Mar. Mammal Sci.*, **22**(4), 933–951. (10.1111/j.1748-7692.2006.00074.x.)
- Collins, R.E. and J.W. Deming. 2012. hima: a meta-database for genomes and metagenomes from cold environments. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 2480, digital media. (<http://tinyurl.com/ndatqgs>.)
- Colombo-Hixson, S.M., R.E. Olsen, J.E. Milley and S.P. Lall. 2011. Lipid and fatty acid digestibility in *Calanus* copepod and krill oil by Atlantic halibut (*Hippoglossus hippoglossus* L.). *Aquaculture*, **313**(1–4), 115–122. (10.1016/j.aquaculture.2010.12.020.)

- Colville, E.J., A.E. Carlson, B.L. Beard, J.S. Stoner and C. Hillaire-Marcel. 2010. Relative contributions of Greenland and Antarctica ice to the MIS 5e sea level highstand. *40th International Arctic Workshop, 10–12 March 2010, Winter Park, Colorado. Program with abstracts*. Boulder, CO, University of Colorado. Institute of Arctic and Alpine Research, digital media. (http://instaar.colorado.edu/AW/abstract_details.php?abstract_id=15.)
- Colville, E.J., A.E. Carlson, B.L. Beard, J.S. Stoner and C. Hillaire-Marcel. 2010. Relative Greenland and Antarctic ice sheet contributions to sea level during Marine Isotope Stage 5e. [Abstract.] *Geochim. Cosmochim. Acta*, **74**(12), Supplement, Goldschmidt Conference 2010, A186. (www.goldschmidt2010.org/abstracts/view.)
- Commission canadienne des affaires polaires (CCAP). 2012. *Commission canadienne des affaires polaires 2011–2012 rapport annuel*. Ottawa, Ont., Commission canadienne des affaires polaires. (www.polarcom.gc.ca/sites/default/files/ar_french_jan_17_.pdf.)
- Committee on Principles of Environmental Stewardship for the Exploration and Study of Subglacial Environments. 2007. *Exploration of Antarctic subglacial aquatic environments: environmental and scientific stewardship*. Washington, DC, National Academy of Sciences. National Academies Press. (Committee members included G.K.C. Clarke and W.F. Vincent.) (http://books.nap.edu/catalog.php?record_id=11886.)
- Conlan, K.E. 1998. Influence of the McMurdo Station sewage outfall on coastal marine fauna. In Hassan, A., ed. *Antarctic ecosystems: models for wider ecological understanding. VIIth SCAR Biological Symposium, 31 August–4 September 1998, Christchurch, New Zealand. Abstracts*. Canterbury, New Zealand, NZNS Editorial Committee, 36. (New Zealand Natural Sciences Supplement 23.)
- Conlan, K. 1999. Influence of contaminants from McMurdo Station on Antarctic marine benthos. *CARN Newsl.*, **8–9**, 9–10. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/8-9.pdf.)
- Conlan, K. 2001a. Report on the VIII SCAR International Biology Symposium, Vrije Universiteit, Amsterdam, The Netherlands, 27 August–1 September 2001. *CARN Newsl.*, **13**, 10. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/13.pdf.)
- Conlan, K.E. 2001b. Reports on SCAR Working Groups meetings, Tokyo, July 2000. Working Group on Biology. *CARN Newsl.*, **12**, 9–10. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/12.pdf.)
- Conlan, K. 2001c. Shocking penguin plunge an initiation to the Antarctic. *Ottawa Citizen*, 28 December, D.9.
- Conlan, K. 2002a. SCAR report: Life Sciences Scientific Standing Group. *CARN Newsl.*, **15**, 8. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/15.pdf.)
- Conlan, K. 2002b. Serendipity and where it might lead: opportunities for studying in the Arctic and Antarctic. *Sci. Career Mag.*, digital media. (<http://tinyurl.com/m2cjey4>.)
- Conlan, K. 2002c. *Under the ice*. Toronto, Ont., Kids Can Press Ltd.
- Conlan, K. 2003. Serendipity and where it might lead: opportunities for studying the Arctic and Antarctic / Les événements fortuits et leur aboutissement: possibilités d'étudier l'Arctique et l'Antarctique. *Meridian/Méridien*, **2003**, 17–18. (www.polarcom.gc.ca/uploads/Publications/Meridian%20Newsletter/meri_03_fall_en.pdf.)
- Conlan, K. 2005a. Field work at McMurdo Station, Antarctica, October–December 2004. *CARN Newsl.*, **19**, 3. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/19.pdf.)
- Conlan, K. 2005b. Report on the IX SCAR International Biology Symposium, held at Curitiba, Brazil, 25–29 July 2005. *CARN Newsl.*, **20**, 15. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/20.pdf.)
- Conlan, K. 2005c. SCAR Life Sciences Standing Scientific Group (LSSSG). Report of the meeting at SCAR XXVIII, 25–31 July 2004, Bremen, Germany. *CARN Newsl.*, **19**, 8–9. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/19.pdf.)

- Conlan, K.E. 2007. Ice disturbance and colonisation. In Riffenburgh, B., ed. *Encyclopedia of the Antarctic, Vol. 1*. New York, NY, Routledge. Taylor and Francis Group, 508–510.
- Conlan, K. and E. Carmack. 2002. Students on Ice cruise affords opportunity for research at Deception Island. *CARN Newsl.*, **14**, 8–12. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/14.pdf)
- Conlan, K.E., G.H. Rau, G.A. McFeters and R.G. Kvitek. 2000. Influence of McMurdo Station sewage on Antarctic marine benthos: evidence from stable isotopes, bacteria, and biotic indices. In Davison, W., C. Howard-Williams and P. Broady, eds. *Antarctic ecosystems: models for wider ecological understanding*. Canterbury, New Zealand, Caxton Press. New Zealand Natural Sciences, 315–318.
- Conlan, K.E., S.L. Kim, H.S. Lenihan and J.S. Oliver. 2003. Benthic community changes at McMurdo Station: a response to sewage abatement? In Huiskes, A.H.L., W.W.C. Gieskes, J. Rozema, R.M.L. Schorno, S.M. van der Vies and W.J. Wolff, eds. *VIIIth SCAR International Biology Symposium, 27 August–1 September 2001, Amsterdam, Netherlands. Proceedings*. Leiden, The Netherlands, Backhuys Publishers, 264–270.
- Conlan, K.E., S.L. Kim, H.S. Lenihan and J.S. Oliver. 2004. Benthic changes during 10 years of organic enrichment by McMurdo Station, Antarctica. *Mar. Pollut. Bull.*, **49**(1–2), 43–60. (10.1016/j.marpolbul.2004.01.007.)
- Conlan, K.E., G.H. Rau and R.G. Kvitek. 2006. $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ shifts in benthic invertebrates exposed to sewage from McMurdo Station, Antarctica. *Mar. Pollut. Bull.*, **52**(12), 1695–1707. (10.1016/j.marpolbul.2006.06.010.)
- Conlan, K.E., S.L. Kim, A.R. Thurber and E. Hendrycks. 2010. Benthic changes at McMurdo Station, Antarctica following local sewage treatment and regional iceberg-mediated productivity decline. *Mar. Pollut. Bull.*, **60**(3), 419–432. (10.1016/j.marpolbul.2009.10.009.)
- Conner, S. 2005. The coolest house on the planet: the British Antarctic Survey's spectacular new base camp can sleep up to 52 scientists, withstand freezing polar winds and ski itself out of danger. *Hamilton Spectator*, 20 July, A.12.
- Conover, R.J. and M. Huntley. 1991. Copepods in ice-covered seas — distribution, adaptations to seasonally limited food, metabolism, growth patterns and life cycle strategies in polar seas. *J. Mar. Syst.*, **2**(1–2), 1–41. (10.1016/0924-7963(91)90011-I.)
- Conway, H., L. Gray and F. Ng. 2004. Fast-flow signatures on Kamb Ice Stream. *Eleventh Annual WAIS Workshop, 29 September – 2 October 2004, Algonkian Meeting Center, Sterling, Virginia, U.S.A. Agenda & abstracts*. Boulder, CO, National Snow and Ice Data Center. West Antarctic Ice Sheet Initiative (WAIS), digital media. (www.waisworkshop.org/pastmeetings/abstracts04/Conway.htm.)
- Cooper, A.K., P.E. O'Brien, C. Richter and Shipboard Science Party. 2000. Neogene glacial record for Prydz Bay (Antarctica) from continental rise drilling on ODP leg 188. [Abstract OS21E-02.] *Eos, Trans. AGU*, **81**(48), Fall Meet. Suppl., F742–F743. (Shipboard Scientific Party (that includes N.N. Januszczak and B. Taylor.) (www.agu.org/meetings/fm00/waisfm00.html.)
- Cooper, A.K. and 26 others (the Ocean Drilling Program, Leg 188, Shipboard Scientific Party that includes N.N. Januszczak and B. Taylor). 2004. *Proceedings of the Ocean Drilling Program: scientific results; Prydz Bay–Cooperation Sea, Antarctica; glacial history and paleoceanography; covering Leg 188 of the cruises of the drilling vessel JOIDES Resolution; Fremantle, Australia, to Hobart, Tasmania; Sites 1165–1167; 10 January–11 March 2000. Vol. 188*. College Station, TX, Texas A&M University. Ocean Drilling Program, August. (10.2973/odp.proc.sr.188.2004.)
- Copland, L., W. Lawson and B. Goodsell. 2006. A century of change at the McMurdo Ice Shelf, Antarctica. *International Symposium on Cryospheric Indicators of Global Climate Change, 21–25 August 2006, Cambridge, England*. Cambridge, UK, International Glaciological Society, presentation.
- Copland, L. 2009. IPY Antarctic University Expedition: February 2009. *CARN Newsl.*, **26**, 1–2. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN26.pdf)

- Cordoza, Y. 2004a. Diving's a thrill in Antarctica. *Edmonton J.*, F.6.
- Cordoza, Y. 2004b. The greatest show on ice. *Gazette [Montréal]*, 31 December, I.6.
- Cormier, Z. 2007. Look out below: Antarctica, the new hot real estate; there's oil and gas in the Antarctic, too, which global warming may open up. But as the U.K. and others stake claims, scientists wonder what it would cost environments there, and ultimately the planet. *Toronto Star*, 18 November, ID.1.
- Cosme, E., F. Hourdin, C. Genthon and P. Martinerie. 2005. Origin of dimethylsulfide, non-sea-salt sulfate, and methanesulfonic acid in eastern Antarctica. *J. Geophys. Res.*, **110**(D3), D03302. (10.1029/2004JD004881.)
- Cota, G.F. and R.E.H. Smith. 1991. Ecology of bottom ice algae. II. Dynamics, distribution and productivity. *J. Mar. Syst.*, **2**(3–4), 279–295. (10.1016/0924-7963(91)90037-U.)
- Cota, G.F., L. Legendre, M. Gosselin and R.G. Ingram. 1991. Ecology of bottom ice algae. I. Environmental controls and variability. *J. Mar. Syst.*, **2**(3–4), 257–277. (10.1016/0924-7963(91)90036-T.)
- Côté, S.D. 2000. Aggressiveness in king penguins in relation to breeding status and territory location. *Anim. Behav.*, **59**(4), 813–821. (10.1006/anbe.1999.1384.)
- Côté, S.D. 2005. King penguins in the Crozet Archipelago. *CARN Newsl.*, **19**, 13. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/19.pdf.)
- Côté, S.D. and G. Dewasmes. 1999. Do sleeping king penguins influence the movement of conspecifics through a colony? *Polar Biol.*, **22**(1), 13–16. (10.1007/s003000050385.)
- Coulon, F., É. Pelletier, R. St Louis, L. Gourhant and D. Delille. 2004. Degradation of petroleum hydrocarbons in two sub-Antarctic soils: influence of an oleophilic fertilizer. *Environ. Toxicol. Chem.*, **23**(8), 1893–1901. (10.1897/03-484.)
- Coulon, F., É. Pelletier, L. Gourhant and D. Delille. 2005. Effects of nutrient and temperature on degradation of petroleum hydrocarbons in contaminated sub-Antarctic soil. *Chemosphere*, **58**(10), 1439–1448. (10.1016/j.chemosphere.2004.10.007.)
- Coulson, I.M., M. Beech and W. Nie. 2007. Physical properties of Martian meteorites: porosity and density measurements. *Meteor. & Planet. Sci.*, **42**(12), 2043–2054. (10.1111/j.1945-5100.2007.tb01006.x.)
- Court, G.S. and 6 others. 1997. Chlorinated hydrocarbons in the tissues of South Polar skuas (*Catharacta maccormicki*) and Adélie Penguins (*Pygoscelis adeliae*) from Ross Sea, Antarctica. *Environ. Pollut.*, **97**(3), 295–301. (10.1016/S0269-7491(97)00080-8.)
- Couture, N. 2001. Advancing Canadian interests in subglacial lake and deep ice research in Antarctica. In Löken, O.H. and N.J. Couture, eds. *Subglacial lake and deep ice exploration: Canadian expertise and international opportunities*. Ottawa, Ont., Canadian Polar Commission, May, 26–28. (http://www.polarcom.gc.ca/english/antarctic/pdf/antarctic_subglacial_en.pdf)
- Couture, P. 2004. *Ice: beauty, danger, history*. Toronto, Ont., McArthur & Company.
- Couture, C., C. Payne and P. Tortell. 2011. Biogenic gas distributions along frontal zones in the Southern Ocean. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **634**, 142. (http://epic.awi.de/29981/1/Fah2011b.pdf.)
- Cowan, D.A. and 6 others (including W.F. Vincent). 2011. Non-indigenous microorganisms in the Antarctic: assessing the risks. *Trends Microbiol.*, **19**(11), 540–548. (10.1016/j.tim.2011.07.008.)
- Cowper, D.N.B. and M. Steele. 1993. *RV Nathaniel B. Palmer winter ice tests in Antarctica: ice-propeller interaction*. Montréal, Que., Transport Canada. Transportation Development Centre, August. (TDC Report TP-11632E.)
- Cragin, J.H., M.B. Giovinetto and A.J. Gow. 1987. Baseline acidity of precipitation at the South Pole during the last two millennia. *Geophys. Res. Lett.*, **14**(8), 789–792. (10.1029/GL014i008p00789.)

- Craig, D.A., D.C. Currie and P. Vernon. 2003. *Crozetia* Davies (Diptera: Simuliidae): redescription of *Cr. crozetensis*, *Cr. seguyi*, number of larval instars, phylogenetic relationships and historical biogeography. *Zootaxa*, **259**, 1–39. (www.mapress.com/zootaxa/2003f/z00259f.pdf.)
- Craig, H., R.F. Weiss and W.B. Clarke. 1967. Dissolved gases in the Equatorial and south Pacific Ocean. *J. Geophys. Res.*, **72**(24), 6165–6181. (10.1029/JZ072i024p06165.)
- Cranston, R.E. 1991a. Chapter 50. Higher resolution geochemical data, Leg 119. In Barron, J.A. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, September, 903–931. (Data Report.) (10.2973/odp.proc.sr.119.174.1991.)
- Cranston, R.E. 1991b. Chapter 21. Sedimentation rate estimates from sulfate and ammonia gradients. In Barron, J.A. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, September, 401–405. (10.2973/odp.proc.sr.119.172.1991.)
- Cranston, R.E. 1991c. Chapter 20. Testing a higher resolution interstitial-water method for the Ocean Drilling Program. In Barron, J.A. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, September, 393–399. (10.2973/odp.proc.sr.119.173.1991.)
- Craven, J.D., J.S. Murphree, L.A. Frank and L.L. Cogger. 1991. Simultaneous optical observations of transpolar arcs in the two polar caps. *Geophys. Res. Lett.*, **18**(12), 2297–2300. (10.1029/91GL02308.)
- Cresswell, R.G. 1988. Meteorite concentrations in Antarctica: sites of katabatic wind ablation? *Geophys. Res. Lett.*, **15**(4), 342–345. (10.1029/GL015i004p00342.)
- Cresswell, R.G. 1994. ¹⁴C terrestrial ages and weathering activities of meteorites using CO and CO₂ fractions from step-wise temperature extractions. Ph.D. thesis, Department of Geology, University of Toronto, Toronto, Ont., 206 pp.
- Cresswell, R.G. and J.C. Rucklidge. 1989. Radiocarbon in meteorites. *GAC/MAC Joint Annual Meeting, 15–17 May 1989, Montréal, Quebec. Program with Abstracts, Vol. 14*. Geological Association of Canada and Mineralogical Association of Canada, A129–A130.
- Cresswell, R.G., R.P. Beukens, J.C. Rucklidge and Y. Miura. 1990. Radiocarbon in meteorites; when an age is not an age. [Abstract.] *Meteoritics*, **25**(4), 54th Annual Meteoritical Soc. Meet., 355. (10.1111/j.1945-5100.1990.tb00722.x.)
- Cresswell, R.G., R.P. Beukens, J.C. Rucklidge and Y. Miura. 1993a. ¹⁴C terrestrial ages and weathering activities in CO and CO₂ temperature extractions from nine Antarctic meteorites. *GAC/MAC 93, 18th Joint Annual Meeting, Geological Association of Canada and Mineralogical Association of Canada, 17–19 May 1993, Edmonton, Alberta. Program with Abstracts*. Waterloo, Ont., Geological Association of Canada, A21.
- Cresswell, R.G., Y. Miura, R.P. Beukens and J.C. Rucklidge. 1993b. ¹⁴C terrestrial ages of nine Antarctic meteorites using CO and CO₂ temperature extractions. *Proc. NIPR Symp. Ant. Meteorites*, **6**, 381–390.
- Cresswell, R.G., R.P. Beukens and J.C. Rucklidge. 1993c. Separation of spallation and terrestrial C-14 in chondrites. *Twenty-Fourth Lunar and Planetary Science Conference, 15–19 March 1993, Houston, Texas*. Houston, TX, Lunar and Planetary Institute, Abstract #1172, digital media. (LPI Contribution No.1590.) (www.lpi.usra.edu/meetings/lpsc1993/pdf/1172.pdf.)
- Crevier, L.-P. 1998. Dependence of the transport in channel models of the ACC [Antarctic Circumpolar Current] on the Rossby radius of deformation. M.Sc. thesis, Department of Atmospheric and Oceanic Sciences, McGill University, Montréal, Que., xi + 81 pp. (<http://tinyurl.com/pds3y22>.)

- Crevier, Y., K. Jezek, M. Drinkwater and E. Sarukhanian. 2008. An acquisition strategy for SAR and InSAR data - coordinated response of the space agencies to IPY science objectives. *In* Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S4.3/O03, 408.
- Crevier, Y., M. Drinkwater and K. Jezek. 2010. IPY-STG SAR coordination group synopsis and lessons learned. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382880, digital media. (www.ipy-osc.no/abstract/382880.)
- Crevier, Y., G. Rigby, D. Werle, K. Jezek and D. Ball. 2010. A RADARSAT-2 snapshot of Antarctica during the 2007–08 IPY. *CARN Newsl.*, **28**, 1–5. (<http://tinyurl.com/o75uprr>.)
- Creys, T.T. and C.G. Schoof. 2009. Stability and drainage of subglacial water systems. *2009 WAIS/FRISP Workshop, 16th Annual WAIS Workshop, September 27–29, 2009, Pack Forest Conference Center, Eatonville, Washington. Agenda & abstracts*. Greenbelt, MD, NASA/Goddard Space Flight Center, digital media. (www.waisworkshop.org/pastmeetings/PPT09/Creys.ppt.)
- Creys, T.T. and C. Schoof. 2010. Drainage of subglacial water systems beneath ice sheets. *Chapman Conference on the Exploration and Study of Antarctic Subglacial Aquatic Environments (SAE), 15–17 March 2010, Baltimore, Maryland, USA*. Washington, DC, American Geophysical Union, Abstract, 15–16. (www.agu.org/meetings/chapman/2010/ccall/pdf/Program_Book.pdf.)
- Crill, B.P. and 36 others (including L. Miglio and C.B. Netterfield). 2003. BOOMERANG: a balloon-borne millimeter-wave telescope and total power receiver for mapping anisotropy in the cosmic microwave background. *Astrophys. J. Suppl.*, **148**(2), 527–541. (10.1086/376894.)
- Croasdale, K.R. 1986. Arctic offshore technology and its relevance to Antarctica. *Antarctic Treaty System, an assessment. Proceedings of a Workshop held at Beardmore South Field Camp, Antarctica, January 7–13, 1985*. Washington, DC, National Academy Press. National Research Council, Polar Research Board, 245–263.
- Crocker, G.B. 1989. Influence of snow cover on the growth of Antarctic fast ice. *Proc. East. Snow Conf.*, **46th**, Annual Meeting, 8–9 June 1989. Québec, Que., Canada, 156–164.
- Crocker, K.M., M.E. Ondrusek, R.L. Petty and R.C. Smith. 1995. Dimethylsulfide, algal pigments and light in an Antarctic *Phaeocystis* sp. bloom. *Mar. Biol.*, **124**(2), 335–340. (10.1007/BF00347137.)
- Crocket, J.H. and H.Y. Kuo. 1979. Sources for gold, palladium and iridium in deep-sea sediments. *Geochim. Cosmochim. Acta*, **43**(6), 831–842. (10.1016/0016-7037(79)90222-9.)
- Crockett, E.L., B.D. Sidell and W.R. Driedziec. 1988. Metabolic fuel preference in muscle tissues from an Antarctic fish, *Notothenia gibberifrons*. [Abstract 205.] *Am. Zool.*, **28**(4), A42. (www.jstor.org/stable/3883376.)
- Cronenwett, P.N. 1995. Book review. To the Sixth Continent: The Second German South Polar Expedition by Wilhelm Filchner; William Barr. *Arct. Alp. Res.*, **27**(4), 416–417. (10.2307/1552038.)
- Croot, P.L. and 8 others (including M.T. Maldonado). 2001. Retention of dissolved iron and FeII in an iron induced Southern Ocean phytoplankton bloom. *Geophys. Res. Lett.*, **28**(18), 3425–3428. (10.1029/2001GL013023.)
- Cross, B. 2006. U of S telescope in place at South Pole. *On Campus News [Univ. Sask.]*, **13**(18), 19 May, digital media. (www.usask.ca/communications/ocn/06-may-19/feature03.shtml.)
- Crossin, G.T., P.N. Trathan, R.A. Phillips, A. Dawson, F. Le Bouard and T.D. Williams. 2010. A carryover effect of migration underlies individual variation in reproductive readiness and extreme egg size dimorphism in macaroni penguins. *Am. Natur.*, **176**(3), 357–366. (10.1086/655223.)

- Crossin, G.T. and 6 others (including K.B. Gorman and T.D. Williams). 2012a. Corticosterone predicts foraging behavior and parental care in Macaroni penguins. *Am. Natur.*, **180**(1), E31–E41. (10.1086/666001.)
- Crossin, G.T. and 6 others (including K.E. Wynne-Edwards and T.D. Williams). 2012b. Migratory carryover effects and endocrinological correlates of reproductive decisions and reproductive success in female albatrosses. *Gen. Comp. Endocrinol.*, **176**(2), 151–157. (10.1016/j.ygcen.2012.01.006.)
- Crossin, G.T. and 6 others (including T.D. Williams). 2012c. Migratory constraints on yolk precursors limit yolk androgen deposition and underlie a brood reduction strategy in rockhopper penguins. *Biol. Lett.*, **8**(6), 1055–1058. (10.1098/rsbl.2012.0476.)
- Crossin, G.T., P.N. Trathan and T.D. Williams. 2012d. Potential mode of clutch size determination and follicle development in *Eudyptes* penguins. *Polar Biol.*, **35**(2), 313–317. (10.1007/s00300-011-1065-3.)
- Crossin, G.T. and 6 others (including K.B. Gorman and T.D. Williams). 2012e. Seasonal patterns of prolactin and corticosterone secretion in an Antarctic seabird that moults during reproduction. *Gen. Comp. Endocrinol.*, **175**(1), 74–81. (10.1016/j.ygcen.2011.10.003.)
- Cuffey, K.M. and J.L. Kavanaugh. 2011. How nonlinear is the creep deformation of polar ice? A new field assessment. *Geology*, **39**(11), 1027–1030. (10.1130/G32259.1.)
- Cuffey, K.M. and W.S.B. Paterson. 2010. *The physics of glaciers. Fourth edition*. Amsterdam, etc., Elsevier. Butterworth-Heinemann. (www.elsevierdirect.com/companion.jsp?ISBN=9780123694614.)
- Cuffey, K.M., J.L. Kavanaugh, D.L. Morse, S. Aciego and A. Bliss. 2005. Dynamics and evolution of Taylor Glacier, Antarctica. [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., C31A-1103. (www.agu.org/meetings/fm05/waisfm05.html.)
- Cullen, J.J. and P.J. Neale. 1993. Quantifying the effects of ultraviolet radiation on aquatic photosynthesis. In Yamamoto, H.Y. and C.M. Smith, eds. *Photosynthetic responses to the environment*. Washington, DC, American Society of Plant Physiologists, 45–60.
- Cullen, J.J., P.J. Neale and M.P. Lesser. 1992. Biological weighting function for the inhibition of phytoplankton photosynthesis by ultraviolet radiation. *Science*, **258**(5082), 646–650. (10.1126/science.258.5082.646.)
- Cullis-Suzuki, S. and D. Pauly. 2010. Failing the high seas: a global evaluation of regional fisheries management organizations. *Mar. Policy*, **34**(5), 1036–1042. (10.1016/j.marpol.2010.03.002.)
- Curran, P. 2011. Antarctic mission emboldens McGill students' passion. *Gazette [Montréal]*, 25 March, A.4.
- Currie, P.J. 2004. Hunting dinosaurs in Antarctica. *CARN Newsl.*, **18**, 14. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/18.pdf.)
- Curtosi, A., É. Pelletier and C. Vodopivec. 2004. Estudio preliminar sobre la concentración de hidrocarburos aromáticos policíclicos (HAPs) en suelo y sedimento, en los alrededores de la Base Científica Argentina Jubany. Isla 25 de mayo, Shetland del Sur, Antártida [Preliminary study on the concentration of polycyclic aromatic hydrocarbons (PAHs) in soil and sediment around the Argentine scientific base Jubany, King George Island, South Shetlands, Antarctica]. *Actas del V° Simposio Argentino y I° Latinoamericano sobre Investigaciones Antárticas, 30 Agosto - 3 Septiembre 2004, Buenos Aires, Argentina*. Buenos Aires, Dirección Nacional del Antártico. Instituto Antártico Argentino, CD-ROM, 301FQ. [In Spanish] (www.dna.gov.ar/CIENCIA/SANTAR04/CD/PDF/301FQ.PDF.)
- Curtosi, A., E. Pelletier, W.P. MacCormack and C. Vodopivec. 2005. Initial studies about the presence and distribution of PAHs in soil and sediments from Jubany Station, Antarctica. [Abstract.] *Terra Nostra [Bonn]*, **2005-3**, 22. Int. Polartagung, 37–38.
- Curtosi, A., E. Pelletier, C.L. Vodopivec and W.P. Mac Cormack. 2007. Polycyclic aromatic hydrocarbons in soil and surface marine sediment near Jubany Station (Antarctica). Role of permafrost as a low-permeability barrier. *Sci. Total Environ.*, **383**(1–3), 193–204. (10.1016/j.scitotenv.2007.04.025.)

- Curtosi, A., É. Pelletier, C. Vodopivez and W.P. Mac Cormack. 2008a. Distribution pattern of polycyclic aromatic hydrocarbons in soil, surface marine sediments and suspended particulate matter in the seawater column near Jubany Station (Antarctica). *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **571**, 348–356. (<http://epic.awi.de/28602/1/Wie2008b.pdf>.)
- Curtosi, A., É. Pelletier, C.L. Vodopivez and W.P. MacCormack. 2008b. Permafrost acting as a low-permeability barrier for downward migration of polycyclic aromatic hydrocarbons in Antarctica. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S1.3/P03, 118.
- Curtosi, A., É. Pelletier, C.L. Vodopivez and W.P. Mac Cormack. 2009. Distribution of PAHs in the water column, sediments and biota of Potter Cove, South Shetland Islands, Antarctica. *Antarct. Sci.*, **21**(4), 329–339. (10.1017/S0954102009002004.)
- Curtosi, A., E. Pelletier, C. Vodopivez, R. St Louis and W.P. Mac Cormack. 2010a. Presence and distribution of persistent toxic substances in sediments and marine organisms of Potter Cove, Antarctica. *Arch. Environ. Contam. Toxicol.*, **59**(4), 582–592. (10.1007/s00244-010-9509-2.)
- Curtosi, A., E. Pelletier, C.L. Vodopivez, R. St-Louis and W.P. Mac Cormack. 2010b. Presence and distribution of some persistent toxic substances in sediments and marine organisms of Potter Cove, Antarctica. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 184, CD-ROM.
- Cutler, M. 1999a. Ernest Shackleton's Magnificent Failure: Part 1: Stranded on the ice pack in the harshest environment on Earth, a-less-than-fabled Antarctic explorer showed the world he had the right stuff. *Ottawa Citizen*, 17 January, C.3.
- Cutler, M. 1999b. Ernest Shackleton's Magnificent Failure: Part 2: Stranded on the ice pack in the harshest environment on Earth, a-less-than-fabled Antarctic explorer showed the world he had the right stuff. *Ottawa Citizen*, 17 January, C.3.
- Cutler, M. 1999c. Ernest Shackleton's Magnificent Failure: Part 3: Stranded on the ice pack in the harshest environment on Earth, a-less-than-fabled Antarctic explorer showed the world he had the right stuff. *Ottawa Citizen*, 17 January, C.3.
- Cutler, M. 1999ddd. Ernest Shackleton's Magnificent Failure: Part 4: Stranded on the ice pack in the harshest environment on Earth, a-less-than-fabled Antarctic explorer showed the world he had the right stuff. *Ottawa Citizen*, 17 January, C.3.
- Daily Gleaner [Fredericton]. 2007. Cruise ship's oil threatens 2,500 Antarctic penguins. *Daily Gleaner [Fredericton]*, 1 December, A.9.
- Daily News [Halifax]. 2000. Group eyes Antarctic trash. *Daily News Halifax*, 30 August, 9.
- Daily News [Halifax]. 2001. Canada attempts Antarctic rescue: Calgary-based company tapped to retrieve sick doctor at South Pole research station. *Daily News Halifax*, 16 April, 9.
- Daily News [Kamloops]. 2010. Canadian Antarctic artifacts net \$600,000. *Daily News [Kamloops]*, 23 September, B.7.
- Daily Press [Timmins]. 2000. Arctic, Antarctic eyed as dinosaur gold mines. *Daily Press [Timmins]*, 29 August, 8.
- Daily Press [Timmins]. 2001. Calgary-based company part of Antarctic rescue. *Daily Press [Timmins]*, 16 April, 5.
- Daily Telegraph. 2008. Fritz Koerner: Glaciologist and polar explorer who with Wally Herbert's team made the first surface crossing of the Arctic Ocean. *Daily Telegraph*, 29 May, digital media. (www.telegraph.co.uk/news/obituaries/2050482/Fritz-Koerner.html#at.)

- Dalby, S. 1999. Book reviews. Dodds, K. 1997: Geopolitics in Antarctica: views from the southern oceanic rim. Chichester: Wiley. xvii + 252 pp. f45.00 cloth. ISBN: 0 471 96992 3. *Progr. Human Geogr.*, **23**(2), 308–309. (10.1177/030913259902300218)
- Daley, C.G., R. Brown, J. St. John and J.R. Meyer. 1985. *Polar class Antarctic 1984 ice impact tests.* Montréal, Que., Transport Canada. Transportation Development Centre. Report prepared by Arctec Canada Limited, March. (TDC Report TP-7184E.)
- Daley, C., J.W. St. John, R. Brown, J.R. Meyer and I.F. Glen. 1986. *Consolidation of local ice impact pressures measured aboard USCGC Polar Sea (1982–1984): final report* Montréal, Que., Transport Canada. Transportation Development Centre. Report prepared by Arctec Canada Limited, September. (TDC Report TP-8533E.)
- Dalla Rosa, L., E.R. Secchi, Y.G. Maia, A.N. Zerbini and M.P. Heide-Jørgensen. 2008. Movements of satellite-monitored humpback whales on their feeding ground along the Antarctic Peninsula. *Polar Biol.*, **31**(7), 771–781. (10.1007/s00300-008-0415-2.)
- Dalpe, Y., C. Plenchette, Y. Frenot, J.C. Gloaguen and D.G. Strullu. 2002. *Glomus kerguelense* sp. nov., a new Glomales species from sub-Antarctic. *Mycotaxon*, **84**, 51–60. (10.1175/1520-0493(1996)124<1711:EOTTSJ>2.0.CO;2.)
- Dalziel, J.A. 1995. Reactive mercury in the eastern North Atlantic and Southeast Atlantic. *Mar. Chem.*, **49**(4), 307–314. (10.1016/0304-4203(95)00020-R.)
- Dalziel, I.W.D., L.A. Lawver and J.B. Murphy. 1999. Plumes, orogenesis, supercontinental fragmentation and ice sheets. In Skinner, D.N.B., ed. *8th International Symposium on Antarctic Earth Sciences, Wellington, New Zealand. Programme and abstracts.* Wellington, Royal Society of New Zealand, 78.
- Dalziel, I.W.D., L.A. Lawver and J.B. Murphy. 2000. Plumes, orogenesis, and supercontinental fragmentation. *Earth Planet. Sci. Lett.*, **178**(1–2), 1–11. (10.1016/S0012-821X(00)00061-3.)
- Danell, K. and 9 others (including G. Gauthier and M. Gill). 2011. Chapter 2.9. Polar terrestrial ecology and biodiversity. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008.* Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 293–310. (CCI Occasional Publication 69.) (http://library.arcticportal.org/1211/1/IPY_Summary.pdf.)
- Danks, H.V. 1999. Life cycles in polar arthropods – flexible or programmed? . *Eur. J. Entomol.*, **86**(2), 83–102. (10.1016/j.ecss.2010.06.010.)
- Danninger, M. for the IceCube Collaboration (that includes D. Grant, S.C. Nowicki and T.R. Wood). 2012. Searches for dark matter with the IceCube detector. *J. Phys. Conf. Ser.*, **375**, Part 1, 012038. (the IceCube Collaboration.) (10.1088/1742-6596/375/1/012038.)
- Danskin, D.W., L. Trichtchenko and D.B. Boteler. 2008. Space weather events detected by globally-distributed riometers. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume.* Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S2.3/O11, 308.
- Darlington, A.L., T.S. James and E.R. Ivins. 2010. A comparison of observed Antarctic uplift rates with postglacial rebound model predictions. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA.* Washington, DC, American Geophysical Union, C21C-0563, digital media. (www.agu.org/cgi-bin/wais?ss=C21C-0563.)
- Darlington, A. 2012. Geophysical constraints on mantle viscosity and its influence on Antarctic glacial isostatic adjustment. M.Sc. thesis, School of Earth and Ocean Sciences, University of Victoria, Victoria, B.C., 97 pp. (<http://hdl.handle.net/1828/4001>.)
- Darroch-Lozowski, V. 1990. *Antarctica body.* Newcastle, Ont., Penumbra Press. (Human Studies Series 1.)

- Dash, P. *and 25 others* (including B. Brasnett). 2012. Group for High Resolution Sea Surface Temperature (GHR SST) Analysis Fields Inter-Comparisons: Part 2. Near real time web-based level 4 SST Quality Monitor (L4-SQUAM). *Deep-Sea Res. II*, **77–80**, 31–43. (10.1016/j.dsr2.2012.04.002.)
- Davey, F.J., G. Brancolini, R.J. Hamilton, S.A. Henrys, C.C. Sorlien and L.R. Bartek. 2000. A revised correlation of the seismic stratigraphy at the Cape Roberts drill sites with the seismic stratigraphy of the Victoria Land Basin, Antarctica. *Terra Ant.*, **7**(3), 215–220. (<http://tinyurl.com/mj2nw8w>.)
- Davidson, J. and J. Griffin. 2008. Volatility of unevenly sampled fractional Brownian motion; an application to ice core records. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., PP11C-1404. (www.agu.org/meetings/fm08/waisfm08.html.)
- Davidson, J. and J. Griffin. 2009. Volatility of unevenly sampled fractional Brownian motion: an application to ice core records. [Abstract.] *Eos, Trans. AGU*, **90**(22), Jt. Assem. Suppl., NG33B-07. (www.agu.org/meetings/ja09/waisja09.html.)
- Davidson, J. and J. Griffin. 2010. Volatility of unevenly sampled fractional Brownian motion: an application to ice core records. *Phys. Rev. E*, **81**(1), 016107. (10.1103/PhysRevE.81.016107.)
- Davidson, K. 1998. Microbes thriving within Antarctic ice: discovery of frozen, teeming communities hints life could have found a niche on Mars. *Globe & Mail [Toronto]*, 26 June, A.13.
- Davis, C.S. 2004. Phylogenetic relationships of the Phocidae and population genetics of ice breeding seals. Ph.D. thesis, Department of Biological Sciences, University of Alberta, Edmonton, Alta, 154 pp. (www.collectionscanada.gc.ca/obj/thesescanada/vol2/002/nq96255.pdf.)
- Davis, C.S., I. Stirling and C. Strobeck. 2000. Genetic diversity of Antarctic pack ice seals in relation to life history characteristics. In Davison, W., C. Howard-Williams and P. Broady, eds. *7th SCAR Biological Symposium, September 1998, Christchurch, New Zealand. Proceedings*. Canterbury, New Zealand, New Zealand Natural Sciences, 56–62.
- Davis, C.S., T.S. Gelatt, D. Siniff and C. Strobeck. 2002. Dinucleotide microsatellite markers from the Antarctic seals and their use in other Pinnipeds. *Mol. Ecol. Notes*, **2**(3), 203–208. (10.1046/j.1471-8286.2002.00187.x-i2.)
- Davis, C.S., I. Delisle, I. Stirling, D.B. Siniff and C. Strobeck. 2004. A phylogeny of the extant Phocidae inferred from complete mitochondrial DNA coding regions. *Mol. Phylogenetics Evol.*, **33**(2), 363–377. (10.1016/j.ympev.2004.06.006.)
- Davis, C.S., I. Stirling, C. Strobeck and D.W. Coltman. 2008. Population structure of ice-breeding seals. *Mol. Ecol.*, **17**(13), 3078–3094. (10.1111/j.1365-294X.2008.03819.x.)
- Davis, L.S. 1982. Timing of nest relief and its effect on breeding success in Adelie Penguins (*Pygoscelis adeliae*). *Condor*, **84**(2), 178–183. (www.jstor.org/stable/1367665.)
- Davis, P.T., B. Menounos and G. Osborn. 2009. Introduction. Holocene and latest Pleistocene alpine glacier fluctuations: a global perspective. *Quat. Sci. Rev.*, **28**(21–22), 2021–2033. (<http://tinyurl.com/oznmku8>.)
- Dawson, J. 2007. Book reviews. South of sixty: life on an Antarctic base (Mike Warr). *Polar Geogr.*, **30**(1–2), 79–80. (10.1080/10889370701666549.)
- Day, J.M.D. *and 8 others* (including K. Tait). 2011. Volatile-rich asteroid differentiation and links between felsic meteorites Graves Nunataks 06128 and 06129, brachinites and 'brachinite-like' achondrites. *Forty-Second Lunar and Planetary Science Conference, 7–11 March 2011, Woodlands, Texas*. Houston, TX, Lunar and Planetary Institute, Abstract #1456, digital media. (LPI Contribution No.1608.) (www.lpi.usra.edu/meetings/lpsc2011/pdf/1456.pdf.)
- Dayton, P., S. Kim, K. Conlan and S. Jarrell. 2012. Episodic growth of sponges on artificial structures in McMurdo Sound, Antarctica. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_35.pdf.)

- De Baar, H.J.W. *and 32 others* (including M. Levasseur, A. Marchetti and C.-S. Wong). 2005. Synthesis of iron fertilization experiments: from the Iron Age in the Age of Enlightenment. *J. Geophys. Res.*, **110**(C9), C09S16. (10.1029/2004JC002601.)
- De Bernardis, P. *and 35 others* (the BOOMERanG Collaboration, including J.R. Bond, L. Miglio, C.B. Netterfield, D. Pogosyan and S. Prunet). 2000. A flat universe from high-resolution maps of the cosmic microwave background radiation. *Nature*, **404**(6781), 955–959. (10.1038/35010035.)
- De Bernardis, P. *and 35 others* (including J.R. Bond, L. Miglio, C.B. Netterfield, D. Pogosyan and S. Prunet). 2001a. Images of the early universe from the BOOMERanG experiment. In Wheeler, J.C. and H. Martel, eds. *Relativistic Astrophysics, 20th Texas Symposium, 10–15 December 2000, Austin, Texas*. Washington, DC, American Institute of Physics, 157–171. (AIP Conference Proceedings 586.) (10.1063/1.1419548.)
- De Bernardis, P. *and 37 others* (including J.R. Bond, C.R. Contaldi, C.B. Netterfield, D. Pogosyan and S. Prunet). 2001b. ℓ -space spectroscopy of the Cosmic Microwave Background with the BOOMERanG experiment. In De Petris, M. and M. Gervasi, eds. *Experimental cosmology at millimetre wavelengths: 2K1BC Workshop, 9–13 July 2001, Valle d'Aosta, Italy*. Washington, DC, American Institute of Physics, 3–11. (AIP Conference Proceedings 616.) (10.1063/1.1475595.)
- De Bernardis, P. *and 34 others* (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, C.B. Netterfield, D. Pogosyan and S. Prunet). 2002. Multiple peaks in the angular power spectrum of the cosmic microwave background: significance and consequences for cosmology. *Astrophys. J.*, **564**(2), Part 1, 559–566. (10.1086/324298.)
- De Bernardis, P. *and 35 others* (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, C.B. Netterfield, D. Pogosyan and S. Prunet). 2003. Investigating the early Universe with the Cosmic Microwave Background anisotropy. *Mem. Soc. Astron. Ital.*, **74**(1), 75–84. (http://sait.oat.ts.astro.it/MSAIt740103/Memsait2003_V74n1PDF/vol74n1p75.pdf.)
- De Bernardis, P. *and 37 others* (the MaxiBoom Collaboration that includes J.R. Bond, C.B. Netterfield, D. Pogosyan and S. Prunet). 2005a. Detection of anisotropy in the Cosmic Microwave Background at horizon and sub-horizon scales with the BOOMERanG experiment. In Lasenby, A. and A. Wilkinson, eds. *New cosmological data and the values of the fundamental parameters. IAU Symposium 201, 7–11 August 2000, Manchester UK. Proceedings, Vol. 201*. San Francisco, CA, Astronomical Society of the Pacific, 55–64. (ASP Conference Series.)
- De Bernardis, P. *and 40 others* (including J.R. Bond, C.R. Contaldi, E. Pascale, C. MacTavish, C.B. Netterfield and D. Pogosyan). 2005b. Maps of the millimetre sky from the BOOMERanG experiment. In Colless, M., L. Staveley-Smith and R. Stathakis, eds. *Maps of the Cosmos, 14–17 July 2003, Sydney, Australia. Proceedings, Vol. 216*. San Francisco, CA, Astronomical Society of the Pacific, 35–42. (IAU Conference Series.)
- De Bruin, T.F., K. Finney, S. Gordon, H. Campbell and SCADM members (that includes P.L. Pulsifer). 2010a. SCADM, promoting and curating the vital data legacy of Antarctica. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 197, CD-ROM.
- De Bruin, T.F. *and 6 others* (the IPY Data Management Community that includes S. Tomlinson and E. LeDrew). 2010b. The state of polar data. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 196, CD-ROM.
- De Haan, T., G. Smecher and M. Dobbs. 2012. Improved performance of TES bolometers using digital feedback. In Holland, W.S. and J. Zmuidzinas, eds. *Millimeter, submillimeter, and far-infrared detectors and instrumentation for astronomy VI*. Bellingham, WA, International Society for Optical Engineering, 84520E. (SPIE Proceedings 8452, Part One.) (10.1117/12.925658.)

- De Jong, J. *and 9 others* (including D. Weis). 2007. Precise measurement of Fe isotopes in marine samples by multi-collector inductively coupled plasma mass spectrometry (MC-ICP-MS). *Anal. Chim. Acta*, **589**(1), 105–119. (10.1016/j.aca.2007.02.055.)
- De la Mare, W.K. 2009. Changes in Antarctic sea-ice extent from direct historical observations and whaling records. *Climatic Change*, **92**(3–4), 461–493. (10.1007/s10584-008-9473-2.)
- De los Heros, C.P. and for the IceCube Collaboration (that includes D. Grant, S.C. Nowicki and T.R. Wood). 2011. IceCube. *Nucl. Instrum. Meth. Phys. Res. A*, **630**(1), 119–124. (10.1016/j.nima.2010.06.042.)
- De Mazière, M. *and 25 others* (including P.F. Bernath, C. Boone, K. Strong, J. Taylor and K.A. Walker). 2008. Validation of ACE-FTS v2.2 methane profiles from the upper troposphere to the lower mesosphere. *Atmos. Chem. Phys. (ACP)*, **8**(9), Special Issue, 2421–2435. (10.5194/acp-8-2421-2008.)
- De Mille, J. 1888. *A strange manuscript found in a copper cylinder*. New York, NY, Harper & Brothers. London, Chatto & Windus.
- De Mille, J. 1969. *A strange manuscript found in a copper cylinder*. Toronto, Ont., McClelland and Stewart Ltd.
- De Mora, S.J., R.F. Whitehead and M. Gregory. 1994. The chemical composition of glacial melt water ponds and streams on the McMurdo Ice Shelf, Antarctica. *Antarct. Sci.*, **6**(1), 17–27. (10.1017/S0954102094000039.)
- De Mora, S.J., P.A. Lee, A. Grout, C. Schall and K.G. Heumann. 1996. Aspects of the biogeochemistry of sulphur in glacial melt water ponds on the McMurdo Ice Shelf, Antarctica. *Antarct. Sci.*, **8**(1), 15–22. (10.1017/S0954102096000041.)
- De Mora, S.J., D.J. Wylie and A.L. Dick. 1997. Methanesulphonate and non-sea-salt sulphate in aerosol, snow and ice on the East Antarctic plateau. *Antarct. Sci.*, **9**(1), 46–55. (10.1017/S0954102097000072.)
- De Mora, S., S. Demers and M. Vernet, eds. 2000. *The effects of UV radiation in the marine environment*. Cambridge, U.K., etc., Cambridge University Press. (Environmental Chemistry Series 10.) (10.1017/CBO9780511535444.)
- De Troia, G. *and 23 others* (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi and C.B. Netterfield). 2003. The trispectrum of the cosmic microwave background on subdegree angular scales: an analysis of the BOOMERanG data. *Mon. Not. R. Astron. Soc. (MNRAS)*, **343**(1), 284–292. (10.1046/j.1365-8711.2003.06665.x.)
- De Troia, G. *and 38 others* (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, C. MacTavish, C.B. Netterfield, E. Pascale and D. Pogosyan). 2007a. Searching for non-Gaussian signals in the BOOMERanG 2003 CMB map: preliminary results. *New Astron. Rev.*, **51**(3–4), 250–255. (10.1016/j.newar.2006.11.064.)
- De Troia, G. *and 40 others* (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, C. MacTavish, C.B. Netterfield, E. Pascale and D. Pogosyan). 2007b. Searching for non-Gaussian signals in the BOOMERanG 2003 CMB maps. *Astrophys. J. Lett.*, **670**(2), L73–L76. (10.1086/524402.)
- Dean, Wm.G. 1975. Reviews/Comptes rendus. Antarctic Adventure: Scott's Northern Party, by RAYMOND E. PRIESTLY, McClelland and Stewart Ltd., Toronto, 1974, 382 pp., cloth \$20.00. *Can. Geogr.*, **19**(4), 354–355. (10.1111/j.1541-0064.1975.tb01878.x.)
- DeBraga, M. 2003. The postcranial skeleton, phylogenetic position, and probable lifestyle of the Early Triassic reptile *Procolophon trigoniceps*. *Can. J. Earth Sci.*, **40**(4), 527–556. (10.1139/E02-082.)
- Deibel, D. and K.L. Daly. 2007. Chapter 9. Zooplankton processes in Arctic and Antarctic polynyas. In Smith, W., Jr and D. Barber, eds. *Polynyas: windows to the world*. Amsterdam, Elsevier, 271–322. (Oceanography Series 74.) (10.1016/S0422-9894(06)74009-0.)
- Delille, D. and É. Pelletier. 2002. Natural attenuation of diesel-oil contamination in a subantarctic soil (Crozet Island). *Polar Biol.*, **25**(9), 682–687. (10.1007/s00300-002-0400-0.)

- Delille, D., B. Delille, F. Gleizon, É. Pelletier, C. Prevost and Ch. Gerday. 2000a. *Essais de bioremediation de sédiments intertidaux subantarctiques artificiellement contaminés (BIOREN austral)*. Artix, France, Elf Aquitaine. (Rapport.)
- Delille, D., É. Pelletier and Ch. Gerday. 2000b. *Essais de traitement de la contamination accidentelle des sols de la base Alfred Faure (Ile de la Possession, Archipel de Crozet)*. Artix, France, Elf Aquitaine. (Rapport.)
- Delille, D., É. Pelletier and C. Gerday. 2000c. In situ bioremediation of oil spills in the Antarctic. In Shiraishi, K., ed. *Ninth Symposium on Antarctic Logistics and Operations (SCALOP), 12 July 2000, Tokyo, Japan. Proceedings*. Tokyo, Japan, Standing Committee on Antarctic Logistics and Operation (SCALOP), 177–194.
- Delille, D., E. Pelletier and Ch. Gerday. 2001a. Bioremediation of diesel oil contaminated sub-Antarctic soils (Crozet Island). In Leeson, A., M.E. Kelley, H.S. Rifai and V. Magar, eds. *Natural attenuation of environmental contaminants, Vol. 5*. Columbus, OH, Battelle Press, 57–64.
- Delille, D., É. Pelletier, F. Coulon and Ch. Gerday. 2001b. *Essais de bioremediation de deux sols subantarctiques artificiellement contaminés*. Artix, France, Elf Aquitaine. (Rapport.)
- Delille, D., B. Delille and É. Pelletier. 2002a. Effectiveness of bioremediation of crude oil contaminated sub-Antarctic intertidal sediment: the microbial response. *Microbial Ecol.*, **44**(2), 118–126. (10.1007/s00248-001-1047-Z.)
- Delille, D., É. Pelletier, F. Coulon and C. Gerday. 2002b. Effectiveness of crude oil biodegradation in Subantarctic soils. *SAME-8, Eighth Symposium on Aquatic Microbial Ecology, 25–30 October 2002, Taormina*. Messina, Consiglio Nazionale delle Ricerche. Istituto per l'Ambiente Marino Costiero.
- Delille, D., É. Pelletier, B. Delille and F. Coulon. 2003. Effect of nutrient enrichments on the bacterial assemblage of Antarctic soils contaminated by diesel or crude oil. *Polar Rec.*, **39**(4), 309–318. (10.1017/S0032247402002863.)
- Delille, D., F. Coulon and É. Pelletier. 2004a. Biostimulation of natural microbial assemblages in oil-amended vegetated and desert sub-Antarctic soils. *Microbial Ecol.*, **47**(4), 407–415. (10.1007/s00248-003-2024-5.)
- Delille, D., É. Pelletier, F. Coulon and C. Gerday. 2004b. Effectiveness of bioremediation process in hydrocarbon-contaminated Subantarctic soils. In Magar, V.S. and M.E. Kelley, eds. *In situ and on-site bioremediation 2003. Seventh International In Situ and On-Site Bioremediation Symposium, 2–5 June 2003, Orlando, Florida. Proceedings*. Columbus, OH, Battelle Press, CD-ROM.
- Delille, D., F. Coulon and É. Pelletier. 2004c. Effects of temperature warming during a bioremediation study of natural and nutrient-amended hydrocarbon-contaminated sub-Antarctic soils. *Cold Reg. Sci. Technol.*, **40**(1–2), 61–70. (10.1016/j.coldregions.2004.05.005.)
- Delille, D., É. Pelletier and F. Coulon. 2004d. The influence of temperature on bacterial assemblages during bioremediation of hydrocarbon contaminated sub-Antarctic soils. In Filler, D.M. and D.L. Barnes, eds. *Fourth International Conference on Contaminants in Freezing Ground, 30 May–3 June 2004, Fairbanks, Alaska. Abstracts with program*. Fairbanks, AK, University of Alaska, 39.
- Delille, D., É. Pelletier, F. Coulon, G. Feller and B. Delille. 2006. Tools for bioremediation of sub-Antarctic soils exposed to petroleum hydrocarbons. *CARN Newsl.*, **21**, 11–16. (www.polarcom.gc.ca/uploads/Publications/(CARN)/CARN21.pdf.)
- Delille, D., F. Coulon and E. Pelletier. 2007a. Long-term changes of bacterial abundance, hydrocarbon concentration and toxicity during a biostimulation treatment of oil-amended organic and mineral sub-Antarctic soils. *Polar Biol.*, **30**(7), 925–933. (10.1007/s00300-007-0252-8.)
- Delille, D., É. Pelletier and F. Coulon. 2007b. The influence of temperature on bacterial assemblages during bioremediation of a diesel fuel contaminated subAntarctic soil. *Cold Reg. Sci. Technol.*, **48**(2), 74–83. (10.1016/j.coldregions.2005.09.001.)

- Delille, D., A. Duval and É. Pelletier. 2008. Highly efficient pilot biopiles for on-site fertilization treatment of diesel oil-contaminated sub-Antarctic soil. *Cold Reg. Sci. Technol.*, **54**(1), 7–18. (10.1016/j.coldregions.2007.09.003.)
- Delille, D., É. Pelletier, A. Rodriguez-Blanco and J.-F. Ghiglione. 2009. Effects of nutrient and temperature on degradation of petroleum hydrocarbons in sub-Antarctic coastal seawater. *Polar Biol.*, **32**(10), 1521–1528. (10.1007/s00300-009-0652-z.)
- Delille, B. and 13 others (including G. Carnat). 2010a. Air–sea ice CO₂ fluxes: a tentative upscaling. [Abstract.] *Eos, Trans. AGU*, **91**(26), Ocean Sci. Meet. Suppl., CO35C-03. (www.agu.org/meetings/os10.)
- Delille, D., É. Pelletier and F. Coulon. 2010b. Chapter 13. Do fertilizers help in effective bioremediation of polycyclic aromatic hydrocarbons in polar soils? In Bej, A.K., J. Aislabie and R.M. Atlas, eds. *Polar microbiology: the ecology, biodiversity and bioremediation potential of microorganisms in extremely cold environments*. Boca Raton, FL, CRC Press; Routledge, Taylor & Francis, 301–318.
- Delta Optimist. 2010a. Easterbrook to share Antarctic photographs. *Delta Optimist*, 15.
- Delta Optimist. 2010b. Easterbrook to take library visitors on Antarctic Adventure. *Delta Optimist*, 14.
- DeMaster, D., J. Thomas, S. Stone and D. Andriashek. 1979. Biological studies of seals in pack ice habitat. *Antarct. J. U.S.*, **14**(5), 179–180. (https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXIVn5/AJUSvXIVn5p179.pdf.)
- Demers, S. 1997. L'amincissement de la couche d'ozone et les besoins de recherche pour en comprendre les effets sur les différents systèmes biologiques. *Climat*, **14**, 31–32.
- Demers, S., S. Roy and S. de Mora. 1997. L'impact de l'amincissement de la couche d'ozone sur le milieu marin. *Climat*, **14**, 21–28.
- Demers, S. and 7 others (S. Moreau, B. Mercier, K. Lemarchand, S. Roy, I. Schloss and G.A. Ferreyra). 2007a. Preliminary results from the Sedna IV Winter Mission in the western Antarctic Peninsula: UVB radiation effects on marine bacterioplankton, picoplankton and nanoplankton. *Actas del VI° Simposio Argentino y III° Latinoamericano sobre Investigaciones Antárticas, 10–14 Septiembre 2007, Buenos Aires, Argentina*. Buenos Aires, Dirección Nacional del Antártico. Instituto Antártico Argentino, Extended abstract CFQCO106, CD-ROM. (http://tinyurl.com/ocruyqp.)
- Demers, S., G. Ferreyra and the RUGBY participants. 2007b. RUGBY (Research on ultraviolet and global warming effects on biological pump yields). *CARN Newsl.*, **24**, 8–13. (http://tinyurl.com/ommdelt.)
- DeMoor, A., E. Domack, K. Roe, R. Gilbert, A. Leventer and L. Folk. 2008. Sediment accumulation rates beneath the Larsen Ice Shelf, Antarctica; a unique perspective on lithofacies and particulate flux beneath a large ice shelf. *33rd International Geological Congress, 6–14 August 2008, Oslo, Norway. Abstracts*. Oslo, Norway, International Geological Congress, Abstract AAN02717P, digital media. (www.cprm.gov.br/33IGC/1341857.html.)
- Derbyshire, D. 2002. Antarctic cools in warmer world: long-term temperature figures from the South Pole may put global warming theory on ice. *Townsmen [Cranbrook]*, 14 January, 12.
- Déry, S.J. 2010. Snow sublimation on Ekström Ice Shelf. *CARN Newsl.*, **29**, 2. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN%20vol%2029%20Nov%202010.pdf.)
- Déry, S.J. 2011. Global warming and its effect on snow/ice/glaciers. In Singh, V.P., P. Singh and U.K. Haritashya, eds. *Encyclopedia of snow, ice and glaciers*. Dordrecht, etc., Springer, 468–471. (Encyclopedia of Earth Sciences Series.)
- Déry, S.J. and M.K. Yau. 1999. A climatology of adverse winter-type weather events. *J. Geophys. Res.*, **104**(D14), 16,657–16,672. (10.1029/1999JD900158.)
- Déry, S.J. and M.K. Yau. 2002. Large-scale mass balance effects of blowing snow and surface sublimation. *J. Geophys. Res.*, **107**(D23), 4679. (10.1029/2001JD001251.)

- Derzho, O.G. and B. de Young. 2011a. Brief communication "On one mechanism of low frequency variability of the Antarctic Circumpolar Current". *Nonlinear Process. Geophys.*, **18**(3), 361–365. (10.5194/npg-18-361-2011.)
- Derzho, O.G. and B. de Young. 2011b. Rotating nonlinear vortical patterns on a gamma plane. *Stud. Appl. Math.*, **126**(2), 187–201. (10.1111/j.1467-9590.2010.00502.x.)
- Descamps, S., M. Gauthier-Clerc, C. le Bohec, J.-P. Gendner and Y. le Maho. 2005. Impact of predation on king penguin *Aptenodytes patagonicus* in Crozet Archipelago. *Polar Biol.*, **28**(4), 303–310. (10.1007/s00300-004-0684-3.)
- Detrich, H.W., III and 8 others. 2003. *Frontiers in polar biology in the genomic era*. Washington, DC, National Academies Press. (Report by Committee on Frontiers in Polar Biology that includes W.W. Mohn.) (<http://books.nap.edu/openbook.php?isbn=0309087279>.)
- Dettai, A. and 45 others (including S.J. Adamowicz and D. Steinke). 2011. DNA barcoding and molecular systematics of the benthic and demersal organisms of the CEAMARC survey. *Polar Sci.*, **5**(2), 298–312. (10.1016/j.polar.2011.02.002.)
- Dettmann, M.E. and D.M. Jarzen. 1988. Angiosperm pollen from uppermost Cretaceous strata of southern Australia and the Antarctic Peninsula. *Mem. Assoc. Austral. Palaeontol.*, **5**, 217–237.
- Dettmann, M.E. and D.M. Jarzen. 1990. The Antarctic/Australian rift valley: Late Cretaceous cradle of northeastern Australasian relicts? *Rev. Palaeobot. Palynol.*, **65**(1–4), 131–144. (10.1016/0034-6667(90)90064-P.)
- Dettmann, M.E. and D.M. Jarzen. 1991. Pollen evidence for Late Cretaceous differentiation of Proteaceae in southern polar forests. *Can. J. Bot./J. Can. Bot.*, **69**(4), 901–906. (10.1139/b91-116.)
- Deutsch, B. 2008. Visitors flock to cold Antarctic: the sinking of a cruise ship raises questions about Antarctica tourists. *Nanaimo Daily News*, 1 March, C.5.
- Dewasmes, G. and 6 others (including S.D. Côté). 2001. Effects of weather on activity and sleep in brooding king penguins (*Aptenodytes patagonicus*). *Polar Biol.*, **24**(7), 508–511. (10.1007/s003000100249.)
- Dey Nuttall, A. 2009. Organising polar science: Canada's emerging Antarctic interests. *Antarctic Treaty Summit 2009, 30 November – 3 December 2009, Washington, DC*. Buenos Aires, Antarctic Treaty Secretariat, presentation. (www.atsummit50.org/media/poster_session-10.pdf.)
- Dey Nuttall, A. 2010. Canada's approach to Antarctica: Arctic state and polar player? *CARN Newsl.*, **28**, 8–12. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN28.pdf.)
- Dey Nuttall, A. 2012. Organizing polar science: Canada's attempt at developing a national Antarctic programme. *Polar J.*, **2**(1), 157–171. (10.1080/2154896X.2012.679566.)
- Deynoux, M., J.M.G. Miller, E.W. Domack, N. Eyles, I.J. Fairchild and G.M. Young. 1994. *Earth's glacial record*. Cambridge, U.K., etc, Cambridge University Press. (World and Regional Geology 5.)
- DeYoung, T. and for the IceCube Collaboration (that includes D. Grant, S.C. Nowicki and T.R. Wood). 2012. Particle physics in ice with IceCube DeepCore. *Nucl. Instrum. Meth. Phys. Res. A*, **692**, 180–183. (10.1016/j.nima.2011.12.067.)
- Di Fiori, E., I.R. Schloss, G.A. Ferreyra, F. Papparazzo, V. Rupolo and G.O. Almandoz. 2007. La comunidad fitoplanctónica y el dióxido de carbono en el Mar de Weddell [Phytoplankton community and carbon dioxide in the Weddell Sea]. *Actas del VI° Simposio Argentino y III° Latinoamericano sobre Investigaciones Antárticas, 10–14 Septiembre 2007, Buenos Aires, Argentina*. Buenos Aires, Dirección Nacional del Antártico. Instituto Antártico Argentino, Extended abstract CVCO325, CD-ROM. [In Spanish] (www.dna.gov.ar/CIENCIA/SANTAR07/CD/PDF/CVCO325.PDF.)

- Di Fiori, E. *and 7 others* (including I.R. Schloss and G.A. Ferreyra). 2010. The role of phytoplankton in carbon dioxide exchange between the atmosphere and the ocean in the Weddell Sea. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 206, CD-ROM.
- Di Prisco, G., P. Convey, J. Gutt, D. Cowan, K. Conlan and C. Verde. 2012. Understanding and protecting the world's biodiversity: the role and legacy of the SCAR programme “Evolution and Biodiversity in the Antarctic”. *Mar. Genomics*, **8**, 3–8. (10.1016/j.margen.2012.04.001.)
- Dick, C.A.L., I. Allison, B. Goodison and R.G. Barry. 2000. "Climate and Cryosphere" (CliC): the World Climate Research Programme initiative for investigation of the role of the cryosphere in global climate. [Abstract H61C-01.] *Eos, Trans. AGU*, **81**(48), Fall Meet. Suppl., F416–F417. (www.agu.org/meetings/fm00/waisfm00.html.)
- Dickinson, A.B. 1985. South Georgia fisheries: some early records. *Polar Rec.*, **22**(139), 434–437. (10.1017/S0032247400005726.)
- Dickinson, A.B. 1986. The first South Georgia population census. *Polar Rec.*, **23**(144), 349–351. (10.1017/S0032247400007191.)
- Dickinson, A.B. 1989. The demise of elephant sealing at South Georgia, 1960–68. *Polar Rec.*, **25**(154), 185–190. (10.1017/S0032247400010779.)
- Dickson, G. 2010. Arctic Kingdom expands into Antarctic polar logistics. *CARN Newsl.*, **29**, 3. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN%20vol%2029%20Nov%202010.pdf.)
- Dionne, J.-C. 1988. Compte rendu. Vanney, Jean-René (1986) : Histoire des mers australes, Paris, Fayard, 737 p., 10 cartes index, 13,5 x 21,5 cm, broché. *Géogr. Phys. Quat.*, **42**(1), 103–104. (.)
- Dionne, J.-C. 2000. Compte rendu. Godard, Alain et André, Marie-Françoise, 1999. Les milieux polaires . Armand Colin, Paris, 453 p., 153 fig., 39 phot., 44 tabl., 16 x 24 cm, 45 \$ can. ISBN 2-2000-01598-4. *Géogr. Phys. Quat.*, **54**(3), 354. (www.erudit.org/revue/gpq/2000/v54/n3/005641ar.pdf.)
- Dionne, J.-C. 2004. Compte rendu. Van Vliet-Lanoë, Brigitte, 2005. La planète des glaces. Histoire et environnements de notre ère glaciaire. Vuibert, Paris, 488 p., 415 fig., 14 tabl., 17 x 24 cm, 52 € (env. 72 \$ CA), ISBN 2-7117-5377-8. *Géogr. Phys. Quat.*, **58**(1), 154–155. (http://tinyurl.com/nlnh135.)
- Ditullio, G.R. *and 9 others* (including P.D. Tortell). 2008. Effects of environmental and climate change variables on Controlling the Ross Sea Algal Community Structure (CORSACS). In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S1.8/O20, 222.
- DiTullio, G.R. *and 10 others* (including P.D. Tortell). 2010a. Controls on Ross Sea Algal Community Structure (CORSACS). [Abstract.] *Eos, Trans. AGU*, **91**(26), Ocean Sci. Meet. Suppl., IT44C-01. (www.agu.org/meetings/os10.)
- DiTullio, G.R. *and 8 others* (including P.D. Tortell). 2010b. CORSACS: controls on Ross Sea algal community structure. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 213, CD-ROM.
- Divi, R.S. 1996. India and Antarctica during the Precambrian and granulite and crustal processes in East Gondwana. *J. Afr. Earth Sci.*, **23**(2), XVII–XIX. (10.1016/S0899-5362(97)86881-9.)
- Divi, R.S. 1996. India and Antarctica during the Precambrian and granulite and crustal processes in East Gondwana. *J. SE Asian Earth Sci.*, **14**(5), XVII–XIX. (10.1016/S0743-9547(97)88160-3.)
- Divi, S.R., M. Yoshida and A.T. Rao. 1996. Tectonic correlations between eastern part of Indian Shield and East Antarctica. *30th International Geological Congress, 4–14 August 1996, Beijing, China. Abstracts, Vol. 2*. Beijing, China, International Geological Congress, 574.

- Divi, R.S. 1997. India and Antarctica during the Precambrian and granulite and crustal processes in East Gondwana. *J. South Amer. Earth Sci.*, **10**(3–4), XVII–XIX. (10.1016/S0895-9811(97)90013-4.)
- Divi, S.R., M. Yoshida and A.T. Rao. 2000. Tectonic correlations between eastern part of Indian Shield and East Antarctica. In Yoshida, M., ed. *Metamorphism and tectonic evolution of Eastern Ghats and surrounding areas within East Gondwana*. Osaka, Osaka City University. Department of Geosciences, Gondwana Research Group, unpaginated. (Gondwana Research Group Miscellaneous Publication 9.) (IGCP Project 368.)
- Dobbs, M. 2007. First light for the South Pole telescope. *CARN Newsl.*, **23**, 5–8. (on behalf of the South Pole Telescope Collaboration.) ([www.polarcom.gc.ca/uploads/Publications/\(CARN\)/carn_vol23_eng.pdf](http://www.polarcom.gc.ca/uploads/Publications/(CARN)/carn_vol23_eng.pdf).)
- Dobbs, M. and 10 others (including F. Aubin, T. de Haan, K. Macdermid and G. Smecher). 2012a. Digital frequency multiplexer for TES detectors – path to flight. *J. Low Temp. Phys.*, **167**(5–6), 568–574. (10.1007/s10909-012-0470-5.)
- Dobbs, M.A. and 46 others (the SPT Collaboration that includes T. de Haan, J. Kennedy, T.M. Lanting and K. Vanderlinde). 2012b. Frequency multiplexed superconducting quantum interference device readout of large bolometer arrays for cosmic microwave background measurements. *Rev. Sci. Instrum.*, **83**(7), 073113. (10.1063/1.4737629.)
- Dobrovnik, F. 1998. Student visitor says Antarctic needs protection but favours limited tours. *Sault Star*, 28 December, B.1.
- Dodion, J. and 11 others (including K. Gilbert, R. Skelton, D. Turnbull, S.D. McLeod, C.D. Boone, K.A. Walker and P.F. Bernath). 2008. Aerosols and clouds in the upper troposphere–lower stratosphere region detected by GOMOS and ACE: intercomparison and analysis of the years 2004 and 2005. *Adv. Space Res.*, **42**(10), 1730–1742. (10.1016/j.asr.2007.09.027.)
- Dohm, J.M. and 29 others (including W.C. Mahaney). 2011. An inventory of potentially habitable environments on Mars: geological and biological perspectives. In Gerry, W.B. and J.E. Bleacher, eds. *Analogs for planetary exploration*. Geological Society of America, 317–347. (GSA Special Paper 483.) (10.1130/2011.2483(21).)
- Doidge, D.W. and J.P. Croxall. 1984. Density-dependent pup mortality in the Antarctic fur seal *Arctocephalus gazella* at South Georgia. *J. Zool. [London]*, **202**(3), 449–460. (10.1111/j.1469-7998.1984.tb05095.x.)
- Doidge, D.W. and J.P. Croxall. 1985. Diet and energy budget of the Antarctic fur seal, *Arctocephalus gazella*, at South Georgia. In Siegfried, W.R., P.R. Condy and R.M. Laws, eds. *Antarctic nutrient cycles and food webs*. Berlin, Springer-Verlag, 543–550.
- Doidge, D.W. and J.P. Croxall. 1989. Factors affecting weaning weight in Antarctic fur seals *Arctocephalus gazella* at South Georgia. *Polar Biol.*, **9**(3), 155–160. (10.1007/BF00297170.)
- Doiron, E.E., P.A. Rouget and J.M. Terhune. 2012. Proportional underwater call type usage by Weddell seals (*Leptonychotes weddellii*) in breeding and nonbreeding situations. *Can. J. Zool.*, **90**(2), 237–247. (10.1139/z11-131.)
- Domack, E.W., D.J.P. Foss, J.P.M. Syvitski and C.E. McClennen. 1994. Transport of suspended particulate matter in an Antarctic fjord. *Mar. Geol.*, **121**(3–4), 161–170. (10.1016/0025-3227(94)90028-0.)
- Domack, E.W., A. Leventer, R. Gilbert, S. Brachfeld, S. Ishman and A. Camerlenghi. 2000. Paleohistory of the Larsen Ice Shelf: marine geologic evidence. [Abstract H51E-07.] *Eos, Trans. AGU*, **81**(48), Fall Meet. Suppl., F390. (www.agu.org/meetings/fm00/waisfm00.html.)
- Domack, E.W., R. Gilbert, A. Camerlenghi, A. Leventer and M. Canals. 2000. Swath mapping imagery from the Antarctic Peninsula: fjord to ice steam transitions (scours and bundles). *Seventh Annual WAIS Workshop, September 28–30, 2000, Algonkian Meeting Center in Sterling, Virginia, U.S.A. Agenda & abstracts*. Boulder, CO, National Snow and Ice Data Center. West Antarctic Ice Sheet Initiative (WAIS), digital media. (www.waisworkshop.org/pastmeetings/abstracts00/Domack2.htm.)

- Domack, E.W. *and 8 others* (including R. Gilbert). 2001. Cruise reveals history of Holocene Larsen Ice Shelf. *Eos, Trans. AGU*, **82**(2), 13, 16–17. (www.agu.org/meetings/fm01/waisfm01.html.)
- Domack, E.W., D. Duran, K. McMullen, R. Gilbert and A. Leventer. 2002a. Sediment lithofacies from beneath the Larsen B Ice Shelf: can we detect ice shelf fluctuation? [Abstract C52A-04.] *Eos, Trans. AGU*, **83**(47), Fall Meet. Suppl., F301. (www.agu.org/meetings/fm02/waisfm02.html.)
- Domack, E. *and 6 others* (including R. Gilbert). 2002b. Understanding the depositional record of ice shelf collapse: observations from the Larsen-B Ice Shelf. *Ninth Annual WAIS Workshop, 19–21 September 2002, Algonkian Meeting Center, Sterling, Virginia, U.S.A. Agenda & abstracts*. Boulder, CO, National Snow and Ice Data Center. West Antarctic Ice Sheet Initiative (WAIS), digital media. (www.waisworkshop.org/pastmeetings/abstracts02/Domack_o.html.)
- Domack, E. *and 10 others* (including R. Gilbert). 2003a. Complete swath map coverage of the Gerlache Boyd Strait paleo ice stream: an example of collaborative seafloor mapping in the Antarctic Peninsula. [Abstract.] *Terra Nostra [Bonn]*, **2003-4**, 76.
- Domack, E.W. *and 9 others* (including R. Gilbert). 2003b. Marine sedimentary record of natural environmental variability and recent warming in the Antarctic Peninsula. In Domack, E., A. Leventer, A. Burnett, R. Bindenschadler, P. Convey and M. Kirby, eds. *Antarctic Peninsula climate variability: historical and paleoenvironmental perspectives*. Washington, DC, American Geophysical Union, 205–224. (Antarctic Research Series 79.)
- Domack, E., S. Brachfeld, S. Ishman, A. Leventer, P. Manley and R. Gilbert. 2004a. Antarctic research experiences for undergraduates; field- and lab-based polar and global change education. [Paper 179-15.] *Geol. Soc. Am. Abstr. Prog.*, **36**(5), 2004 Denver Annual Meeting, 419. (http://gsa.confex.com/gsa/2004AM/finalprogram/abstract_80825.htm.)
- Domack, E. *and 6 others* (including R. Gilbert). 2004b. Complete swath map coverage of the Gerlache Boyd Strait Paleo Ice Stream: an example of collaborative seafloor mapping in the Antarctic Peninsula. *XXVIII SCAR Open Science Conference, 26–28 July 2004, Bremen, Germany. Abstracts*. Cambridge, U.K., Scientific Committee on Antarctic Research, S11/P08.
- Domack, E. *and 7 others* (including R. Gilbert). 2004c. Palaeoclimate reconstructions from marine records: stability of the Larsen Ice Shelf and its regional perspective. *Antarctic Peninsula climate variability: history, causes and impacts. An International Workshop, 16–18 September 2004, Cambridge, UK*. Cambridge, UK, British Antarctic Survey, invited paper.
- Domack, E. *and 9 others* (including R. Gilbert). 2005. Stability of the Larsen B ice shelf on the Antarctic Peninsula during the Holocene Epoch. *Nature*, **436**(7051), 681–685. (10.1038/nature03908.)
- Domack, E. *and 7 others* (including R. Gilbert). 2006. Subglacial morphology and glacial evolution of the Palmer Deep outlet system, Antarctic Peninsula. *Geomorphology*, **75**(1–2), 125–142. (10.1016/j.geomorph.2004.06.013.)
- Domack, E. *and 11 others* (including R. Gilbert). 2007a. Beneath the Larsen B Ice Shelf system: a marine perspective on a rapidly changing cryosphere. *Geophys. Res. Abstr.*, **9**, 2007 EGU Gen. Assem., EGU2007-A-04509. (www.cosis.net/abstracts/EGU2007/04509/EGU2007-J-04509.pdf.)
- Domack, E.W. *and 9 others* (including R. Gilbert). 2007b. New marine sediment core data support Holocene stability of the Larsen B Ice Shelf. In Cooper, A.K., P. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007*. Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (*U.S. Geol. Surv. Open-File Rep.* 2007-1047.) (Extended Abstract 019.) (<http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea019.pdf>.)

- Domine, F. and 8 others. 2011. Vertical profiles of specific surface area, thermal conductivity and density of mid-latitude, Arctic and Antarctic snow: relationships between snow physics and climate. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA.* Washington, DC, American Geophysical Union, C32B-01, digital media. ([http://sites.agu.org/fallmeeting/scientific-program/.](http://sites.agu.org/fallmeeting/scientific-program/))
- Domine, F., G. Picard, G. Krinner, L. Arnaud and E. Lefebvre. 2012. Inhibition of the positive snow–albedo feedback by precipitation on the Antarctic Plateau. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts.* Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 886, digital media. (http://132.246.11.198/2012-ipy/Abstracts_On_the_Web/pdf/ipy2012arAbstract00886.pdf)
- Donachie, S.P., L.M. Tupas, C.J. Carrillo, D.M. Karl and J.R. Christian. 1998. A cross-site study of microbial ectoenzyme activities and regulation: preliminary results from the Palmer Long-Term Ecological Research component. *Antarct. J. U.S.*, **32**(5), Review 1997, 148–151.
- Dongchen, E., Q. Shen, Y. Xu and G. Chen. 2009. High-accuracy topographical information extraction based on fusion of ASTER stereo-data and ICESat/GLAS data in Antarctica. *Sci. China D*, **52**(5), 714–722. (10.1007/s11430-009-0055-6.)
- Donovan, E.F. 2010. The future of global auroral imaging. [Abstract.] *Eos, Trans. AGU*, **91**(26), Meet. Americas Suppl., SM41C-05. (www.agu.org/meetings/ja10/program/abstract-database.php?sel=1.)
- Donzier, J.-F. and 24 others (including S. Brels and D. Coates). 2011. Chapter 3. Global challenges and the European paradigm. In Ganoulis, J., A. Aureli and J. Fried, eds. *Transboundary water resources management: a multidisciplinary approach.* Weinheim, Wiley-VCH Verlag GmbH & Co. KGaA, 27–85. (10.1002/9783527636655.ch3.)
- Doolittle, D.F., W.K.W. Li and A.M. Wood. 2008. Wintertime abundance of picoplankton in the Atlantic sector of the Southern Ocean. *Nova Hedwigia Beihefte*, **133**, 147–160. (http://evolution.uoregon.edu/archive/mwood/Doolittle_147-160_wm.pdf.)
- Doran, P.T. and W.F. Vincent. 2010. Environmental protection and stewardship of subglacial aquatic environments. *Chapman Conference on the Exploration and Study of Antarctic Subglacial Aquatic Environments (SAE), 15–17 March 2010, Baltimore, Maryland, USA.* Washington, DC, American Geophysical Union, Abstract, 16–17. (<http://tinyurl.com/lcacosv>.)
- Doran, P.T. and W.F. Vincent. 2011. Environmental protection and stewardship of subglacial aquatic environments. In Siegert, M.J., M.C. Kennicutt, II and R.A. Bindschadler, eds. *Antarctic subglacial aquatic environments.* Washington, DC, American Geophysical Union, 149–157. (Geophysical Monograph 192.) (10.1029/2010GM000947.)
- Doran, P., P. Adams and M. Ecclestone. 1999. Arctic and Antarctic lakes: contrast or continuum? In Lewkowicz, A.G., ed. *Poles apart, a study in contrasts. Proceedings of an International Symposium on Arctic and Antarctic Issues, 25–27 September 1997, Ottawa, Ontario, Canada.* Ottawa, Ont., University of Ottawa Press, 59–68.
- Dormann, C. 2004. Antarctica Neverwinter Nights, how to instruct and delight. *Symposium on Interaction: Systems, Practice and Theory, 16–19 November 2004, Sydney, NSW, Australia.* Sydney, NSW, University of Technology, digital media. (<http://research.it.uts.edu.au/creative/interaction/aw.php?demos=1>.)
- Dormann, C., J.-P. Fiset, S. Caquard, B. Woods, A. Hadziomerovic, E. Whitworth, A. Hayes and R. Biddle. 2005a. Computer games as homework. In Sloane, A., ed. *IFIP International Federation for Information Processing, Vol. 178.* Dordrecht, etc., Springer, 245–260. (Home-Oriented Informatics and Telematics.) (10.1007/11402985_18.)
- Dormann, C., J.-P. Fiset, S. Caquard, B. Woods, A. Hadziomerovic, E. Whitworth, A. Hayes and R. Biddle. 2005b. *Multimedia object game mod - Ice Core Quest NeverWinter Night game modification.* Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies, Geomatics and Cartographic Research Centre.

- Dormann, C., S. Caquard, B.A. Woods and R. Biddle. 2006. Role-playing games in cybercartography: multiple perspectives and critical thinking. *Cartographica*, **41**(1), 47–58. (10.3138/L42H-7P81-NMX0-5540.)
- Dos Santos, P.R., A.C. Rocha-Campos, R. Trompette, A. Uhlein, M. Gipp and J.C. Simões. 1993. Tertiary glacial sediments of King George Island, Antarctica; a progress report. *Rev. SELPER*, **9**(1–2), 62–63.
- Dotto, L. 1977. Parked off coast of dry countries; big icebergs from Antarctic considered as water source. *Globe & Mail [Toronto]*, 13 December, P.2.
- Doucet, S., M. Moreira, D. Weis and J. Scoates. 2003a. Helium and neon isotopic systematics in Kerguelen Archipelago high-MgO basalts and picrites. [Abstract V32A-1003.] *Eos, Trans. AGU*, **84**(46), Fall Meet. Suppl., F1560. (www.agu.org/meetings/fm03/waisfm03.html.)
- Doucet, S., J.S. Scoates, D. Weis and A. Giret. 2003bb. The Kerguelen mantle plume composition inferred from Hf-Pb-Sr-Nd isotopic compositions of high-MgO basalts and picrites from the Kerguelen Archipelago. *Geophys. Res. Abstr.*, **5**, EAE03-A-12734. (www.cosis.net/abstracts/EAE03/12734/EAE03-J-12734.pdf.)
- Doucet, S., M. Moreira, D. Weis, J.S. Scoates, A. Giret and C. Allègre. 2004. Geochemical and Hf-Pb-Sr-Nd isotopic constraints on the origin of the Amsterdam–St. Paul (Indian Ocean) hotspot basalts. *Earth Planet. Sci. Lett.*, **218**(1–2), 179–195. (10.1016/S0012-821X(03)00636-8.)
- Doucet, S., J.S. Scoates, D. Weis and A. Giret. 2005. Constraining the components of the Kerguelen mantle plume: a high-precision Hf-Pb-Sr-Nd isotopic study of picrites and high-MgO basalts from the Kerguelen Archipelago. *Geochem. Geophys. Geosyst.* **G³**, **6**(4), Q04007. (10.1029/2004GC000806.)
- Doucet, S., M. Moreira, D. Weis, J.S. Scoates, A. Giret and C. Allègre. 2006. Primitive neon and helium isotopic compositions of high-MgO basalts from the Kerguelen Archipelago, Indian Ocean. *Earth Planet. Sci. Lett.*, **241**(1–2), 65–79. (10.1016/j.epsl.2005.10.025.)
- Doucette, G.J. and G.A. Fryxell. 1983. *Thalassiosira antarctica*: vegetative and resting stage chemical composition of an ice-related marine diatom. *Mar. Biol.*, **78**(1), 1–6. (10.1007/BF00392964.)
- Douglas, M. 2010. Message from CCAR’s Chair. *CARN Newsl.*, **28**, 6–7. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN28.pdf.)
- Douglas, M.S.V., P.B. Hamilton, R. Pienitz and J.P. Smol. 2004. Algal indicators of environmental change in Arctic and Antarctic lakes and ponds. In Pienitz, R., M.S.V. Douglas and J.P. Smol, eds. *Long-term environmental change in Arctic and Antarctic lakes*. Berlin, etc., Springer-Verlag, 117–157. (Developments in Paleoenvironmental Research 8.) (10.1007/978-1-4020-2126-8_5.)
- Douglas, M.S.V., L. Copland and G. Green. 2008. An IPY university course ship-based Antarctic expedition 2009. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S2.4/P02, 324.
- Douglas, M., L. Copland and P. Maher. 2009. Professors’ account of Students on Ice IPY Antarctic University Expedition. *CARN Newsl.*, **27**, 3–5. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN%2027.pdf.)
- Downes, M.T., L. Hrstich and W.F. Vincent. 1993. Extraction of chlorophyll and carotenoid pigments from Antarctic benthic mats for analysis by HPLC. *J. Appl. Phycol.*, **5**(6), 623–628. (10.1007/BF02184641.)
- Downes, S.M., A. Gnanadesikan, J.L. Sarmiento, S.M. Griffies and E.D. Galbraith. 2010. Southern Ocean lower limb water mass transformation in a coarse-resolution coupled model. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 372964, digital media. (www.ipy-osc.no/abstract/372964.)

- Downey, R. 2006. Frozen adventure warms the heart: Rhiannon Downey says bond between dogs and humans in Antarctic wilderness makes you cry. *Toronto Star*, 19 February, D.13.
- Doyle, S.R., F.R. Momo, J.-C. Brêthes and G.A. Ferreyra. 2012. Metabolic rate and food availability of the Antarctic amphipod *Gondogeneia antarctica* (Chevreux 1906): seasonal variation in allometric scaling and temperature dependence. *Polar Biol.*, **35**(3), 413–424. (10.1007/s00300-011-1089-8.)
- Dragon, A.-C. and 9 others (including F. Bailleul). 2009. Southern elephant seals instrumented with oceanographic sensors: insights into their foraging ecology and input as autonomous samplers. *From ecosystem function to prediction, 3rd GLOBEC Open Science Meeting, 22–26 June 2009, Victoria, BC, Canada. Abstracts*. Nanaimo, B.C., Department of Fisheries and Oceans. Pacific Biological Station, Abstract WB-O17, 85. (www.confmanager.com/communities/c1345/files/osm/abstracts_book_web.pdf.)
- Draucker, S., G.W. Berger, R. Gilbert and E. Domack. 2004. Luminescence dating tests of detrital grains from sediment traps, Andvord Bay and Brialmont Cove, Antarctic Peninsula. [Abstract.] *Eos, Trans. AGU*, **85**(47), Fall Meet. Suppl., PP54A-07. (www.agu.org/meetings/fm04/waisfm04.html) (http://www.agu.org/meetings/fm04/fm04-sessions/fm04_PP54A.html)
- Dreschhoff, G.A.M., E.J. Zeller, H. Schmid, K. Bulla, M. Morency and A. Tremblay. 1983. Radioactive mineral occurrence at Szabo Bluff, Transantarctic Mountains. *Antarct. J. U.S.*, **18**(5), 1983 Review, 48–49. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXVIIIIn5/AJUSvXVIIIIn5p48.pdf>.)
- Drevnick, P., C. Lamborg and G. Swarr. 2012. Global-scale changes in Hg cycling during glacial–interglacial transitions. [Abstract.] *Mineral. Mag.*, **76**(6), Goldschmidt Abstracts 2012, 1662. (<http://goldschmidtabstracts.info/2012/1662.pdf>.)
- Druckenmiller, M. and C. Haas. 2009. Chapter 3.17. Integrated sea ice observation programs. In Eicken, H., R. Gradinger, M. Salganek, K. Shirasawa, D. Perovich and M. Leppäranta, eds. *Field techniques for sea ice research*. Fairbanks, AK, University of Alaska Press, 497–514.
- Drummond, R. and W.R. Peltier. 2007. Climate Interpretations of GRACE gravity field data: implications of the accuracy of the ICE-5G(VM2)GIA model for the inference of mass loss from the Antarctic ice sheet. [Abstract.] *Eos, Trans. AGU*, **88**(52), Fall Meet. Suppl., G33B-1239. (www.agu.org/meetings/fm07/waisfm07.html.)
- Dubischar, C.D., E.A. Pakhomov and U.V. Bathmann. 2006. The tunicate *Salpa thompsoni* ecology in the Southern Ocean. II. Proximate and elemental composition. *Mar. Biol.*, **149**(3), 625–632. (10.1007/s00227-005-0226-8.)
- Dubischar, C.D., E.A. Pakhomov, B.P.V. Hunt, L. Gurney, M. Brenner and U.V. Bathmann. 2007. Seasonal cycles of *Salpa thompsoni* and *Ihlea racovitzai* in the Lazarev Sea, Antarctica. *42nd European Marine Biology Symposium, 27–31 August 2007, Kiel, Germany. Programme and abstracts*. Kiel, GEOMAR/Christian-Albrechts-Universität, digital media. (www.embs42.meeresbiologie.at/home.htm.)
- Dubischar, C., E. Pakhomov, L. Harbou, B. Hunt and U. Bathmann. 2012. Salps in the Lazarev Sea, Southern Ocean: II. Biochemical composition and potential prey value. *Mar. Biol.*, **159**(1), 15–24. (10.1007/s00227-011-1785-5.)
- Dubnick, A. and 7 others (including M. Sharp). 2010. Characterization of dissolved organic matter (DOM) from glacial environments using total fluorescence spectroscopy and parallel factor analysis. *Ann. Glaciol.*, **51**(56), 111–122. (10.3189/172756411795931912.)
- Dubois, J.-M.M. 1983. Comptes rendu. Denton, G.H. and Hughes, T.J (1981): The Last Great Ice Sheets, New York, John Wiley and Sons, 484 p. 123 fig., 21 x 28 cm, 95\$ US. *Géogr. Phys. Quat.*, **37**(1), 121. (www.erudit.org/revue/gpq/1983/v37/n1/032505ar.pdf.)
- Dudley, W. 1997. Calgarian conquers Antarctic peak. *Calgary Herald*, B.1.
- Duffy, P.B., M. Eby and A.J. Weaver. 2001. Climate model simulations of effects of increased atmospheric CO₂ and loss of sea ice on ocean salinity and tracer uptake. *J. Climate*, **14**(4), 520–532. (10.1175/1520-0442(2001)014<0520:CMSOEO>2.0.CO;2.)

- Dunbar, M.J., ed. 1977. *Polar Oceans: Proceedings of the Polar Oceans Conference, McGill University, Montréal, Quebec, May 1974*. Calgary, Alta, Arctic Institute of North America, July.
- Dunham, W. 2002. Warming of Antarctic lakes seen as evidence of climate changes: 20-year study. *Natl. Post [Don Mills]*, A.15.
- Dupuy, E. and 110 others (including E. Dupuy, K.A. Walker, J. Kar, C.D. Boone, C.T. McElroy, P.F. Bernath, J.R. Drummond, R. Skelton, S.D. McLeod, R.C. Hughes, C.R. Nowlan, D.G. Dufour, J. Zou, F. Nichitiu, K. Strong, A.E. Bourassa, J. Davies, D.A. Degenstein, B.J. Firanski, G. Forbes, C.S. Haley, J. Jin, T.E. Kerzenmacher, E.J. Llewellyn, N.D. Lloyd, J.C. McConnell, C.A. McLinden, S.V. Petelina, C.M. Roth, K.B. Strawbridge and M.A. Wolff). 2009. Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE). *Atmos. Chem. Phys. (ACP)*, **9**(2), Special Issue, 287–343. (10.5194/acp-9-287-2009.)
- Durnford, D. and A. Dastoor. 2011. The behavior of mercury in the cryosphere: a review of what we know from observations. *J. Geophys. Res.*, **116**(D6), D06305. (10.1029/2010JD014809.)
- Dury, L.-P. and O. Rempel. 2012. A carbon neutral Antarctica. *IPY 2012 From Knowledge to Action Conference, 22–27 April 201, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 2602, digital media. (http://132.246.11.198/2012-ipy/Abstracts_On_the_Web/pdf/ipy2012arAbstract02602.pdf.)
- Duthinh, D., K. Klein, J.F. Regrettier, A. Guichard and M. Engler. 1990. Full scale iceberg impact: a pilot experiment in Antarctica. *IAHR. Symposium on Ice, Espoo, Finland, August 20–24, 1990. Proceedings, Vol. 2*. Espoo, Finland, Helsinki University of Technology. International Association for Hydraulic Research, 890–901. (www.riverice.ualberta.ca/IAHR%20Proc/1990/1990_Espoo_Vol_2.pdf.)
- Duvall, M. 1992. Antarctic assignment wife's turn at 'cool' adventure. *Calgary Herald*, N.1.
- Eastwood, K. 2008. All eyes on the ice. *Austral. Geographic*, **2008**(92), 48–61.
- Ebinghaus, R. and 7 others (including W.H. Schroeder). 2002. Antarctic springtime depletion of atmospheric mercury. *ES&T, Environ. Sci. Technol.*, **36**(6), 1238–1244. (10.1021/es015710z.)
- Ebinghaus, R., C. Temme, S.E. Lindberg and K.J. Scott. 2004. Springtime accumulation of atmospheric mercury in polar ecosystems. *J. Phys. IV [Paris]*, **121**, 195–208. (10.1051/jp4:2004121013.)
- Eckford, R., F.D. Cook, D. Saul, J. Aislabie and J. Foght. 2002. Free-living heterotrophic nitrogen-fixing bacteria isolated from fuel-contaminated Antarctic soils. *Appl. Environ. Microbiol.*, **68**(10), 5181–5185. (10.1128/AEM.68.10.5181-5185.2002.)
- Eden, C. and R.J. Greatbatch. 2008. Towards a mesoscale eddy closure. *Ocean Model.*, **20**(3), 223–239. (10.1016/j.ocemod.2007.09.002.)
- Edgar, A.D. and H.E. Charbonneau. 1991. Fluorine-bearing phases in lamproites. *Mineral. Petrol.*, **44**(1–2), 125–149. (10.1007/BF01167104.)
- Edmonton Journal. 1989. Yukon company to build Antarctic airstrip. *Edmonton J.*, C.2.
- Edmonton Journal. 1999. Window-maker heats up for Antarctic contract: Take Note. *Edmonton J.*, H.1.
- Edmonton Journal. 2007. Catch limits placed on prized Antarctic fish. *Edmonton J.*, A.14.
- Edwards, T.W.D. 2002. Mapping and modelling global isotope climate and palaeoclimate. *Global Change Newsl.*, **49**, 2–4.
- Egginton, S., E.W. Taylor, R.W. Wilson, I.A. Johnston and T.W. Moon. 1991. Stress response in the Antarctic teleosts (*Notothenia neglecta* Nybelin and *N. rossii* Richardson). *J. Fish Biol.*, **38**(2), 225–235. (10.1111/j.1095-8649.1991.tb03108.x.)
- Ejiri, M.K., T. Nakamura, T.D. Kawahara, G.G. Shepherd, J.D. Oberheide and K. Shiokawa. 2009. Investigation of longitudinal variation by using sodium temperature lidar measurements. [Abstract.] *Eos, Trans. AGU*, **90**(22), Jt. Assem. Suppl., SA34A-04. (www.agu.org/meetings/ja09/waisja09.html.)

- Elberling, B., E.G. Gregorich, D.W. Hopkins, A.D. Sparrow, P. Novis and L.G. Greenfield. 2006. Distribution and dynamics of soil organic matter in an Antarctic Dry Valley. *Soil Biol. Biochem.*, **38**(10), 3095–3106. (10.1016/j.soilbio.2005.12.011.)
- Elieff, S. 2009. Update: Sander Geophysics explores the Antarctic. *CARN Newsl.*, **27**, 9. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN%2027.pdf.)
- Elmendorf, S., G. Henry and the Tundra Vegetation Change Group. 2010. Assessments of recent tundra change based on repeated vegetation surveys. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, GC53B-05, digital media. (www.agu.org/cgi-bin/wais?ss=GC53B-05.)
- Elmendorf, S.C., G.H.R. Henry and the Tundra Vegetation Change Group. 2010. Recent tundra vegetation change: results of plot based monitoring across the tundra biome. *ASM2010 Conference Programme and Abstracts/Programme et résumés de la conférence, 14–17/12/2010, Ottawa, ON*. Québec, Qué., Université Laval. ArcticNet Inc., 56–57. (http://tinyurl.com/7jfc2at.)
- Elmendorf, S.C. and 46 others (including G.H.R. Henry, N. Boulanger-Lapointe, M. Gill, D.S. Hik, J. F. Johnstone, S. Koh, E. Lévesque, I.H. Myers-Smith and X. Walker). 2012. Plot-scale evidence of tundra vegetation change and links to recent summer warming. *Nature Clim. Change*, **2**(6), 453–457. (10.1038/NCLIMATE1465.)
- Elster, J., J. Seckbach, W.F. Vincent and O. Lhotsk, eds. 2001. Algae and extreme environments: ecology and physiology. Proceedings of the International Conference 11–16 September 2000 Trebon, Czech Republic. *Nova Hedwigia Beihefte*, **123**, 2001, xv + 602 pp.
- Elster, J., J. Svoboda, S. Ohtani and H. Kanda. 2002. Feasibility studies on future phycological research in polar regions. *Polar Biosci.*, **15**, 114–122.
- Emanuelli, C. 1990. Le continent antarctique au seuil de 1991: Une perspective canadienne. *Études Int.*, **21**(2), 245–275. (www.erudit.org/revue/ei/1990/v21/n2/702660ar.pdf.)
- Emslie, S.D. and W. Patterson. 2004a. Major shift in Adélie penguin eggshell isotope values in Antarctica: evidence for diet change ~200 years ago. *122nd Annual Stated Meeting of the American Ornithologists' Union, 16–21 August 2004, Québec, Quebec. Abstracts*. McLean, VA, American Ornithologists' Union, Paper 134. (www.aou.org/meetings/abstracts/AOU_Meeting_Abstracts_122_2004.pdf.)
- Emslie, S.D. and W.P. Patterson. 2004b. Major shift in Adélie Penguin eggshell isotope values in Antarctica: evidence for diet change ~300 years ago. *5th International Penguin Conference, 6–10 September 2004, Ushuaia, Argentina. Abstracts*.
- Emslie, S.D. and W.P. Patterson. 2007a. A recent dietary shift in Adélie penguins based on stable isotopes in eggshell. In Woehler, E.J., ed. 6th International Penguin Conference, 27–31 August 2007, Hobart, Tasmania, Australia. Abstracts. Hobart, Tasmania, University of Tasmania, digital media. (http://people.uncw.edu/emslies/VI%20Penguin%20Conference%20Poster%202007.jpg.)
- Emslie, S.D. and W.P. Patterson. 2007b. Abrupt recent shift in $d^{13}C$ and $d^{15}N$ values in Adélie penguin eggshell in Antarctica. *Proc. Natl. Acad. Sci. USA (PNAS)*, **104**(28), 11,666–11,669. (10.1073/pnas.0608477104.)
- Emslie, S.D., M.J. Polito and W.P. Patterson. 2010. Stable isotope analyses of ancient penguin tissues support the krill surplus hypothesis in Antarctica. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, B11H-03, digital media. (www.agu.org/cgi-bin/wais?ss=B11H-03.)
- Enei, G. 2004. What scientists should know about the Antarctic Environmental Protection Act and its regulations. *CARN Newsl.*, **18**, 5–6. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/18.pdf.)

- Engebretson, M.J., I.R. Mann, T. Raita, K.-H. Glassmeier, A. Keiling and H. Rème. 2010. EMIC waves observed during the July 2009 geomagnetic storm. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 379923, digital media. (www.ipy-osc.no/abstract/379923.)
- Engel, M.H., J.A. Silfer and S.A. Macko. 1988. The effect of hydrothermal processes on the distribution and stereochemistry of amino acids in Recent Antarctic sediments. *Geochemistry. Third Chemical Congress of North America. Abstracts*. Washington, DC, American Chemical Society, GEOC 66.
- Engeler, E. 2009a. Antarctic glaciers melting faster than previously thought, study says. *Guelph Mercury*, 26 February, A.7.
- Engeler, E. 2009b. Glaciers in Antarctic melting faster than expected. *Daily Gleaner [Fredericton]*, 26 February, A.7.
- Enman, C. 2008. Obituary: Roy 'Fritz' Koerner: Renowned glaciologist an example of how to live a life. *Ottawa Citizen*, 1 June, A4.
- Eriksen, H.R., I. Grant, L. Palinkas, P. Suedfeld and H. Ursin. 2001. Selection of Antarctic Personnel (SOAP). *Second Italian Workshop on Human Adaption in Antarctica and in Extreme Environments, 24–29 September 2001, Livorno, Italy. Proceedings*. Rome, Programma Nazionale di Ricerche in Antartide, 38.
- Eriksen, H.R. and 6 others (including P. Suedfeld). 2006. Evaluation of a psychological selection instrument ("SOAP": Selection Of Antarctic Personnel). *Second SCAR Open Science Conference, Antarctica in the Earth System, 12–14 July 2006, Hobart, Tasmania*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 204, digital media. (www.scarcomnap2006.org/abstract/pdf/SCARXXIX_0204.PDF.)
- Etkin, B. 2010. A state space view of the ice ages—a new look at familiar data: an editorial essay. *Climatic Change*, **100**(3–4), 403–406. (10.1007/s10584-010-9821-x.)
- Evans, K.R., W.P. Patterson and S.D. Emslie. 2005. Major shift in Adélie Penguin eggshell isotope values in Antarctica: evidence for diet change ~300 years ago. *Western Inter-University Geosciences Conference (WIUGC), 7–9 January 2005, Saskatoon, SK. Abstracts*. Saskatoon, Sask., University of Saskatchewan.
- Evans, M.E. and F. Heller. 2001. Magnetism of loess/palaeosol sequences: recent developments. *Earth-Sci. Rev.*, **54**(1–3), 129–144. (10.1016/S0012-8252(01)00044-7.)
- Evans, P.G.H. and I. Stirling. 2001. Life history strategies of marine mammals. In Evans, P.G.H. and J.A. Raga, eds. *Marine mammals: biology and conservation*. Washington, DC, Kluwer Academic, 7–56.
- Evans, W.F.J., B.W. Boville, J.C. McConnell and G.S. Henderson. 1986. The simulation of Antarctic ozone with chemical and dynamical effects. *Geophys. Res. Lett.*, **13**(12), Supplement, 1323–1326. (10.1029/GL013i012p01323.)
- Evans, W.F.J., R.L. Gattinger, A.L. Broadfoot, I.C. McDade and E.J. Llewellyn. 2012. Temporal variations of the FeO nightglow emission. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, SA51A-2156, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Eyles, N. 1993. Earth's glacial record and its tectonic setting. *Earth-Sci. Rev.*, **35**(1–2), 1–248. (10.1016/0012-8252(93)90002-O.)
- Eyles, N. 2004. Tectonics and glaciation in the Neoproterozoic. [Abstract U21B-04.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA8. (www.agu.org/meetings/sm04/waissm04.html.)
- Eyles, N. 2006. J. Ehlers, P. Gibbard (Eds.), *Developments in Quaternary science: 2. Quaternary glaciations- Extent and chronology*, Hardbound and CD-ROM, Elsevier, 2004. *Quaternary Glaciations - Extent and Chronology, Part I: Europe*, ISBN 0-444-51462-7, price US\$ 185, € 185, GBP 123.50 (Reprint under Consideration) *Part II: North America*, ISBN 0-444-51592-5, price US\$ 175, € 175, GBP 116.50 *Part III: South America, Asia, Africa, Australia, Antarctica*, ISBN 0-444-51593-3, price US\$ 165, € 165, GBP 110. *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, **234**(2–4), 341–342. (10.1016/j.palaeo.2005.09.007.)

- Eyles, N. 2008. Glacio-epochs and the supercontinent cycle after ~3.0 Ga: tectonic boundary conditions for glaciation. *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, **258**(1–2), 89–129. (<http://tinyurl.com/nkokv6l>.)
- Eyles, N. and N. Januszczak. 2004. 'Zipper-rift': a tectonic model for Neoproterozoic glaciations during the breakup of Rodinia after 750 Ma. *Earth-Sci. Rev.*, **65**(1–2), 1–73. (10.1016/S0012-8252(03)00080-1.)
- Eyles, N. and G.M. Young. 1994. Geodynamic controls on glaciation in Earth history. In Deynoux, M., J.M.G. Miller, E.W. Domack, N. Eyles, I.J. Fairchild and G.M. Young, eds. *Earth's glacial record*. Cambridge, U.K., Cambridge University Press, 22–28. (World and Regional Geology 5.)
- Eyles, N., C.H. Eyles and V.A. Gostin. 1997. Iceberg rafting and scouring in the Early Permian Shoalhaven Group of New South Wales, Australia: Evidence of Heinrich-like events? *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, **136**(1–4), 1–17. (10.1016/S0031-0182(97)00094-1.)
- Eyles, N., J. Daniels, L.E. Osterman and N. Januszczak. 1999. Ocean Drilling Program Leg 178 (Antarctic Peninsula): sedimentology of glacially-influenced continental shelf "topsets" and "foresets". [Abstract 50951.] *Geol. Soc. Am. Abstr. Prog.*, **31**(7), 1999 Denver Annual Meeting, 56. (<http://rock.geosociety.org/absindex/annual/1999/50951.htm>.)
- Eyles, N., J. Daniels, L.E. Osterman and N. Januszczak. 2000. Ocean Drilling Program leg 178 (Antarctic Peninsula): sedimentology of glacially-influenced continental margin 'topsets' and 'foresets'. [Abstract OS31A-05.] *Eos, Trans. AGU*, **81**(19), Spring Meet. Suppl., S271. (<http://tinyurl.com/ogqw8mh>.)
- Eyles, N., J. Daniels, L.E. Osterman and N. Januszczak. 2001. Ocean Drilling Program Leg 178 (Antarctic Peninsula): sedimentology of glacially influenced continental margin topsets and foresets. *Mar. Geol.*, **178**(1–4), 135–156. (10.1016/S0025-3227(01)00184-0.)
- Eyring, V. and 39 others (including S.R. Beagley, D.A. Plummer, J.F. Scinocca, K. Semeniuk and T.G. Shepherd). 2003. Multimodel projections of stratospheric ozone in the 21st century. *J. Geophys. Res.*, **112**(D16), D16303. (10.1029/2006JD008332.)
- Eyring, V. and 34 others (including J.F. Scinocca, D.A. Plummer and T.G. Shepherd). 2010. Multi-model assessment of stratospheric ozone return dates and ozone recovery in CCMVal-2 models. *Atmos. Chem. Phys. (ACP)*, **10**(19), 9451–9472. (10.5194/acp-10-9451-2010.)
- Fabiani, A., F. Galimberti, S. Sanvito and A.R. Hoelzel. 2004. Extreme polygyny among southern elephant seals on Sea Lion Island, Falkland Islands. *Behav. Ecol.*, **15**(6), 961–969. (10.1093/beheco/arih112.)
- Fagundes, N.J.R. and 7 others (including L. Dalla Rosa). 2008. Mitochondrial DNA diversity of the Southwestern Atlantic humpback whale (*Megaptera novaeangliae*) breeding area off Brazil, and the potential connections to Antarctic feeding areas. *Conserv. Genetics*, **9**(5), 1253–1262. (10.1007/s10592-007-9453-5.)
- Fahlman, A. and 10 others (including D.R. Jones). 2006. Accounting for body condition improves allometric estimates of resting metabolic rates in fasting king penguins, *Aptenodytes patagonicus*. *Polar Biol.*, **29**(7), 609–614. (10.1016/j.dsr2.2006.11.007.)
- Falckh, R.C.F. 1987. The death of Petty Officer Evans. *Polar Rec.*, **23**(145), 397–403. (10.1017/S0032247400007506.)
- Falcon-Lang, H.J. and D.J. Cantrill. 2001. Gymnosperm woods from the Cretaceous (mid-Aptian) Cerro Negro Formation, Byers Peninsula, Livingston Island, Antarctica: the arborescent vegetation of a volcanic arc. *Cretaceous Res.*, **22**(3), 277–293. (10.1006/cres.2001.0259.)
- Falcon-Lang, H.J. and D.J. Cantrill. 2002. Terrestrial paleoecology of the Cretaceous (early Aptian) Cerro Negro Formation, South Shetlands Islands, Antarctica; a record of polar vegetation in a volcanic arc environment. *Palaios*, **17**(5), 491–506. (10.1669/0883-1351(2002)017<0491:TPOTCE>2.0.CO;2.)
- Falcon-Lang, H.J., D.J. Cantrill and G.J. Nichols. 2001. Biodiversity and terrestrial ecology of a mid-Cretaceous, high-latitude floodplain, Alexander Island, Antarctica. *J. Geol. Soc. [London]*, **158**(7), 709–724. (10.1144/jgs.158.4.709.)

- Falconer, R.K.H. 1979. Changes in Pacific /Indian/Antarctic plate motions over the last ten million years. [Abstract.] *Eos, Trans. AGU*, **60**(18), Spring Meet. Suppl., 395.
- Falconer, R.K.H. and R.F. Falconer. 1982. Seismicity, fracture zones, and poles of rotation of the Pacific–Antarctic and Indian–Antarctic plate boundaries. In Craddock, C., ed. *Antarctic geoscience*. Madison, WI, University of Wisconsin Press, 55–64. (International Union of Geological Sciences Publication B4)
- Falke, K.J. and 8 others (including P.W. Hochachka). 1985. Seal lungs collapse during free diving: evidence from arterial nitrogen tensions. *Science*, **229**(4713), 556–558. (10.1126/science.4023700.)
- Fan, Z.Y., R.J. Sica, K.A. Walker and C. Boone. 2008a. An ACE-FTS climatology of temperature, relative humidity and polar mesospheric clouds. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., A51A-0074. (www.agu.org/meetings/fm08/waisfm08.html.)
- Fan, Z., K.A. Walker and R.J. Sica. 2008b. Interhemispheric differences in the structure of the polar summer mesopause using ACE-FTS measurements. *CMOS 2008 Congress, Water, Weather, Climate: Science Informing Decisions, Canadian Meteorological and Oceanographical Society, 25–29 May 2008, Kelowna, British Columbia. Program and abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 2569, digital media. (<http://tinyurl.com/ozh42hv>.)
- Fanning, A.F. and A.J. Weaver. 1997. On the role of flux adjustments in an idealized coupled climate model. *Climate Dyn.*, **13**(10), 691–701. (10.1007/s003820050191.)
- Fantoni, B. 2011a. Canadian satellite helps develop new map of Antarctic ice. *Alaska Highway News*, 22 August, B.1.
- Fantoni, B. 2011b. Canadian satellite helps develop new map of Antarctic ice. *StarPhoenix [Saskatoon]*, 19 August, D.5.
- Fantoni, B. 2011c. Satellite helps develop new map of Antarctic ice: new project gives researchers complete view of glaciers' movement. *Edmonton J.*, A.11.
- Farahani, E. 2008. The structure and evolution of the polar stratosphere and mesosphere and links to the troposphere during IPY – SPARC-IPY data assimilation component. *CMOS 2008 Congress, Water, Weather, Climate: Science Informing Decisions, Canadian Meteorological and Oceanographical Society, 25–29 May 2008, Kelowna, British Columbia. Program and abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 2388, digital media. (<http://tinyurl.com/ozh42hv>.)
- Farquhar, J., T. Chacko and D.J. Ellis. 1994a. High-temperature oxygen isotope thermometry in two contrasting terranes, the Taltson magmatic zone, Canada and the Napier Complex, Antarctica. *Mineral. Mag.*, **58A**(A–K), 265–266.
- Farquhar, J., T. Chacko and D.J. Ellis. 1994b. High-temperature oxygen isotope thermometry in two contrasting terranes, the Taltson magmatic zone, Canada and the Napier Complex, Antarctica. In Ross, G.M., ed. *1994 Alberta Basement Transects Workshop, 14–15 February 1994, Calgary*. Vancouver, B.C., University of British Columbia. LITHOPROBE Secretariat, 277–279. (Lithoprobe Report 37.)
- Farquhar, J., T. Chacko and D.J. Ellis. 1996. Preservation of oxygen isotope compositions in granulites from Northwestern Canada and Enderby Land, Antarctica: implications for high-temperature isotopic thermometry. *Contrib. Mineral. Petrol.*, **125**(2–3), 213–224. (10.1007/s004100050217.)
- Farrar, E. and J.M. Dixon. 1984a. Overriding of the Indian–Antarctic Ridge; origin of Emerald Basin and migration of late Cenozoic volcanism in southern New Zealand and Campbell Plateau. *Tectonophys.*, **104**(3–4), 243–256. (10.1016/0040-1951(84)90125-2.)
- Farrar, E. and J.M. Dixon. 1984b. Overriding of the Indian–Antarctic ridge: origin of Emerald Basin and migration of Late Cenozoic volcanism in southern New Zealand and Campbell Plateau. *Tectonophys.*, **104**(3–4), 243–256. (10.1016/0040-1951(84)90125-2.)
- Farrar, E. and J.M. Dixon. 1993. Ridge subduction: kinematics and implications for the nature of mantle upwelling. *Can. J. Earth Sci.*, **30**(5), 893–907. (10.1139/e93-078.)

- Farrar, E. and P.D. Rowley. 1980. Potassium-argon ages of Upper Cretaceous plutonic rocks of Orville Coast and eastern Ellsworth Land. *Antarct. J. U.S.*, **15**(5), 1980 Review, 26–28. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXVn5/AJUSvXVn5p26.pdf>)
- Farrar, E., S.L. McBride and P.D. Rowley. 1982. Ages and tectonic implications of Andean plutonism in the southern Antarctic Peninsula. In Craddock, C., ed. *Antarctic geoscience*. Madison, WI, University of Wisconsin Press, 349–356. (International Union of Geological Sciences Publication B4)
- Farrell, A. and J. Steffensen. 2005. *The physiology of polar fishes*. Amsterdam, Elsevier. Academic Press. (Fish Physiology Series 22.) (www.elsevier.com/locate/ISBN/0123504465.)
- Fedak, M.A. and 14 others (including M. Hammill, G. Stenson and A. Rosing-Asvid). 2010. MEOP: an example of a large-scale investigation of marine animal habitats. [Abstract.] *Eos, Trans. AGU*, **91**(26), Ocean Sci. Meet. Suppl., BO45G-07. (www.agu.org/meetings/os10/waisos10.html.)
- Feng, X. and 8 others (including X. Feng, A.J. Simpson, E.G. Gregorich and M.J. Simpson). 2010. Chemical characterization of microbial-dominated soil organic matter in the Garwood Valley, Antarctica. *Geochim. Cosmochim. Acta*, **74**(22), 6485–6498. (10.1016/j.gca.2010.08.019.)
- Fensome, R.A. and G.L. Williams. 2003. The versatility of fossil dinoflagellates: a current perspective. [Paper 34-7.] *Geol. Soc. Am. Abstr. Prog.*, **35**(3), Northeastern Section, 38th Annual Meeting, 84–85. (http://gsa.confex.com/gsa/2003NE/finalprogram/abstract_50627.htm.)
- Ferguson, E. 2001a. Calgary pilots try South Pole rescue: Antarctic winter closing in on gravely-ill doctor. *Edmonton J.*, A.1.
- Ferguson, E. 2001b. Calgary to the rescue: Local company sends two planes on Antarctic mission to save doctor. *Calgary Herald*, A.1.
- Ferguson, E. 2001c. Canadian planes called for Antarctic rescue. *Times Colonist [Victoria]*, 15 April, C.13.
- Ferguson, E. 2012. Geologist on Antarctica trip focusing on climate change. *Calgary Herald*.
- Fernández, D.A., J. Calvo, J.M. Wakeling, F.A. Vanella and I.A. Johnston. 2002. Escape performance in the sub-Antarctic notothenioid fish *Eleginops maclovinus*. *Polar Biol.*, **25**(12), 914–920. (10.1007/s00300-002-0435-2.)
- Fernandez-Valiente, E., A. Camacho, C. Rochera, E. Rico, W.F. Vincent and A. Quesada. 2007. Community structure and physiological characterization of microbial mats in Byers Peninsula, Livingston Island (South Shetland Islands, Antarctica). *FEMS Microbiol. Ecol.*, **59**(2), 377–385. (<http://tinyurl.com/p6uqo4u>.)
- Ferreyra, G.A., I.R. Schloss, S. Demers and P.J. Neale. 1994. Phytoplankton responses to natural ultraviolet irradiance during early spring in the Weddell–Scotia confluence: an experimental approach. *Antarct. J. U.S.*, **29**(5), 1994 Review, 268–270. (<http://tinyurl.com/p9qscnm>.)
- Ferreyra, G. and 11 others (including S. Demers). 2004. Effects of ultraviolet radiation on the lower levels of the planktonic food web in Antarctica. *Actas del V° Simposio Argentino y I° Latinoamericano sobre Investigaciones Antárticas, 30 Agosto – 3 Septiembre 2004, Buenos Aires, Argentina*. Buenos Aires, Dirección Nacional del Antártico. Instituto Antártico Argentino, 312FO, CD-ROM. (www.dna.gov.ar/CIENCIA/SANTAR04/CD/PDF/312FO.PDF.)
- Ferreyra, G.A. and 12 others (including I.R. Schloss and S. Demers). 2007. Light and plankton communities: is there a significant impact of ultraviolet B radiation in the natural environment? *Actas del VI° Simposio Argentino y III° Latinoamericano sobre Investigaciones Antárticas, 10–14 Septiembre 2007, Buenos Aires*. Buenos Aires, Dirección Nacional del Antártico. Instituto Antártico Argentino, Extended abstract CFQCO107, CD-ROM. (www.dna.gov.ar/CIENCIA/SANTAR07/CD/PDF/CFQCO107.PDF.)
- Ferreyra, G., I. Schloss, G. Mercuri, L. Ferreyra and K.-U. Richter. 2008a. The potential ecological significance of dissolved and particulate matter in the water column of Potter Cove, King George Island (Isla 25 de Mayo), South Shetland Islands. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **571**, 47–55. (<http://epic.awi.de/28602/1/Wie2008b.pdf>.)

- Ferreyra, G.A. and 6 others (including I.R. Schloss). 2008b. A synthesis on UVR biological effects research in the water column of Potter Cove. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **571**, 234–242. (<http://epic.awi.de/28602/1/Wie2008b.pdf>.)
- Ferreyra, G.A., I.R. Schloss, M.P. Hernando, E.A. Hernández and S. Demers. 2010. Evidence of ultraviolet B effects on Antarctic coastal phytoplankton and bacterioplankton from an *in situ* field experiment. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 252, CD-ROM.
- Ferry, J. 2009. Find another target for your fear-mongering: reports vary on state of Antarctic ice shelf. *Province [Vancouver]*, 4 May, A.11.
- Filippini, J.P. and 43 others (including M. Amiri, S.J. Benton, J.R. Bond, B. Burger, M. Farhang, L.M. Fissel, N.N. Gandilo, M. Halpern, M. Hasselfield, C.B. Netterfield, J.A. Shariff and J.D. Soler). 2010. SPIDER: a balloon-borne CMB polarimeter for large angular scales. In Holland, W.S. and J. Zmuidzinas, eds. *Millimeter, submillimeter, and far-infrared detectors and instrumentation for astronomy V*. Bellingham, WA, Society of Photo-optical Instrumentation Engineers, 77411N. (SPIE Proceedings 7741.) (10.1117/12.857720.)
- Filler, D.M., C.M. Reynolds, I. Snape, A.J. Daugulis, D.L. Barnes and P.J. Williams. 2006. Advances in engineered remediation for use in the Arctic and Antarctica. *Polar Rec.*, **42**(2), 111–120. (10.1017/S003224740500505X.)
- Filler, D.M., D.R. van Stempvoort and M.B. Leigh. 2009. Remediation of frozen ground contaminated with petroleum hydrocarbons: feasibility and limits. In Margesin, R., ed. *Permafrost soils*. Berlin, etc., Springer, 279–301. (Soil Biology 16.) (10.1007/978-3-540-69371-0_19.)
- Fillingim, M.O. and 7 others (including I.R. Mann). 2008. Polar UVI and THEMIS GBO observations of the ionospheric and magnetospheric response to a hot flow anomaly. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., SM53A-1649. (www.agu.org/meetings/fm08/waisfm08.html.)
- Fillingim, M.O. and 6 others (including I.R. Mann). 2011. Polar UVI and THEMIS GMAG observations of the ionospheric response to a hot flow anomaly. *J. Atmos. Solar–Terres. Phys.*, **73**(1), 137–145. (10.1016/j.jastp.2010.03.001.)
- Fillon, R.H. 1977. Ice-rafted detritus and paleotemperature: Late Cenozoic relationships in the Ross Sea region. *Mar. Geol.*, **25**(1–3), 73–93. (10.1016/0025-3227(77)90048-2.)
- Fillon, R.H. 1979a. Comment on 'Late Quaternary extent of the West Antarctic ice sheet: new evidence from Ross Sea cores'. *Geology*, **7**(11), 518–519. (10.1130/0091-7613(1979)7<518:CAROLQ>2.0.CO;2.)
- Fillon, R.H. 1979b. Ross Sea diatoms: modern assemblage distributions and their relationship to ecologic, oceanographic, and sedimentary conditions: discussion. *Mar. Micro-Paleontol.*, **4**, 399–400. (10.1016/0377-8398(79)90026-4.)
- Fily, M. and 13 others (including P. Cliche, A. Langlois, B. Montpetit, A. Roy and A. Royer). 2010. A set of devices to acquire vertical profiles of snow specific surface area. *ASM2010 Conference Programme and Abstracts/Programme et résumés de la conférence, 14–17/12/2010, Ottawa, ON*. Québec, Qué., Université Laval. ArcticNet Inc., 117. (<http://tinyurl.com/7jfc2at>.)
- Finegold, L., M.A. Singer, T.W. Federle and J.R. Vestal. 1990. Composition and thermal properties of membrane lipids in cryptoendolithic lichen microbiota from Antarctica. *Appl. Environ. Microbiol.*, 1191–1194. (<http://aem.asm.org/cgi/content/abstract/56/4/1191>.)
- Finlayson, D. 2002. Northern firm takes pride in Antarctic challenge: It took a year just to find a ship to carry all the equipment: cold-weather construction. *Edmonton J.*, H.2.
- Fioletov, V.E. 2008. Ozone climatology, trends, and substances that control ozone. *Atmos.–Ocean*, **46**(1), 39–67. (10.3137/ao.460103.)

- Fireman, E.L., H.R. Andrews, G.C. Ball, R.M. Brown and J.C.D. Milton. 1982. ^{14}C terrestrial ages of Antarctic meteorites with counters and with a Van Der Graaf accelerator. *Thirteenth Lunar and Planetary Science Conference, 15–19 March 1982, Houston, Texas*. Houston, TX, Lunar and Planetary Institute, Abstract #1114, digital media. (LPI Contribution No.1579.) (<http://tinyurl.com/pu7ggmt>.)
- Fischer, H. and 7 others (including D. Fisher). 2005a. *The IPICS 40,000 year network: a bipolar record of climate forcing and response*. Bern, PAGES (Past Global Changes). International Partnerships in Ice Core Sciences. (IPICS White Paper.) (www.pages-igbp.org/ipics/data/IPICS_40karray.pdf.)
- Fischer, H. and 7 others (including D. Fisher). 2005b. *Processes of climate change; synopsis of ice cores documenting the sequence of events from the last glacial to the present. Report for IPICS planning meeting, Brussels, October 2005*. Bern, PAGES (Past Global Changes). International Partnerships in Ice Core Sciences.
- Fisher, D.A. 1991. Remarks on the deuterium excess in precipitation in cold regions. *Tellus*, **43B**(5), 401–407. (10.1034/j.1600-0889.1991.t01-4-00006.x.)
- Fisher, D.A. 1992. Stable isotope simulations using a regional stable isotope model coupled to a zonally averaged global model. *Cold Reg. Sci. Technol.*, **21**(1), 61–77. (10.1016/0165-232X(92)90006-G.)
- Fisher, D.A. 2002. High-resolution multiproxy climatic records from ice cores, tree-rings, corals and documentary sources using eigenvector techniques and maps: assessment of recovered signal and errors. *Holocene*, **12**(4), 401–419. (10.1191/0959683602hl546rp.)
- Fisher, D. 2004. The International Partnerships for Ice Core Science (IPICS); a manifesto for future ice coring. *CARN Newsl.*, **18**, 12–13. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/18.pdf.)
- Fisher, D.A. and R.M. Koerner. 2003. Holocene ice-core climate history: a multi-variable approach. In Mackay, A.W., R.W. Battarbee, J.B. Birks and F. Oldfield, eds. *Global change in the Holocene*. London, Arnold, 281–293.
- Fissel, L.M. and 29 others (including S. Benton, E.L. Chapin, N.N. Gandilo, G. Marsden, C.B. Netterfield, D. Scott, J.A. Shariff, J.D. Soler and D.V. Wiebe). 2010. The balloon-borne large-aperture submillimeter telescope for polarimetry: BLAST-Pol. In Holland, W.S. and J. Zmuidzinas, eds. *Millimeter, submillimeter, and far-infrared detectors and instrumentation for astronomy V*. Bellingham, WA, Society of Photo-optical Instrumentation Engineers, 77410E. (SPIE Proceedings 7741.) (10.1117/12.857601.)
- Fitzharris, B. and T.D. Prowse. 2002. Impacts of climate change on global sea ice. In Squire, V. and P. Langhorne, eds. *Ice in the environment. Proceedings of the 16th International Symposium on Ice, 2–6 December 2002, Dunedin, New Zealand, Vol. 3*. Rotterdam, The Netherlands, Balkema. International Association of Hydraulic Engineering and Research (IAHR), 72–79.
- Fitzpatrick, M. 2007a. All rescued after cruise ship hits iceberg in Antarctic; 12 Canadians among crew, passengers on board sinking ship. *Vancouver Sun*, 24 November, A.7.
- Fitzpatrick, M. 2007b. Canadians flee sinking ship in Antarctic: ice punctured reinforced hull. *Ottawa Citizen*, 24 November, A.3.
- Fitzpatrick, M. 2007c. Canadians forced to flee cruise ship: ran into trouble after striking ice in Antarctic sea. *Windsor Star*, 24 November, D.1.
- Fitzpatrick, M. 2007d. Cruise ship hits ice, sinks into Antarctic; All 154 aboard Canadian-owned vessel rescued after spending 4 hours in lifeboats. *Gazette [Montréal]*, 24 November, A.24.
- Fitzpatrick, M. 2007e. 'We got a little leakage'; Antarctic iceberg dooms cruise ship. *Calgary Herald*, A.3.
- Fitzsimons, S., M. Sharp, M. Hambrey, S. MacDonell and I. Koch. 2012. Ice accretion and structural development of the southern McMurdo Ice Shelf, Antarctica. *International Symposium on Interaction of Ice Sheets and Glaciers with the Ocean, 5–10 June 2011, La Jolla, California. Program and abstracts*. La Jolla, CA, Scripps Institution of Oceanography. International Glaciological Society, Abstract 155. (http://glaciology2.ucsd.edu/igs2011/programme/Proceedings_59/Procsfiles/ProcAbstracts.html#A155.)

- Flather, P. 1990. Crew from Yukon to build airstrip in the Antarctic. *Toronto Star*, 21 January, B.8.
- Flato, G.M. 1996. The role of dynamics in warning sensitivity of Arctic sea ice models. *Workshop on Polar Processes in Global Climate, 13–15 November 1996, Cancun, Mexico. Abstracts*. Boston, MA, American Meteorological Society, 113–114.
- Flato, G.M. 1998. The sensitivity of models in the SIMIP hierarchy to thermodynamic perturbations. In Aagaard, K., D. Hartmann, V. Kattsov, D. Martinson, R. Stewart and A. Weaver, eds. *The ACSYS Conference on Polar Processes and Global Climate, Rosario, Orcas Island, WA, USA, 3–6 November 1997. Proceedings*. Oslo, International ACSYS Project Office. World Climate Research Programme, 51–53. (WMO/TD 908, WCRP-106.)
- Flato, G.M. 2002. Comparing sea ice simulations from coupled climate models. [Abstract GC52A-03.] *Eos, Trans. AGU*, **83**(19), Spring Meet. Suppl., S138. (www.agu.org/meetings/sm02/waissm02.html.)
- Flato, G.M. 2004a. Sea ice and its response to CO₂ forcing in global climate models. [Abstract C43A-06.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA105. (www.agu.org/meetings/sm04/waissm04.html.)
- Flato, G.M. 2004b. Chapter 9. Sea-ice modelling. In Bamber, J.L. and A.J. Payne, eds. *Mass balance of the cryosphere: observations and modelling of contemporary and future changes*. Cambridge, U.K., Cambridge University Press, 367–390.
- Flato, G.M. and G.J. Boer. 2001. Warming asymmetry in climate change simulations. *Geophys. Res. Lett.*, **28**(1), 195–198. (10.1029/2000GL012121.)
- Flato, G.M. and D. Ramsden. 1997. Sensitivity of an atmospheric general circulation model to the parameterization of leads in sea ice. *Ann. Glaciol.*, **25**, 96–101.
- Flato, G.M. and participating CMIP modelling groups. 2004. Sea-ice and its response to CO₂ forcing as simulated by global climate models. *Climate Dyn.*, **23**(3–4), 229–241. (10.1007/s00382-004-0436-7.)
- Flem-Ath, R. and R. Flem-Ath. 1995. *When the sky fell: in search of Atlantis*. Toronto, Ont., Stoddart Publishing Co. Ltd.
- Flem-Ath, R. and R. Flem-Ath. 2012. *Atlantis beneath the ice: the fate of the lost continent. Second revised edition*. Rochester, VT, Bear & Company.
- Fleming, A., H. Corr, S. Achal, J. McFee and K. Hughes. 2012. Combining airborne hyperspectral data and satellite imagery for monitoring of the Antarctic Peninsula. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_32.pdf.)
- Flett, D. and 7 others (B. Goodison, C. Armenakis, M. Demuth, C. Randell, D. Geudtner, P. Briand and S. Parashar). 2007. GIIPSY: Global Interagency IPY Polar Snapshot Year. *International Polar Year Day: ice sheets*. Edmonton, Alta., Canadian IPY Secretariat, 6. (IPY Day 2.) (<http://tinyurl.com/ntcgox2>.)
- Flores, H., C. Haas, J.A. van Franeker and E. Meesters. 2008a. Density of pack-ice seals and penguins in the western Weddell Sea in relation to ice thickness and ocean depth. *Deep-Sea Res. II*, **55**(8–9), 1068–1074. (10.1016/j.dsr2.2008.01.001.)
- Flores, H. and 6 others (including E.A. Pakhomov). 2008b. Distribution, abundance and ecological relevance of pelagic fishes in the Lazarev Sea, Southern Ocean. *Mar. Ecol. Progr. Ser.*, **367**, 271–282. (10.3354/meps07530.)
- Flores, H., J.A. van Franeker, V. Siegel, E.A. Pakhomov, B. Hunt and S. Kruse. 2010. The penguin's fridge. The significance of the under-ice habitat to the Antarctic pelagic ecosystem. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 375374, digital media. (www.ipy-osc.no/abstract/375374.)
- Flores, H. and 29 others (including E.A. Pakhomov). 2011. *Antarctic krill and climate change, 2011*. Hobart, Tasmania, Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR). (CCAMLR Meeting Document: WG-EMM-11/16.) (<http://hdl.handle.net/10013/epic.40354>.)

- Flores, H. *and 7 others* (including S. Kruse, B. Hunt and E. Pakhomov). 2012a. Ice matters. Arctic and Antarctic under-ice communities linking sea ice with the pelagic food web. *Identifying key links between biogeochemical processes and foodweb structure, EUR-OCEANS Flagship for Polar Ecosystem Change and Synthesis (PECS), 26–28 November 2012, Bremerhaven, Germany*. Sète, France, EUR-OCEANS Project Office, digital media. (<http://epic.awi.de/32802/1/Flores-PECS-NOV2012.pdf>.)
- Flores, H. *and 29 others* (including E.A. Pakhomov). 2012b. Impact of climate change on Antarctic krill. *Mar. Ecol. Progr. Ser.*, **458**, 1–19. (10.3354/meps09831.)
- Floricioiu, D., K. Jezek, Y. Crevier and M. Gottwald. 2010. Observations of ice sheets with TerraSAR-X during the IPY. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 380761, digital media. (www.ipy-osc.no/abstract/380761.)
- Flowers, G.E. 2010. Glacier hydromechanics: early insights and the lasting legacy of three works by Iken and colleagues. *J. Glaciol.*, **56**(200), 1069–1078. (10.3189/002214311796406103.)
- Fodstad, H., D. Kondziolka, B.P. Brophy, D.W. Roberts and J.P. Girvin. 1999. Arctic and Antarctic exploration including the contributions of physicians and effects of disease in the polar regions. *Neurosurgery*, **44**(5), 925–939. (10.1097/00006123-199905000-00001.)
- Foght, J. and É. Pelletier. 2004. Contaminants, biota and polar microbial ecosystems. In Loken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research*. Ottawa, Ont., Canadian Polar Commission, February, 46–48. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/Polar%20Connections.pdf.)
- Foley, R.J. *and 72 others* (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, L. Shaw and K. Vanderlinde). 2011. Discovery and cosmological implications of SPT-CL J2106-5844, the most massive known cluster at $z>1$. *Astrophys. J.*, **731**(2), 86. (10.1088/0004-637X/731/2/86.)
- Fonseca de Almeida e Val, V.M. 2004. Os legados deixados por Peter Hochachka: o pesquisador, o mestre e o amigo [The legacy of Peter Hochachka: researcher, teacher and friend]. *Comp. Biochem. Physiol. B*, **139**(3), 317–320. [In Portuguese with English summary.] (10.1016/j.cbpc.2004.08.012.)
- Forbes, D.L. 2011. Chapter 3.09. Glaciated coasts. In Flemming, B.W. and J.D. Hansom, eds. *Estuarine and coastal geology and geomorphology, Vol. 3*. Amsterdam, etc., Elsevier. Academic Press, 223–243. (Treatise on estuarine and coastal science.) (10.1016/B978-0-12-374711-2.00311-9.)
- Forbes, D.L. and J.D. Hansom. 2011. Chapter 3.10. Polar coasts. In Flemming, B.W. and J.D. Hansom, eds. *Estuarine and coastal geology and geomorphology, Vol. 3*. Amsterdam, etc., Elsevier. Academic Press, 245–283. (Treatise on estuarine and coastal science.) (10.1016/B978-0-12-374711-2.00312-0.)
- Fordahl, M. 2002. Scientists solve mystery of collapsing ice shelf; chain reaction triggered by warmer weather Antarctic ice blocks were the size of buildings. *Toronto Star*, 21 December, H.02.
- Forero, M.G. *and 6 others* (including K.A. Hobson). 2005. Stable isotopes reveal trophic segregation by sex and age in the southern giant petrel in two different food webs. *Mar. Ecol. Progr. Ser.*, **296**, 107–113. (10.3354/meps296107.)
- Forsberg, C.F., J. Gruetzner, B. Taylor, M. Rebesco, A.K. Cooper and P.E. O'Brien. 2000. Physical property changes as a monitor of East Antarctic sedimentation history; first results from ODP Leg 188 (Prydz Bay). In Skilbeck, C.G. and T.C.T. Hubble, eds. *Understanding planet Earth: searching for a sustainable future; on the starting blocks of the third millennium, 15th Australian Geological Convention, 3–7 July 2000, Sydney, N.S.W., Australia. Abstracts*. Sydney, N.S.W., Geological Society of Australia, 156. (GSA Abstracts 59.)
- Forsberg, C.F., A. Solheim, J. Gruetzner, B. Taylor and K. Strand. 2001. Glacial development in the Prydz Bay region as witnessed by geotechnical and mineralogical properties of Leg 188 sites 1166 and 1167. [Abstract.] *Quad. Geofis.*, **16**, 71–72.

- Forster, R.R., K.C. Jezek, H.G. Sohn, A.L. Gray and K.E. Mattar. 1998. Analysis of glacier flow dynamics from preliminary RADARSAT InSAR data of the Antarctic Mapping Mission. In Stein, T.I., ed. *IGARSS '98, Sensing and managing the environment, 18th International Geoscience and Remote Sensing Symposium, 6–10 July 1998, Seattle, Washington. Proceedings, Vol. 4*. New York, Institute of Electrical and Electronics Engineers, 2225–2227. (10.1109/IGARSS.1998.703794)
- Forster, R.R., K. Jezek, L. Gray and K. Mattar. 1998. Interferometric synthetic aperture radar (INSAR) observations of glacier ice velocity and topography from the Radarsat Antarctic Mapping Project. *Geol. Soc. Am. Abstr. Prog.*, **30**(2), North-Central Section, 32nd Annual Meeting, 17.
- Fortney, V. 2010. Albertan's Antarctic quest: adventurer joins dream team retracing heroic Shackleton mission. *Edmonton J.*, E.5.
- Foster, T.D. and E.C. Carmack. 1976. Temperature and salinity structure in the Weddell Sea. *J. Phys. Oceanogr.*, **6**(1), 36–44. (10.1175/1520-0485(1976)006<0036:TASSIT>2.0.CO;2.)
- Fountain, A.G., M. Tranter, T.H. Nylen, K.J. Lewis and D.R. Mueller. 2004. Evolution of cryoconite holes and their contribution to meltwater runoff from glaciers in the McMurdo Dry Valleys, Antarctica. *J. Glaciol.*, **50**(168), 35–45. (10.3189/172756504781830312.)
- Fox, M. 1999. The ever-shrinking ice sheet: sea level would rise six metres if an Antarctic slab nearly the size of Ontario melts away, scientists say. *Toronto Star*, 16 October, 1.
- Fox, M. 2002. Antarctic ice sheet has stopped melting, study finds. *Natl. Post [Don Mills]*, A.15.
- Fox, M. 2007. Antarctic 'the cradle of life': samples taken from great depths found unexpectedly rich diversity of animal life. *Vancouver Sun*, 17 May, A.9.
- Frank, T.D., Z. Gui and the ANDRILL-SMS Science Team (that includes D.R. Schmitt). 2010. Cryogenic origin for brine in the subsurface of southern McMurdo Sound, Antarctica. *Geology*, **38**(7), 587–590. (10.1130/g30849.1.)
- Frank, T.D., N.P. James and I. Malcolm. 2011. Carbonate deposition on Antarctic shelves. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA*. Washington, DC, American Geophysical Union, PP33B-1922, digital media. (<http://sites.agu.org/fallmeeting/scientific-program/>.)
- Fraser, C.I., R. Nikula, D.E. Ruzzante and J.M. Waters. 2012. Poleward bound: biological impacts of Southern Hemisphere glaciation. *Trends Ecol. Evol.*, **27**(8), 462–471. (10.1016/j.tree.2012.04.011.)
- Fraser, G., I. McDougall, D.J. Ellis and I.S. Williams. 2000. Timing and rate of isothermal decompression in Pan-African granulites from Rundvågshetta, East Antarctica. *J. Metamorph. Geol.*, **18**(4), 441–454. (10.1046/j.1525-1314.2000.00270.x.)
- Fraser, W. 1997. Canada's position on Antarctic membership. *Meridian/Méridien*, **1**(3), 10. (<http://tinyurl.com/nd5xowg>.)
- Freckman, D.W. 1990. Book review. Microbial Ecosystems of Antarctica by Warwick F. Vincent. *Arct. Alp. Res.*, **22**(2), 203. (10.2307/1551307.)
- Freeland, H. 2002. The Argo armada. *CARN Newsl.*, **15**, 1, 3–4. (<http://tinyurl.com/86tjwbl>.)
- Freeland, H. 2006. The Argo armada – again. *CARN Newsl.*, **22**, 14–15. (<http://tinyurl.com/6upxcwl>.)
- Freise, M., F. Holtz, J. Koepke, J. Scoates and H. Leyrit. 2003. Experimental constraints on the storage conditions of phonolites from the Kerguelen Archipelago. *Contrib. Mineral. Petrol.*, **145**(6), 659–672. (10.1007/s00410-003-0453-2.)
- Freise, M., F. Holtz, M. Nowak, J.S. Scoates and H. Strauss. 2009. Differentiation and crystallization conditions of basalts from the Kerguelen large igneous province: an experimental study. *Contrib. Mineral. Petrol.*, **158**(4), 505–527. (10.1007/s00410-009-0394-5.)
- French, H.M. 1976. *The periglacial environment. First edition*. London and New York, Longmans Group Ltd.

- French, H.M. 1996. *The periglacial environment. Second edition.* Harlow, Addison Wesley Longman.
- French, H. 2001. Frost mounds, northern Victoria Land, Antarctica. In Harris, C. and B. Rea, eds. *1st European Permafrost Conference, 26–28 March 2001, Rome, Italy. Abstracts.* Rome, Italy, International Permafrost Association. Periglacial Commission, 96.
- French, H. 2003. The development of periglacial geomorphology: 1- up to 1965. *Permafrost Periglac. Process.*, **14**(1), 29–60. (10.1002/ppp.438.)
- French, H.M. 2007. *The periglacial environment. Third edition.* Chichester, etc., Wiley InterScience.
- French, H.M. 2011a. Frozen sediments and previously-frozen sediments. In Martini, I.P., H.M. French and A. Pérez Alberti, eds. *Ice-marginal and periglacial processes and sediments.* London, Geological Society, 153–166. (GSL Special Publication 354.) (10.1144/SP354.9.)
- French, H.M. 2011b. Periglacial. In Singh, V.P., P. Singh and U.K. Haritashya, eds. *Encyclopedia of snow, ice and glaciers.* Dordrecht, etc., Springer, 827–841. (Encyclopedia of Earth Sciences Series.)
- French, H.M. and M. Guglielmin. 1999. Observations on the ice-marginal, periglacial geomorphology of Terra Nova Bay, northern Victoria Land, Antarctica. *Permafrost Periglac. Process.*, **10**(4), 331–347. (10.1002/(SICI)1099-1530(199910/12)10:4<331::AID-PPP328>3.0.CO;2-A.)
- French, H.M. and M. Guglielmin. 2000a. Cryogenic weathering of granite, northern Victoria Land, Antarctica. *Permafrost Periglac. Process.*, **11**(4), 305–314. (<http://tinyurl.com/oa68jrc>.)
- French, H.M. and M. Guglielmin. 2000b. Frozen ground phenomena in the vicinity of Terra Nova Bay, northern Victoria Land, Antarctica: a preliminary report. *Geografiska Annaler*, **82A**(4), 513–526. (10.1111/j.0435-3676.2000.00138.x.)
- French, H.M. and M. Guglielmin. 2002a. Cryogenic grooves on a granite nunatak, northern Victoria Land, Antarctica. *Nor. Geogr. Tidsskr.*, **56**(2), 112–116. (10.1080/002919502760056431.)
- French, H.M. and M. Guglielmin. 2002b. Observations on granite weathering phenomena, Mount Keinath, northern Victoria Land, Antarctica. *Permafrost Periglac. Process.*, **13**(3), 231–236. (10.1002/ppp.423.)
- Frey, J. 2002. Earth's little ice age: a study of glacial ice cores in the Antarctic is showing significant new data in the field of global climate change. *Natl. Post [Don Mills]*, A.13.
- Frid, A., M.R. Heithaus and L.M. Dill. 2007. Dangerous dive cycles and the proverbial ostrich. *Oikos*, **116**(5), 893–902. (10.1111/j.0030-1299.2007.15766.x.)
- Friedrich, O., J.O. Herrle, P.A. Wilson, M.J. Cooper, J. Erbacher and C. Hemleben. 2009. Early Maastrichtian carbon cycle perturbation and cooling event: implications from the South Atlantic Ocean. *Paleoceanography*, **24**(2), PA2211. (10.1029/2008PA001654.)
- Friesen, J. 2007. 'Stressed' Antarctic tourists begin journey home. *Globe & Mail [Toronto]*, 26 November, A.6.
- Fritts, D.C., D.M. Riggan, B.B. Balsley and R.G. Stockwell. 1998. Recent results with an MF radar at McMurdo, Antarctica: characteristics and variability of motions near 12-hour period in the mesosphere. *Geophys. Res. Lett.*, **25**(3), 297–300. (10.1029/97GL03702.)
- Fritts, D.C., D. Janches and W.K. Hocking. 2010a. Southern Argentina Agile Meteor Radar: initial assessment of gravity wave momentum fluxes. *J. Geophys. Res.*, **115**(D19), D19123. (10.1029/2010JD013891.)
- Fritts, D.C. and 10 others (including W.K. Hocking). 2010b. Southern Argentina Agile Meteor Radar: system design and initial measurements of large-scale winds and tides. *J. Geophys. Res.*, **115**(D18), D18112. (10.1029/2010JD013850.)
- Fritts, D.C., D. Janches, W.K. Hocking, N.J. Mitchell and M.J. Taylor. 2012a. Assessment of gravity wave momentum flux measurement capabilities by meteor radars having different transmitter power and antenna configurations. *J. Geophys. Res.*, **117**(D10), D10108. (10.1029/2011JD017174.)

- Fritts, D.C., D. Janches, H. Iimura, W.K. Hocking, J.V. Bageston and N.M.P. Leme. 2012b. Drake Antarctic Agile Meteor Radar first results: configuration and comparison of mean and tidal wind and gravity wave momentum flux measurements with Southern Argentina Agile Meteor Radar. *J. Geophys. Res.*, **117**(D2), D02105. (10.1029/2011JD016651.)
- Fritz, J.J., P.J. Neale, R.F. Davis and J.A. Peloquin. 2008. Response of Antarctic phytoplankton to solar UVR exposure: inhibition and recovery of photosynthesis in coastal and pelagic assemblages. *Mar. Ecol. Progr. Ser.*, **365**, 1–16. (10.3354/meps07610.)
- Froelich, P.N. and 11 others (including D.C. Nobes and C.J. Mwenifumbo). 1991. Chapter 28. Biogenic opal and carbonate accumulation rates in the Subantarctic South Atlantic: the Late Neogene of Meteor Rise Site 704. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 114. Subantarctic South Atlantic*. College Station, TX, Texas A & M University. Ocean Drilling Program, February, 515–550. (10.2973/odp.proc.sr.114.149.1991.)
- Fromm, M.D., B.J. Stocks and R. Hoff. 2007. Polar pollution by pyroconvection: assessing the transport of smoke into the Arctic and Antarctic. *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., A44C-03. (www.agu.org/meetings/fm07/waisfm07.html.)
- Froneman, P.W., E.A. Pakhomov and M.G. Balarin. 2004. Size-fractionated phytoplankton biomass, production and biogenic carbon flux in the eastern Atlantic sector of the Southern Ocean in late austral summer 1997–1998. *Deep-Sea Res. II*, **51**(22–24), 2715–2729. (10.1016/j.dsr2.2002.09.001.)
- Fryxell, G.A., J.R. Johansen and G.J. Doucette. 1982. Phytoplankton cultures and collections around South Georgia. *Antarct. J. U.S.*, **17**(5), 1982 Review, 160–162. (https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXVIIIn5/AJUSvXVIIIn5p160.pdf.)
- Fuentes, V., A. Atencio, G. Esnal and I. Schloss. 2007. Rol del zooplancton en la dinámica del carbono en Caleta Potter (Isla 25 de Mayo, Antártida) [Role of zooplankton in the carbon flux in Potter Cove (King George Island, Antarctica)]. *Actas del VI° Simposio Argentino y III° Latinoamericano sobre Investigaciones Antárticas, 10–14 Septiembre 2007, Buenos Aires, Argentina*. Buenos Aires, Dirección Nacional del Antártico. Instituto Antártico Argentino, Extended abstract CVCO346, CD-ROM. [In Spanish] (www.dna.gov.ar/CIENCIA/SANTAR07/CD/PDF/CVCO346.PDF.)
- Fuentes, V., S.B. Schnack-Schiel, I.R. Schloss and G.B. Esnal. 2008. Mesozooplankton of Potter Cove: community composition and seasonal distribution in 2002 and 2003. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **571**, 75–84. (http://epic.awi.de/28602/1/Wie2008b.pdf.)
- Fujimura, K.E., K.N. Egger, R. Upton, K.K. Newsham and D.J. Read. 2008. Characterization of root-associated fungi from High Arctic tundra and similarity to Antarctic fungal communities. *3rd International Conference on Polar and Alpine Microbiology, Banff, Alberta, Canada, 11–15 May 2008. Program & abstracts*. Edmonton, Alta., University of Alberta. Department of Biological Sciences, Abstract S5-3, 12. (www.polaralpinemicrobiology.com/PAM_Program.pdf.)
- Fujino, K., E.L. Lewis and R.G. Perkin. 1974. The freezing point of seawater at pressures up to 100 bars. *J. Geophys. Res.*, **79**(12), 1792–1797. (Correction: **79**(30), 20 October 1974, p.4558.) (10.1029/JC079i012p01792; 10.1029/JC079i030p04558.)
- Fukuchi, M. and K.E. Conlan. 2010. Xth SCAR International Biology Symposium on “Antarctic Biology in the 21st Century-Advances in and beyond IPY-”: a brief overview. *Polar Sci.*, **4**(2), 93–96. (10.1016/j.polar.2010.05.005.)
- Fulton, T.L. and C. Strobeck. 2010. Multiple fossil calibrations, nuclear loci and mitochondrial genomes provide new insight into biogeography and divergence timing for true seals (Phocidae, Pinnipedia). *J. Biogeogr.*, **37**(5), 814–829. (10.1111/j.1365-2699.2010.02271.x.)
- Fyfe, J.C. 2003. Extratropical Southern Hemisphere cyclones: harbingers of climate change? *J. Climate*, **16**(17), 2802–2805. (10.1175/1520-0442(2003)016<2802:ESHCHO>2.0.CO;2.)

- Fyfe, J.C. 2006. Southern Ocean warming due to human influence. *Geophys. Res. Lett.*, **33**(19), L19701. (10.1029/2006GL027247.)
- Fyfe, J. and O. Saenko. 2005a. Honey, I shrunk the ocean! In Dunkley, R., ed. *Sea to sky/Entre ciel et mer. 39th CMOS Congress/39ième Congrès de la SCMO, 31 May–03 June/31 mai–03 juin, 2005, Vancouver/Richmond, British Columbia. Program and Abstracts/Programme et résumés*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 3C2.2, 119. (www.cmos.ca/CongressAbstracts/cong3905.pdf.)
- Fyfe, J.C. and O.A. Saenko. 2005b. Human-induced change in the Antarctic Circumpolar Current. *J. Climate*, **18**(15), 3068–3073. (10.1175/JCLI3447.1.)
- Fyfe, J. and O. Saenko. 2006a. Simulated changes in the extratropical Southern Hemisphere winds and currents. *40th CMOS Congress, Weather, Oceans and Climate, Exploring the Connections, 29 May–1 June 2006, Toronto, Ontario. Abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 4B4.3. (www.cmos.ca/CongressAbstracts/cong4006.pdf.)
- Fyfe, J.C. and O.A. Saenko. 2006b. Simulated changes in the extratropical Southern Hemisphere winds and currents. *Geophys. Res. Lett.*, **33**(6), L06701. (10.1029/2005GL025332.)
- Fyfe, J.C. and O.A. Saenko. 2006c. Southern Ocean changes due to human influence. *CARN Newsl.*, **22**, 5–6. (www.polarcom.gc.ca/uploads/Publications/(CARN)/carn_vol22_eng.pdf.)
- Fyfe, J. and M. Sigmond. 2011. Impacts of stratospheric ozone depletion on the Southern Ocean and Antarctic sea-ice. *Ocean, Atmosphere and the Changing Pacific/Océan, Atmosphère et le Pacifique en Transition, 45th CMOS Congress/45e Congrès de la SCMO, 5–9 June/juin 2011, Victoria, BC. Program and Abstracts/Programme et résumés*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 4875, digital media. (https://www1.cmos.ca/abstracts/congress_schedule.asp.)
- Fyfe, J.C., G.J. Boer and G.M. Flato. 1999. The Arctic and Antarctic oscillations and their projected changes under global warming. *Geophys. Res. Lett.*, **26**(11), 1601–1604. (10.1029/1999GL900317.)
- Fyfe, J.C., O.A. Saenko, K. Zickfeld, M. Eby and A.J. Weaver. 2007. The role of poleward-intensifying winds on Southern Ocean warming. *J. Climate*, **20**(21), 5391–5400. (10.1175/2007JCLI1764.1.)
- Fyfe, J.C., L. Carter, A. Mackintosh, A.J. Weaver and K.J. Meissner. 2010. Surface melting over ice shelves and ice sheets as assessed from modeled surface air temperatures. *J. Climate*, **23**(7), 1929–1936. (10.1175/2009JCLI3122.1.)
- Fyfe, J.C., N.P. Gillett and G.J. Marshall. 2012. Human influence on extratropical Southern Hemisphere summer precipitation. *Geophys. Res. Lett.*, **39**(23), L23711. (10.1029/2012GL054199.)
- Gagné, P. 2006. *Case Study 06. Cybercartographic Atlas of Antarctica: overview*. Vancouver, BC, University of British Columbia. School of Library, Archival & Information Studies, International Research on Permanent Authentic Records in Electronic Systems (InterPARES). (InterPARES 2 Project.) (www.interpares.org/display_file.cfm?doc=ip2_cs06_overview.pdf.)
- Gair, H.S., G. Norris and J. Ricker. 1965. Early Mesozoic microfloras from Antarctica. *New Zeal. J. Geol. Geophys.*, **8**(2), 231–235. (10.1080/00288306.1965.10428109.)
- Galand, P.E. and 7 others (including C. Lovejoy). 2012. Pole to pole biogeography of marine bacterial communities. *Voyage of Discovery, 2012 ASLO Aquatic Sciences Meeting, 8–13 July 2012, Lake Biwa, Otsu, Shiga, Japan*. Waco, TX, American Society of Limnology and Oceanography, digital media. (Abstract 9700.) (www.sgmeet.com/aslo/japan2012/viewabstract2.asp?AbstractID=9700.)
- Galbraith, E.D., A. Gnanadesikan, J.P. Dunne and M.R. Hiscock. 2010. Regional impacts of iron-light colimitation in a global biogeochemical model. *Biogeosci. (BG)*, **7**(3), 1043–1064. (10.5194/bg-7-1043-2010.)
- Galbraith, E.D. and 11 others. 2011. Climate variability and radiocarbon in the CM2Mc Earth system model. *J. Climate*, **24**(16), 4230–4254. (10.1175/2011JCLI3919.1.)

- Galbraith, E.D., S. Yang and J.A. Higgins. 2012. Coupled climate–carbon feedbacks to the development of the Antarctic Circumpolar Current. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, PP23C-2063, digital media. ([http://fallmeeting.agu.org/2012/.](http://fallmeeting.agu.org/2012/))
- Galimberti, F., A. Gallastroni and S. Sanvito. 2002. Behavioural and morphometric measurements of parental investment in southern elephant seals at the Falkland Islands. *Polar Biol.*, **25**(6), 399–403. (10.1007/s00300-001-0355-6.)
- Gall, M.P., R. Strzepek, M. Maldonado and P.W. Boyd. 2001. Phytoplankton processes. Part 2. Rates of primary production and factors controlling algal growth during the Southern Ocean Iron Release Experiment (SOIREE). *Deep-Sea Res. II*, **48**(11–12), 2571–2590. (10.1016/S0967-0645(01)00009-1.)
- Gallant, G. 2002. Antarctic explorer; Fredericton teacher sees 'calving' ice and curious penguins. *Telegraph-J. [Saint John]*.
- Galley, R.J. 2012. Book reviews. The Cryosphere, by Shawn Marshall. *Arctic*, **65**(3), 350–351.
- Galluchon, S. 1997. Proportion of masking in underwater vocalizations of the Weddell seal (*Leptonychotes Weddellii*). Honours thesis, Department of Biology, University of New Brunswick, Saint John, N.B.
- Gan, J., L.A. Mysak and D.N. Straub. 1996. Simulation of the South Atlantic Ocean circulation with an eddy resolving model. [Abstract OP72A-10.] *Eos, Trans. AGU*, **77**(46), Fall Meet. Suppl., F337.
- Gan, J., L.A. Mysak and D.N. Straub. 1998. Simulation of the South Atlantic Ocean circulation and its seasonal variability. *J. Geophys. Res.*, **103**(C5), 10,241–10,251. (10.1029/98JC00367.)
- Gao, R.S. and 21 others (including C.T. McElroy). 1997. Partitioning of the reactive nitrogen reservoir in the lower stratosphere of the Southern Hemisphere: observations and modeling. *J. Geophys. Res.*, **102**(D3), 3935–3949. (10.1029/96JD01967.)
- Gardner, A., G. Moholdt, J.G. Cogley, A.A. Arendt and J.M. Wahr. 2012. Narrowing the gap: a consensus estimate of glacier mass wastage for 2003–09. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, C53B-0848, digital media. ([http://fallmeeting.agu.org/2012/.](http://fallmeeting.agu.org/2012/))
- Garnham, C.P., R.L. Campbell and P.L. Davies. 2011. Anchored clathrate waters bind antifreeze proteins to ice. *Proc. Natl. Acad. Sci. USA (PNAS)*, **108**(18), 7363–7367. (10.1073/pnas.1100429108.)
- Garrett, H. 2001a. Anticipation of Antarctic adventure; Retired teacher Holly Garrett has recently returned from accompanying a Canadian high-school expedition to Antarctica. She has filed three reports, one written just before she left, one en route to the Antarctic, and the last instalment upon her return. Parts 2 and 3 will appear tomorrow and Thursday. *Hamilton Spectator*, 23 January, A.13.
- Garrett, H. 2001b. From the expedition diary. This is the second of three reports by Ancaster retired teacher Holly Garrett on the Students on Ice Canadian high school expedition to Antarctica. This article was written aboard their ship, the Lyubov Orlova. *Hamilton Spectator*, 24 January, A.11.
- Garrett, H. 2001c. Polar bears join the penguins. This is the last of three articles about Students on Ice, a Canadian high school expedition to the Antarctic. Retired teacher Holly Garrett wrote this report after returning home to Ancaster. *Hamilton Spectator*, 25 January, A.11.
- Garrett, J. 1983. FGGE buoys: 5 years later. *Eos, Trans. AGU*, **64**(49), 962. (10.1029/EO064i049p00962-01.)
- Garrity, C. 1990. Effect of snow on microwave ice signatures in the Weddell Sea, Antarctic. *URSI Com. F Conference on Remote Sensing Signatures, 15–17 May 1990, Hyannis, MA, U.S.A.* Ghent, Belgium, International Union of Radio Science (URSI). Commission F: Wave Propagation and Remote Sensing, presentation.
- Garrity, C. 1991. Passive microwave remote sensing of snow-covered floating ice during spring conditions in the Arctic and Antarctic. Ph.D. thesis, York University, North York, Ont., 348 pp.

- Garrity, C. 1992a. Characterization of snow on floating ice and case studies of brightness temperature change during the onset of melt. In Carsey, F.D. and 7 others, eds. *Microwave remote sensing of sea ice*. Washington, DC, American Geophysical Union, 313–328. (Geophysical Monograph Series 68.)
- Garrity, C. 1992b. Inter-comparison of satellite derived passive microwave ice products. *European "International Space Year" Conference, Munich, Germany, 30 March–4 April 1992, Vol. 3. Earth observation space programmes*. Noordwijk, The Netherlands, European Space Agency, 1387–1391.
- Garrity, C. 1993a. *Electrical and physical properties of snow during the 1992 Winter Weddell Sea Experiment*. Ottawa, Ont., Norland Science and Engineering Ltd. (Contract Report 159H.)
- Garrity, C. 1993b. *ISY real-time ice monitoring demonstration: Weddell Sea campaign activities on RV Polarstern*. Noordwijk, Netherlands, March, European Space Agency. (ESA/ESTEC Purchase Order 125514.)
- Garrity, C. 1993c. *Preliminary analysis of remote sensing data during the 1992 Winter Weddell Sea Experiment RV Polarstern*. Ottawa, Ont., Norland Science and Engineering Ltd. (Contract Report 159H.)
- Garrity, C. 1999. Cooking under the snow at the Antarctic German station Neumayer. *Seventh Continent [Montréal]*, **8**, 12–15.
- Garrity, C. 2000. Real-time satellite information. *Ber. Polarforsch./Rep. Pol. Res.*, **364**, 119–125. (<http://epic.awi.de/26544/1/BerPolarforsch2000364.pdf>.)
- Garrity, C. and R.O. Ramseier. 1993. A feasibility study of an ISY real time ice monitoring demonstration: the Weddell Sea RV "Polarstern" campaign. *OKHOTSK93, 8th International Symposium on Sea Ice and the Sea of Okhotsk and ISY (International Space Year)/Polar Ice Extent Workshop, 1–5 February 1993, Mombetsu, Hokkaido, Japan. Proceedings*. Mombetsu, Japan, Okhotsk Sea and Cold Ocean Research Association, 43–62.
- Garrity, C. and A. Bochert. 1994. International Space Year (ISY) activities. *Ber. Polarforsch.*, **140**, 59–62. (<http://epic.awi.de/26318/1/BerPolarforsch1994140.pdf>.)
- Garrity, C., R.O. Ramseier and I.G. Rubinstein. 1990. Snow wetness and SSM/I brightness temperatures for the Weddell Sea. In Mills, R., ed. *IGARSS '90, Remote sensing science for the nineties, 10th International Geoscience and Remote Sensing Symposium, 20–24 May 1990, College Park, Maryland. Proceedings, Vol. 2*. New York, Institute of Electrical and Electronics Engineers, 1521–1524. (<http://tinyurl.com/p94y7cn>.)
- Garrity, C., W. Dimmler, U. Lembke and H. Pabst. 1998. The modern approach to satellite remote sensing of sea ice. *Ber. Polarforsch./Rep. Pol. Res.*, **274** 71–75. (<http://tinyurl.com/nqtnqku>.)
- Garrity, C., R.O. Ramseier, R. Peinert, S. Kern and G. Fischer. 2005. Water column particulate organic carbon modeled fluxes in the ice-frequented Southern Ocean. *J. Mar. Syst.*, **56**(1–2), 133–149. (10.1016/j.jmarsys.2004.09.009.)
- Gattinger, R.L., W.F.J. Evans, I.C. McDade, D.A. Degenstein and E.J. Llewellyn. 2009. Observation of the chemiluminescent $\text{NO} + \text{O} \rightarrow \text{NO}_2 + h\nu$ reaction in the upper mesospheric dark polar regions by OSIRIS on Odin. *Can. J. Phys.*, **87**(8), 925–932. (10.1139/P09-051.)
- Gattinger, R.L. and 10 others (including I.C. McDade, A.L. Alfaro Suzán, C.D. Boone, K.A. Walker, P.F. Bernath, W.F. J. Evans, D.A. Degenstein, P. Sheese and E.J. Llewellyn). 2010. NO_2 air afterglow and O and NO densities from Odin-OSIRIS night and ACE-FTS sunset observations in the Antarctic MLT region. *J. Geophys. Res.*, **115**(D12), D12301. (10.1029/2009JD013205.)
- Gauthier, M. 2005. Cybercartographic Atlas of Antarctica project: user-driven approach. *Environment Canada Information Management/Information Technology Symposium, Saint-Sauveur, Quebec*. Ottawa, Ont., Environment Canada, presentation.
- Gazette [Montréal]. 1991. Canada signs historic Antarctic treaty. *Gazette [Montréal]*, 5 October, A.8.
- Gazette [Montréal]. 1994. Canadian, American Antarctic tourists stranded on Falkland Islands. *Gazette [Montréal]*, 22 March, A.9.

- Gazze, M. 2010. Antarctic artifacts to be auctioned: collection of photos from Canadian explorer Sir Charles Seymour Write [*sic*] to be sold in London next month. *Times & Transcript [Moncton]*, 30 August, C.8.
- Geddes, J.A. and G.W.K. Moore. 2007. A climatology of sea ice embayments in the Cosmonaut Sea, Antarctica. *Geophys. Res. Lett.*, **34**(2), L02505. (10.1029/2006GL027910.)
- Geilfus, N.-X. and 7 others (including G. Carnat, B. Else, H. Thomas and E. Shadwick). 2010. Air–ice CO₂ fluxes and pCO₂ dynamics in the Arctic coastal area (Amundsen Gulf, Canada). *Geophys. Res. Abstr.*, **12**, 2010 EGU Gen. Assem., EGU2010-10167. (<http://tinyurl.com/qcdmyv8>.)
- Gelatt, T.S., C.S. Davis, D.B. Siniff and C. Strobeck. 2001a. Molecular evidence for twinning in Weddell seals (*Leptonychotes weddelli*). *J. Mamm.*, **82**(2), 491–499. (www.jstor.org/stable/1383729.)
- Gelatt, T.S., C.S. Davis, M. Cameron, D.B. Siniff and C. Strobeck. 2001b. The old and the new: integrating population ecology and population genetics of Weddell seals. In Davison, W., C. Howard-Williams and P. Broady, eds. *7th SCAR Biological Symposium, September 1998, Christchurch, New Zealand. Proceedings*. Canterbury, New Zealand, New Zealand Natural Sciences, 63–70.
- Gelatt, T.S., C.S. Davis, I. Stirling, D.B. Siniff, C. Strobeck and I. Delisle. 2010. History and fate of a small isolated population of Weddell seals at White Island, Antarctica. *Conserv. Genetics*, **11**(3), 721–735. (10.1007/s10592-009-9856-6.)
- Gelter, H., M. Lamers and P. Maher. 2010. Antarctic tourist experience - a comparison of SOI students with cruise tourists. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 383078, digital media. (www.ipy-osc.no/abstract/383078.)
- George, E.M. and 64 others (the SPT Collaboration that includes A. Bender, T. de Haan, M.A. Dobbs, J. Kennedy and K. Vanderlinde). 2012. Performance and on-sky optical characterization of the SPTpol instrument. In Holland, W.S. and J. Zmuidzinas, eds. *Millimeter, submillimeter, and far-infrared detectors and instrumentation for astronomy VI*. Bellingham, WA, International Society for Optical Engineering, 84521F. (SPIE Proceedings 8452, Part One.) (10.1117/12.925586.)
- Georgescu, M.D. and B.T. Huber. 2007. Taxonomic revision of the late Campanian-Maastrichtian (Late Cretaceous) planktonic foraminiferal genus *Rugotruncana* Brönnimann and Brown, 1956, and a new paleontological species concept for planktonic Foraminifera. *J. Foram. Res.*, **37**(2), 150–159. (10.2113/gsjfr.37.2.150.)
- Gerber, L.R., K.D. Hyrenbach and M.A. Zacharias. 2005. Do the largest protected areas conserve whales or whalers? *Science*, **307**(5709), 525–526. (10.1126/science.1106120.)
- Gerber, E.P. and 26 others (including D.A. Plummer, J.F. Scinocca and T.G. Shepherd). 2010. Stratosphere–troposphere coupling and annular mode variability in chemistry–climate models. *J. Geophys. Res.*, **115**(D3), Special Section, D00M06. (10.1029/2009JD013770.)
- Gerland, S. and 12 others (including E. Carmack). 2007. Chapter 5. Ice in the sea. In Eamer, J., ed. *Global outlook for ice and snow*. Nairobi, United Nations Environment Programme, 63–96.
- Gersonde, R. and 27 others (including A.T. Hewitt), eds. 1999. *Proceedings of the Ocean Drilling Program: initial reports. Southern Ocean paleoceanography: covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution; Cape Town, South Africa, to Punta Arenas, Chile; sites 1088–1094; 9 December 1997–5 February 1998. Vol. 177*. College Station, TX, Texas A & M University. Ocean Drilling Program, April. (10.2973/odp.proc.ir.177.1999.)
- Gersonde, R., D.A. Hodell and P. Blum, eds. 2003. *Proceedings of the Ocean Drilling Program: scientific results. Southern Ocean paleoceanography: covering Leg 177 of the cruises of the drilling vessel JOIDES Resolution. Cape Town, South Africa, to Punta Arenas, Chile: sites 1088–1094, 9 December 1997–5 February 1998. Proceedings of the Ocean Drilling Program: scientific results. Vol. 177*. College Station, TX, Texas A & M University. Ocean Drilling Program, June. (A.T. Hewitt was a Shipboard Scientist.) (10.2973/odp.proc.sr.177.2003.)

- Ghent, E.D. and R.A. Henderson. 1968. Geology of the Mt Falconer Pluton, lower Taylor Valley, south Victoria Land, Antarctica. *New Zeal. J. Geol. Geophys.*, **11**(4), 851–880. (10.1080/00288306.1968.10420757.)
- Ghent, E.D. 1972. Electron microprobe study of allanite from the Mount Falconer quartz monzonite pluton, lower Taylor Valley, South Victoria Land, Antarctica. *Can. Mineral.*, **11**(2), 526–530. (<http://canmin.geoscienceworld.org/content/11/2/526.full.pdf+html>.)
- Ghiglione, J.-F. *and 8 others* (including C. Lovejoy). 2010. Pole to pole biogeography of surface and deep marine bacterial communities. *ISME14, The power of the small. 14th International Symposium on Microbial Ecology (ISME), 19–24 August 2012, Copenhagen, Denmark*. Wageningen, The Netherlands, International Society for Microbial Ecology (ISME), Abstract, digital media. ([www.isme-microbes.org/sites/isme-microbes.org/files/ISME14 - Abstracts Contributed Sessions.pdf](http://www.isme-microbes.org/sites/isme-microbes.org/files/ISME14_-_Abstracts_Contributed_Sessions.pdf).)
- Ghiglione, J.-F. *and 10 others* (including C. Lovejoy). 2012. Pole-to-pole biogeography of surface and deep marine bacterial communities. *Proc. Natl. Acad. Sci. USA (PNAS)*, **109**(43), 17,633–17,638. (10.1073/pnas.1208160109.)
- Gibson, E.K., Jr *and 6 others* (including H. Vali). 1997. The search for possible life on Mars. *American Association of Petroleum Geologists 1997 Annual Convention, 6–9 April 1997, Dallas, TX. Annual meeting abstracts*. Tulsa, OK, American Association of Petroleum Geologists, 40.
- Gibson, J.A.E. 1999a. The meromictic lakes and stratified marine basins of the Vestfold Hills, East Antarctica. *Antarct. Sci.*, **11**(2), 175–192. (10.1017/S0954102099000243.)
- Gibson, J.A.E. 1999b. The role of ice in determining mixing intensity in Ellis Fjord, Vestfold Hills, East Antarctica. *Antarct. Sci.*, **11**(4), 419–426. (10.1017/S095410209900053X.)
- Gibson, J.A.E. and T.W. Trull. 1999. Annual cycle of $f\text{CO}_2$ under sea-ice and in open water in Prydz Bay, East Antarctica. *Mar. Chem.*, **66**(3–4), 187–200. (10.1016/S0304-4203(99)00040-7.)
- Gibson, J.A.E., H.J.G. Dartnall and K.M. Swadling. 1998. On the occurrence of males and production of ephippial eggs in populations of *Daphniopsis studeri* (Cladocera) in lakes of the Vestfold and Larsemann Hills, East Antarctica. *Polar Biol.*, **19**(2), 148–150. (10.1007/s003000050227.)
- Gilbert, J.A., P.L. Davies and J. Laybourn-Parry. 2005. A hyperactive, Ca^{2+} -dependent antifreeze protein in an Antarctic bacterium. *FEMS Microbiol. Lett.*, **245**(1), 67–72. (10.1016/j.femsle.2005.02.022.)
- Gilbert, R. 2000. Environmental assessment from the sedimentary record of high-latitude fiords. *Geomorphology*, **32**(3–4), 295–314. (10.1016/S0169-555X(99)00101-4.)
- Gilbert, R. 2005. Glacimarine sedimentology of the Antarctic Peninsula. *CARN Newsl.*, **19**, 5–6. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/19.pdf.)
- Gilbert, R. and Å. Chong. 1999. Glacimarine studies on the Antarctic Peninsula. *CARN Newsl.*, **8–9**, 8. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/8-9.pdf.)
- Gilbert, R. and E.W. Domack. 2002. Glacimarine record of the disintegration of the Larsen A Ice Shelf, Antarctic Peninsula *Workshop on Antarctic Peninsula Climate Variability: a Historical and Paleoenvironmental Perspective, 3–5 April 2002, Hamilton College, Clinton, NY*. Clinton, NY, Hamilton College. Environmental Studies Program, digital media. (<http://academics.hamilton.edu/workshops/antarctica/abstracts/domack.html>.)
- Gilbert, R. and E. Domack. 2003. Sedimentary evidence of the recent break-up of the northern Larsen Ice Shelf: implications for assessing the history of Antarctic ice shelves. *XVI INQUA Congress. Shaping the Earth: a Quaternary perspective, 23–30 July 2003, Reno, Nevada. Program with Abstracts*. Boulder, CO, Geological Society of America. International Union for Quaternary Research, 226. (Paper 86-3.) (http://gsa.confex.com/gsa/inqu/finalprogram/abstract_53581.htm.)
- Gilbert, R. and E.W. Domack. 2003. Sedimentary record of disintegrating ice shelves in a warming climate, Antarctic Peninsula. *Geochem. Geophys. Geosyst. G³*, **4**(4), 1038. (10.1029/2002GC000441.)

- Gilbert, R., E.W. Domack and A. Camerlenghi. 2003a. Deglacial history of the Greenpeace Trough: ice sheet to ice shelf transition in the northwestern Weddell Sea. In Domack, E., A. Leventer, A. Burnett, R. Bindshadler, P. Convey and M. Kirby, eds. *Antarctic Peninsula climate variability: historical and paleoenvironmental perspectives*. Washington, DC, American Geophysical Union, 195–204. (Antarctic Research Series 79.)
- Gilbert, R., Å. Chong, R.B. Dunbar and E.W. Domack. 2003b. Sediment trap records of glacial marine sedimentation at Müller Ice Shelf, Lallemand Fjord, Antarctic Peninsula. *Arct. Ant. Alp. Res.*, **35**(1), 24–33. (10.1657/1523-0430(2003)035[0024:STROGS]2.0.CO;2.)
- Gilbert, R., E.W. Domack and D. Tewksbury. 2004. Sediment content in Antarctic iceberg fragments sufficient to sink the ice. *Géogr. Phys. Quat.*, **58**(1), 147–149. (<http://tinyurl.com/pw9ytnq>.)
- Gillett, N.P. and S.-W. Son. 2011. Chapter 7. Impact of polar ozone loss on the troposphere. In Muller, R., ed. *Stratospheric ozone depletion and climate change*. Cambridge, UK, RSC Publishing. Royal Society of Chemistry, 190–213. (10.1039/9781849733182-00190.)
- Gillett, N.P. and D.W.J. Thompson. 2003a. Simulation of recent Southern Hemisphere climate change. *Science*, **302**(5643), 273–275. (10.1126/science.1087440.)
- Gillett, N.P. and D.W.J. Thompson. 2003b. Simulation of recent Southern Hemisphere climate change. *29th Annual Meeting of the Canadian Geophysical Union, 10–14 May 2003, Banff, Alberta. Program and abstracts*. Calgary, Alta, Canadian Geophysical Union, Abstract 192, CD-ROM.
- Gillett, N.P. and D.W.J. Thompson. 2004. Simulation of the Antarctic climate response to ozone depletion. *CARN Newsl.*, **18**, 6–9. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/18.pdf.)
- Gillett, N.P., M.R. Allen and K.D. Williams. 2003. Modelling the atmospheric response to doubled CO₂ and depleted stratospheric ozone using a stratosphere-resolving coupled GCM. *Q. J. R. Meteorol. Soc.*, **129**(589), Part C, 947–966. (10.1256/qj.02.102.)
- Gillett, N., V. Arora and K. Zickfeld. 2010. Climate evolution following a complete cessation of carbon dioxide emissions. *Our Earth, our air, our water, our future. 44th Annual CMOS Congress, 36th Annual Scientific Meeting of CGU, 3rd Joint CMOS-CGU Congress, 31 May–4 June, Ottawa, Ontario. Congress abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 3660, 82. (www.cmos.ca/CongressAbstracts/cong4410.pdf.)
- Gillett, N.P. and 13 others (including C.A. McLinden, D.A. Plummer and J.F. Scinocca). 2011a. Attribution of observed changes in stratospheric ozone and temperature. *Atmos. Chem. Phys. (ACP)*, **11**(2), 599–609. (10.5194/acp-11-599-2011.)
- Gillett, N.P., V.K. Arora, K. Zickfeld, S.J. Marshall and W.J. Merryfield. 2011b. Ongoing climate change following a complete cessation of carbon dioxide emissions. *Nature Geosci.*, **4**(2), 83–87. (10.1038/ngeo1047.)
- Gillies, J.A. and W.G. Nickling. 2012. Vertical distribution of grain size and size-segregated saltation flux in a polar desert environment: McMurdo Dry Valleys, Antarctica. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, EP31E-08, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Gillies, J., W. Nickling and M. Tilson. 2009a. A preliminary evaluation of the movement of aeolian gravel ripples, Wright Valley, Antarctica. *Ancient landscapes - modern perspectives. 7th International Conference on Geomorphology (ANZIAG), 6–11 July 2009, Melbourne, Australia. Program and abstracts*. Melbourne, Vic., Australian and New Zealand Geomorphology Group (Inc.), digital media. (www.geomorphology2009.com/cd-abstracts/Papers/320.pdf.)
- Gillies, J.A., W.G. Nickling and M. Tilson. 2009b. Ventifacts and wind-abraded rock features in the Taylor Valley, Antarctica. *Geomorphology*, **107**(3–4), 149–160. (10.1016/j.geomorph.2008.12.007.)
- Gillies, J.A., W.G. Nickling, M. Tilson and E. Furtak-Cole. 2012. Wind-formed gravel bed forms, Wright Valley, Antarctica. *J. Geophys. Res.*, **117**(F4), F04017. (10.1029/2012JF002378.)

- Giovinetto, M. 1994. Book reviews. Antarctic meteorology and climatology: studies based on automatic weather stations, Edited by D.H. Bromwich and C.R. Stearns, American Geophysical Union, Washington, D.C. (1993). 207 pages plus disk. \$70. ISBN 0 87590 839 X. *Antarct. Sci.*, **6**(4), 541–542. (10.1017/S0954102094220801.)
- Giovinetto, M.B. and C.R. Bentley. 1985. Surface balance in ice drainage systems of Antarctica. *Antarct. J. U.S.*, **20**(4), 6–13. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXXn4.pdf>.)
- Giovinetto, M.B. and C. Bull. 1987. Summary and analyses of surface mass balance compilations for Antarctica, 1960–1985. *Byrd Polar Res. Cent. Rep.*, **1**, 90. (Title inside is different from cover.)
- Giovinetto, M.B. and R.H. Compagnucci. 1993. Sea-ice extent and net mass accumulation at the surface in the sectors of the Amundsen, Bellingshausen, and Weddelle seas, Antarctica. *Segundas Jornadas de Comunicaciones sobre Investigaciones Antárticas [Communication Days on Antarctic Investigations]*. Buenos Aires, Instituto Antártico Argentino, 129–141.
- Giovinetto, M.B. and H.J. Zwally. 1996a. Annual changes in sea ice extent and of accumulation on ice sheets: implications for sea level variability. *Z. Gletscherkd. Glazialgeol.*, **31**(1–2), Part 1, 1995, 39–49.
- Giovinetto, M.B. and H.J. Zwally. 1996b. An assessment of the mass budgets of Antarctica and Greenland using accumulation derived from remotely sensed data in areas of dry snow. *Z. Gletscherkd. Glazialgeol.*, **31**(1–2), Part 1, 1995, 25–37.
- Giovinetto, M.B. and H.J. Zwally. 1997. Areal distribution of the oxygen-isotope ratio in Antarctica: an assessment based on multivariate models. *Ann. Glaciol.*, **25**, 153–158.
- Giovinetto, M.B., M.T. Bach and N.M. Waters. 1988. Variate analysis of surface mass balance in Antarctica. *BC Geogr. Ser.*, **45**, 51–70.
- Giovinetto, M.B., C.R. Bentley and C. Bull. 1989. Choosing between some incompatible regional surface-mass-balance data sets in Antarctica. *Antarct. J. U.S.*, **24**(1), 7–13. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXXIVn1.pdf>.)
- Giovinetto, M.B., N.M. Waters and C.R. Bentley. 1990. Dependence of Antarctic surface mass balance on temperature, elevation, and distance to open ocean. *J. Geophys. Res.*, **95**(D4), 3517–3531. (10.1029/JD095iD04p03517.)
- Giovinetto, M.B., D.H. Bromwich and G. Wendler. 1992. Atmospheric net transport of water vapor and latent heat across 70° S. *J. Geophys. Res.*, **97**(D1), 917–930. (10.1029/91JD02485.)
- Giovinetto, M.B., K. Yamazaki, G. Wendler and D.H. Bromwich. 1997. Atmospheric net transport of water vapor and latent heat across 60° S. *J. Geophys. Res.*, **102**(D10), 11,171–11,179. (10.1029/96JD03677.)
- Giovinetto, M. and 6 others (including N. Waters). 1998. Areal and temporal variabilities of precipitation and accumulation in sectors of Antarctica and the Southern Ocean. *International Symposium on Antarctica and Global Change: Interactions and Impacts, 13–18 July 1997, Hobart, Tasmania, Australia*. Cambridge, UK, International Glaciological Society, presentation.
- Gipp, M.R. 1998. Comparison of "seismic-scale" outcrop with seismic profiles of glacially-influenced marine sediments. [Abstract 50911.] *Geol. Soc. Am. Abstr. Prog.*, **30**(7), 1998 Toronto Annual Meeting, 387. (<http://rock.geosociety.org/absindex/annual/1998/50911.htm>.)
- Giret, A. and 13 others (including D. Weis and J. Scoates). 2003a. L'archipel des Kerguelen: les plus vieilles îles dans le plus jeune océan [Kerguelen Islands: the oldest islands in the youngest of oceans]. *Géologues*, **137**, Spécial DOM-TOM, Océan Indien, 23–39.
- Giret, A., D. Weis, X. Zhou, J.-Y. Cottin and S. Tourpin. 2003b. Géologie des îles Crozet [Geology of the Crozet Islands]. *Géologues*, **137**, Spécial DOM-TOM, Océan Indien, 15–23.
- Glasser, N., B. Goodsell, L. Copland and W. Lawson. 2006. Debris characteristics and ice-shelf dynamics in the ablation region of the McMurdo Ice Shelf, Antarctica. *J. Glaciol.*, **52**(177), 223–234. (10.3189/172756506781828692.)

- Gleason, S. 2010. Towards sea ice remote sensing with space detected GPS signals: demonstration of technical feasibility and initial consistency check using low resolution sea ice Information. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, G53C-04, digital media. (www.agu.org/cgi-bin/wais?ss=G53C-04.)
- Glen, I., L. Goossens, R.P. Voelker and F. Geisel. 1985. *Polar class Antarctic 1984: level ice resistance tests*. Montréal, Que., Transport Canada. Transportation Development Centre. Report prepared by Arctec Canada Limited, March. (TDC Report TP-7183E.)
- Glen, I.F., B. Menon and T. Roots. 1986. *Summary of the results of the Canadian participation in the Polar Class trafficability program, 1981–1985*. Montréal, Que., Transport Canada. Transportation Development Centre. Report prepared by Arctec Canada Limited, October. (TDC Report TP-7471E.)
- Globe and Mail. 1981. 6 Canadians flee ship that sinks in Antarctic. *Globe & Mail [Toronto]*, 19 December, P.13.
- Globe and Mail. 1983. Canada's interest in Antarctic role starts to heat up. *Globe & Mail [Toronto]*, 8 August, P.9.
- Globe and Mail. 1991. Canada joins signing of Antarctic Treaty. Mining, oil exploration banned on continent for at least 50 years. *Globe & Mail [Toronto]*, 5 October, A.11.
- Globe and Mail. 1995. Alberta Antarctic crash result of fatigue. *Globe & Mail [Toronto]*, 21 July, A.4.
- Godbout, N. 2004. Antarctic expedition over Christmas a thrill for Kelly Road student. *Prince George Citizen*, 23 January, 13.
- Goldberg, D., D.M. Holland and C. Schoof. 2009. Grounding line movement and ice shelf buttressing in marine ice sheets. *J. Geophys. Res.*, **114**(F4), F04026. (10.1029/2008JF001227.)
- Goldenberg, S. 2006. November 12, 1912, 11:00 A.M. Charles Seymour Wright finds death site of Antarctic explorer Robert Falcon Scott. *Beaver*, **86**(5), 10–11.
- Goldsworthy, S.D., M.-A. Lea and C. Guinet. 2004. Comparison of mass-transfer and isotopic dilution methods for estimating milk intake in Antarctic fur seal pups. *Polar Biol.*, **27**(12), 801–809. (10.1007/s00300-004-0648-7.)
- Goldsworthy, S.D., B. Page, A. Welling, M. Chambellant and C.J.A. Bradshaw. 2010. Selection of diving strategy by Antarctic fur seals depends on where and when foraging takes place. *Mar. Ecol. Progr. Ser.*, **409**, 255–266. (10.3354/meps08611.)
- Gomez, N. and 7 others. (including G. Cogley) 2009. The sensitivity of sea-level fingerprints to the geometry of ice sheet mass balance. [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., G53C-0682. (www.agu.org/meetings/fm09/waisfm09.html.)
- Gong, S.L. and 6 others (including L.A. Barrie, J.-P. Blanchet and L. Spacek). 1997. Modeling sea-salt aerosols in the atmosphere. 2. Atmospheric concentrations and fluxes. *J. Geophys. Res.*, **102**(D3), 3819–3830. (10.1029/96JD03401.)
- Gong, S.L., L.A. Barrie and M. Lazare. 2002. Canadian Aerosol Module (CAM): a size segregated simulation of atmospheric aerosol processes for climate and air quality models. 2. Global sea-salt aerosol and its budgets. *J. Geophys. Res.*, **107**(D24), 4779. (10.1029/2001JD002004.)
- Goodison, B.E., R.D. Brown and R.G. Crane. 1999a. Cryospheric systems. In King, M.D., R. Greenstone and W. Bandeen, eds. *EOS science plan: the state of science in the EOS program*. Washington, DC, U.S. National Aeronautics and Space Administration, 261–307. (http://eosps0.gsfc.nasa.gov/science_plan/Ch6.pdf.)
- Goodison, B.E., R.D. Brown and R.G. Crane. 1999b. Cryospheric systems. In Greenstone, R. and M.D. King, eds. *EOS science plan: executive summary*. Washington, DC, U.S. National Aeronautics and Space Administration, 25–41. (http://eosps0.gsfc.nasa.gov/science_plan/summary.pdf.)

- Goodwin, A.M. 1991. *Precambrian geology: the dynamic evolution of the continental crust*. San Diego, CA, Academic Press Inc.
- Goodwin, K.D., R. Tokarczyk, F.C. Stephens and E.S. Saltzman. 2005. Description of toluene inhibition of methyl bromide biodegradation in seawater and isolation of a marine toluene oxidizer that degrades methyl bromide. *Appl. Environ. Microbiol.*, **71**(7), 3495–3503. (10.1128/AEM.71.7.3495-3503.2005.)
- Goodwin, R., S. Tahirkheli, H. Lane, R. Duerr, A. Wallace and P.T. Dheerendra. 2010. The International Polar Year publications database: the first 4000. [Abstract.] *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **620**, 85–95. (<http://epic.awi.de/29702/1/Bra2010l.pdf>.)
- Goodwin, R. and 6 others. 2012a. The IPY Publications Database: Slow progress. *Glaciol. Data*, GD-34, Cold Regions: Pivot Points, Focal Points, 122–134. (<http://nsidc.org/pubs/gd/gd-34/PLC-24-proceedings-GD-34.pdf>.)
- Goodwin, R. and 6 others. 2012b. The IPY publications database: taking action to disseminate and preserve IPY knowledge. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 972, digital media. (http://132.246.11.198/2012-ipy/Abstracts_On_the_Web/pdf/ipy2012arAbstract00972.pdf.)
- Goordial, J. and 7 others (including C. Greer, W. Pollard and L. Whyte). 2010. Microbial activity and diversity through a cold, hyper-arid desert permafrost core in University Valley, Antarctica. *ISME14, The power of the small. 14th International Symposium on Microbial Ecology (ISME), 19–24 August 2012, Copenhagen, Denmark*. Wageningen, The Netherlands, International Society for Microbial Ecology (ISME), Poster 102A, digital media. (www.isme-microbes.org/sites/isme-microbes.org/files/Posters_Overview_final.pdf.)
- Goos, T. and 8 others (including T. Goos, C. Haas and E. Hudson). 2008. The international programmes for Arctic and Antarctic buoys - cornerstones of coordinated polar observing systems. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S4.1/O08, 385.
- Gooseff, M.N., S.E. Godsey, J.E. Barrett and A. Lewkowicz. 2012. The influence of snow, water bodies, and permafrost degradation on shallow soil energy and hydrology in the Arctic and Antarctic. *Geophys. Res. Abstr.*, **14**, 2012 EGU Gen. Assem., EGU2012-3943. (<http://meetingorganizer.copernicus.org/EGU2012/EGU2012-EGU2012-3943.pdf>.)
- Gorman, K.B. and 7 others. 2010. A new high-latitude record for the macaroni penguin (*Eudyptes chrysolophus*) at Avian Island, Antarctica. *Polar Biol.*, **33**(8), 1155–1158. (10.1007/s00300-010-0795-y.)
- Gorman, K.B., T.D. Williams and W.R. Fraser. 2012. Stress hormone modulation of reproductive performance within a community of Antarctic penguins (genus *Pygoscelis*). *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_14.pdf.)
- Gorman, K.B., K.E. Ruck, T.D. Williams and W.R. Fraser. 2012. Trophic interactions and variation in reproductive performance within a community of Antarctic penguins (genus *Pygoscelis*). *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (<http://tinyurl.com/q9x7spz>.)
- Gorrie, P. 2003. To the South Pole ... in style: Canadian's treks don't follow in Scott's footsteps. 'Preparation' key to smooth ski trip through Antarctic. *Toronto Star*, 5 January, A.06.
- Goryachkin, S.V. and 8 others (including C. Tarnocai). 2004. Similarities and differences in Arctic and Antarctic soil zones. In Kimble, J.M., ed. *Cryosols: permafrost-affected soils*. Berlin, Springer-Verlag, 49–70.

- Goswami, N. and 13 others (including A.P. Blaber). 2012. Using the Moon as a high-fidelity analogue environment to study biological and behavioral effects of long-duration space exploration. *Planet. Space Sci.*, **74**(1), 111–120. (10.1016/j.pss.2012.07.030.)
- Gough, D.I. 1970. Did an ice cap break Gondwanaland? *J. Geophys. Res.*, **75**(23), 4475–4477. (10.1029/JB075i023p04475.)
- Gough, D.I. 1971. Reply [to “Discussion of paper by D. I. Gough, 'Did an ice cap break Gondwanaland?'”]. *J. Geophys. Res.*, **76**(17), 4045–4046. (10.1029/JB076i017p04045.)
- Gough, B.M. 1992. American sealers, the United States Navy, and the Falklands 1830–32. *Polar Rec.*, **28**(166), 219–228. (10.1017/S0032247400020684.)
- Gove, H.E. and 8 others (including R.P. Beukens, K.H. Chang, L.R. Kilius, H.W. Lee and A.E. Litherland). 1980. Radioisotope detection with tandem electrostatic accelerators. *Nucl. Instrum. Meth.*, **168**(1–3), 425–433. (10.1016/0029-554X(80)91288-4.)
- Gower, J.F.R. 2010. Comment on “Response of the global ocean to Greenland and Antarctic ice melting” by D. Stammer. *J. Geophys. Res.*, **115**(C10), C10009. (10.1029/2010JC006097.)
- Gower, J. and S. King. 2007. An Antarctic ice-related "superbloom" observed with MERIS satellite imager. *Geophys. Res. Lett.*, **34**(15), L15501. (10.1029/2007GL029638.)
- Gower, J.F. and S. King. 2009. A global survey of intense surface plankton blooms and floating vegetation using the European MERIS satellite sensor. [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., NH42A-01. (www.agu.org/meetings/fm09/waisfm09.html.)
- Gower, J.F. and S.A. King. 2010. Validation of global observations of intense surface plankton blooms and floating vegetation using MERIS. [Abstract.] *Eos, Trans. AGU*, **91**(26), Meet. Americas Suppl., BO23A-06. (www.agu.org/meetings/ja10/program/abstract-database.php?sel=1.)
- Gower, J., S. King and P. Goncalves. 2008. Global monitoring of plankton blooms using MERIS MCI. *Int. J. Rem. Sens.*, **29**(21), 6209–6216. (10.1080/01431160802178110.)
- Gowing, W. 2007. An Antarctic 'misadventure'. *Cambridge Times*, 28 December, 8.
- Grace, S.E. 1996. Books in Review. Polar Attractions. Dean Beeby, In a Crystal Land: Canadian Explorers in Antarctica. U Toronto P \$29.95. Lisa Bloom, Gender on Ice: American Ideologies of Arctic Explorations. U. Minnesota P \$34.95/\$14.95. *Can. Lit.*, **148**, 148–150. (<http://tinyurl.com/pgw9qpc>.)
- Graham, G. 1989. Canada takes steps at both Poles. *Polar Rec.*, **25**(152), 60–61. (<http://tinyurl.com/qf385uj>.)
- Graham, J.A., K.J. Heywood, C. Chavanne and T. Tamura. 2012. Seasonal cycle of temperature and salinity across the Antarctic continental shelf and slope in the southeastern Weddell Sea. *2012 Ocean Sciences Meeting, 20–24 February 2012, Salt Lake City, Utah, USA. Abstract book*. Waco, TX, American Society of Limnology and Oceanography, 167. (Abstract 10193.) (<http://tinyurl.com/ndpxxyj>.)
- Granberg, H.B. 2010. Is Antarctica threatened by increasing CO₂? *CARN Newsl.*, **29**, 14–17. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN%20vol%2029%20Nov%202010.pdf.)
- Granberg, H.B. and M. Leppäranta. 1990. Helicopterborne remote sensing of Antarctic Sea ice using laser profiler, synchronized video and 70 mm camera during FINNARP-89. *IAHR. Symposium on Ice, Espoo, Finland, August 20–24, 1990. Proceedings, Vol. 3*. Espoo, Finland, Helsinki University of Technology. International Association for Hydraulic Research, 313–325. (<http://tinyurl.com/ndpt5uk>.)
- Granberg, H.B. and M. Leppäranta. 1993. Laser profiling in the Weddell Sea. *16th Canadian Symposium on Remote Sensing and 8th Congrès de l'Association Québécoise de télédétection, 7–11 June 1993, Sherbrooke, Québec. Proceedings*. Ottawa, Ont., Canadian Aeronautics and Space Institute. Canadian Remote Sensing Society, presentation.

- Granberg, H.B. and M. Leppäranta. 1993. Observations of sea ice ridging in the Weddell Sea. *OKHOTSK93, 8th International Symposium on Sea Ice and the Sea of Okhotsk, 1–5 February 1993, Mombetsu, Japan. Proceedings.* Mombetsu, Japan, Okhotsk Sea and Cold Ocean Research Association, 235–240.
- Granberg, H.B. and M. Leppäranta. 1999. Observations of sea ice ridging in the Weddell Sea. *J. Geophys. Res.*, **104**(C11), 25,735–25,745. (10.1029/1999JC900160.)
- Granberg, H.B., P. Cliche, O.-P. Mattila, E. Kanto and M. Leppäranta. 2009. A snow sensor experiment in Dronning Maud Land, Antarctica. *J. Glaciol.*, **55**(194), 1041–1051. (10.3189/002214309790794823.)
- Grandmaitre, N.C. 1993. Aspects of calling behaviour of Weddell seals (*Leptonychotes weddellii*) during the breeding season. Honours thesis, Department of Biology, University of New Brunswick, Saint John, N.B.
- Grannas, A.M. and 34 others (including J. Bottenheim and J. McConnell). 2007. An overview of snow photochemistry: evidence, mechanisms and impacts. *Atmos. Chem. Phys. (ACP)*, **7**(16), Special Issue, 4329–4373. (10.5194/acp-7-4329-2007.)
- Grant, I., L. Palinkas, P. Suedfeld, H.R. Eriksen and H. Ursin. 1999. *SOAP: Selection of Antarctic personnel.* Bergen, Norway, University of Bergen.
- Grant, I., L. Palinkas, P. Suedfeld and H. Ursin. 2000. Selection of Antarctic Personnel (SOAP). *First Italian Workshop on Human Adaption in Antarctica and in Extreme Environments, 3–5 May 1999, Venice, Italy. Proceedings.* Rome, Programma Nazionale di Ricerche in Antartide, 67–70.
- Grant, I., L. Palinkas, P. Suedfeld, H. Eriksen and H. Ursin. 2002. Selection of Antarctic personnel. In Xu, S., ed. *Tenth Symposium on Antarctic Logistics and Operations (SCALOP), 15–18 July 2002, Shanghai, China. Proceedings.* Shanghai, China, Standing Committee on Antarctic Logistics and Operation (SCALOP) and the Council of Managers of National Antarctic Programs, 81–83.
- Grant, I. and 7 others (including P. Suedfeld). 2007. Psychological selection of Antarctic personnel: the “SOAP” instrument. *Aviation Space Env. Med.*, **78**(8), 793–800. (10.1071/CH10087.)
- Grant, R.A., H.J. Griffiths, D. Steinke, V. Wadley and K. Linse. 2011. Antarctic DNA barcoding; a drop in the ocean? *Polar Biol.*, **34**(5), 775–780. (10.1007/s00300-010-0932-7.)
- Graveland, B. 2000. Arctic and Antarctic may be dinosaur goldmines. *Townsmen [Cranbrook]*, 28 August, 12.
- Graveland, B. 2000. Arctic, Antarctic eyed for dinosaur skeletons. *Expositor [Brantford]*, 2 September, D.10.
- Gravenor, C.P. 1979. The nature of the late Paleozoic glaciation in Gondwana as determined from an analysis of garnets and other heavy minerals. *Can. J. Earth Sci.*, **16**(6), 1137–1153. (10.1139/e79-101.)
- Gray, B. 1987. Twilight zones an Antarctic summer. *Globe & Mail [Toronto]*, 28 February, F.9.
- Gray, L. 2001. Monitoring an Antarctic ice shelf. *Rem. Sens. Can./Téledélect. Can.*, **29**(2), 1.
- Gray, L. 2002. Using RADARSAT data to improve our ability to visualize the WAIS bed environment and topography. *Ninth Annual WAIS Workshop, 19–21 September 2002, Algonkian Meeting Center, Sterling, Virginia, U.S.A. Agenda & abstracts.* Boulder, CO, National Snow and Ice Data Center. West Antarctic Ice Sheet Initiative (WAIS), digital media. (<http://tinyurl.com/n9s49au>.)
- Gray, L. 2007. ASAIID: Antarctic surface accumulation and ice discharge. *International Polar Year Day: ice sheets.* Edmonton, Alta., Canadian IPY Secretariat, 6. (IPY Day 2.) (<http://tinyurl.com/ntcgox2>.)
- Gray, L. and N. Short. 2002. What do the radiometric signatures in the RADARSAT RAMP mosaic tell us? *Ninth Annual WAIS Workshop, 19–21 September 2002, Algonkian Meeting Center, Sterling, Virginia, U.S.A. Agenda & abstracts.* Boulder, CO, National Snow and Ice Data Center. West Antarctic Ice Sheet Initiative (WAIS), digital media. (www.waisworkshop.org/pastmeetings/abstracts02/Gray_p.html.)
- Gray, A.L., K.E. Mattar, R. Bindschadler and K.C. Jezek. 1998a. Ice motion in West Antarctica from RADARSAT interferometry. *Chapman Conference on the West Antarctic Ice Sheet, 13–18 September 1998, Orono, Maine. Program and abstracts.* Washington, DC, American Geophysical Union, Abstract 35, digital media. ([www.agu.org/cgi-bin/wais?h=AN%25%33%44\(P6\)](http://www.agu.org/cgi-bin/wais?h=AN%25%33%44(P6)).)

- Gray, A.L. and 6 others (including K.E. Mattar and P.W. Vachon). 1998b. InSAR results from the RADARSAT Antarctic mapping mission data: estimation of data using a simple registration procedure. In Stein, T.I., ed. *IGARSS '98, Sensing and managing the environment, 18th International Geoscience and Remote Sensing Symposium, 6–10 July 1998, Seattle, Washington. Proceedings, Vol. 3*. New York, NY, Institute of Electrical and Electronics Engineers, 1638–1640. (10.1109/IGARSS.1998.691662)
- Gray, A.L., K.E. Mattar and G. Sofko. 2000a. Influence of ionospheric electron density fluctuations on satellite radar interferometry. *Geophys. Res. Lett.*, **27**(10), 1451–1454. (10.1029/2000GL000016.)
- Gray, L., K. Mattar, N. Short, R. Bindenschadler, P. Vornberger and I. Joughin. 2000b. Use of RADARSAT InSAR data for ice motion mapping upstream of the Cray Ice Rise. *Seventh Annual WAIS Workshop, September 28–30, 2000, Algonkian Meeting Center in Sterling, Virginia, U.S.A. Agenda & abstracts*. Boulder, CO, National Snow and Ice Data Center. West Antarctic Ice Sheet Initiative (WAIS), digital media. (www.waisworkshop.org/pastmeetings/abstracts00/Gray.htm.)
- Gray, L., N. Short, K. Jezek and Z. Zhao. 2001a. RADARSAT reveals Antarctic ice dynamics / RADARSAR révèle la dynamique de la glace antarctique. *CARN Newsl.*, **12**, 1–3. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/12.pdf.)
- Gray, A.L., N. Short, K.E. Mattar and K.C. Jezek. 2001b. Velocities and ice flux of the Filchner Ice Shelf and its tributaries determined from speckle tracking interferometry. *Can. J. Rem. Sens.*, **27**(3), 193–206.
- Gray, L. and 6 others (including N. Short and A. Khananian). 2002. RADARSAT interferometry for Antarctic grounding-zone mapping. *Ann. Glaciol.*, **34**, 269–276. (10.3189/172756402781817879.)
- Gray, L., I. Joughin and S. Tulaczyk. 2004a. Evidence for subglacial water transport in the West Antarctica ice sheet through three-dimensional satellite radar interferometry. [Abstract C42A-06.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA104. (www.agu.org/meetings/sm04/waissm04.html.)
- Gray, L., I. Joughin, S. Tulaczyk, V.B. Spikes, R. Bindenschadler and K. Jezek. 2004b. Is anomalous vertical motion in WAIS ice streams linked to subglacial water transport? *Eleventh Annual WAIS Workshop, 29 September – 2 October 2004, Algonkian Meeting Center, Sterling, Virginia, U.S.A. Agenda & abstracts*. Boulder, CO, National Snow and Ice Data Center. West Antarctic Ice Sheet Initiative (WAIS), digital media. (www.waisworkshop.org/pastmeetings/abstracts04/Gray.htm.)
- Gray, L., I. Joughin, S. Tulaczyk, V.B. Spikes, R. Bindenschadler and K. Jezek. 2005a. Evidence for subglacial water transport in the West Antarctic Ice Sheet through three-dimensional satellite radar interferometry. *Geophys. Res. Lett.*, **32**(3), L03501. (10.1029/2004GL021387.)
- Gray, L., E. King, H. Conway, B. Smith and F. Ng. 2005b. Influence of ice dynamics on firn layers in the WAIS. *Twelfth Annual WAIS Workshop, 28 September – 1 October 2005, Algonkian Meeting Center, Sterling, Virginia, U.S.A. Agenda & abstracts*. Boulder, CO, National Snow and Ice Data Center. West Antarctic Ice Sheet Initiative (WAIS), digital media. (<http://tinyurl.com/ntsb8zs>.)
- Gray, L., H. Conway, E. King and B. Smith. 2008. Correspondence. Flow stripes, GPR stratigraphy and RADARSAT imagery. *J. Glaciol.*, **54**(188), 936–938. (10.3189/002214308787780030.)
- Greatbatch, R.J. and J. Lu. 2003. Reconciling the Stommel box model with the Stommel–Arons model: a possible role for Southern Hemisphere wind forcing? *J. Phys. Oceanogr.*, **33**(8), 1618–1632. (10.1175/1520-0485(2003)033<1618:RTSBMW>2.0.CO;2.)
- Green, G. 2000. Students on ice: a Canadian learning expedition to Antarctica. *Seventh Continent [Montréal]*, **9**, 1–2.
- Green, G. 2006. Students on Ice: International Polar Year expeditions. [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., ED23A-1233. (www.agu.org/meetings/fm06/waisfm06.html.)
- Green, G. 2008a. Passing the torch – engaging and inspiring youth through experiential learning at the poles. *Arctic Change 2008, Conference Programme and Abstracts/Programme et résumés de la conférence, 9–12 December/décembre 2008, Québec*. Québec, Qué., Université Laval. ArcticNet Inc., 225. (www.arctic-change2008.com/pdf/ac-programme.pdf.)

- Green, G. 2008b. Passing the torch – engaging youth in global issues through experiential learning. *Arctic Change 2008, Conference Programme and Abstracts/Programme et résumés de la conférence, 9–12 December/décembre 2008, Québec*. Québec, Qué., Université Laval. ArcticNet Inc., 85–86. (www.arctic-change2008.com/pdf/ac-programme.pdf.)
- Green, G.D. 2009. Students on Ice: Antarctic activities. *CARN Newsl.*, **27**, 1–3. (<http://tinyurl.com/8y47r87>.)
- Green, G. 2010a. Students on Ice: the greatest classrooms on Earth. *ASM2010 Conference Programme and Abstracts/Programme et résumés de la conférence, 14–17/12/2010, Ottawa, ON*. Québec, Qué., Université Laval. ArcticNet Inc., 18. (<http://tinyurl.com/7jfc2at>.)
- Green, G. 2010b. Chapter 7. Students on Ice: learning in the greatest classrooms on Earth. In Lück, M., P.T. Maher and E.J. Stewart, eds. *Cruise tourism in polar regions: promoting environmental and social sustainability?* London, Earthscan Publications, 93–105.
- Green, G. and T. Straka. 2010a. To the ends of the Earth: youth, education & science in the polar regions. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382726, digital media. (www.ipy-osc.no/abstract/382726.)
- Green, G. and T. Straka. 2010b. To the ends of the Earth: youth, education & science in the polar regions. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382714, digital media. (www.ipy-osc.no/abstract/382714.)
- Green, G., T. Straka and N. Trudeau. 2010a. Imiquitailaq – path of the Arctic tern. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 383317, digital media. (www.ipy-osc.no/abstract/383317.)
- Green, G., L. Copland and T. Straka. 2010b. University of the Antarctic: accredited field-courses with Students on Ice. *ASM2010 Conference Programme and Abstracts/Programme et résumés de la conférence, 14–17/12/2010, Ottawa, ON*. Québec, Qué., Université Laval. ArcticNet Inc., 53–54. (www.arcticnetmeetings.ca/asm2010/docs/programme_full_web.pdf.)
- Green, G., T. Straka and N. Trudeau. 2012a. Imiquitailaq – path of the Arctic tern. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 1651, digital media. (<http://tinyurl.com/p8hnsft>.)
- Green, G., T. Straka and N. Trudeau. 2012b. To the ends of the Earth: youth, education and science in the polar regions and beyond. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 1665, digital media. (<http://tinyurl.com/p4vtsp3>.)
- Greene, C.H., T.K. Stanton, P.H. Wiebe and S. McClatchie. 1991. Acoustic estimates of Antarctic krill. *Nature*, **349**(6305), 110. (10.1038/349110a0.)
- Greenspan, B., C. Dormann, S. Caquard, C. Eaket and R. Biddle. 2006. Live hypertext and cybercartography: you are here, now *Cartographica*, **41**(1), 35–46. (10.3138/4383-1643-R163-6R25.)
- Greenwald, R.A. and 17 others (including G. Sofko and J. Koehler). 1995. DARN/SuperDARN. *Space Sci. Rev.*, **71**(1–4), 761–796. (10.1007/BF00751350.)
- Greet, P.A., W.J.R. French, G.B. Burns, P.F.B. Williams, R.P. Lowe and K. Finlayson. 1997. OH(6–2) spectra and rotational temperature measurements at Davis, Antarctica. *Ann. Geophys.*, **16**(1), 77–89. (10.1007/s00585-997-0077-3.)
- Gregorich, E.G. and 6 others (including P. Rochette). 2006. Emission of CO₂, CH₄ and N₂O from lakeshore soils in an Antarctic Dry Valley. *Soil Biol. Biochem.*, **38**(10), 3120–3129. (10.1016/j.soilbio.2006.01.015.)

- Gregorich, E.G. 2008. Soils research in the Antarctic Dry Valleys. *CARN Newsl.*, **25**, 1–6. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/25.pdf.)
- Grenier, A. 1994. Cruising the Antarctic: profound beauty around every turn. *Calgary Herald*, E.1.
- Grenier, A.A. 2007a. Book reviews. Tourism in the Antarctic: opportunities, constraints, and future prospects (Thomas G. Bauer). *Tourism Mar. Environ.*, **4**(2–3), Polar Tourism, 237–238.
- Grenier, A.A. 2007b. Tourisme polaire en Antarctique: la dernière frontière. *Espaces*, (252), Tourisme de court séjour, 1re partie 48–54. (www.revue-espaces.com/librairie/7032/article.html.)
- Grenier, A.A. 2008a. Le tourisme de croisière. *TÉOROS*, **27**(2), 36–48. (<http://teoros.revues.org/135>.)
- Grenier, A.A. 2008b. Tourisme polaire: la nature sauvage aux confins de l'imaginaire. In Chartier, D., ed. *Le(s) Nord(s) imaginaire(s), Eleventh edition*. Québec, Qué., Presses Université du Québec. Université du Québec à Montréal, Imaginaire/Nord, 165–182. (Droit au Pôle.)
- Grenier, A.A. 2008c. Tourisme polaire: revalorisation des espaces maudits au nom de l'inédit. *FrancVert*, **5**(1), 10 pp., digital media. (www.francvert.org/pages/51dossieretourismepolaire.asp.)
- Grenier, A.A. 2009a. Conceptualisation du tourisme polaire: cartographier une expérience aux confins de l'imaginaire. *TÉOROS*, **28**(1), 7–19. (<http://teoros.revues.org/173>.)
- Grenier, A.A. 2009b. Polar tourism. In Goeldner, C.R. and J.R.B. Ritchie, eds. *Tourism, principles, practices, philosophies, Eleventh edition*. Hoboken, NJ, John Wiley & Sons, Inc., 256–257.
- Grenier, A.A. 2009c. Téoros fait peau neuve. *TÉOROS*, **28**(1), 3–6. (<http://teoros.revues.org/398>.)
- Grenier, P., J.P. Blanchet and R. Muñoz-Alpizar. 2009. Study of polar thin ice clouds and aerosols seen by CloudSat and CALIPSO during midwinter 2007. *J. Geophys. Res.*, **114**(D9), D09201. (10.1029/2008JD010927.)
- Greve, T.R. and 67 others (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, Y. Hezaveh, G.P. Holder and K. Vanderlinde). 2012. Submillimeter observations of millimeter bright galaxies discovered by the South Pole Telescope. *Astrophys. J.*, **756**(1), Article 101. (10.1088/0004-637X/756/1/101.)
- Grew, E.S. and 6 others (including J. Barbier). 2000. Granulite-facies beryllium pegmatites in the Napier Complex in Khmara and Amundsen Bays, western Enderby Land, East Antarctica. *Polar Geosci.*, **13**, 1–40. (<http://ci.nii.ac.jp/naid/110000035088>.)
- Grieve, R.A.F. 1985. Meteorites. Siderophile-enriched sediments and meteoritic debris. *Nature*, **318**(6045), 411–412. (10.1038/318411a0.)
- Griffiths, S.D. and W.R. Peltier. 2009. Modeling of polar ocean tides at the Last Glacial Maximum: amplification, sensitivity, and climatological implications. *J. Climate*, **22**(11), 2905–2924. (10.1175/2008JCLI2540.1.)
- Grigaitis, P. 2011. Dino Park researchers detail Antarctic expedition. *Brooks Bull.*, 21 June, A.7.
- Grimwood, B.S.R. 2012. Book reviews. Polar Tourism: Human, Environmental and Governance Dimensions, edited by Patrick T. Maher, Emma J. Stewart, and Michael Lück. *Arctic*, **65**(3), 351–352.
- Grise, K.M., S.-W. Son, L.M. Polvani and G.J. Correa. 2012. Southern Hemisphere storm track response to recent stratospheric ozone and greenhouse gas changes. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, A110-07, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Groat, L.A., E.S. Grew, T.S. Ercit and A. Pieczka. 2001. The crystal chemistry of dumortierite and holtite, aluminoborosilicates with heavy elements. [Paper 157-0.] *Geol. Soc. Am. Abstr. Prog.*, **33**(6), 2001 Boston Annual Meeting, 383. (http://gsa.confex.com/gsa/2001AM/finalprogram/abstract_21205.htm.)

- Grob, M., A. Maggi and E. Stutzmann. 2011. Observations of the seasonality of the Antarctic microseismic signal, and its association to sea ice variability. *Geophys. Res. Lett.*, **38**(11), L11302. (10.1029/2011GL047525.)
- Gross, J., A.H. Treiman, J. Filiberto and C.D.K. Herd. 2011. Primitive olivine-phyric shergottite NWA 5789: Petrography, mineral chemistry, and cooling history imply a magma similar to Yamato-980459. *Meteor. & Planet. Sci.*, **46**(1), 116–133. (10.1111/j.1945-5100.2010.01152.x.)
- Grossman, E.E., C.H. Fletcher and R.W. Peltier. 1997. Observations and predictions of Late Holocene far field sea-level response to deglaciation. [Abstract U41A-10.] *Eos, Trans. AGU*, **78**(17), Spring Meet. Suppl., S50.
- Grünbaum, D. 1998. Schooling as a strategy for taxis in a noisy environment. *Evol. Ecol.*, **12**(5), 503–522. (10.1023/A:1006574607845.)
- Grzymski, J.J. and J.T. Cullen. 2012. Cost-minimization strategies of marine microbes and their potential impacts on N:P cycling in the upper ocean. *2012 Ocean Sciences Meeting, 20–24 February 2012, Salt Lake City, Utah, USA. Abstract book*. Waco, TX, American Society of Limnology and Oceanography, 174. (Abstract 10230.) (www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=10230)
- Guardian [Charlottetown]. 2001. Calgary company on track to save doctor at South Pole: rescue of ailing physician depends on risky weather at Antarctic station. *Guardian [Charlottetown]*, 17 April, A.5.
- Guderley, H. 2004. Locomotor performance and muscle metabolic capacities: impact of temperature and energetic status [The legacy of Peter Hochachka: researcher, teacher and friend]. *Comp. Biochem. Physiol. B*, **139**(3), 371–382. [In Portuguese with English summary.] (10.1016/j.cbpc.2004.04.001.)
- Gudmundsen, P., F. Carsey and L. McNutt. 1989. PIPOR – a programme for international polar oceans research. *Adv. Space Res.*, **9**(7), 31–37. (10.1016/0273-1177(89)90362-1.)
- Gudmundsson, J.E. and 43 others (including M. Amiri, S.J. Benton, J.R. Bond, B. Burger, M. Farhang, L.M. Fissel, N.N. Gandilo, M. Halpern, M. Hasselfield, C.B. Netherfield, J.A. Shariff and J.D. Soler). 2010. Thermal architecture for the SPIDER flight cryostat. In Holland, W.S. and J. Zmuidzinas, eds. *Millimeter, submillimeter, and far-infrared detectors and instrumentation for astronomy V*. Bellingham, WA, Society of Photo-optical Instrumentation Engineers, 77411M. (SPIE Proceedings 7741.) (10.1117/12.857925.)
- Gudynaite-Savitch, L. 2004. Cytochrome *f* from the Antarctic green alga *Chlamydomonas raudensis*: structure, function, accumulation and assembly into the cytochrome *b₆/f* complex. Ph.D. thesis, Department of Plant Sciences, University of Western Ontario, London, Ont., 250 pp. (<http://alpha.lib.uwo.ca/record=b3712844>.)
- Gudynaite-Savitch, L., M. Gretes, R.M. Morgan-Kiss, L.V. Savitch, J. Simmonds, S.E. Kohalmi and N.P.A. Hüner. 2006. Cytochrome *f* from the Antarctic psychrophile, *Chlamydomonas raudensis* UWO 241: structure, sequence, and complementation in the mesophile, *Chlamydomonas reinhardtii*. *Mol. Genetics Genomics*, **275**(4), 387–398. (10.1007/s00438-005-0094-4.)
- Guéguen, C. and P.D. Tortell. 2008. High-resolution measurement of Southern Ocean CO₂ and O₂/Ar by membrane inlet mass spectrometry. *Mar. Chem.*, **108**(3–4), 184–194.
- Guelph Mercury. 2006. Patient became team's rescuer: Heart transplant recipient helped doctors on his team after an attempt to summit Antarctic mountain failed. *Guelph Mercury*, 26 December, A.7.
- Guglielmin, M. and H.M. French. 2004. Ground ice in the Northern Foothills, northern Victoria Land, Antarctica. *Ann. Glaciol.*, **39**, 495–500. (10.3189/172756404781814726.)
- Guglielmin, M. and H.M. French. 2005. Ground ice and permafrost characteristics for permafrost mapping. In Bockheim, J.G., comp. *International Workshop on Antarctic Permafrost and Soils, 14–18 November 2004, Madison, WI. Final report*. Washington, DC, National Science Foundation. Office of Polar Programs, Antarctic Section, Abstract, 48. (http://earth.waikato.ac.nz/antpas/pdf/FIN_REP_Ant_Wk3.pdf.)

- Guglielmin, M., N. Cannone, A. Strini and A.G. Lewkowicz. 2005. Biotic and abiotic processes on granite weathering landforms in a cryotic environment, northern Victoria Land, Antarctica. *Permafrost Periglac. Process.*, **16**(1), 69–85. (10.1002/ppp.514.)
- Guglielmin, M., A.G. Lewkowicz, H.M. French and A. Strini. 2009. Lake-ice blisters, Terra Nova Bay area, northern Victoria Land, Antarctica. *Geografiska Annaler*, **91A**(2), 99–111. (10.1111/j.1468-0459.2009.00357.x.)
- Guichard, A., M. Engler, K. Klein and P. Fauquemberg. 1992. Methodology for full-scale iceberg impact experiments in the Antarctic. In Triantafyllou, M.S., J.S. Chung, K. Karal and A.L. Tunik, eds. *Proceedings of the Second (1992) International Offshore and Polar Engineering Conference, 14–19 June 1992, San Francisco, California, USA, Vol. II*. Golden, CO, International Society of Offshore and Polar Engineers, 718–723.
- Guo, P., J. Gilbert, P.L. Davies and C.P. Garnham. 2011. Does the antifreeze protein from the bacterium, *Marinomonas primoryensis*, function in binding ice or stopping ice from growing? *1st International Ice-Binding Protein Conference, 3–6 August 2011, Queen's University, Kingston, Ontario, Canada. Abstracts*. Kingston, Ont., Queen's University. Department of Biochemistry, digital media. (<http://tinyurl.com/m44cubn>.)
- Guo, S., C.P. Garnham, J.C. Whitney, L.A. Graham and P.L. Davies. 2012. Re-evaluation of a bacterial antifreeze protein as an adhesin with ice-binding activity. *PLoS ONE*, **7**(11), e48805. (10.1371/journal.pone.0048805.)
- Gurney, K.R. and 25 others (including K. Higuchi and C.-W. Yuen). 2003. TransCom 3 CO₂ inversion intercomparison: 1. Annual mean control results and sensitivity to transport and prior flux information. *Tellus B*, **55**(2), 555–579. (10.1034/j.1600-0889.2003.00049.x.)
- Gurney, L.J. and E.A. Pakhomov. 2010. An ecosystem model to explore population dynamics of top predators at the Prince Edward Islands (Southern Ocean). *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 327, CD-ROM.
- Gurney, L.J. and E.A. Pakhomov. 2012. Ecology of sub-Antarctic islands: an eco-system approach for understanding population dynamics and their drivers. *CARN Newsl.*, **31**, 1–7. (www.polarcom.gc.ca/principal/sites/default/files/carn-31-english.pdf.)
- Gurney, L.J., E.A. Pakhomov, B.P.V. Hunt and V. Christensen. 2008. Defining ecosystem boundary size at the sub-Antarctic Prince Edward Islands. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S1.9/O14, 276.
- Gurney, L.J., E.A. Pakhomov and B.P.V. Hunt. 2011. Life-support system of the Prince Edward Archipelago: overview of local and advected resources. In Duhamel, G. and D. Welsford, eds. *The Kerguelen Plateau: marine ecosystem and fisheries*. Paris, Société Française d'Ichtyologie, 217–232.
- Gurzadyan, V.G. and 22 others (the BOOMERanG Collaboration that includes C.B. Netterfield). 2003. Ellipticity analysis of the BOOMERanG CMB maps. *Int. J. Mod. Phys. D (IJMPD)*, **12**(10), Ser.D, 1859–1873. (10.1142/S0218271803004419.)
- Gustafson, D.E., Jr., M.R. Anderson and R.B. Rivkin. 1990. Bacterioplankton abundance and productivity at the ice-edge zone of McMurdo Sound, Antarctica. *Antarct. J. U.S.*, **25**(5), 1990 Review, 191–193. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXXVn5/AJUSvXXVn5p191.pdf>.)
- Gustafson, J. and S. Tacoma. 2010. Engaging youth – The Green I.C.E. Project. *Understanding Circumpolar Ecosystems in a Changing World: Outcomes of the International Polar Year, 3–6 November 2010, Edmonton, Alberta, Canada. Conference Program and Abstracts*. Edmonton, Alta, University of Alberta, digital media, 27. (www.eas.ualberta.ca/ipy/abstract.pdf.)

- Gutt, J. and 18 others (including W. Cheung). 2012. Correlative and dynamic species distribution modelling for ecological predictions in the Antarctic: a cross-disciplinary concept. *Polar Res.*, **31**, 11091. (10.3402/polar.v31i0.11091.)
- Haas, C. 2008. Antarctic sea ice – the odd down South. *CARN Newsl.*, **25**, 7–13. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/25.pdf.)
- Haas, C. 2010. Chapter 4. Dynamics versus thermodynamics: the sea ice thickness distribution. In Thomas, D.N. and G.S. Dieckmann, eds. *Sea ice, Second edition*. Chichester, etc., Wiley-Blackwell, 113–151. (10.1002/9781444317145.ch4.)
- Haas, C. 2011. Stick your nose into the snow – validation of satellite sea ice observations. *Earth on the Edge: Science for a Sustainable Planet, XXV IUGG General Assembly, 28 June – 7 July 2011, Melbourne, Australia*. Melbourne, Vic., International Union of Geodesy and Geophysics. Monash University School of Geosciences, Abstract 5771, digital media. (www.iugg2011.com/abstracts/pdf/abstracts/81106015_HAAS05801.pdf.)
- Haas, C., M. Nicolaus, S. Willmes, A. Worby and D. Flinspach. 2008a. Sea ice and snow thickness and physical properties of an ice floe in the western Weddell Sea and their changes during spring warming. *Deep-Sea Res. II*, **55**(8–9), 963–974. (10.1016/j.dsr2.2007.12.020.)
- Haas, C., S. Krutzky, M. Thoma and P. Lemke. 2008b. Sea ice thickness and ice production in the Larsen polynyas, Weddell Sea. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S1.2/O25, 91.
- Haas, C., A. Friedrich, Z. Li, M. Nicolaus, A. Pfaffling and T. Toyota. 2009. Regional variability of sea ice properties and thickness in the northwestern Weddell Sea obtained by in-situ and satellite measurements. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **586**, 36–74. (http://epic.awi.de/28801/1/Lem2009a.pdf.)
- Haas, C., S. Hendricks, S. Willmes, R. Willat and others. 2012. Stick your nose into the snow – validation of satellite sea ice observations. *Earth Observation and Cryosphere Science, 13–16 November 2012, Frascati, Italy*. Frascati, Italy, European Space Agency (ESA). European Space Research Institute (ESRIN), digital media. (http://congrexprojects.com/docs/12c20_docs2/5-talk_chaas.pdf?sfvrsn=2.)
- Haberzettl, T. and 8 others (including A. Lisé-Pronovost). 2010. Patagonian and Antarctic dust as recorded in the sediments of Laguna Potrok Aike (Patagonia, Argentina). *Geophys. Res. Abstr.*, **12**, 2010 EGU Gen. Assem., EGU2010-1416. (http://meetingorganizer.copernicus.org/EGU2010/EGU2010-1416.pdf.)
- Hadziomerovic, A. 2006. Engagement and learning in a computer role play game: Neverwinter Nights in Antarctica. M.A. thesis, Department of Psychology, Carleton University, Ottawa, Ont., viii + 112 pp. (www.collectionscanada.gc.ca/obj/thesescanada/vol2/002/MR18266.PDF.)
- Hajian, A. and 28 others (including A. Hajian, M.P. Viero, N. Battaglia, J.R. Bond, M. Halpern, C. Netterfield, M.R. Nolta and J. Sievers). 2012. Correlations in the (sub)millimeter background from ACT x BLAST. *Astrophys. J.*, **744**(1), Article 40. (10.1088/0004-637X/744/1/40.)
- Hall, C.M. and M.E. Johnston. 1995a. *Polar tourism: tourism in the Arctic and Antarctic regions*. Toronto, Ont., J. Wiley & Sons.
- Hall, C.M. and M.E. Johnston. 1995b. Pole to pole: tourism issues, impacts and the search for a management regime in polar regions. In Hall, C.M. and M.E. Johnston, eds. *Polar tourism: tourism in the Arctic and Antarctic regions*. Toronto, Ont., J. Wiley & Sons, 1–26.
- Hall, K.J. 1993. Rock temperatures from Livingston Island (maritime Antarctic): implications for cryogenic weathering. In Cheng, G., ed. *Permafrost. Sixth International Conference, 5–9 July 1993, Beijing, China. Proceedings, Vol. 1*. Guangzhou, South China University of Technology Press, 220–225.
- Hall, K. 1994. Some observations regarding sorted patterned ground on Livingston Island, Antarctica. *Permafrost Periglac. Process.*, **5**(2), 119–126. (10.1002/ppp.3430050206.)

- Hall, K. 1995a. Freeze-thaw weathering: the cold region "panacea". *Polar Geogr. Geol.*, **19**(2), 79–87. (10.1080/10889379509377561.)
- Hall, K. 1995b. New insights into Antarctic mechanical weathering processes based on high-frequency rock temperature data. *91st Annual Meeting, Association of American Geographers, 14–18 March 1995, Chicago, IL. Abstracts*. Washington, DC, Association of American Geographers, 116.
- Hall, K. 1997a. The impact of temperature record interval and sensor location on weathering inference in periglacial environments. *Geogr. Fis. Din. Quat.*, Ser.III, Supplement 3, 196.
- Hall, K. 1997b. Observations on "cryoplanation" benches in Antarctica. *Antarct. Sci.*, **9**(2), 181–187. (10.1017/S0954102097000230.)
- Hall, K. 1997c. Rock temperatures and implications for cold region weathering. I. New data from Viking Valley, Alexander Island, Antarctica. *Permafrost Periglac. Process.*, **8**(1), 69–90. (10.1002/(SICI)1099-1530(199701)8:1<69::AID-PPP236>3.0.CO;2-Q.)
- Hall, K. 1998a. Nivation or cryoplanation: different terms, same features? *Polar Geogr.*, **22**(1), 1–16. (10.1080/10889379809377634.)
- Hall, K. 1998b. Nivation or cryoplanation: is there a difference? *Collect. Nordicana, Univ. Laval. Cent. Études Nord.*, **57**, 7th International Conference on Permafrost, 149–150.
- Hall, K. 1998c. Rock temperatures and implication for cold region weathering. II. New data from Rothera, Adelaide Island, Antarctica. *Permafrost Periglac. Process.*, **9**(1), 47–55. (10.1002/(SICI)1099-1530(199801/03)9:1<47::AID-PPP273>3.0.CO;2-N.)
- Hall, K. 1998d. Some observations and thoughts regarding Antarctic cryogenic weathering. *Collect. Nordicana, Univ. Laval. Cent. Études Nord.*, **57**, 7th International Conference on Permafrost, 151–152.
- Hall, K. 1999a. Commentary. Protection of the terrestrial environment. In Lewkowicz, A., ed. *Poles apart, a study in contrasts. Proceedings of an International Symposium on Arctic and Antarctic Issues, 25–27 September 1997, Ottawa, Ontario, Canada*. Ottawa, Ont., University of Ottawa Press, 213–216.
- Hall, K. 1999b. Present and Quaternary periglacial processes and landforms of maritime and sub-Antarctic region: a review. In Lee-Thorp, J. and H. Clift, eds. *Book of Abstracts, XV INQUA International Congress*. International Union for Quaternary Research, 77.
- Hall, K. 1999c. The role of thermal stress fatigue in the breakdown of rock in cold regions. *Geomorphology*, **31**(1–4), 47–63. (10.1016/S0169-555X(99)00072-0.)
- Hall, K. 2000. New insights into rock weathering as deduced from high-frequency rock temperature data: an Antarctic study. *Weathering 2000, Program and Abstracts, Queen's University, Belfast*. 24–25.
- Hall, K. 2001a. Antarctic permafrost / Le pergélisol de l'Antarctique. *CARN Newsl.*, **12**, 4–5. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/12.pdf.)
- Hall, K. 2001b. Cold region weathering: new data from the Antarctic. [Abstract.] [*Jpn Geomorph. Union Trans.*], **22**(4), 5th International Conference on Geomorphology, C-82.
- Hall, K. 2001c. The necessity for high-frequency rock temperature data for rock weathering studies: Antarctic and northern examples. In Harris, C. and B. Rea, eds. *1st European Permafrost Conference, 26–28 March 2001, Rome, Italy. Abstracts*. Rome, Italy, International Permafrost Association. Periglacial Commission, 102.
- Hall, K.J. 2002. A review of present and Quaternary periglacial processes and landforms of the maritime and sub-Antarctic region. *S. Afr. J. Sci.*, **98**(1–2), 71–81.
- Hall, K.J. 2003a. Mechanical weathering in cold regions, with special emphasis on the Antarctic environment and the freeze–thaw mechanism in particular. D.Sc. thesis, University of Natal, Pietermaritzburg, South Africa.

- Hall, K. 2003b. Micro-transducers and high-frequency rock temperature data: changing our perspectives on rock weathering in cold regions. In Phillips, M., S.M. Springman and L.U. Arenson, eds. *Eighth International Conference on Permafrost, 21–25 July 2003, Zürich, Switzerland. Proceedings, Vol. 1.* Lisse, The Netherlands, A.A. Balkema, Swets & Zeitlinger, 349–354.
- Hall, K. 2004a. Quaternary glaciation of the sub-Antarctic islands. In Ehlers, J. and P.L. Gibbard, eds. *Quaternary glaciations: extent and chronology. Part III. South America, Asia, Africa, Australia, Antarctica.* Amsterdam, Elsevier. INQUA Commission on Glaciation, Work Group: Extent and Chronology of Glaciations, 339–346. (Developments in Quaternary Sciences 2.) (Part C.) (10.1016/S1571-0866(04)80140-4.)
- Hall, K., ed. 2004b. Weathering in cold environments with special emphasis on polar regions. *Polar Geogr.*, **28**(1), 1–75. (10.1080/789610155.)
- Hall, K., ed. 2004c. Weathering in cold environments with special emphasis on polar regions. Part II. Landforms. *Polar Geogr.*, **28**(2), 77–161. (10.1080/789610118.)
- Hall, K. 2005. Book reviews. Wind as a Geomorphic Agent in Cold Climates, Matti Seppälä, Cambridge University Press, 2004, ISBN 0 521 56406 9. 358 pages, £75.00/ US\$130.00. *Antarct. Sci.*, **17**(1), 153. (10.1017/S0954102005212555.)
- Hall, K. 2007. Book reviews. The Periglacial Environment, Hugh M. French, John Wiley and Sons, 2007 ISBN 13:978-0-470-86588-0, 458 pages, £80. *Antarct. Sci.*, **19**(4), 535–536. (<http://tinyurl.com/oftmb84>.)
- Hall, K. 2011. Natural building stone composed of light-transmissive minerals: impacts on thermal gradients, weathering and microbial colonization. a preliminary study, tentative interpretations, and future directions. *Environ. Earth Sci.*, **62**(2), 289–297. (10.1007/s12665-010-0522-6.)
- Hall, K. 2012. Book Reviews. Cold region hazards and risks, Colin A. Whiteman, Wiley-Blackwell, 2011, ISBN 978-0470029275. 366 pp. £95. *Antarct. Sci.*, **24**(3), 319–320. (10.1017/S0954102012000363.)
- Hall, K. and M.-F. André. 2001. New insights into rock weathering from high-frequency rock temperature data: an Antarctic study of weathering by thermal stress. *Geomorphology*, **41**(1), 23–35. (10.1016/S0169-555X(01)00101-5.)
- Hall, K. and M.-F. André. 2003. Rock thermal data at the grain scale: applicability to granular disintegration in cold environments. *Earth Surf. Process. Landf.*, **28**(8), 823–836. (10.1002/esp.494.)
- Hall, K. and M.-F. André. 2006. Temperature observations in Antarctic tafoni: implications for weathering, biological colonization, and tafoni formation. *Antarct. Sci.*, **18**(3), 377–384. (10.1017/S0954102006000423.)
- Hall, K. and M.-F. André. 2010. Some further observations regarding “cryoplanation terraces” on Alexander Island. *Antarct. Sci.*, **22**(2), 175–183. (10.1017/S0954102009990617.)
- Hall, K. and J. Boelhouwers, eds. 2002. *Bibliography on permafrost and periglacial processes and landforms of the Southern Hemisphere.* Potsdam, International Permafrost Association. Southern Hemisphere Working Group (Antarctic Permafrost and Periglacial Environments). (<http://tinyurl.com/po2m6bn>.)
- Hall, K. and I. Meiklejohn. 2011. Chapter 78. Glaciation in southern Africa and in the sub-Antarctic. In Ehlers, J., P.L. Gibbard and P.D. Hughes, eds. *Quaternary glaciations – extent and chronology: a closer look.* Amsterdam, Elsevier, 1081–1085. (Developments in Quaternary Sciences 15.) (www.sciencedirect.com/science/article/pii/B9780444534477000787.)
- Hall, K., J. Arocena and J.L. Smellie. 2000. Weathering rinds as palaeoenvironmental indicators: evidence from the Cape Roberts Drill Core (CRP-3). In Webb, P.N. and L. Everett, eds. *Cape Roberts Project Workshop. Program and abstracts.* Columbus, OH, Ohio State University. Byrd Polar Research Center, 12.
- Hall, K., J. Arocena and J.L. Smellie. 2001. Weathering rinds as palaeoenvironmental indicators: evidence from the Cape Roberts drill core (CRP-3), Victoria Land Basin, Antarctica. *Terra Ant.*, **8**(3), 275–280. (<http://tinyurl.com/nggfkvo>.)

- Hall, K., C. Thorn, N. Matsuoka and A. Prick. 2002. Weathering in cold regions: some thoughts and perspectives. *Prog. Phys. Geogr.*, **26**(4), 577–603. (10.1191/0309133302pp353ra.)
- Hall, K., B.S. Lindgren and P. Jackson. 2005. Rock albedo and monitoring of thermal conditions in respect of weathering: some expected and some unexpected results. *Earth Surf. Process. Landf.*, **30**(7), 801–811. (10.1002/esp.1189.)
- Hall, K., M. Guglielmin and A. Strini. 2008a. Weathering of granite in Antarctica. I. Light penetration into rock and implications for rock weathering and endolithic communities. *Earth Surf. Process. Landf.*, **33**(2), 295–307. (10.1002/esp.1618.)
- Hall, K., M. Guglielmin and A. Strini. 2008b. Weathering of granite in Antarctica. II. Thermal stress at the grain scale. *Earth Surf. Process. Landf.*, **33**(3), 475–493. (10.1002/esp.1617.)
- Hall, K., I. Meiklejohn and A. Bumby. 2011. Marion Island volcanism and glaciation. *Antarct. Sci.*, **23**(2), 155–163. (10.1017/S0954102010000878.)
- Hall, N.R. *and 44 others* (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, G.P. Holder, L. Shaw and K. Vanderlinde). 2010. Angular power spectra of the millimeter-wavelength background light from dusty star-forming galaxies with the South Pole Telescope. *Astrophys. J.*, **718**(2), 632–646. (10.1088/0004-637X/718/2/632.)
- Halpin, P. 2002. Kincardine woman to help in Antarctic cleanup. *Record [Kitchener]*, 30 January, B.6.
- Halsey, L.G. *and 7 others* (including A. Fahlman). 2007a. Fine-scale analyses of diving energetics in king penguins *Aptenodytes patagonicus*: how behaviour affects costs of a foraging dive. *Mar. Ecol. Progr. Ser.*, **344**, 299–309. (10.3354/meps06896.)
- Halsey, L.G., A. Fahlman, Y. Handrich, A. Schmidt, A.J. Woakes and P.J. Butler. 2007b. How accurately can we estimate energetic costs in a marine top predator, the king penguin? *Zoology*, **110**(2), 81–92. (10.1016/j.zool.2006.09.001.)
- Halsey, L.G., P.J. Butler, A. Fahlman, C.A. Bost, A.J. Woakes and Y. Handrich. 2008. Modeling the marine resources consumed in raising a king penguin chick: an energetics approach. *Physiol. Biochem. Zool.*, **81**(6), 856–867 (10.1086/592821.)
- Halsey, L.G., P.J. Butler, A. Fahlman, C.A. Bost and Y. Handrich. 2010. Changes in the foraging dive behaviour and energetics of king penguins through summer and autumn: a month by month analysis. *Mar. Ecol. Progr. Ser.*, **401**, 279–289. (10.3354/meps08447.)
- Haltigin, T.W., W.H. Pollard, P. Dutilleul and G.R. Osinski. 2012. Geometric evolution of polygonal terrain networks in the Canadian High Arctic: evidence of increasing regularity over time. *Permafrost Periglac. Process.*, **23**(3), 178–186. (10.1002/ppp.1741.)
- Hamelin, L.-E. 1964. Comptes rendus. Baird, Patrick D. The Polar World. Longmans, London, 1964, 328 pages, 76 figures, 36 planches. Collection : Geographies for Advanced Study, edited by professor S.H. Beaver. *Cah. Géogr. Québec*, **9**(17), 126. (10.7202/020556ar.)
- Hamilton, P.B. 1994. *Proceedings of the Fourth Arctic–Antarctic Diatom Symposium (Workshop), Canadian Museum of Nature, Ottawa, Ontario, Canada, September 18–21, 1993*. Ottawa, Ont., Canadian Museum of Nature. (Canadian Technical Report of Fisheries and Aquatic Sciences 1957.)
- Hamilton, P.B., M. Poulin, J.-R. Yang and H. Klöser. 1997. A new diatom genus, *Porannulus* (Bacillariophyta), associated with marine sponges around King George Island, South Shetland Islands, Antarctica. *Diatom Res.*, **12**(2), 229–242. (10.1080/0269249X.1997.9705417.)
- Hamilton, R.J., C.C. Sorlien, B.P. Luyendyk, L.R. Bartek and S.A. Henrys. 1998. Tectonic regimes and structural trends off Cape Roberts, Antarctica. *Terra Ant.*, **5**(3), 261–272.
- Hamilton Spectator. 2001. Canadians attempt Antarctic rescue. *Hamilton Spectator*, 16 April, A.01.

- Hamilton Spectator. 2001. Doctor, air crew resting in Chile; Canadians braved Antarctic weather to fly out ailing MD. *Hamilton Spectator*, 27 April, C.06.
- Hamme, R.C. and 10 others. 2012. Dissolved O₂/Ar and other methods reveal rapid changes in productivity during a Lagrangian experiment in the Southern Ocean. *J. Geophys. Res.*, **117**(C4), Special Section, C00F12. (10.1029/2011JC007046.)
- Hanada, Y. and 8 others (including C.P. Garnham and P.L. Davies). 2011. A hyperactive, heat-stable antifreeze protein from an Antarctic sea ice bacterium. *1st International Ice-Binding Protein Conference, 3–6 August 2011, Queen's University, Kingston, Ontario, Canada. Abstracts*. Kingston, Ont., Queen's University. Department of Biochemistry, digital media. (<http://tinyurl.com/nx6zv9>.)
- Hanano, D., D. Weis, J.S. Scoates and A. Giret. 2005. Small-scale heterogeneities in the enriched component of the Kerguelen mantle plume: Pb-Hf-Sr-Nd isotopic constraints from the Kerguelen Baie Charrier section. *Geochim. Cosmochim. Acta*, **69**(10), Supplement, Goldschmidt Conference 2005, A103. (http://goldschmidt.info/2005/Abstract%20Volume/abs_vol.pdf.)
- Hanano, D., J.S. Scoates and D. Weis. 2008. Alteration mineralogy and the effect of acid-leaching on the Pb isotope systematics of ocean-island basalts. *Am. Mineral.*, **94**(1), Manuscript #2845, 17–26. (10.2138/am.2009.2845.)
- Hand, M., C.J.L. Wilson, I. Scrimgeour, K. Stüwe and D. Arne. 1994. Geological observations in high-grade mid-Proterozoic rocks from Else Platform, northern Prince Charles Mountains region, East Antarctica. *Austral. J. Earth Sci.*, **41**(4), 311–329. (10.1080/08120099408728141.)
- Hanisco, T.F. and 14 others (including C.T. McElroy and C. Midwinter). 2001. Sources, sinks, and the distribution of OH in the lower stratosphere. *J. Phys. Chem. A*, **105**(9), 1543–1553. (10.1021/jp003455j.)
- Hanna, T. 2010. Icy cold helps Antarctic scientists: high-powered telescope can show clearer images with little atmospheric interference at the South Pole. McGill scientist Keith Vanderlinde loved the experience – except for the shock of minus 70°C. *Gazette [Montréal]*, 10 May, A.4.
- Hannington, M. 2002. Joint German-Canadian research on seafloor hydrothermal activity in Antarctica: Sonne cruise SO-155. *CARN Newsl.*, **14**, 1–3. (<http://tinyurl.com/o8fxc4z>.)
- Hansaraj, D., S.A. Henrys, T.R. Naish and the ANDRILL-MIS Science Team (that includes D.R. Schmitt). 2007. McMurdo Ice Shelf seismic reflection data and correlation to the AND-1B drill hole. In Cooper, A.K., P. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007*. Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (*U.S. Geol. Surv. Open-File Rep.* 2007-1047.) (Extended Abstract 101.) (<http://tinyurl.com/ng9af1j>.)
- Hanson, D. and 67 others (the SPT Collaboration that includes A.N. Bender, T. de Haan, M.A. Dobbs, G.P. Holder, G. Marsden, G. Smecher and K. Vanderlinde). 2012. Detection of B-mode polarization in the cosmic microwave background with data from the South Pole Telescope. *Phys. Rev. Lett.*, **111**(14), 141301. (10.1103/PhysRevLett.111.141301.)
- Hara, K. 2006. Antarctica in the San Francisco peace treaty. *Jpn. Stud.*, **26**(1), 81–97. (10.1080/10371390600636281.)
- Hara, K. 2007. Chapter 5. Antarctica. In Hara, K., ed. *Cold war frontiers in the Asia–Pacific: divided territories in the San Francisco system* Abingdon, Oxon and New York, NY, Routledge, 124–141. (Nissan Institute/Routledge Japanese Studies)
- Hardewig, I., P.L.M. van Dijk, C.D. Moyes and H.O. Pörtner. 1999. Temperature-dependent expression of cytochrome-*c* oxidase in Antarctic and temperate fish. *Am. J. Physiol.*, **277**(2), R508–R516 (<http://ajpcell.physiology.org/content/247/3/C125.full.pdf+html>.)
- Harding, K. 2007. Warming reveals Antarctic secrets. *Globe & Mail [Toronto]*, 26 February, A.14.

- Harris, C., B.R. Watters and P.B. Groenewald. 1991. Geochemistry of the Mesozoic regional basic dykes of western Dronning Maud Land, Antarctica. *Contrib. Mineral. Petrol.*, **107**(1), 100–111. (10.1007/BF00311188.)
- Harris, P.T., E. Domack, P.L. Manley, R. Gilbert and A. Leventer. 1999. The Andvord Drift: a new type of inner-shelf glacial-marine deposystem from the Antarctic Peninsula. *Geology*, **27**(8), 683–686. (10.1130/0091-7613(1999)027<0683:ADANTO>2.3.CO;2.)
- Harris, S.L. and M.T. Maldonado. 2004. Copper requirements of Fe-limited coastal and oceanic diatoms. *ASLO/TOS 2004 Ocean Research Conference, 15–20 February 2004, Honolulu, Hawaii. Abstract book.* Waco, TX, American Society of Limnology and Oceanography, 64. (www.aslo.org/meetings/honolulu2004/files/aslo-tos-2004-abstracts.pdf.)
- Harrison, W.G. and G.F. Cota. 1991. Primary production in polar waters: relation to nutrient availability. *Polar Res.*, **10**(1), 87–104. (10.1111/j.1751-8369.1991.tb00637.x.)
- Hart, K.M. *and 7 others* (including W.C. Mahaney). 2011. A bacterial enrichment study and overview of the extractable lipids from paleosols in the Dry Valleys, Antarctica: implications for future Mars reconnaissance. *Astrobiology*, **11**(4), 303–321. (10.1089/ast.2010.0583.)
- Harvey, A. 1900. The Aurora Australis and Borealis. *Geogr. J.*, **16**(6), 691–693. (www.jstor.org/stable/1775273.)
- Harvey, A. 1901. Magnetic and meteorological observations in the Antarctic. *Geogr. J.*, **17**(6), 667–669. (www.jstor.org/stable/1775219.)
- Harvey, A.N. 2011. Toxicity of petroleum hydrocarbons in polar soil. Ph.D. thesis, Department of Soil Science, University of Saskatchewan, Saskatoon, Sask., xviii + 155 pp. (http://ecommons.usask.ca/bitstream/handle/10388/etd-04042011-134956/harvey2011.pdf.)
- Harvey, A.N., I. Snape and S.D. Siciliano. 2012a. Changes in liquid water alter nutrient bioavailability and gas diffusion in frozen Antarctic soils contaminated with petroleum hydrocarbons. *Environ. Toxicol. Chem.*, **31**(2), 395–401. (10.1002/etc.745.)
- Harvey, A.N., I. Snape and S.D. Siciliano. 2012b. Validating potential toxicity assays to assess petroleum hydrocarbon toxicity in polar soil. *Environ. Toxicol. Chem.*, **31**(2), 402–407. (10.1002/etc.744.)
- Harvey, L.D.D. 1988a. Climatic impact of ice-age aerosols. *Nature*, **334**(6180), 333–335. (10.1038/334333a0.)
- Harvey, L.D.D. 1988b. Development of a sea ice model for use in zonally averaged energy balance climate models. *J. Climate*, **1**(12), 1221–1238. (10.1175/1520-0442(1988)001<1221:DOASIM>2.0.CO;2.)
- Harvey, L.D.D. 1988c. On the role of high latitude ice, snow, and vegetation feedbacks in the climatic response to external forcing changes. *Climatic Change*, **13**(2), 191–224. (10.1007/BF00140569.)
- Harvey, L.D.D. 1988d. A semi-analytic energy balance climate model with explicit sea ice and snow physics. *J. Climate*, **1**(11), 1065–1085. (10.1175/1520-0442(1988)001<1065:ASEBCM>2.0.CO;2.)
- Harvey, L.D.D. 1992. A two-dimensional ocean model for long-term climatic simulations: stability and coupling to atmospheric and sea ice models. *J. Geophys. Res.*, **97**(C6), 9435–9453. (10.1029/92JC00718.)
- Harvey, M.J. *and 32 others* (including L.A. Ziolkowski). 2011. The SOLAS air–sea gas exchange experiment (SAGE) 2004. *Deep-Sea Res. II*, **58**(6), 753–763. (10.1016/j.dsr2.2010.10.015.)
- Harwood, D.M. *and 10 others* (including F. Heider). 1992. Chapter 57. Neogene integrated magnetobiostratigraphy of the central Kerguelen Plateau, Leg 120. In Wise, S.W., Jr *and 28 others* (including F. Heider and J.H. Sevigny), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 120. Central Kerguelen Plateau.* College Station, TX, Texas A & M University. Ocean Drilling Program, April, 1031–1052. (10.2973/odp.proc.sr.120.185.1992.)

- Harwood, D.M., F. Florindo, R.H. Levy and the ANDRILL-SMS Science Team (that includes D.R. Schmitt). 2012. ANDRILL-Southern McMurdo Sound project: paleoenvironmental history and variable pacing of Early and Middle Miocene Antarctic ice sheet behavior. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 2522, digital media. (http://132.246.11.198/2012-ipy/Abstracts_On_the_Web/pdf/ipy2012arAbstract02522.pdf.)
- Haseloff, M. and C. Schoof. 2012a. The role of subglacial drainage and basal freeze-on for ice streams. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, C34A-06, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Haseloff, M. and C. Schoof. 2012b. The role of subglacial drainage and basal freeze-on for ice streams. *WAIS 2012, Nineteenth Annual WAIS Workshop, 19–22 September 2012, Eatonville, Washington. Agenda & abstracts*. Boulder, CO, National Snow and Ice Data Center, digital media. (<http://tinyurl.com/nqsvkd4>.)
- Haskin, C. 1999. Antarctic bacteria. *Globe & Mail [Toronto]*, 15 December, R.8.
- Hatfield, A. and 7 others (including R. Gilbert). 2004. Jun Jaegyu volcano: a recently discovered alkali basalt volcano in Antarctic Sound, Antarctica. [Abstract.] *Eos, Trans. AGU*, **85**(47), Fall Meet. Suppl., T11A-1248. (www.agu.org/meetings/fm04/waisfm04.html.)
- Hattersley-Smith, G. 1951. King George Island. *Alp. J.*, **58**(282), 67–75.
- Hattersley-Smith, G. 1956. Reviews. Illustrated ice glossary. By Terence Armstrong and Brian Roberts. Cambridge: Scott Polar Research Institute, 1956. Polar Record, Vol. 8, No. 52. iv + 12 pages; 40 plates. 5s (separate). *Geogr. J.*, **122**(2), 267–268. (www.jstor.org/stable/1790873.)
- Hattersley-Smith, G. 1957a. Reviews. Antarctic hazard. By W. Ross Cockrill. London: Frederick Muller, 1956, 8 x 5 inches; 230 pages; illustrations. 15s. *Geogr. J.*, **123**(1), 103. (www.jstor.org/stable/1790754.)
- Hattersley-Smith, G. 1957b. Reviews. Antarctic venture. By Mario Marret. London: William Kimber, 1955. 8½ x 5½ inches; 218 pages; illustrations. 18s. *Geogr. J.*, **123**(1), 102–103. (<http://tinyurl.com/oqcy5yc>.)
- Hattersley-Smith, G. 1960. Reviews. Antarctica: the story of a continent, By Frank Debenham. London: Herbert Jenkins, 1959. 8¾ x 5½ inches; 264 pages; maps and plates. 25s. *Geogr. J.*, **126**(4), 530–531. (www.jstor.org/stable/1793424.)
- Hattersley-Smith, G. 1961. Reviews. Sir Hubert Wilkins: enigma of exploration. By John Grierson. London: Robert Hale, 1960. 8¾ x 5½ inches; 224 pages; maps and plates. 21s. *Geogr. J.*, **127**(2), 250–251. (www.jstor.org/stable/1792939.)
- Hattersley-Smith, G. 1970. Ice exploration in Antarctica. *Geogr. J.*, **136**(4), 597–600. (www.jstor.org/stable/1796190.)
- Hattersley-Smith, G. 1977. Obituary: Sir Charles Wright — 1887–1975. *J. Glaciol.*, **18**(79), 340–341.
- Hattersley-Smith, G. 1986. Some Canadians in the Antarctic. *Arctic*, **39**(4), 368–369. (<http://arctic.synergiesprairies.ca/arctic/index.php/arctic/article/view/2099/2076>.)
- Hattersley-Smith, G. 2005. Canadians in Antarctic place-names. *CARN Newsl.*, **20**, 3–8. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/20.pdf.)
- Haupt, T., E. Marais, B. Sinclair and S. Chown. 2012. Metabolic costs in the face of climate change: a keystone species on sub-Antarctic Marion Island. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_12.pdf.)
- Hawes, I., C. Howard-Williams and W.F. Vincent. 1992. Desiccation and recovery of Antarctic cyanobacterial mats. *Polar Biol.*, **12**(6–7), 587–594. (10.1007/BF00236981.)
- Hawkes, N. 1999. Scientists find evidence of life below East Antarctic ice cap: melted ice cores contain bacteria that are alive, active. *Ottawa Citizen*, 10 December, A.13.

- Hawkes, N. 2000. Antarctic tests prove universe is flat: experiment reveals that 95 per cent of all matter is invisible. *Ottawa Citizen*, 28 April, D.18.
- Hay, C., J. Mitrovica, R.E. Kopp, S.M. Griffies, J. Yin and R.J. Stouffer. 2010. Detecting the sea-level fingerprint of polar ice mass changes. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, G53A-0699, digital media. (www.agu.org/cgi-bin/wais?ss=G53A-0699.)
- Hay, C., E. Morrow, R.E. Kopp and J.X. Mitrovica. 2011. Detecting the sea-level fingerprint of polar ice mass changes: testing a new method for estimating the sources of global sea level change. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA*. Washington, DC, American Geophysical Union, G21B-0814, digital media. (<http://sites.agu.org/fallmeeting/scientific-program/>.)
- Hayden, T. 1998. Team Canada takes to the ice: even a small change in the balance of carbon between water and air could have a profound impact on global weather. Canadian researchers are in one of the best laboratories, the frozen Antarctic. *Vancouver Sun*, 30 January, A.21. (Interviews with W. Cochlan and M.L. Dickson.)
- Hayes, D.E. and 11 others (including D.J.W. Piper). 1975a. Chapter 1. Introduction. In Hayes, D.E. and L.A. Frakes, eds. *Deep Sea Drilling Project: initial reports, Vol. 28. Freemantle, Australia, to Christchurch, New Zealand: Leg 28*. Washington, DC, U.S. Government Printing Office, July, 5–18. (http://deepseadrilling.org/28/volume/dsdp28_01.pdf.)
- Hayes, D.E. and 11 others (including D.J.W. Piper). 1975b. Chapter 2. Site 264. In Hayes, D.E. and L.A. Frakes, eds. *Deep Sea Drilling Project: initial reports, Vol. 28. Freemantle, Australia, to Christchurch, New Zealand: Leg 28*. Washington, DC, U.S. Government Printing Office, July, 19–48. (http://deepseadrilling.org/28/volume/dsdp28_02.pdf.)
- Hayes, D.E. and 11 others (including D.J.W. Piper). 1975c. *Freemantle, Australia, to Christchurch, New Zealand; December 1972–February 1973. Vol. 28*. Washington, DC, U.S. Government Printing Office, July. (Deep Sea Drilling Project: initial reports.) (http://deepseadrilling.org/28/dsdp_toc.htm.)
- Hayes, D.E. and 11 others (including D.J.W. Piper). 1975d. Site 265. In Hayes, D.E. and L.A. Frakes, eds. *Deep Sea Drilling Project: initial reports, Vol. 28. Freemantle, Australia, to Christchurch, New Zealand: Leg 28*. Washington, DC, U.S. Government Printing Office, July, 49–80. (<http://tinyurl.com/n9ksqv8>.)
- Hayes, D.E. and 11 others (including D.J.W. Piper). 1975e. Site 266. In Hayes, D.E. and L.A. Frakes, eds. *Deep Sea Drilling Project: initial reports, Vol. 28. Freemantle, Australia, to Christchurch, New Zealand: Leg 28*. Washington, DC, U.S. Government Printing Office, July, 81–126. (<http://tinyurl.com/qzed6em>.)
- Hayes, D.E. and 11 others (including D.J.W. Piper). 1975f. Site 267. In Hayes, D.E. and L.A. Frakes, eds. *Deep Sea Drilling Project: initial reports, Vol. 28. Freemantle, Australia, to Christchurch, New Zealand: Leg 28*. Washington, DC, U.S. Government Printing Office, July, 121–152. (<http://tinyurl.com/nqxaw5h>.)
- Hayes, D.E. and 11 others (including D.J.W. Piper). 1975g. Site 268. In Hayes, D.E. and L.A. Frakes, eds. *Deep Sea Drilling Project: initial reports, Vol. 28. Freemantle, Australia, to Christchurch, New Zealand: Leg 28*. Washington, DC, U.S. Government Printing Office, July, 153–178. (<http://tinyurl.com/ozbldvr>.)
- Hayes, D.E. and 11 others (including D.J.W. Piper). 1975h. Site 269. In Hayes, D.E. and L.A. Frakes, eds. *Deep Sea Drilling Project: initial reports, Vol. 28. Freemantle, Australia, to Christchurch, New Zealand: Leg 28*. Washington, DC, U.S. Government Printing Office, July, 179–210. (<http://tinyurl.com/nml8xbs>.)
- Hayes, D.E. and 11 others (including D.J.W. Piper). 1975i. Site 273. In Hayes, D.E. and L.A. Frakes, eds. *Deep Sea Drilling Project: initial reports, Vol. 28. Freemantle, Australia, to Christchurch, New Zealand: Leg 28*. Washington, DC, U.S. Government Printing Office, July, 335–368. (<http://tinyurl.com/ncx793r>.)
- Hayes, D.E. and 11 others (including D.J.W. Piper). 1975j. Site 274. In Hayes, D.E. and L.A. Frakes, eds. *Deep Sea Drilling Project: initial reports, Vol. 28. Freemantle, Australia, to Christchurch, New Zealand: Leg 28*. Washington, DC, U.S. Government Printing Office, July, 369–433. (<http://tinyurl.com/p3qvrej>.)

- Hayes, D.E. and 11 others (including D.J.W. Piper). 1975k. Sites 270, 271, 272. In Hayes, D.E. and L.A. Frakes, eds. *Deep Sea Drilling Project: initial reports, Vol. 28. Freemantle, Australia, to Christchurch, New Zealand: Leg 28*. Washington, DC, U.S. Government Printing Office, July, 211–334. (10.2973/dsdp.proc.28.108.1975.)
- Head, E. 1997. *Proceedings of the Workshop on Ecosystem Considerations for Krill and Other Forage Fisheries, 2–4 April 1997, Halifax, Nova Scotia*. Dartmouth, Nova Scotia, June, Fisheries and Oceans Canada. Bedford Institute of Oceanography. Oceans Sciences Division. (Canadian Stock Assessment Proceedings Series 97/5.)
- Headland, R.K. 2011. Review of *Return to Antarctica: the amazing adventure of Sir Charles Wright on Robert Scott's journey to the South Pole*, by Adrian Raeside (2009). Mississauga, ON: John Wiley & Sons. 324 pp. ISBN 978-0-470-15380-2. *Polar Res.*, **30**, 7440. (www.polarresearch.net/index.php/polar/article/view/7440.)
- Hegglin, M.I. and T.G. Shepherd. 2010. Predicted Impact of climate change on clear-sky UV radiation. [Abstract.] *Eos, Trans. AGU*, **91**(26), Meet. Americas Suppl., A31D-01. (www.agu.org/meetings/ja10/program/index.php.)
- Heginbottom, J.A., J. Brown, O. Humlum and H. Svensson. 2012. Permafrost and periglacial environments. *US Geol. Surv. Prof. Pap.* 1386-A, A425–A496. (<http://pubs.usgs.gov/pp/p1386a/pdf/pp1386a-5-web.pdf>.)
- Heider, F., B. Leitner and H. Inokuchi. 1992a. Chapter 15. High southern latitude magnetostratigraphy and rock magnetic properties of sediments from sites 747, 749, and 751. In Wise, S.W., Jr and 28 others (including F. Heider and J.H. Sevigny), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, 225–245. (10.2973/odp.proc.sr.120.128.1992.)
- Heider, F., C. Geiss, D.J. Dunlop and H. Inokuchi. 1992b. Chapter 6. Rock-magnetic investigation of basalts from the southern Kerguelen Plateau (Leg 120). In Wise, S.W., Jr and 28 others (including F. Heider and J.H. Sevigny), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, 79–87. (10.2973/odp.proc.sr.120.127.1992.)
- Heil, P. and 6 others (including C. Haas). 2008. Tidal forcing on sea-ice drift and deformation in the western Weddell Sea in early austral summer, 2004. *Deep-Sea Res. II*, **55**(8–9), 943–962. (10.1016/j.dsr2.2007.12.026.)
- Heilmayer, O., S. Thatje, C. McClelland, K. Conlan and T. Brey. 2008. Changes in biomass and elemental composition during early ontogeny of the Antarctic isopod crustacean *Ceratoserolis trilobitoides*. *Polar Biol.*, **31**(11), 1325–1331. (10.1007/s00300-008-0470-8.)
- Heldmann, J.L. and 7 others (including D. Lacelle and W. Pollard). 2012. Formation and evolution of buried snowpack deposits in Pearse Valley, Antarctica: implications for Mars. *Antarct. Sci.*, **24**(3), 299–316. (10.1017/S0954102011000903.)
- Hellebrandt, S. 1994. Antarctic odyssey : this journey to the deep south leads to the land of penguins. *Record [Kitchener]*, 15 October, E.1.
- Hellmer, H.H., M. Schröder, C. Haas, G.S. Dieckmann and M. Spindler. 2008a. Copepods in sea ice of the western Weddell Sea during austral spring 2004. *Deep-Sea Res. II*, **55**(8–9), 1056–1067. (10.1016/j.dsr2.2007.12.014.)
- Hellmer, H.H., M. Schröder, C. Haas, G.S. Dieckmann and M. Spindler, eds. 2008b. Ice Station POLarstern (ISPOL): results of interdisciplinary studies on a drifting ice floe in the western Weddell Sea. *Deep-Sea Res. II*, **55**(8–9), 913–1131. (10.1016/j.dsr2.2007.12.014.)
- Hellmer, H.H., M. Schröder, C. Haas, G.S. Dieckmann and M. Spindler. 2008c. The ISPOL drift experiment. *Deep-Sea Res. II*, **55**(8–9), 913–917. (10.1016/j.dsr2.2008.01.001.)

- Helmig, D. *and 7 others* (including K. Anlauf and K. Hayden). 2007. A review of surface ozone in the polar regions. *Atmos. Environ.*, **41**(24), 5138–5161. (10.1016/j.atmosenv.2006.09.053.)
- Helmig, D. *and 11 others* (including J.W. Bottenheim). 2010. Volatile organic compounds in the global atmosphere. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, A41J-05, digital media. (<http://tinyurl.com/p7ohbdg>.)
- Hemery, L.G. *and 8 others* (including D. Steinke). 2012. Comprehensive sampling reveals circumpolarity and sympatry in seven mitochondrial lineages of the Southern Ocean crinoid species *Promachocrinus kerguelensis* (Echinodermata). *Mol. Ecol.*, **21**(10), 2502–2518. (10.1111/j.1365-294X.2012.05512.x.)
- Hemming, S.R. *and 6 others* (including M. Roy). 2006. Northward shift in LGM frontal boundaries implied by Sr isotope provenance studies in the circum-Antarctic Region. [Abstract.] *Eos, Trans. AGU*, **87**(36), Ocean Sci. Meet. Suppl., OS52F-04. (www.agu.org/meetings/os06/waisos06.html.)
- Hemming, S.R. *and 6 others* (including M. Roy). 2007. Strontium isotope tracing of terrigenous sediment dispersal in the Antarctic Circumpolar Current: implications for constraining frontal positions. *Geochem. Geophys. Geosyst.* **G³**, **8**(6), Q06N13. (10.1029/2006GC001441.)
- Henderson, G.S., W.F.J. Evans and J.C. McConnell. 1990. Effects of initial active chlorine concentrations on the Antarctic ozone spring depletion. *J. Geophys. Res.*, **95**(D2), 1899–1908. (<http://tinyurl.com/qb48wkc>.)
- Henderson, G.S., J.C. McConnell, S.R. Beagley and W.F.J. Evans. 1991. Polar ozone depletion: current status. *Can. J. Phys.*, **69**(8–9), 1110–1122. (10.1139/p91-170.)
- Henderson, M. 2001. Antarctic glacier found to be shrinking rapidly: scientists do not know if global warming is to blame for the situation. *Vancouver Sun*, 2 February, A.11.
- Henderson, M. and N. Hawkes. 2002. Bizarre giant creatures of Antarctic threatened by global warming: expert. *Ottawa Citizen*, 10 September, A.18.
- Henderson, M. 2006. Antarctic meltdown could raise sea level. *Calgary Herald*, A.22.
- Hendry, K.R. *and 7 others* (including R.B. Georg). 2011. Silicon isotopes in Antarctic sponges: an interlaboratory comparison. *Antarct. Sci.*, **23**(1), 34–42. (10.1017/S0954102010000593.)
- Hendrycks, E.A. and K.E. Conlan. 2003. *Monoculodes curtipediculus* (Amphipoda, Oedicerotidae), a new species from McMurdo Sound, Antarctica. *Crustaceana*, **76**(1), 49–63. (10.1163/156854003321672827.)
- Hendy, C.H., T.R. Healy, E.M. Rayner, J. Shaw and A.T. Wilson. 1979. Late Pleistocene glacial chronology of the Taylor Valley, Antarctica, and the global climate. *Quat. Res.*, **11**(2), 172–184. (10.1016/0033-5894(79)90002-4.)
- Henning, J.W. *and 60 others* (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, J. Kennedy and K. Vanderlinde). 2012. Feedhorn-coupled TES polarimeter camera modules at 150 GHz for CMB polarization measurements with SPTpol. In Holland, W.S. and J. Zmuidzinas, eds. *Millimeter, submillimeter, and far-infrared detectors and instrumentation for astronomy VI*. Bellingham, WA, International Society for Optical Engineering, 84523A. (SPIE Proceedings 8452, Part Two.) (10.1117/12.927172.)
- Henriques, F., D. Weis and J. Scoates. 2005. Principal component analysis of Cenozoic Kerguelen plume basalts. *Geochim. Cosmochim. Acta*, **69**(10), Supplement, Goldschmidt Conference 2005, A103. (http://goldschmidt.info/2005/Abstract%20Volume/abs_vol.pdf.)
- Henrys, S.A. *and 6 others* (including R.J. Hamilton). 1998. Seismic stratigraphy of the pre-Quaternary strata off Cape Roberts and their correlation with strata cored in the CIROS-1 drillhole, McMurdo Sound. *Terra Ant.*, **5**(3), 273–279.
- Herd, C.D.K. 2006a. Fractionation of K, U and Th during Martian aqueous alteration: insights from MIL 03346. *Thirty-seventh Lunar and Planetary Science Conference, 13–17 March 2006, Houston, TX. Abstracts*. Houston, TX, Lunar and Planetary Institute, Abstract 2079, CD-ROM. (LPI Contribution No.1303.) (www.lpi.usra.edu/meetings/lpsc2006/pdf/2079.pdf.)

- Herd, C.D.K. 2006b. An occurrence of jarosite in MIL 03346: implications for conditions of Martian aqueous alteration. *69th Annual Meeting of the Meteoritical Society, 6–11 August 2006, Zürich, Switzerland*. Houston, TX, Lunar and Planetary Institute, Abstract #5027, digital media. (www.lpi.usra.edu/meetings/metsoc2006/pdf/5027.pdf.)
- Herd, R.K., P.A. Hunt and K.E. Venance. 2001. A new (?) L3/LL3 chondrite from the Antarctic. [Abstract 5367.] *Meteor. & Planet. Sci.*, **36**(S9), Suppl.: 64th Annual Meteoritical Soc. Meet., A79. (www.lpi.usra.edu/meetings/metsoc2001/pdf/5367.pdf.)
- Herd, R.K., P.A. Hunt, K.E. Venance, Y. Amelin and E. Rotenberg. 2002. Textural, mineralogical and isotopic age studies on an unnamed L/LL3 chondrite from Antarctica. *Thirty-Third Lunar and Planetary Science Conference, 11–15 March 2002, League City, Texas*. Houston, TX, Lunar and Planetary Institute, Abstract #1957, digital media. (LPI Contribution No.1109.) (www.lpi.usra.edu/meetings/lpsc2002/pdf/1957.pdf.)
- Herd, R.K., P.A. Hunt, K.E. Venance and M.B. Killgore. 2003a. Comparative textural and mineralogical studies of two primitive ordinary chondrites: Saratov (L4) and an unnamed (L/LL3) from Antarctica. *Thirty-Fourth Lunar and Planetary Science Conference, 17–21 March 2003, League City, Texas*. Houston, TX, Lunar and Planetary Institute, Abstract #2058, digital media. (LPI Contribution No.1156.) (www.lpi.usra.edu/meetings/lpsc2003/pdf/2058.pdf.)
- Herd, R.K., M.B. Killgore, P.A. Hunt and K.E. Venance. 2003b. More textural and mineralogical studies of primitive ordinary chondrites. *66th Annual Meeting of the Meteoritical Society, 28 July – 1 August 2003, Münster, Germany*. Houston, TX, Lunar and Planetary Institute, Abstract #5281, digital media. (www.lpi.usra.edu/meetings/metsoc2003/pdf/5281.pdf.)
- Herd, R.K., P.A. Hunt and K.E. Venance. 2004. The systematic petrology of chondrites: a consistent approach to assist classification and interpretation. *Chondrites and the Protoplanetary Disk, 8–11 November 2004, Kauai'i, Hawaii'i*. Houston, TX, Lunar and Planetary Institute, Abstract #9090, digital media. (LPI Contribution No.1218.) (www.lpi.usra.edu/meetings/chondrites2004/pdf/9090.pdf.)
- Hermanson, M.H., E. Isaksson, C. Teixeira and D.C.G. Muir. 2012. Ice core burdens and fluxes of PCBs, brominated flame retardants, halobenzenes and current-use and legacy pesticides from ice cores near the coast of East Antarctica with comparisons to the Arctic. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 506, digital media. (http://132.246.11.198/2012-ipy/Abstracts_On_the_Web/pdf/ipy2012arAbstract00506.pdf.)
- Hernández, E.A., G.A. Ferreyra and W.P. Mac Cormack. 2007. La mezcla vertical como factor atenuador de los efectos deletéreos de la radiación UV sobre bacterias marinas antárticas [The vertical mixing as attenuating factor of the deleterious effect of UV radiation on marine Antarctic bacteria]. *Actas del VI° Simposio Argentino y III° Latinoamericano sobre Investigaciones Antárticas, 10–14 Septiembre 2007, Buenos Aires, Argentina*. Buenos Aires, Dirección Nacional del Antártico. Instituto Antártico Argentino, Extended abstract CVRE404, CD-ROM. [In Spanish] (<http://tinyurl.com/oz6gjn7>.)
- Hernández, E.A., G.A. Ferreyra and W.P. Mac Cormack. 2008. Impact of ultraviolet radiation on two isolated Antarctic marine bacteria. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **571**, 311–319. (<http://epic.awi.de/28602/1/Wie2008b.pdf>.)
- Hernández, E.A., G.A. Ferreyra, L.A.M. Ruberto and W.P. Mac Cormack. 2009. The water column as attenuating factor of the UVR effects on bacteria from a coastal Antarctic marine environment. *Polar Res.*, **28**(3), 390–398. (10.1111/j.1751-8369.2009.00111.x.)
- Hernández, E.A., G.A. Ferreyra, S. Vazquez, L.A. Ruberto, S. Coria and W.P. Mac Cormack. 2010. The vertical mixing as a regulating factor of the UVR effects on bacterioplankton from an Antarctic marine coastal environment. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 341, CD-ROM.

- Hernando, M., I. Schloss, S. Roy and G. Ferreyra. 2006. Photoacclimation to long-term ultraviolet radiation exposure of natural sub-Antarctic phytoplankton communities: fixed surface incubations versus mixed mesocosms. *Photochem. Photobiol.*, **82**(4), 923–935. (10.1562/2005-08-29-RA-662.)
- Hernando, M., G. Malanga, S. Puntarulo and G.A. Ferreyra. 2008. A comparative study of defence strategies against UV-induced damage in an Antarctic diatom (*Thalassiosira* sp.) and a sub-Antarctic phytoflagellate (*Asteromonas* sp.). *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **571**, 243–253. (<http://epic.awi.de/28602/1/Wie2008b.pdf>.)
- Hernando, M., I. Schloss, G. Malanga, P. S., M. Hoffmeyer and G. Ferreyra. 2010. Impact of coastal meltwaters on the Antarctic phytoplankton. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 343, CD-ROM.
- Hernando, M., G. Malanga, S. Puntarulo and G. Ferreyra. 2011. Non-enzymatic antioxidant photoprotection against potential UVBR-induced damage in an Antarctic diatom (*Thalassiosira* sp.). *Lat. Am. J. Aquat. Res.*, **39**(3), 397–408. (10.3856/vol39-issue3-fulltext-1.)
- Hernando, M.P., J.I. Carreto, M. Carignan and G.A. Ferreyra. 2012. Effect of vertical mixing on short-term mycosporine-like amino acids (MAAs) synthesis in the Antarctic diatom, *Thalassiosira* sp. *Sci. Marina*, **76**(1), 49–57. (10.3989/scimar.03203.16D.)
- Hessen, D.O. 2011. Review of *Polar lakes and rivers: limnology of Arctic and Antarctic aquatic systems*, edited by Warwick F. Vincent and Johanna Laybourn-Parry (2008). Oxford: Oxford Press. 377 pp. ISBN 978-0-19-921388-7. *Polar Res.*, **30**, 5928. (www.polarresearch.net/index.php/polar/article/view/5928.)
- Hewitt, I.J., C. Schoof and M.A. Werder. 2012. Flotation and free surface flow in a model for subglacial drainage. Part 2. Channel flow. *J. Fluid Mech.*, **702**, 157–187. (10.1017/jfm.2012.166.)
- Hewson, E.W. 1937. A survey of the facts and the theories of the aurora. *Rev. Mod. Phys.*, **9**(4), 403–431. (10.1103/RevModPhys.9.403.)
- Hezaveh, Y.D. and G.P. Holder. 2011. Effects of strong gravitational lensing on millimeter-wave galaxy number counts. *Astrophys. J.*, **734**(1), 52. (10.1088/0004-637X/734/1/52.)
- Hickey, H. 2003. The Southern Ocean: a possible source region for tropical Atlantic variability M.Sc. thesis, School of Earth and Ocean Sciences, University of Victoria, Victoria, B.C.
- Hickey, H. and A.J. Weaver. 2003. The Southern Ocean: a possible source region for tropical Atlantic variability? [Abstract.] *Oceanography*, **16**(2), TOS-OIA Ocean Conference Abstracts, 44. (www.tos.org/oceanography/archive/16-2_abstracts.pdf.)
- Hickey, H. and A.J. Weaver. 2004. The Southern Ocean as a source region for tropical Atlantic variability. *J. Climate*, **17**(20), 3960–3972. (10.1175/1520-0442(2004)017<3960:TSOAAS>2.0.CO;2.)
- Hicock, S.R. 2000. Mesoscopic analysis of semi-consolidated, non-oriented core of diamictite. *J. Sediment. Res.*, **70**(4), 967–969. (10.1306/2DC40945-0E47-11D7-8643000102C1865D.)
- Hicock, S.R., J.R. Goff and W.W. Dickinson. 1999. Mesoscopic analysis of Sirius Group in core from Table Mountain, Dry Valleys area, Antarctica. In Skinner, D.N.B., ed. *8th International Symposium on Antarctic Earth Sciences, Wellington, New Zealand. Programme and abstracts*. Wellington, Royal Society of New Zealand, 141.
- Hicock, S.R., J.R. Goff and W.W. Dickinson. 2002. Macroscopic and mesoscopic analysis of outcrop and core, Sirius Group, Table Mountain, Dry Valleys, Antarctica. In Gamble, J.A., D.N.B. Skinner and S.A. Henrys, eds. *Antarctica at the close of a millenium*. Wellington, Royal Society of New Zealand, 319–325. (RSNZ Bulletin 35.)
- Hicock, S.R., P.J. Barrett and P.J. Holme. 2003. Fragment of an ancient outlet glacier system near the top of the Transantarctic Mountains. *Geology*, **31**(9), 821–824. (10.1130/G19686.1.)

- High, F.W. *and 70 others* (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, L. Shaw and K. Vanderlinde). 2010. Optical redshift and richness estimates for galaxy clusters selected with the Sunyaev-Zel'dovich effect from 2008 South Pole Telescope observations. *Astrophys. J.*, **723**(2), 1736–1747. (10.1088/0004-637X/723/2/1736.)
- High, F.W. *and 85 others* (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, L. Shaw, A. van Engelen and K. Vanderlinde). 2012. Weak-lensing mass measurements of five galaxy clusters in the South Pole Telescope survey using Magellan/Megacam. *Astrophys. J.*, **758**(1), Article 68. (10.1088/0004-637X/758/1/68.)
- Highfield, R. 2002. Antarctic ozone hole to close in next 50 years, scientists say. *Vancouver Sun*, 18 September, A.12.
- Highfield, R. 2005. Most Antarctic marine glaciers are shrinking, study concludes. *Times Colonist [Victoria]*, 22 April, B.12.
- Highfield, R. 2007. Antarctic waters teem with unknown life. *Edmonton J.*, A.3.
- Hik, D. 2011. Chapter 4. IPY public programs; publishing and archiving IPY: new generation of polar scientists. Introduction. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 478–480. (CCI Occasional Publication 69.) (http://library.arcticportal.org/1211/1/IPY_Summary.pdf.)
- Hik, D.S. 2012. Synopsis of IPY key findings and their relationship to the knowledge-action interface. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 2497, digital media. (<http://tinyurl.com/p8tpwh9>.)
- Hik, D.S. and K.E. Edwards. 2006. Canadian preparations for the International Polar Year 2007–2008. [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., ED14A-02. (www.agu.org/meetings/fm06/waisfm06.html.)
- Hill, R.D., R.C. Schneider, A.H. Schuette, W.M. Zapol, G.C. Liggins and P.W. Hochachka. 1983. Microprocessor-controlled monitoring of bradycardia in free-diving Weddell seals. *Antarct. J. U.S.*, **18**(5), 1983 Review, 213–214. (<http://tinyurl.com/onuvxmf>.)
- Hillman, A., P. Rolland, M. Chabot, R. Periard, P. Ledantec and N. Martens. 2011. RADARSAT-2 Mission operations status. *2011 IEEE International Geoscience & Remote Sensing Symposium, 24–29 July 2011, Vancouver, British Columbia, Canada. Proceedings*. New York, NY, Institute of Electrical and Electronics Engineers, 3480–3483. (10.1109/IGARSS.2011.6049970.)
- Hindle, A.G., M. Horning, J.-A.E. Mellish and J.M. Lawler. 2009. Diving into old age: muscular senescence in a large-bodied, long-lived mammal, the Weddell seal (*Leptonychotes weddellii*). *J. Exp. Biol.*, **212**(6), 790–796. (10.1242/jeb.025387.)
- Hipfner, J.M., K.B. Gorman, R.A. Vos and J.B. Joy. 2010. Evolution of embryonic developmental period in the marine bird families Alcidae and Spheniscidae: roles for nutrition and predation? *BMC Evol. Biol.*, **10**, 179. (www.biomedcentral.com/1471-2148/10/179.)
- Hirsch, P. *and 7 others* (including R. Anderson). 2004. *Deinococcus frigens* sp. nov., *Deinococcus saxicola* sp. nov., and *Deinococcus marmoris* sp. nov., low temperature and draught-tolerating, UV-resistant bacteria from continental Antarctica. *Syst. Appl. Microbiol.*, **27**(6), 636–645. (10.1078/0723202042370008.)
- Hitchcock, P., T.G. Shepherd and C. McLandress. 2009. Past and future conditions for polar stratospheric cloud formation simulated by the Canadian Middle Atmosphere Model. *Atmos. Chem. Phys. (ACP)*, **9**(2), 483–495. (10.5194/acp-9-483-2009.)
- Hitchcock, P., T.G. Shepherd and S. Yoden. 2010. On the approximation of local and linear radiative damping in the middle atmosphere. *J. Atmos. Sci.*, **67**(6), 2070–2085. (10.1175/2009JAS3286.1.)

- Ho, D.T. *and 9 others* (including D. Hebert and R.C. Hamme). 2011a. Southern Ocean Gas Exchange Experiment: setting the stage. *J. Geophys. Res.*, **116**(C4), Special Section, C00F08. (10.1029/2010JC006852.)
- Ho, D.T., R. Wanninkhof, P. Schlosser, D.S. Ullman, D. Hebert and K.F. Sullivan. 2011b. Toward a universal relationship between wind speed and gas exchange: gas transfer velocities measured with ³He/SF₆ during the Southern Ocean Gas Exchange Experiment. *J. Geophys. Res.*, **116**(C4), Special Section, C00F04. (10.1029/2010JC006854.)
- Hochachka, P.W. and G.N. Somero. 1968. The adaptation of enzymes to temperature. *Comp. Biochem. Physiol.*, **27**(3), 659–664. (10.1016/0010-406X(68)90605-1.)
- Hochachka, P.W. 1995. Hormonal regulatory adjustments during voluntary diving in Weddell seals. *Comp. Biochem. Physiol. B*, **112**(2), 361–375. (10.1016/0305-0491(96)85239-4.)
- Hock, R.M., M. de Woul, V. Radić and M. Dyurgerov. 2009a. Contribution of mountain glaciers and ice caps to sea-level rise. [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., C23A-0475. (www.agu.org/meetings/fm09/waisfm09.html.)
- Hock, R., M. de Woul, V. Radić and M. Dyurgerov. 2009b. Mountain glaciers and ice caps around Antarctica make a large sea-level rise contribution. *Geophys. Res. Lett.*, **36**(7), L07501. (10.1029/2008GL037020.)
- Hocking, W.K. 2011. A review of Mesosphere-Stratosphere-Troposphere (MST) radar developments and studies, circa 1997–2008. *J. Atmos. Solar–Terres. Phys.*, **73**(9), 848–882. (10.1016/j.jastp.2010.12.009.)
- Hodgson, D.A. and J.P. Smol. 2008. Chapter 3. High latitude palaeolimnology. In Vincent, W.F. and J. Laybourn-Parry, eds. *Polar lakes and rivers: limnology of Arctic and Antarctic aquatic ecosystems*. Oxford, Oxford University Press, 43–64.
- Hodgson, D.A. *and 7 others* (including P.R. Leavitt). 2004. Environmental factors influencing the pigment composition of *in situ* benthic microbial communities in East Antarctic lakes. *Aquat. Microbial Ecol.*, **37**(3), 247–263. (www.int-res.com/articles/ame2004/37/a037p247.pdf.)
- Hodgson, D.A. *and 6 others* (including P.R. Leavitt). 2005. Late Pleistocene record of elevated UV radiation in an Antarctic lake. *Earth Planet. Sci. Lett.*, **236**(3–4), 765–772. (10.1016/j.epsl.2005.05.023.)
- Hodum, P.J. and K.A. Hobson. 2000. Trophic relationships among Antarctic fulmarine petrels: insights into dietary overlap and chick provisioning strategies inferred from stable-isotope ($\delta^{15}\text{N}$ and $\delta^{13}\text{C}$) analyses. *Mar. Ecol. Progr. Ser.*, **198**, 273–281. (10.3354/meps198273.)
- Hoffman, P.F. 1991. Did the breakout of Laurentia turn Gondwanaland inside-out? *Science*, **252**(5011), 1409–1412. (10.1126/science.252.5011.1409.)
- Holden, C. 1991. Keeping tabs on a big berg. *Science*, **254**(5036), 1290. (Report on work of S.A. Stubbs and F.E. Bunn.) (10.1126/science.254.5036.1290-a.)
- Holderegger, R., I. Stehlik, R.I. Lewis Smith and R.J. Abbott. 2003. Populations of Antarctic hairgrass (*Deschampsia antarctica*) show low genetic diversity. *Arct. Ant. Alp. Res.*, **35**(2), 214–217. (10.1657/1523-0430(2003)035[0214:POAHDA]2.0.CO;2.)
- Holdgate, M.W., S.E. Allen and M.J.G. Chambers. 1967. A preliminary investigation of the soils of Signy Island, South Orkney Islands. *Br. Ant. Surv. Bull.*, **12**, 53–71. (www.antarctica.ac.uk/documents/bas_bulletins/bulletin12_05.pdf.)
- Holdsworth, G. 1969. Flexure of a floating ice tongue. *J. Glaciol.*, **8**(54), 385–397.
- Holdsworth, G. 1970. Deformation of the Ross Ice Shelf, Antarctica: comments. *Geol. Soc. Am. Bull.*, **81**(5), 1569–1570.
- Holdsworth, G. 1971. Correspondence. Note on the paper "Flexure of a floating ice-tongue". *J. Glaciol.*, **10**(59), 319.

- Holdsworth, G. 1974a. Erebus Glacier tongue, McMurdo Sound, Antarctica. *J. Glaciol.*, **13**(67), 27–35.
- Holdsworth, G. 1974b. Meserve Glacier, Wright Valley, Antarctica: Part 1. Basal processes. *Inst. Polar Stud. Rep.*, **37**, 104 pp.
- Holdsworth, G. 1982. Dynamics of Erebus Glacier tongue. *Ann. Glaciol.*, **3**, 131–137.
- Holdsworth, G. 1983. Meeting report — Advances in core drilling technology. *Eos, Trans. AGU*, **64**(6), 58.
- Holdsworth, G. 1985. Some effects of ocean currents and wave motion on the dynamics of floating glacier tongues. In Jacobs, S.S., ed. *Oceanology of the Antarctic continental shelf*. Washington, DC, American Geophysical Union, 253–271. (Antarctic Research Series 43.)
- Holdsworth, G. and C. Bull. 1970. The flow law of cold ice: investigations on Meserve Glacier, Antarctic. *IASH Publ.*, **86**, (Symposium at Hanover 1968 — *Antarctic Glaciological Exploration (ISAGE)*), 204–216. (<http://ks360352.kimsufi.com/redbooks/a086/086026.pdf>.)
- Holdsworth, G. and J.E. Glynn. 1978. Iceberg calving from floating glaciers by a vibrating mechanism. *Nature*, **274**(5670), 464–466. (10.1038/274464a0.)
- Holdsworth, G. and J.E. Glynn. 1981. A mechanism for the formation of large icebergs. *J. Geophys. Res.*, **86**(C4), 3210–3222. (10.1029/JC086iC04p03210.)
- Holdsworth, G. and A.J. Heine. 1979. Undulations on the McMurdo Ice Shelf near Scott Base, Antarctica. *New Zeal. Ant. Rec.*, **2**(2), 16–22.
- Holdsworth, G. and R. Holdsworth. 1978. Erebus Glacier tongue movement. *Antarct. J. U.S.*, **13**(4), 61–63. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXIIIIn4/AJUSvXIIIIn4p61.pdf>.)
- Holeton, G.F. 1976. Respiratory morphometrics of white and red blooded Antarctic fish. *Comp. Biochem. Physiol. A*, **54**(2), 215–219. (10.1016/S0300-9629(76)80100-4.)
- Hollibaugh, J.T., C. Lovejoy and A.E. Murray. 2007. Microbiology in polar oceans. *Oceanography*, **20**(2), 140–145. (10.5670/oceanog.2007.59.)
- Hollin, J.T. 2000. Book review. Foothold on Antarctica: The First International Expedition (1949-1952) through the Eyes of Its Youngest Member by Charles Swithinbank; On Floating Ice: Two Years on an Antarctic Ice-Shelf by Joseph MacDowall. *Arct. Ant. Alp. Res.*, **32**(3), 364–365. (10.2307/1552539.)
- Holme, P.J. and S.R. Hicock. 2001. The Sirius Group and the East Antarctic ice sheet. *CARN Newsl.*, **13**, 1–3. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/13.pdf.)
- Honjo, S., S.J. Manganini, R.A. Krishfield and R. Francois. 2008. Particulate organic carbon fluxes to the ocean interior and factors controlling the biological pump: a synthesis of global sediment trap programs since 1983. *Progr. Oceanogr.*, **76**(3), 217–285. (10.1016/j.pocean.2007.11.003.)
- Honjo, S., R.H. Francois, S.J. Manganini and T.I. Eglinton. 2010. Uptake of CO₂ in the pelagic ocean by the biological pump; the global flux and the regional variability. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, GC21E-03, digital media. (www.agu.org/cgi-bin/wais?ss=GC21E-03.)
- Hoover, C., T. Pitcher and E. Pakhomov. 2012. The Antarctic Peninsula marine ecosystem model and simulations: 1978–present. In Wabnitz, C.C.C. and C. Hoover, eds. *From the tropics to the poles: ecosystem models of Hudson Bay, Kaloko-Honokōhau, Hawai‘i, and the Antarctic Peninsula*. Vancouver, B.C., University of British Columbia. Fisheries Centre, 108–182. (Fisheries Centre Research Reports, Vol.20, No.2.) (<http://fisheries.ubc.ca/sites/fisheries.ubc.ca/files/uploads/FCRR/20-2.pdf>.)
- Hopes, V. 2010. An ice time: Abby teen on Antarctic expedition. *Abbotsford News*, 25 January, 1.
- Hopkins, D.W. and 6 others (including E.G. Gregorich). 2005. Chapter 4. Soil micro-organisms in Antarctic dry valleys: resource supply and utilization. In Gadd, G.M., K.T. Semple and H.M. Lappin-Scott, eds. *Micro-organisms and Earth systems: advances in geomicrobiology*. Cambridge, U.K., etc., Cambridge University Press, 71–84. (SGM Symposium 65.) (10.2277/0521862221.)

- Hopkins, D.W. and 6 others (including E.G. Gregorich). 2006a. Carbon, nitrogen and temperature controls on microbial activity in soils from an Antarctic Dry Valley. *Soil Biol. Biochem.*, **38**(10), 3130–3140. (10.1016/j.soilbio.2006.01.012.)
- Hopkins, D.W., A.D. Sparrow, P.M. Novis, E.G. Gregorich, B. Elberling and L.G. Greenfield. 2006b. Controls on the distribution of productivity and organic resources in Antarctic Dry Valley soils. *Proc. R. Soc. [London]: Biol. Sci.*, **273**(1602), 2687–2695. (10.1098/rspb.2006.3595.)
- Hopkins, D.W. and 8 others (including E.G. Gregorich). 2008a. Enzymatic activities and microbial communities in an Antarctic dry valley soil: Responses to C and N supplementation. *Soil Biol. Biochem.*, **40**(9), 2130–2136. (10.1016/j.soilbio.2008.03.022.)
- Hopkins, D.W., A.D. Sparrow, E.G. Gregorich, P. Novis, B. Elberling and L.G. Greenfield. 2008b. Redistributed lacustrine detritus as a spatial subsidy of biological resources for soils in an Antarctic Dry Valley. *Geoderma*, **144**(1–2), 86–92. (10.1016/j.geoderma.2007.10.016.)
- Hopkins, D.W. and 9 others (including E.G. Gregorich). 2009. Isotopic evidence for the provenance and turnover of organic carbon by soil microorganisms in the Antarctic dry valleys. *Environ. Microbiol.*, **11**(3), 597–608. (10.1111/j.1462-2920.2008.01830.x.)
- Hopkins, D., A.D. Sparrow, E.G. Gregorich, B. Elberling, P. Novis and L.G. Greenfield. 2010. Isotopic evidence for the provenance and turnover of organic carbon by soil microorganisms in the Antarctic Dry Valleys. In Gilkes, R.J. and N. Prakongkep, eds. *Soil solutions for a changing world. Proceedings of the 19th World Congress of Soil Science, 1–6 August 2010, Brisbane, Australia*. Brisbane, International Union of Soil Sciences (IUSS), DVD, 24–27. (Working Group 1.4. Cold soils in a changing world.) (www.iuss.org/19th%20WCSS/symposium/pdf/1720.pdf.)
- Hoppe, C.J.M., C. Hassler, C.D. Payne, P. Tortell, B. Rost and S. Trimborn. 2012. Combined effects of ocean acidification and iron availability on Southern Ocean phytoplankton communities. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (<http://tinyurl.com/o5wdwu9>.)
- Hoppema, M., R. Middag, H.J.W. Baar, E. Fahrbach, E.M. Weerlee and H. Thomas. 2007. Whole season net community production in the Weddell Sea. *Polar Biol.*, **31**(1), 101–111. (10.1007/s00300-007-0336-5.)
- Horner, R. and 9 others (including L. Legendre). 1992. Ecology of sea ice biota. 1. Habitat, terminology, and methodology. *Polar Biol.*, **12**(3–4), 417–427. (10.1007/BF00243113.)
- Hosie, G.W., B.P.V. Hunt, J.A. Kitchener, M. Fukuchi and S. Kawaguchi. 2006. Southern Ocean continuous plankton recorder survey: spatial and temporal variation in zooplankton abundance, distribution and composition. *Second SCAR Open Science Conference, Antarctica in the Earth System, 12–14 July 2006, Hobart, Tasmania*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 259, digital media. (www.scarcomnap2006.org/abstract/pdf/SCARXXIX_0259.PDF.)
- Hosie, G.W., B.P.V. Hunt, K. Takahashi, J. Kitchener and D. McLeod. 2009. Circum-Antarctic zooplankton patterns as determined by Continuous Plankton Recorder. *Census of Antarctic Marine Life Final Synthesis Symposium, SCAR Marine Biodiversity Information Network meeting, 17–20 May 2009, Genoa, Italy*. Brussels, Royal Belgian Institute of Natural Sciences, presentation.
- Hosie, G. and 10 others (including S.D. Batten). 2012. Initiation of a Global Alliance of Continuous Plankton Recorder Surveys (GACS). *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_35.pdf.)
- Hotz, R.L. 1996. 500,000-year-old ice yields ancient secrets: The environmental conditions of centuries long past are recorded in Antarctic ice sheets. These frozen archives have recently been unlocked by scientists drilling into the prehistoric deepfreeze. *Vancouver Sun*, 20 January, B.2.
- Houle, A. 1999. The origin of platyrrhines: an evaluation of the Antarctic scenario and the floating island model. *Am. J. Phys. Anthropol.*, **109**(4), 541–559. (<http://tinyurl.com/nrf7cl8>.)

- House, D.J., M. Lloyd, Capt., P.R.M. Toomey, Capt and D. Dickins. 2010. *The ice navigation manual* Livingston, U.K., Witherby Seamanship International Ltd.
- Howard-Williams, C., R.D. Pridmore, P.A. Broady and W.F. Vincent. 1990. Environmental and biological variability in the McMurdo Ice Shelf ecosystem. In Kerry, K.R. and G. Hempel, eds. *Antarctic ecosystems. Ecological change and conservation*. Berlin, Springer-Verlag, 23–31.
- Howard-Williams, C., I. Hawes, R. Smith and W. Vincent. 2001. The McMurdo ice shelf: a cyanobacteria dominated polar wetland. *Antarctic System Science Workshop, Systems Science Day, 30 April 2001, Canterbury, New Zealand. Abstracts*. Christchurch, New Zealand, University of Canterbury, 21.
- Howkins, A. 2012. Book Reviews. GRIFFITH TAYLOR: VISIONARY, ENVIRONMENTALIST, EXPLORER. Strange and Bashford. 2008. Canberra: National Library of Australia. 283p, illustrated, soft cover. ISBN 978-0-6422-7668-1. US\$22. *Polar Rec.*, **48**(4), e11. (10.1017/S0032247412000319.)
- Hrycyk, B. 1999. Commentary. History of exploration. In Lewkowicz, A., ed. *Poles apart, a study in contrasts. Proceedings of an International Symposium on Arctic and Antarctic Issues, 25–27 September 1997, Ottawa, Ontario, Canada*. Ottawa, Ont., University of Ottawa Press, 231–233.
- Hrycyk, B. 2000. Canadian Arctic–Antarctic Exchange Program. *CARN Newsl.*, **10**, 6–7. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/10.pdf.)
- Hrycyk, B. 2001. Council of Managers on National Antarctic Programs (COMNAP), Amsterdam, August 2001. *CARN Newsl.*, **13**, 11. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/13.pdf.)
- Hrycyk, B. 2004. Management and infrastructure. In Loken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research*. Ottawa, Ont., Canadian Polar Commission, February, 41–43. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/Polar%20Connections.pdf.)
- Hsieh, W.W. and K. Bryan. 1996. Redistribution of sea level rise associated with enhanced greenhouse warming; a simple model study. *Climate Dyn.*, **12**(8), 535–544. (10.1007/s003820050126.)
- Huber, M. and 8 others (including G.L. Williams). 2002. Was Antarctica kept warm by subtropical waters in the Eocene? Part 2. Climate model results. [Abstract PP11C-03.] *Eos, Trans. AGU*, **83**(47), Fall Meet. Suppl., F926. (www.agu.org/meetings/fm02/waisfm02.html.)
- Huber, M. and 7 others (including G.L. Williams). 2004. Eocene circulation of the Southern Ocean: was Antarctica kept warm by subtropical waters? *Paleoceanography*, **19**(4), PA4026. (10.1029/2004PA001014.)
- Huddart, A. 1999. Top officials of Antarctic Treaty nations to meet: 'Ministerial on ice'. *Natl. Post [Don Mills]*, A.15.
- Huffman, A.R., J.H. Crockett and N.L. Carter. 1988. Iridium, shocked minerals, and trace elements across the Cretaceous/Tertiary boundary at Maud Rise, Weddell Sea, and Walvis Ridge, South Atlantic Ocean. *Global catastrophes in Earth history: an interdisciplinary conference on impacts, volcanism, and mass mortality, 20–23 October 1988, Snowbird, UT. Abstracts*. Houston, TX, Lunar and Planetary Institute, 81–82. (LPI Contribution 673.)
- Hughes, T.M.C. and A.J. Weaver. 1994. Multiple equilibria of an asymmetric two-basin ocean model. *J. Phys. Oceanogr.*, **24**(3), 619–637. (10.1175/1520-0485(1994)024<0619:MEOAAT>2.0.CO;2.)
- Hull, C.L. 1999. Comparison of the diets of breeding royal (*Eudyptes schlegeli*) and rockhopper (*Eudyptes chrysocome*) penguins on Macquarie Island over three years. *J. Mamm.*, **247**(4), 507–529. (10.1111/j.1469-7998.1999.tb01013.x.)
- Hultqvist, K. and for the IceCube Collaboration (that includes D. Grant, S.C. Nowicki and T.R. Wood). 2011. IceCube: physics, status, and future. *Nucl. Instrum. Meth. Phys. Res. A*, **626–627**, Supplement, S6–S12. (10.1016/j.nima.2010.05.014.)
- Hume, M. 1986a. Antarctic explorer broke and seeking employment. *Ottawa Citizen*, 26 December, A.3.

- Hume, M. 1986b. One-shot flight braves treacherous weather to bring Canadian home from Antarctic base. *Ottawa Citizen*, 16 December, A.1.
- Hume, M. 1988. Antarctic diary; A Canadian's trek to the South Pole Series: Antarctic diary. *Ottawa Citizen*, 30 January, F.1.
- Hume, S. 1995. Chilling environmental news from the Antarctic. *Vancouver Sun*, 28 July, A.19.
- Hunt, B. 2006. The Southern Ocean continuous plankton recorder survey. *CARN Newsl.*, **22**, 1–4. ([www.polarcom.gc.ca/uploads/Publications/\(CARN\)/carn_vol22_eng.pdf](http://www.polarcom.gc.ca/uploads/Publications/(CARN)/carn_vol22_eng.pdf).)
- Hunt, B. and L. Gurney. 2007. Biology of pelagic tunicates in the Lazarev Sea. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **568**, 58–63. (<http://epic.awi.de/27486/1/Str2007c.pdf>.)
- Hunt, B.P.V. and G.W. Hosie. 2006a. Continuous Plankton Recorder flow rates revisited: clogging, ship speed and flow meter design. *J. Plankton Res.*, **28**(9), 847–855. (10.1093/plankt/fbl020.)
- Hunt, B.P.V. and G.W. Hosie. 2006b. Ocean biogeography and taxonomic resolution: what is in the name? *Second SCAR Open Science Conference, Antarctica in the Earth System, 12–14 July 2006, Hobart, Tasmania*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 478, digital media. (www.scarcomnap2006.org/abstract/pdf/SCARXXIX_0478.PDF.)
- Hunt, B.P.V. and G.W. Hosie. 2006c. The seasonal succession of zooplankton in the Southern Ocean south of Australia. Part I. The seasonal ice zone. *Deep-Sea Res. I*, **53**(7), 1182–1202. (10.1016/j.dsr.2006.05.001.)
- Hunt, B.P.V. and G.W. Hosie. 2006d. The seasonal succession of zooplankton in the Southern Ocean south of Australia. Part II: The Sub-Antarctic to Polar Frontal Zones. *Deep-Sea Res. I*, **53**(7), 1203–1223. (10.1016/j.dsr.2006.05.002.)
- Hunt, B.P.V. and G.W. Hosie. 2006e. Zooplankton community succession in the Southern Ocean south of Tasmania, Australia. Part II. The sub-Antarctic and Polar Frontal Zones. *Deep-Sea Res. I*, **53**(7), 1203–1223. (10.1016/j.dsr.2006.05.002.)
- Hunt, B.P.V. and G.W. Hosie. 2010. Southern Ocean biogeography and taxonomic resolution: what's in the name? *Mar. Biol.*, **155**(2), 191–203. (10.1007/s00227-008-1017-9.)
- Hunt, B.P.V. and E.A. Pakhomov. 2006. Interannual variation in the macrozooplankton community structure of the Cosmonaut Sea, East Antarctica. *Second SCAR Open Science Conference, Antarctica in the Earth System, 12–14 July 2006, Hobart, Tasmania*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 456, digital media. (www.scarcomnap2006.org/abstract/pdf/SCARXXIX_0456.PDF.)
- Hunt, B.P.V., E.A. Pakhomov and B. Trotsenko. 2007a. The macrozooplankton of the Cosmonaut Sea, East Antarctica (30°E–60°E), 1987–1990. *Deep-Sea Res. I*, **54**(7), 1042–1069. (10.1016/j.dsr.2007.04.002.)
- Hunt, B.P.V., E.A. Pakhomov and G.W. Hosie. 2007b. Pteropods in Southern Ocean ecosystems. *Human and climate forcing of zooplankton populations. 4th International Zooplankton Production Symposium, 28 May–1 June 2007, Hiroshima, Japan. Abstracts and program*. Sidney, B.C., North Pacific Marine Science Organization (PICES), Abstract S3-3565, 83. (<http://tinyurl.com/npxhss0>.)
- Hunt, B.P.V., E.A. Pakhomov, G.W. Hosie, V. Siegel, P. Ward and K. Bernard. 2007c. Pteropods in Southern Ocean ecosystems. *Progr. Oceanogr.*, **78**(3), 193–221. (10.1016/j.pocean.2008.06.001.)
- Hunt, B.P.V., E.A. Pakhomov, G.W. Hosie, V. Siegel, P. Ward and K. Bernard. 2008a. Pteropods in Southern Ocean ecosystems. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S1.8/P31, 251.

- Hunt, B.P.V., E.A. Pakhomov, V. Siegel and U. Bathmann. 2008b. Seasonal inertia of macrozooplankton communities in the Lazarev Sea. *In* Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume.* Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S1.9/O15, 276–277.
- Hunt, B.P.V., L.J. Gurney and E.A. Pakhomov. 2008c. Time-series analysis of hydrological and biological variability on the Prince Edward Island (Southern Ocean) shelf. *Polar Biol.*, **31**(8), 893–904. (10.1007/s00300-008-0427-y.)
- Hunt, B.P.V., E.A. Pakhomov and R.H. Williams. 2010a. Composition and distribution of macrozooplankton in the vicinity of Kerguelen and Heard Islands: oceanography forcing and ecological zonation. *The Kerguelen Plateau: marine ecosystem and fisheries. 1st International Science Symposium on the Kerguelen Plateau, 14–16 April 2010, Concarneau, France. Programme and abstracts* Concarneau, France, Muséum National d'Histoire Naturelle (MNHN). Station de Biologie Marine, 15. (<http://concarneau.mnhn.fr/sites/concarneau.mnhn.fr/files/upload/abstract.pdf>.)
- Hunt, B. and 9 others (including R.J. Nelson, E. Pakhomov and D. Steinke). 2010b. Poles apart: The "bipolar" pteropod species *Limacina helicina* is genetically distinct between the Arctic and Antarctic Oceans. *PLoS ONE*, **5**(3), e9835. (10.1371/journal.pone.0009835.)
- Hunt, B.P.V. and 10 others (including E.A. Pakhomov). 2010c. The summer, autumn and winter distribution of macrozooplankton and micronekton between the surface and deep mesopelagic layers of the Lazarev Sea (Antarctica): seasonal cycles and implications for ecosystem functioning. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina.* Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 361, CD-ROM.
- Hunt, B.P.V., E.A. Pakhomov and R. Williams. 2011a. Comparative analysis of 1980's and 2004 macrozooplankton composition and distribution in the vicinity of Kerguelen and Heard Islands: seasonal cycles and oceanographic forcing of long-term change. *In* Duhamel, G. and D. Welsford, eds. *The Kerguelen Plateau: marine ecosystem and fisheries.* Paris, Société Française d'Ichtyologie, 79–92.
- Hunt, B.P.V., E.A. Pakhomov, V. Siegel, B. Cisewski and U. Bathmann. 2011b. The seasonal cycle of the Lazarev Sea macrozooplankton community and a potential shift to top-down trophic control in winter. *Deep-Sea Res. II*, **58**(13–16), 1662–1676. (10.1016/j.dsr2.2010.11.016.)
- Hunt, B.P.V., S. Kruse, E.A. Pakhomov and M. Pinkerton. 2012. Isotope ratios of plankton size spectra as a tool for investigating trophic dynamics. *The 8th International Conference on Applications of Stable Isotope Techniques to Ecological Studies, 20–24 August 2012, Brest, France. Program and abstracts.* Brest, France, Institut français de recherche pour l'exploitation de la mer, 73. (www.e-mergence.fr/isoecol2012/doc/Program_ISOECOL_V2.pdf (2012).)
- Huntley, D.J. and A.G. Wintle. 1979. Th-230 dating of an ocean sediment using α -scintillation counting. *Deep-Sea Res. A*, **26**(8), 975–980. (10.1016/0198-0149(79)90111-0.)
- Huot, Y., W.H. Jeffrey, R.F. Davis and J.J. Cullen. 2000. Damage to DNA in bacterioplankton: a model of damage by ultraviolet radiation and its repair as influenced by vertical mixing. *Photochem. Photobiol.*, **72**(1), 62–74. (10.1562/0031-8655(2000)0720062DTDIBA2.0.CO2.)
- Hurdle, C. 2011. Books in Review. Tropes of time and place. Matt Robinson, Against the Hard Angle. Soraya Peerbaye, Poems for the Advisory Committee on Antarctic Names. Lisa Robertson, R's Boat. Zachariah Wells, Track & Trace. *Can. Lit.*, **208**, 187–189. (<http://tinyurl.com/o9sbnzw>.)
- Hurford, W.E. and 7 others (including P.W. Hochachka). 1993. Splenic contraction, blood volume, and muscle saturation of free-diving Weddell seals. *Antarct. J. U.S.*, **28**(5), 1993 Review, 152–155. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXXVIIIIn5/AJUSvXXVIIIIn5p152.pdf>.)
- Hutchison, D. 1998. Computation of continental plate rotations based on global position system measurements. [Abstract G71A-04.] *Eos, Trans. AGU*, **79**(45), Fall Meet. Suppl., F181.

- Hutchison, D.A. 2004. Estimates of continental plate motions derived from continuous GPS measurements of station coordinates and velocities, 1996–2004. [Abstract G21B-01.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA116. (www.agu.org/meetings/sm04/waissm04.html.)
- Hutchison, D.A., R. Ferland, P. Tetreault and C. Huot. 1999. Computation of continental plate rotations based on global positioning system measurements and international terrestrial reference frames. [Abstract G51C-01.] *Eos, Trans. AGU*, **80**(46), Fall Meet. Suppl., F270. (www.agu.org/meetings/fm00/waisfm00.html.)
- Hutchison, D., R. Ferland, P. Tetreault and C. Huot. 2000. Continental plate rotations derived from International GPS Service station coordinates and velocities, 1996–2000. [Abstract G11C-04.] *Eos, Trans. AGU*, **81**(48), Fall Meet. Suppl., 332. (www.agu.org/meetings/fm00/waisfm00.html.)
- Ibarguchi, G., P. Convey and V.L. Friesen. 2012. Out of Antarctica, into the cold: overlooked diversification of alpine, polar, and temperate lineages around the world. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_11.pdf.)
- IceCube Collaboration (includes D. Grant, S.C. Nowicki and T.R. Wood). 2012. An absence of neutrinos associated with cosmic-ray acceleration in γ -ray bursts. *Nature*, **484**(7394), 351–354. (10.1038/nature11068.)
- Immen, W. 1993. All at sea in the Antarctic Over-expectations on a tight ship make some passengers wonder if their adventure is really a bargain. *Globe & Mail [Toronto]*, 6 February, F.5.
- Ingle, S., D. Weis, S. Doucet and N. Mattielli. 2003a. Hf isotope constraints on mantle sources and shallow-level contaminants during Kerguelen hot spot activity since ~120 Ma. *Geochem. Geophys. Geosyst. G³*, **4**(8), 1068. (10.1029/2002GC000482.)
- Ingle, S., D. Weis, S. Doucet and N. Mattielli. 2003b. Kerguelen hotspot since 130 Ma: the view from Hf isotopes. [Abstract.] *Geochim. Cosmochim. Acta*, **67**(18), Supplement, Goldschmidt Conference 2003, A172. (<http://goldschmidt.info/2003/Abstracts.pdf>.)
- Inokuchi, H. and F. Heider. 1992a. Chapter 16. Magnetostratigraphy of sediments from sites 748 and 750, Leg 120. In Wise, S.W., Jr and 28 others (including F. Heider and J.H. Sevigny), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, 247–252. (10.2973/odp.proc.sr.120.191.1992.)
- Inokuchi, H. and F. Heider. 1992b. Chapter 7. Paleolatitude of the southern Kerguelen Plateau inferred from the paleomagnetic study of Late Cretaceous basalts. In Wise, S.W., Jr and 28 others (including F. Heider and J.H. Sevigny), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, 89–96. (10.2973/odp.proc.sr.120.129.1992.)
- International Arctic Science Committee (IASC) and Scientific Committee on Antarctic Research (SCAR). 2008. *Report of 1st meeting of the SCAR/IASC Bipolar Action Group (BipAG), 8 July 2008, St Petersburg, Russia*. Potsdam, International Arctic Science Committee (IASC) and Scientific Committee on Antarctic Research (SCAR). Joint Bipolar Action Group. (SCAR Working Paper 21 (ii).) (W.H. Pollard is the Canadian member of BipAG.) (<http://tinyurl.com/nkjxgle>.)
- International Arctic Science Committee (IASC) and Scientific Committee on Antarctic Research (SCAR). 2009. *Report of 2nd meeting of the SCAR/IASC Bipolar Action Group (BipAG), 1200 October 15 to 1600 October 16, 2009, Norwegian Research Council, Stensberggata 26, Oslo, Norway*. Potsdam, International Arctic Science Committee; Cambridge, U.K., Scientific Committee on Antarctic Research. (W.H. Pollard is the Canadian member of BipAG.) (<http://iasc.arcticportal.org/files/BipAG%20Report%20Final.pdf>.)

- International Arctic Science Committee (IASC) and Scientific Committee on Antarctic Research (SCAR). 2011. *Report of IASC/SCAR Bipolar Action Group II meeting, 17th May 2011, Cambridge*. Potsdam, International Arctic Science Committee (IASC) and Scientific Committee on Antarctic Research (SCAR). Second SCAR-IASC Bipolar Action Group (BipAG II). (G.A. Fondahl is the Canadian member of BipAG.) (<http://tinyurl.com/phhku7t>.)
- International Arctic Science Committee (IASC) and Scientific Committee on Antarctic Research (SCAR). 2012. *Report of IASC/SCAR Bipolar Action Group II meeting, 14th May 2012, Potsdam*. Potsdam, International Arctic Science Committee (IASC) and Scientific Committee on Antarctic Research (SCAR). Second SCAR-IASC Bipolar Action Group (BipAG II). (G.A. Fondahl is the Canadian member of BipAG.)
- International Glaciological Society (IGS). 2008. Roy 'Fritz' Koerner 1932–2008. Cambridge, U.K., International Glaciological Society, digital media. (26 May.) (<http://tinyurl.com/pj2a69a>.)
- IPY Space Task Group. 2010. *IPY legacy of satellite radar data in polar regions*. St. Hubert, Que, Canadian Space Agency. (SAR Coordination Group brochure prepared for CSA by D. Ball and D. Werle with contributions from Y. Crevier, G. Rigby and R. Saint-Jean.) (<http://tinyurl.com/7nqc54h>.)
- Irvine-Fynn, T.D.L., A.J. Hodson, B.J. Moorman, G. Vatne and A.L. Hubbard. 2011. Polythermal glacier hydrology: a review. *Rev. Geophys.*, **49**(4), RG4002. (10.1029/2010RG000350.)
- Irving, E. 1983. Fragmentation and assembly of the continents, Mid-Carboniferous to present. *Geophys. Surv.*, **5**(4), 299–333. (10.1007/BF01453985.)
- Irving, E. and G.A. Irving. 1982. Apparent polar wander paths, Carboniferous through Cenozoic and the assembly of Gondwana. *Geophys. Surv.*, **5**(2), 141–188. (10.1007/BF01453983.)
- Iverson, S.J., J.P.Y. Arnould and I.L. Boyd. 1997. Milk fatty acid signatures indicate both major and minor shifts in the diet of lactating Antarctic fur seals. *Can. J. Zool.*, **75**(2), 188–197. (10.1139/z97-026.)
- Ives, J.D. 1967. Glaciers. *Can. Geogr. J.*, **74**(4), 110–117.
- Ivins, E.R. and T.S. James. 1996. Timing and extent of Wurm-Wisconsinan deglaciation and subsequent rebound in Antarctica. [Abstract G11A-12.] *Eos, Trans. AGU*, **77**(46), Fall Meet. Suppl., F133.
- Ivins, E.R. and T.S. James. 2001. Antarctic ice mass change and predictions of crustal seismicity and lithospheric stress. [Abstract T41B-0866.] *Eos, Trans. AGU*, **82**(47), Fall Meet. Suppl., F1196. (www.agu.org/meetings/fm02/waisfm02.html.)
- Ivins, E.R. and T.S. James. 2005a. Antarctic glacial isostatic adjustment: a new assessment. *Antarct. Sci.*, **17**(4), 541–553. (10.1017/S0954102005002968.)
- Ivins, E.R. and T.S. James. 2005b. A new Antarctic glacial history approaching spatial and temporal resolution required for contemporary geodesy. [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., C21B-1095. (www.agu.org/meetings/fm05/waisfm05.html.)
- Ivins, E.R. and T.S. James. 2005c. Southern Hemisphere glacioisostasy: a new assessment *Geophys. Res. Abstr.*, **7**, 2005 EGU Gen. Assem., EGU05-A-09798. (<http://tinyurl.com/qasrt5k>)
- Ivins, E.R. and T.S. James. 2006. GIA and ice sheet altimetry in Antarctica: how well can we quantify the associated error and its spatial dependence. *Geophys. Res. Abstr.*, **8**, 2006 EGU Gen. Assem., EGU06-A-10708.
- Ivins, E.R., C.A. Raymond and T.S. James. 1998. Crustal motion and potential constraints on 40 to 0.4 kyr BP glacial changes in the Antarctic Peninsula. [Abstract G41F-10.] *Eos, Trans. AGU*, **79**(45), Fall Meet. Suppl., F216.
- Ivins, E.R., C.A. Raymond, T.S. James and M.B. Heflin. 1999. Late-Pleistocene and Holocene glacial evolution and isostasy in the Antarctic Peninsula. In Skinner, D.N.B., ed. *8th International Symposium on Antarctic Earth Sciences, Wellington, New Zealand. Programme and abstracts*. Wellington, Royal Society of New Zealand, 154.

- Ivins, E.R., C.A. Raymond and T.S. James. 2000a. The influence of 5000 year-old and younger glacial mass variability on present-day crustal rebound in the Antarctic Peninsula. *EPS, Earth, Planets Space*, **52**(11), 1023–1029. (www.terrapub.co.jp/journals/EPS/abstract/5211/52111023.html.)
- Ivins, E.R., X. Wu and T.S. James. 2000b. Secular PGR Stokes coefficients via ice model improvements, quarter century-long data records and high degree and order field recovery. *Geophys. Res. Abstr.*, **2**, digital media. (www.copernicus.org/EGS/egsga/nice00/programme/abstracts/aai4134.pdf.)
- Ivins, E.R., X. Wu, C.A. Raymond, C.F. Yoder and T.S. James. 2000c. Temporal geoid of a rebounding Antarctica and potential measurement by the GRACE and GOCE satellites. In Sideris, M.G., ed. *Gravity, geoid and geodynamics 2000. GGG2000 IAG International Symposium, Banf, Alberta, Canada, 31 July–4 August, 2000*. Berlin, Federal Republic of Germany, Springer-Verlag, 361–366. (International Association of Geodesy Symposia 123.)
- Ivins, E.R., T.S. James, S. Tsuboi and M. Kanao. 2002a. Gravitational-viscoelastic adjustment to ice sheet change and brittle crustal failure: a link to the magnitude 8.1 March 25, 1998 Antarctic plate earthquake? [Abstract U41A-08.] *Eos, Trans. AGU*, **83**(19), Spring Meet. Suppl., S7. (www.agu.org/meetings/sm02/waissm02.html.)
- Ivins, E.R., C.A. Raymond and T.S. James. 2002b. Late-Pleistocene, Holocene and present-day ice load evolution in the Antarctic Peninsula: models and predicted vertical crustal motion. In Mitrovica, J.X. and B.L.A. Vermeersen, eds. *Ice sheets, sea level and the dynamic Earth*. Washington, DC, American Geophysical Union, 133–155. (Geodynamics Series 29.)
- Ivins, E.R., T.S. James and V. Klemann. 2003a. Glacial isostatic stress shadowing by the Antarctic ice sheet. *J. Geophys. Res.*, **108**(B12), 2560. (10.1029/2002JB002182.)
- Ivins, E.R., E. Rignot, X. Wu, C.A. Raymond, T.S. James and M. Scheinert. 2003b. Mass balance and present-day Antarctic rebound and gravity change. [Abstract.] *Terra Nostra [Bonn]*, **2003-4**, 9th Int. Symp. on Ant. Earth Sci., 164.
- Ivins, E.R., T.S. James and X. Wu. 2004a. Continent-wide glacio-isostasy in Antarctica: a new assessment. *XXVIII SCAR Open Science Conference, 26–28 July 2004, Bremen, Germany. Abstracts*. Cambridge, U.K., Scientific Committee on Antarctic Research, S12/O01. (<http://tinyurl.com/p8sy2qn>.)
- Ivins, E.R., T.S. James and X. Wu. 2004b. Continent-wide glacio-isostasy in Antarctica: current status of modelling. *XXVIII SCAR Open Science Conference, 26–28 July 2004, Bremen, Germany. Abstracts*. Cambridge, U.K., Scientific Committee on Antarctic Research, abstract.
- Ivins, E.R., E. Rignot, X. Wu, T.S. James and G. Casassa. 2005. Ice mass balance and Antarctic gravity change: satellite and terrestrial perspectives. In Reigber, C., H. Lühr, P. Schwintzer and J. Wickert, eds. *Earth observation with CHAMP: results from three years in orbit*. Berlin, Springer-Verlag, 3–12.
- Ivins, E.R., V. Zlotnicki, R.S. Gross, T.S. James and K. Seo. 2006. Analysis of the Enderby Land, East Antarctica anomaly in trend data obtained from GRACE: is it caused by glacial isostasy or snow accumulation? [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., C13B-01. (www.agu.org/meetings/fm06/waisfm06.html.)
- Ivins, E. and 9 others (including T.S. James). 2007. On geodetic inferences of Antarctic lithosphere, mantle viscosity, past ice history and present-day balance. *10th International Symposium on Antarctic Earth Sciences, 26–31 August 2007, Santa Barbara, CA. Abstracts*. Santa Barbara, CA, University of California. Earth Science Department, 5.P1.A-3. (<http://tinyurl.com/o9jfz17>.)
- Ivins, E.R. and 9 others (including T.S. James). 2007. Reduction of GIA errors in GRACE and altimetry-based solutions for interannual ice mass balance for the Earth's ice sheets. *Geophys. Res. Abstr.*, **9**, 2007 EGU Gen. Assem., EGU2007-A-10010. (<http://tinyurl.com/pr8u2ky>.)
- Ivins, E.R., T.S. James and X. Wu. 2009. Long- and short-time scale glacial isostasy of the Antarctic Peninsula and impact on GRACE science. *Geophys. Res. Abstr.*, **11**, 2009 EGU Gen. Assem., EGU2009-11776. (<http://meetingorganizer.copernicus.org/EGU2009/-11776.pdf>.)

- Ivins, E.R., M.M. Watkins, D.-N. Yuan, F. Landerer, R. Dietrich and T.S. James. 2011. Emerging monitoring methods for GRACE-derived ice mass balance in the polar environment: mascons and terrestrial GPS. *Geophysical Sciences for the Future, 37th Annual Scientific Meeting of CGU, Joint Meeting with Canadian Society of Agricultural and Forest Meteorology, 15–18 May 2011, Banff, Alberta. Congress abstracts*. Calgary, Alta, Canadian Geophysical Union, digital media. (http://people.ucalgary.ca/~cguconf/2011webs/Program/CGU-CSAFM_2011_abstracts.pdf.)
- Ivins, E.R. *and 6 others* (including G.A. Milne). 2012. Antarctic glacial isostatic adjustment and ice sheet mass balance using GRACE: a report from the Ice-sheet Mass Balance Exercise (IMBIE). *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, G21A-0876, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Izawa, M.R., P.L. King, R.L. Flemming, R.C. Peterson and P.J. McCausland. 2009a. Mineralogical and spectroscopic investigation of enstatite chondrites by X-ray diffraction and infrared reflectance spectroscopy. [Abstract.] *Eos, Trans. AGU*, **90**(22), Jt. Assem. Suppl., MA11B-06. (www.agu.org/meetings/ja09/waisja09.html.)
- Izawa, M.R.M., R.L. Flemming and N.R. Banerjee. 2009b. Shock stage assessment and petrography of 11 Antarctic enstatite chondrites. *Fortieth Lunar and Planetary Science Conference, 23–27 March 2009, The Woodlands, Texas. Program with abstracts*. Houston, TX, Lunar and Planetary Institute, digital media, 1322. (LPI Contribution No.1468.) (www.lpi.usra.edu/meetings/lpsc2009/pdf/1322.pdf.)
- Izawa, M.R.M., R.L. Flemming, N.R. Banerjee and P.J.A. McCausland. 2011. Micro-X-ray diffraction assessment of shock stage in enstatite chondrites. *Meteor. & Planet. Sci.*, **46**(5), 638–651. (10.1111/j.1945-5100.2011.01180.x.)
- Jaccard, S.L., G.H. Haug, D.M. Sigman, T.F. Pedersen, H.R. Thierstein and U. Röhl. 2005. Glacial/interglacial changes in subarctic North Pacific stratification. *Science*, **308**(5724), 1003–1006. (10.1126/science.1108696.)
- Jaccard, T., R.S. Robinson, D. Ariztegui and K.J. Wilkinson. 2008. Meltwater induced changes in micronutrient availability and productivity in the Southern Ocean during LGM. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., PP41C-1474. (www.agu.org/meetings/fm08/waisfm08.html.)
- Jaccard, S.L., E.D. Galbraith, D.M. Sigman and G.H. Haug. 2010. A pervasive link between Antarctic ice core and subarctic Pacific sediment records over the past 800 kyrs. *Quat. Sci. Rev.*, **29**(1–2), 206–212. (10.1016/j.quascirev.2009.10.007.)
- Jaccard, S. *and 6 others* (including E.D. Galbraith). 2011. Southern Ocean overturning, export production and climate variability over the past 1 Myr. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA*. Washington, DC, American Geophysical Union, PP14B-04, digital media. (<http://sites.agu.org/fallmeeting/scientific-program/>.)
- Jaccard, S.L., E.D. Galbraith, A. Martinez-Garcia and R.F. Anderson. 2012. Sequential dissipation of a poorly-ventilated water mass upon the Last Glacial Termination. [Abstract.] *Mineral. Mag.*, **76**(6), Goldschmidt Abstracts 2012, 1886. (<http://goldschmidtabstracts.info/2012/1886.pdf>.)
- Jacob, U. *and 9 others* (including E.A. Pakhomov). 2006. Towards the trophic structure of the Bouvet Island marine ecosystem. *Polar Biol.*, **29**(2), 106–113. (10.1007/s00300-005-0071-8.)
- Jacobs, S.S., H.E. Huppert, G. Holdsworth and D.J. Drewry. 1981. Thermohaline steps induced by melting of the Erebus Glacier tongue. *J. Geophys. Res.*, **86**(C7), 6547–6555. (10.1029/JC086iC07p06547.)
- Jaffe, A.H. *and 41 others* (the BOOMERanG and MAXIMA Collaborations that include J.R. Bond, C.B. Netterfield, D. Pogosyan and S. Prunet). 2001. Cosmology from MAXIMA-1, BOOMERANG, and COBE DMR cosmic microwave background observations. *Phys. Rev. Lett.*, **86**(16), 3475–3479. (10.1103/PhysRevLett.86.3475.)
- James, T. 2000. Antarctic ice mass change and crustal motion. *CARN Newsl.*, **10**, 5–6. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/10.pdf.)

- James, T. 2007a. Measuring crustal motion in Antarctica: GPS, tectonics, and glacio-isostatic adjustment. *CARN Newsl.*, **24**, 1–7. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/24.pdf)
- James, T. 2007b. Neotectonics. In Riffenburgh, B., ed. *Encyclopedia of the Antarctic, Vol. 2*. New York, NY, Routledge. Taylor and Francis Group, 666–667.
- James, T.S. and E. Ivins. 1994. Land based geodesy and ice-sheet mass changes. [Abstract G42A-11.] *Eos, Trans. AGU*, **75**(16), Spring Meet. Suppl., 115.
- James, T.S. and E.R. Ivins. 1995a. The effect of Antarctic ice mass changes on crustal motion and global geodetic observation. *IUGG XXI General Assembly, 2–14 July 1995, Boulder, Colorado. Abstracts*. Boulder, CO, International Union of Geodesy and Geophysics, B318.
- James, T.S. and E.R. Ivins. 1995b. Present-day Antarctic ice mass changes and crustal motion. *Geophys. Res. Lett.*, **22**(8), 973–976. (10.1029/94GL02800.)
- James, T.S. and E.R. Ivins. 1995c. Twentieth and twenty-first century geodetic measurements for ice sheet monitoring and the importance of a Holocene rebound signal. [Abstract G51A-03.] *Eos, Trans. AGU*, **76**(46), Fall Meet. Suppl., F158.
- James, T.S. and E.R. Ivins. 1996. Secular zonal gravity constraints on sea-level change and ice sheet mass balance. [Abstract G12C-09.] *Eos, Trans. AGU*, **77**(46), Fall Meet. Suppl., F137.
- James, T.S. and E.R. Ivins. 1997. Global geodetic signatures of the Antarctic ice sheet. *J. Geophys. Res.*, **102**(B1), 605–633. (10.1029/96JB02855.)
- James, T.S. and E.R. Ivins. 1998. Predictions of Antarctic crustal motions driven by present-day ice sheet evolution and by isostatic memory of the Last Glacial Maximum. *J. Geophys. Res.*, **103**(B3), 4993–5017. (10.1029/97JB03539.)
- James, T.S. and E.R. Ivins. 2006a. Antarctic glacial history and implications for global sea-level change and ice-mass balance. *Second SCAR Open Science Conference, Antarctica in the Earth System, 12–14 July 2006, Hobart, Tasmania*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 645, digital media. (www.scarcomnap2006.org/abstract/pdf/SCARXXIX_0645.PDF.)
- James, T.S. and E.R. Ivins. 2006b. Crustal motion and gravity change predicted from scenarios of ice mass change in Marie Byrd Land and the eastern Ross Sea. [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., G24A-02. (www.agu.org/meetings/fm06/waisfm06.html.)
- James, T.S., T.H. Jacka, A. Morelli and R. Dietrich, eds. 2004a. Ice sheets and neotectonics. *Global Planet. Change*, **42**(1–4), 326 pp. (10.1016/j.gloplacha.2004.02.002.)
- James, T.S., H. Conway, E.D. Waddington, J. Stone and E.R. Ivins. 2004b. Mid and Late Holocene ice mass change on the Shirase Coast and Roosevelt Island and implications for crustal rebound. *XXVIII SCAR Open Science Conference, 26–28 July 2004, Bremen, Germany. Abstracts*. Cambridge, U.K., Scientific Committee on Antarctic Research, S12/P18.
- James, T.S., H. Conway, E.D. Waddington, J. Stone and E.R. Ivins. 2004c. Mid and late Holocene ice mass change on the Shirase Coast and Roosevelt Island and implications for crustal rebound. [Abstract.] *Terra Nostra [Bonn]*, **2004-4**, XI SCALOP Symp, 303.
- Jantunen, L.M., H. Kylin and T.F. Bidleman. 1998. Air–water gas exchange of hexachlorocyclohexanes and the enantiomeric ratios of α -HCH in the South Atlantic Ocean and Antarctica. *Organohalogen Compounds*, **35**, 347–350.
- Jantunen, L.M., H. Kylin and T.F. Bidleman. 2004. Air–water gas exchange of α -hexachlorocyclohexane enantiomers in the South Atlantic Ocean and Antarctica. *Deep-Sea Res. II*, **51**(22–24), 2661–2672. (10.1016/j.dsr2.2004.02.002.)
- Janussen, D. and H.M. Reiswig. 2009. Hexactinellida (Porifera) from the ANDEEP III Expedition to the Weddell Sea, Antarctica. *Zootaxa*, **2136**, 1–20. (www.mapress.com/zootaxa/2009/f/zt02136p020.pdf.)

- Januszczak, N. 2000. Evolution of the Antarctic glaciated continental margin. M.Sc. thesis, Department of Geology, University of Toronto, Toronto, Ont., ix +141 pp. (<http://tinyurl.com/pc9hr7>.)
- Januszczak, N.N. 2004. Depositional successions on glaciated continental margins: the Cenozoic of Antarctica and the Neoproterozoic of Rodinia. Ph.D. thesis, Department of Geology, University of Toronto, Toronto, Ont., 478 pp. (www.collectionscanada.gc.ca/obj/thesescanada/vol2/001/nq91745.pdf.)
- Januszczak, N.N. and N. Eyles. 2000a. Glaciated continental margin processes and stratigraphy: Cenozoic of Antarctica and Neoproterozoic of Rodania compared. [Abstract OS22A-02.] *Eos, Trans. AGU*, **81**(48), Fall Meet. Suppl., F750. (www.agu.org/meetings/fm00/waisfm00.html.)
- Januszczak, N. and N. Eyles. 2000b. Glaciated continental margin processes and stratigraphy: Cenozoic of Antarctica and Neoproterozoic of Rodinia compared. [Abstract 50662.] *Geol. Soc. Am. Abstr. Prog.*, **32**(7), 2000 Reno Annual Meeting, 305. (<http://rock.geosociety.org/absindex/annual/2000/50662.htm>.)
- Januszczak, N. and N. Eyles. 2001a. Glaciated continental margin processes and stratigraphy; Cenozoic of Antarctica and Neoproterozoic of Rodinia compared. [Abstract.] *Quad. Geofis.*, **16**, 107–108.
- Januszczak, N. and N. Eyles. 2001b. Glaciated continental margin processes and stratigraphy: Cenozoic of Antarctica and Neoproterozoic of Rodinia compared. *GAC-MAC 2001, Launching the Millennium, 27–30 May 2001, St. John's, Newfoundland and Labrador. Abstracts Vol. 26.* digital media. (http://gac.esd.mun.ca/gac_2001/seven/sub_program.asp?sess=98&form=10&abs_no=360.)
- Januszczak, N. and N. Eyles. 2001c. ODP drilling leads to a new model of shelf and slope sedimentation along the Antarctic continental margin. *Geosci. Can.*, **28**(4), 203–210. (<http://tinyurl.com/nbjqbtq>.)
- Jardine, A. 2007. Filmmaker shares lessons of Antarctic voyage: Jean Lemire says changing attitudes will help reduce global warming. *Times & Transcript [Moncton]*, 30 November, A.11.
- Jarman, W.M. and 6 others (including M. Simon and R.J. Norstrom). 1992. Global distribution of tris(4-chlorophenyl)methanol in high tropic level birds and mammals. *ES&T, Environ. Sci. Technol.*, **26**(9), 1770–1774. (10.1021/es00033a009.)
- Jarzen, D.M. and M.E. Dettmann. 1992. Structure and form of Austral Cretaceous Normapolles-like pollen. *Geobios*, **25**(5), 569–583. (10.1016/0016-6995(92)80097-W.)
- Jayachandran, P.T. and 6 others (including P. Prikryl and D.W. Danskin). 2011. GPS phase scintillation caused by conjugate auroras. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA.* Washington, DC, American Geophysical Union, SA51A-1929, digital media. (<http://sites.agu.org/fallmeeting/scientific-program/>.)
- Jeffery, N.W. 2012. The first genome size estimates for six species of krill (Malacostraca, Euphausiidae): large genomes at the north and south poles. *Polar Biol.*, **35**(6), 959–962. (10.1007/s00300-011-1137-4.)
- Jeffries, M.O., R.A. Shaw, A. Danielson, K. Morris and H.R. Krouse. 1993. Isotopic ($\delta^{18}\text{O}$) evidence for the contribution of precipitation to Antarctic sea ice development. *Scientific Meeting of the Canadian Geophysical Union, 9–11 May 1993, Banff, Alberta. Program and Abstracts.* Canadian Geophysical Union, unpaginated, Abstract 135.
- Jeffries, M.O., R.A. Shaw, K. Morris, A.L. Veazey and H.R. Krouse. 1994. Crystal structure, stable isotopes ($\delta^{18}\text{O}$), and development of sea ice in the Ross, Amundsen, and Bellingshausen Seas, Antarctica. *J. Geophys. Res.*, **99**(C1), 985–995. (10.1029/93JC02057.)
- Jeffries, M.O., H.R. Krouse, B. Hurst-Cushing and T. Maksym. 2001. Snow-ice accretion and snow-cover depletion on Antarctic first-year sea-ice floes. *Ann. Glaciol.*, **33**, 51–60. (10.3189/172756401781818266.)
- Jeffries, M.O., K. Morris and C.R. Duguay. 2012. Floating ice: lake ice and river ice. *US Geol. Surv. Prof. Pap.* 1386-A, A381–A414, A415–A424. (<http://pubs.usgs.gov/pp/p1386a/pdf/pp1386a-4-web.pdf>.)
- Jelly, D.H. and C. Collins. 1962. Some observations of polar-cap absorption in the Northern and Southern Hemispheres. *Can. J. Phys.*, **40**(6), 706–718. (10.1139/p62-075.)

- Jenkins, W.J. and W.B. Clarke. 1976. The distribution of ^3He in the western Atlantic Ocean. *Deep-Sea Res. Oceanogr. Abstr.*, **23**(6), 481–494. (10.1016/0011-7471(76)90860-3.)
- Jezek, K.C. and 6 others (including J. Muller). 1996. RADARSAT: the Antarctic Mapping Project. *IGARSS '96, Remote sensing for a sustainable future, 16th International Geoscience and Remote Sensing Symposium, 27–31 May 1996, Lincoln, Nebraska. Proceedings, Vol. 3*. Piscataway, NJ, Institute of Electrical and Electronics Engineers, 1775–1776. (10.1109/IGARSS.1996.516797.)
- Jezek, K.C. and 10 others (including A. Mahmood). 1998. Snapshots of Antarctica from RADARSAT-1. In Stein, T.I., ed. *IGARSS '98, Sensing and managing the environment, 18th International Geoscience and Remote Sensing Symposium, 6–10 July 1998, Seattle, Washington. Proceedings, Vol. 3*. New York, NY, Institute of Electrical and Electronics Engineers, 1428–1430. (10.1109/IGARSS.1998.691474)
- Jia, L., H. Wang, P. Wu and B. Hu. 2010. Effects of glacial isostatic adjustment on the estimate of ice mass balance from GRACE time-varying gravity data over Antarctica. [Abstract.] *Eos, Trans. AGU*, **91**(26), West. Pac. Geophys. Meet. Suppl., G51A-004. (www.agu.org/meetings/wp10/waiswp10.html.)
- Jia Lu-Lu, Wang Han-Sheng, Xiang Long-Wei, P. Wu, Li Fei and Shi Hong-Ling. 2011. [Effects of glacial isostatic adjustment on the estimate of ice mass balance over Antarctica and the uncertainties.]. [*Chin. J. Geophys.*], **54**(6), 1466–1477. [In Chinese with English summary.] (10.3969/j.issn.0001-5733.2011.06.006.)
- Jin, J.-J. and 10 others (K. Semeniuk, A.I. Jonsson, S.R. Beagley, J.C. McConnell, T. Sobieraj, C.D. Boone, K.A. Walker, P.F. Bernath, C.P. Rinsland and D. Murtagh). 2005a. Ozone loss in Arctic and Antarctic winters in 2004 from ACE measurements. *Geophys. Res. Abstr.*, **7**, 2005 EGU Gen. Assem., EGU05-A-05508. (www.cosis.net/abstracts/EGU05/05508/EGU05-J-05508.pdf.)
- Jin, J.-J. and 11 others (K. Semeniuk, A.I. Jonsson, S.R. Beagley, J.C. McConnell, C.D. Boone, K.A. Walker, P.F. Bernath, C.P. Rinsland, E. Dupuy, J. Urban and D. Murtagh). 2005b. Strato-mesospheric CO measurements from ACE-FTS and Odin/SMR and a comparison with CMAM, a middle atmosphere model. *Geophys. Res. Abstr.*, **7**, 2005 EGU Gen. Assem., EGU05-A-05564. (<http://tinyurl.com/oq8wkkf>.)
- Jin, J., K.A. Walker, J.R. Taylor, C.D. Boone, P.F. Bernath and G.L. Manney. 2008. An Introduction to ACE-FTS climatological dataset for the period 2004–2008. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., A51A-0077. (www.agu.org/meetings/fm08/waisfm08.html.)
- Jin, J.J. and 14 others (including K. Semeniuk, S.R. Beagley, V.I. Fomichev, A.I. Jonsson, J.C. McConnell, C.D. Boone, P.F. Bernath, K.A. Walker and E. Dupuy). 2009. Comparison of CMAM simulations of carbon monoxide (CO), nitrous oxide (N₂O), and methane (CH₄) with observations from Odin/SMR, ACE-FTS, and Aura/MLS. *Atmos. Chem. Phys. (ACP)*, **9**(10), 3233–3252. (10.5194/acp-9-3233-2009.)
- John, G.A., N. Lancaster, K. Cupp, W.G. Nickling, J.S. King and J.M. Bryant. 2004. Shear stress partitioning effects on aeolian sediment transport. [Abstract H41B-03.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., digital media. (www.agu.org/meetings/sm04/waissm04.html.)
- Johnson, A., S. Cheeseman and J. Ferris. 1999. Improved compilation of Antarctic Peninsula magnetic data by new interactive grid suturing and blending methods. *Ann. Geof.*, **42**(2), 249–260. (www.annalsofgeophysics.eu/index.php/annals/article/view/3717.)
- Johnson, D.L. and 7 others (including M. Roy). 2012. Argon concentrations of fine-grained marine sediments near Wilkes Land, Antarctica: source characterization and implications for ice sheet behavior during the Middle Miocene. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, PP23C-2066, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Johnson, P.G. 1993. Glacier Mass-Balance Measurements: A Manual for Field and Office Work by G. OSTREM and M. BRUGMAN, NHRI Science Report no 4, National Hydrology Research Institute, Saskatoon, 1991, ix + 224 pp. paper (ISBN 0-0662-19000-9). *Can. Geogr.*, **37**(4), 375–376 (10.1111/j.1541-0064.1993.tb00395.x.)

- Johnson, P.G. 1999. Commentary. Glaciology. In Lewkowicz, A.G., ed. *Poles apart, a study in contrasts. Proceedings of an International Symposium on Arctic and Antarctic Issues, 25–27 September 1997, Ottawa, Ontario, Canada.* Ottawa, Ont., University of Ottawa Press, 99–101.
- Johnson, P. 2004a. Canadian perspectives on the International Polar Year. In Loken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research.* Ottawa, Ont., Canadian Polar Commission, February, 32–33. (<http://tinyurl.com/oqmdpbo>.)
- Johnson, P. 2004b. Relevant Canadian organization and funding models. In Loken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research.* Ottawa, Ont., Canadian Polar Commission, February, 27–29. (<http://tinyurl.com/oqmdpbo>.)
- Johnston, M.E. 1997. Polar tourism regulation strategies: controlling visitors through codes of conduct and legislation. *Polar Rec.*, **33**(184), 13–20. (10.1017/S0032247400014121.)
- Johnston, M.E. 1998. Evaluating the effectiveness of visitor-regulation strategies for Polar tourism. *Polar Rec.*, **34**(188), 25–30. (10.1017/S0032247400014947.)
- Johnston, M.E. and C.M. Hall. 1995. Visitor management and the future of tourism in polar regions. In Hall, C.M. and M.E. Johnston, eds. *Polar tourism. Tourism in the Arctic and Antarctic regions.* Chichester, UK, John Wiley & Sons, 297–313.
- Jones, D.L., M.P. Bates, Z.X. Li, B. Corner and G. Hodgkinson. 2003. Palaeomagnetic results from the ca. 1130 Ma Borgmassivet intrusions in the Ahlmannryggen region of Dronning Maud Land, Antarctica, and tectonic implications. *Tectonophys.*, **375**(1–4), 247–260. (10.1016/S0040-1951(03)00341-X.)
- Jones, E.P. and A.R. Coote. 1981. Oceanic CO₂ produced by the precipitation of CaCO₃ from brines in sea ice. *J. Geophys. Res.*, **86**(C11), 11,041–11,043. (10.1029/JC086iC11p11041.)
- Jones, S.J. and G.P. Johari. 1977. Effect of hydrostatic pressure on bubbles in ice. *IAHS Publ.*, **118**, (Symposium at Grenoble 1975 — *Isotopes and Impurities in Snow and Ice*), 23–28. (<http://tinyurl.com/q5hwkdw>.)
- Jones, S.J. and B.T. Hill. 2001. Structure of sea ice in McMurdo Sound, Antarctica. *Ann. Glaciol.*, **33**, 5–12. (10.3189/172756401781818347.)
- Jones, W.C. and 36 others (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, C. MacTavish, C.B. Netterfield, E. Pascale and D. Pogosyan). 2006. A measurement of the angular power spectrum of the CMB temperature anisotropy from the 2003 flight of BOOMERANG. *Astrophys. J.*, **647**(2), Part 1, 823–832. (10.1086/505559.)
- Jones, W.C. and 36 others (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, C. MacTavish, C.B. Netterfield, E. Pascale and D. Pogosyan). 2006. Observations of the temperature and polarization anisotropies with Boomerang 2003. *New Astron. Rev.*, **50**(11–12), 945–950. (10.1016/j.newar.2006.09.014.)
- Jordan, T.A. and 8 others (including S. Elieff). 2009. Investigating subglacial landscapes and crustal structure of the Gamburtsev Province in East Antarctica with the aid of new airborne gravity data. [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., C43A-0484. (<http://tinyurl.com/lycpkde>.)
- Josey, S. 1997. Mother losing hope for lost son. Satellite hunts sailor missing in Antarctic. *Toronto Star*, 12 January, A.3.
- Joughin, I. and 7 others (including L. Gray and K. Mattar). 1999. Tributaries of West Antarctic ice streams revealed by RADARSAT interferometry. *Science*, **286**(5438), 283–286. (10.1126/science.286.5438.283.)
- Joughin, I. and 6 others (including L. Gray and K. Mattar). 1999. Tributary flow in West Antarctica revealed by RADARSAT interferometry. [Abstract H22G-08.] *Eos, Trans. AGU*, **80**(46), Fall Meet. Suppl., F369. (www.agu.org/meetings/fm99/waisfm99.html.)

- Joughin, I. and 7 others (including L. Gray and K. Mattar). 1999. Tributary flow in West Antarctica revealed by RADARSAT interferometry. *Sixth Annual WAIS Workshop, September 16–18, 1999, Algonkian Meeting Center in Sterling, Virginia, U.S.A. Agenda & abstracts*. Boulder, CO, National Snow and Ice Data Center. West Antarctic Ice Sheet Initiative (WAIS), digital media. (<http://tinyurl.com/qjbzm6b>.)
- Juan, A., ed. 2010. *Sur Polar: arte en Antártida / Polar South: art in Antarctica. Intervención urbana / Urban intervention. Agosto / August 7 – Octubre / October 30, 2010*. Buenos Aires, Dirección Nacional del Antártico. (with contributions from L. Beaulieu and P. Boissonnet.) [In Spanish and English.]
- Jull, A.J.T., D.J. Donahue, T.W. Linick and G.C. Wilson. 1989. Spallogenic ^{14}C in high-altitude rocks and in Antarctic meteorites. *Radiocarbon*, **31**(3), 719–724.
- Jungblut, A.D., C. Lovejoy and W.F. Vincent. 2008. Diversity of Arctic cyanobacteria: implications for microbial biogeography. *3rd International Conference on Polar and Alpine Microbiology, Banff, Alberta, Canada, 11–15 May 2008. Program & abstracts*. Edmonton, Alta., University of Alberta. Department of Biological Sciences, Abstract PB-07, 44. (www.polaralpinemicrobiology.com/PAM_Program.pdf.)
- Jungblut, A.D., C. Lovejoy and W.F. Vincent. 2010. Global distribution of cyanobacterial ecotypes in the cold biosphere. *ISME J.*, **4**(2), 191–202. (10.1038/ismej.2009.113.)
- Jungblut, A.D., W.F. Vincent and C. Lovejoy. 2012. Eukaryotes in Arctic and Antarctic cyanobacterial mats. *FEMS Microbiol. Ecol.*, **82**(2), 416–428. (10.1111/j.1574-6941.2012.01418.x.)
- Justino, F. and W.R. Peltier. 2006. Antarctic Oscillation and its implications for proxy-based reconstructions. *Reconstrucciones regionales de las variaciones climáticas en América del Sur durante el Holoceno tardío / Reconstructing past regional climate variations in South America over the late Holocene*. Bern, Switzerland, PAGES (Past Global Changes), 37. (<http://tinyurl.com/qaqgrzm>.)
- Justino, F. and W.R. Peltier. 2006. Influence of present day and glacial surface conditions on the Antarctic Oscillation/Southern Annular Mode. *Geophys. Res. Lett.*, **33**(22), L22702. (10.1029/2006GL027001.)
- Justino, F. and R. Peltier. 2006. The glacial Arctic and Antarctic oscillations and their implications for proxy-based reconstructions. *31st Joint Annual Meeting, GAC/MAC, Geological Association of Canada and Mineralogical Association of Canada, 14–17 May 2006, Montreal, QC. Abstracts*. digital media. (http://gac.esd.mun.ca/GAC_2006/search_abs/sub_program.asp?sess=98&form=10&abs_no=179.)
- Justino, F. and R. Peltier. 2006. The glacial Arctic and Antarctic Oscillations and their implications for proxy-based reconstructions. *40th CMOS Congress, Weather, Oceans and Climate, Exploring the Connections, 29 May–1 June 2006, Toronto, Ontario. Abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 3C2.5. (www_cmos.ca/CongressAbstracts/cong4006.pdf.)
- Justino, F. and R. Peltier. 2008. Climate anomalies induced by the Arctic and Antarctic oscillations: glacial maximum and present-day perspectives. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S1.5/O27, 150.
- Justino, F. and W.R. Peltier. 2008. Climate anomalies induced by the Arctic and Antarctic oscillations: Glacial Maximum and present-day perspectives. *J. Climate*, **21**(3), 459–475. (10.1175/2007JCLI1703.1.)
- Kabin, K. 2010. Conjugacy between the two hemispheres at high latitudes in the null-separator model of the magnetosphere. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, SM11A-1698, digital media. (www.agu.org/cgi-bin/wais?ss=SM11A-1698.)
- Kaczmarska, I., N.E. Barbrick, J.M. Ehrman and G.P. Cant. 1993. *Eucampia* index as an indicator of the Late Pleistocene oscillations of the winter sea-ice extent at the ODP Leg 119 Site 745B at the Kerguelen Plateau. *Hydrobiologia*, **269–270**, 103–112. (10.1007/BF00028010.)

- Kaehler, S., E.A. Pakhomov, R.M. Kalin and S. Davis. 2006. Trophic importance of kelp-derived suspended particulate matter in a through-flow sub-Antarctic system. *Mar. Ecol. Progr. Ser.*, **316**, 17–22. (10.3354/meps316017.)
- Kaeuffer, R., D.W. Coltman, J.-L. Chapuis, D. Pontier and D. Réale. 2007. Unexpected heterozygosity in an island mouflon population founded by a single pair of individuals. *Proc. R. Soc. London, Ser. B*, **274**(1609), 527–533. (10.1098/rspb.2006.3743.)
- Kaeuffer, R., C. Bonenfant, J.-L. Chapuis and S. Devillard. 2010. Dynamics of an introduced population of mouflon *Ovis aries* on the sub-Antarctic archipelago of Kerguelen. *Ecography*, **33**(3), 435–442. (10.1111/j.1600-0587.2009.05604.x.)
- Kalaugher, L. 2008. Polar warming due to humans. *environmentalresearchweb*, digital media. (Report on work of N.P. Gillett.) (<http://environmentalresearchweb.org/cws/article/news/36526>.)
- Kalaugher, L. 2009. Sea level rise may be higher than estimated. *environmentalresearchweb*, digital media. (Report on work of J. Mitrovica.) (<http://environmentalresearchweb.org/cws/article/news/37687>.)
- Kamber, B.S., S.K. Marx and H.A. McGowan. 2010. Comment on “Lead isotopic evidence for an Australian source of Aeolian dust to Antarctica at times over the last 170,000 years” by P. De Deckker, M. Norman, I.D. Goodwin, A. Wain and F.X. Gingele [*Palaeogeography, Palaeoclimatology, Palaeoecology* 285 (2010) 205–223]. *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, **298**(3–4), 432–436. (<http://tinyurl.com/qahzddg>.)
- Kaminski, J.W. 1994. Study of stratospheric chemistry using a three-dimensional global chemical transport model. Ph.D. thesis, York University, North York, Ont.
- Kanasewich, E.R., J. Havskov and M.E. Evans. 1978. Plate tectonics in the Phanerozoic. *Can. J. Earth Sci.*, **15**(6), 919–955. (10.1139/e78-102.)
- Kanatous, S.B. *and 6 others* (including T.J. Hawke). 2008. The ontogeny of aerobic and diving capacity in the skeletal muscles of Weddell seals. *J. Exp. Biol.*, **211**(16), 2559–2565. (10.1242/jeb.018119.)
- Kanda, H., P. Convey, T. Naganuma, W. Vincent and A. Willemotte, *eds*. 2009. Microbiological and ecological responses to global environmental changes in polar regions (MERGE). *Polar Sci.*, **3**(3), Special Issue, 139–212.
- Kanfoush, S.L., D.A. Hodell, C.D. Charles, T.R. Janecek and F.R. Rack. 2000. Comparison of ice-rafted debris and physical properties in ODP site 1094 (South Atlantic) with the Vostok ice core over the last three climatic cycles. [Abstract OS12F-05.] *Eos, Trans. AGU*, **81**(48), Fall Meet. Suppl., F729. (www.agu.org/meetings/fm00/waisfm00.html.)
- Kang, S.M., L.M. Polvani, J.C. Fyfe and M. Sigmond. 2011. Impact of polar ozone depletion on subtropical precipitation. *Science*, **332**(6032), 951–954. (10.1126/science.1202131.)
- Kargel, J.S. *and 16 others* (including A. Bush and H. Jiskoot). 2005. Multispectral imaging contributions to global land ice measurements from space. *Rem. Sens. Environ.*, **99**(1–2), 187–219. (10.1016/j.rse.2005.07.004.)
- Kärkäs, E., H.B. Granberg, K. Kanto, K. Rasmus, C. Lavoie and M. Leppäranta. 2002. Physical properties of the seasonal snow cover in Dronning Maud Land, East Antarctica. *Ann. Glaciol.*, **34**, 89–94. (10.3189/172756402781817554.)
- Karl, D.M., D.F. Bird, K. Björkman, T. Houlihan, R. Shackelford and L. Tupas. 1999. Microorganisms in the accreted ice of Lake Vostok, Antarctica. *Science*, **286**(5447), 2144–2147. (<http://tinyurl.com/p2v7pcb>.)
- Karlsson, B. *and 8 others* (including T.G. Shepherd). 2011. On the seasonal onset of polar mesospheric clouds and the breakdown of the stratospheric polar vortex in the Southern Hemisphere. *J. Geophys. Res.*, **116**(D18), D18107. (10.1029/2011JD015989.)
- Karpechko, A.Y. and N.P. Gillett. 2009. Simulations of future Southern Hemisphere climate under a range of ozone recovery scenarios. *Geophys. Res. Abstr.*, **11**, 2009 EGU Gen. Assem., EGU2009-12870. (<http://meetingorganizer.copernicus.org/EGU2009/-12870.pdf>.)

- Karpechko, A.Y., N.P. Gillett, L.J. Gray and M. Dall'Amico. 2010a. Influence of ozone recovery and greenhouse gas increases on Southern Hemisphere circulation. *J. Geophys. Res.*, **115**(D22), D22117. (10.1029/2010JD014423.)
- Karpechko, A.Y., N.P. Gillett, L.J. Gray and M. Dall'Amico. 2010b. Influence of ozone recovery and greenhouse gas increases on Southern Hemisphere circulation. [Abstract.] *Eos, Trans. AGU*, **91**(26), Meet. Americas Suppl., A42A-02. (www.agu.org/meetings/ja10/program/abstract-database.php?sel=1.)
- Karpechko, A.Yu., N.P. Gillett, B. Hassler, K.H. Rosenlof and E. Rozanov. 2010c. Quantitative assessment of Southern Hemisphere ozone in chemistry–climate model simulations. *Atmos. Chem. Phys. (ACP)*, **10**(3), 1385–1400. (10.5194/acp-10-1385-2010.)
- Karpechko, A.Yu., N.P. Gillett, M. dall'Amico and L.J. Gray. 2010d. Southern Hemisphere atmospheric circulation response to the El Chichón and Pinatubo eruptions in coupled climate models. *Q. J. R. Meteorol. Soc.*, **136**(652), Part A, 1813–1822. (10.1002/qj.683.)
- Karpechko, A., N. Gillett, M. dall'Amico and L. Gray. 2010e. The Southern Hemisphere atmospheric circulation response to volcanic eruptions in coupled climate models. *Geophys. Res. Abstr.*, **12**, 2010 EGU Gen. Assem., EGU2010-3110. (<http://tinyurl.com/qfyakub>.)
- Karpechko, A., N. Gillett and L. Gray. 2010f. Southern Hemisphere circulation in an era of ozone recovery. *Geophys. Res. Abstr.*, **12**, 2010 EGU Gen. Assem., EGU2010-3135. (<http://tinyurl.com/o2vqefy>.)
- Karpouzi, V.S., R. Watson and D. Pauly. 2007. Modelling and mapping resource overlap between seabirds and fisheries on a global scale: a preliminary assessment. *Mar. Ecol. Progr. Ser.*, **343**, 87–99. (10.3354/meps06860.)
- Karsten, R. 2003. The role of eddy fluxes in the dynamics of the Antarctic Circumpolar Current. *14th Conference on Atmospheric and Oceanic Fluid Dynamics, 9–13 June 2003, San Antonio, TX*. Boston, MA, American Meteorological Society, abstract, 191–192. (<http://tinyurl.com/qhutk6h>.)
- Karsten, R. 2004. The nonlinear dynamics of Antarctic Intermediate Water formation. [Abstract NG12A-01.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA265–JA266. (<http://tinyurl.com/jwsyt5>.)
- Karsten, R.H. and J. Marshall. 2002a. Constructing the residual circulation of the Antarctic Circumpolar Current from observations. *J. Phys. Oceanogr.*, **32**(12), 3315–3327. (<http://tinyurl.com/n3a4lsh>.)
- Karsten, R.H. and J. Marshall. 2002b. Testing theories of the vertical stratification of the Antarctic Circumpolar Current against observations. *Dyn. Atmos. Oceans*, **36**(1–3), 233–246. (<http://tinyurl.com/nbrm7z5>.)
- Karsten, R., H. Jones and J. Marshall. 2002. The role of eddy transfer in setting the stratification and transport of a circumpolar current. *J. Phys. Oceanogr.*, **32**(1), 39–54. (<http://tinyurl.com/kypm56r>.)
- Karsten, R., P. Barker and H. Freeland. 2004. Argo float observation of Antarctic intermediate water formation. [Abstract OS42A-03.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA302. (www.agu.org/meetings/sm04/waissm04.html.)
- Karsten, R., P. Barker and H. Freeland. 2006a. Changes in the Southern Ocean as observed by Argo floats. *40th CMOS Congress, Weather, Oceans and Climate, Exploring the Connections, 29 May–1 June 2006, Toronto, Ontario. Abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 3B3.8. (www.cmos.ca/CongressAbstracts/cong4006.pdf.)
- Karsten, R., R. Lukeman and M. Corkum. 2006b. Dynamics of the Antarctic Circumpolar Current in the Pacific. *40th CMOS Congress, Weather, Oceans and Climate, Exploring the Connections, 29 May–1 June 2006, Toronto, Ontario. Abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 1B3.2. (www.cmos.ca/CongressAbstracts/cong4006.pdf.)
- Karsten, R., P. Barker and H. Freeland. 2006c. Observations of Antarctic Intermediate Water Formation in the Pacific. *40th CMOS Congress, Weather, Oceans and Climate, Exploring the Connections, 29 May–1 June 2006, Toronto, Ontario. Abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 3C3.2. (www.cmos.ca/CongressAbstracts/cong4006.pdf.)

- Kaschner, K., R. Watson, A.W. Trites and D. Pauly. 2006. Mapping world-wide distributions of marine mammal species using a relative environmental suitability (RES) model. *Mar. Ecol. Progr. Ser.*, **316**, 285–310. (10.3354/meps316285.)
- Kaschner, K., D.P. Tittensor, J. Ready, T. Gerrodette and B. Worm. 2011. Current and future patterns of global marine mammal biodiversity. *PLoS ONE*, **6**(5), e19653. (10.1371/journal.pone.0019653.)
- Kaser, G., J.G. Cogley, M.B. Dyurgerov, M.F. Meier and A. Ohmura. 2006. Mass balance of glaciers and ice caps: consensus estimates for 1961–2004. *Geophys. Res. Lett.*, **33**(19), L19501. (10.1029/2006GL027511.)
- Kaser, G. and 8 others (including G. Cogley, V. Radić and M. Sharp). 2011. The contribution from glaciers and ice caps to sea level rise – assessing the present state of the art. *Earth on the Edge: Science for a Sustainable Planet, XXV IUGG General Assembly, 28 June – 7 July 2011, Melbourne, Australia*. Melbourne, Vic., International Union of Geodesy and Geophysics. Monash University School of Geosciences, Abstract 5518, digital media. (<http://tinyurl.com/q8nhxsb>.)
- Kaser, G. and 10 others (including J.G. Cogley, V. Radić and M.J. Sharp). 2011. The contribution from glaciers to sea level rise – assessing the present state of the art. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA*. Washington, DC, American Geophysical Union, G24A-02, digital media. (<http://sites.agu.org/fallmeeting/scientific-program/>.)
- Katsufakis, J.P., R.A. Helliwell and G. James. 1980. Observations of Siple transmitter signals on the ISIS satellites. *Antarct. J. U.S.*, **15**(5), 1980 Review, 212–213. (<http://tinyurl.com/ndjcrpj>.)
- Kattner, G. and 18 others (including D. Deibel). 2007. Perspectives on marine zooplankton lipids. *Can. J. Fish. Aquat. Sci.*, **64**(11), 1628–1639. (10.1139/F07-122.)
- Kaufmann, G., P. Wu and E.R. Ivins. 2005. Lateral viscosity variations beneath Antarctica and their implications on regional rebound motions and seismotectonics. *J. Geodyn.*, **39**(2), 165–181. (10.1016/j.jog.2004.08.009.)
- Kavanaugh, J.L. and K.M. Cuffey. 2009. Dynamics and mass balance of Taylor Glacier, Antarctica: 2. Force balance and longitudinal coupling. *J. Geophys. Res.*, **114**(F4), F04011. (10.1029/2009JF001329.)
- Kavanaugh, J.L., K.M. Cuffey, D.L. Morse, H. Conway and E. Rignot. 2009. Dynamics and mass balance of Taylor Glacier, Antarctica: 1. Geometry and surface velocities. *J. Geophys. Res.*, **114**(F4), F04010. (10.1029/2009JF001309.)
- Kavanaugh, J.L., K.M. Cuffey, D.L. Morse, A.K. Bliss and S.M. Aciego. 2009. Dynamics and mass balance of Taylor Glacier, Antarctica: 3. State of mass balance. *J. Geophys. Res.*, **114**(F4), F04012. (10.1029/2009JF001331.)
- Kawamura, T., M.O. Jeffries, J.-L. Tison and H.R. Krouse. 2004. Superimposed-ice formation in summer on Ross Sea pack-ice floes. *Ann. Glaciol.*, **39**, 563–568. (10.3189/172756404781814168.)
- Kaye, S.B. 1999. International fisheries management: a comparative analysis of legal approaches to management in the context of polar fisheries regimes. J.S.D. thesis, Dalhousie University, Halifax, N.S., xvii + 608 pp. (www.nlc-bnc.ca/obj/s4/f2/dsk1/tape9/PQDD_0020/NQ49269.pdf.)
- Kaye, S. and D.R. Rothwell. 1995. Australia's Antarctic maritime claims and boundaries. *Ocean Dev. & Int. Law*, **26**(3), 195–226. (10.1080/00908329509546060.)
- Keffer, T. and G. Holloway. 1988. Estimating Southern Ocean eddy flux of heat and salt from satellite altimetry. *Nature*, **332**(6165), 624–626. (10.1038/332624a0.)
- Keinonen, A., R. Browne, M.H. Edgecombe, C. Revill and R. Ritch. 1998. *USCGC Polar Star propeller ice load measurements, 1994–1995: trials, analysis and results. Vol. I*. Montréal, Que., April, Transport Canada. Transportation Development Centre. Report prepared by Arctic Consulting Inc Calgary. (TDC Report TP-13268E.)

- Keisler, R. *and 48 others* (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, A. van Engelen and K. Vanderlinde). 2011. A measurement of the damping tail of the cosmic microwave background power spectrum with the South Pole Telescope. *Astrophys. J.*, **743**(1), 28. (10.1088/0004-637X/743/1/28.)
- Keough, P. and R. Keough. 2003. *Antarctica. Limited edition*. Salt Spring Island, B.C., Nahanni Productions.
- Kepner, R.L., R.A. Wharton, Jr and C.A. Suttle. 1998. Viruses in Antarctic lakes. *Limnol. Oceanogr.*, **43**(7), 1754–1761. (10.4319/lo.1998.43.7.1754.)
- Kepner, R., Jr, A. Kortyna, R. Wharton, Jr, P. Doran, D. Andersen and E. Roberts. 2000. Effects of research diving on a stratified Antarctic lake. *Water Res.*, **34**(1), 71–84. (10.1016/S0043-1354(99)00111-6.)
- Kern, S., B. Ozsoy-Cicek, S. Willmes, M. Nicolaus, C. Haas and S. Ackley. 2011. An intercomparison between AMSR-E snow-depth and satellite C- and Ku-band radar backscatter data for Antarctic sea ice. *Ann. Glaciol.*, **52**(57), Part 2, 279–290. (www.igs2010.org/Abstracts/57A115.html.)
- Kernasovskiy, S. *and 43 others* (including M. Amiri, S.J. Benton, B. Burger, G. Davis, M. Halpern, M. Hasselfield, C.B. Netterfield and D.V. Wiebe). 2012. Optimization and sensitivity of the Keck array. In Holland, W.S. and J. Zmuidzinas, eds. *Millimeter, submillimeter, and far-infrared detectors and instrumentation for astronomy VI*. Bellingham, WA, International Society for Optical Engineering, 84521B. (SPIE Proceedings 8452, Part One.) (10.1117/12.926934.)
- Kerr, A. and A. Gilchrist. 1996. Glaciation, erosion and the evolution of the Transantarctic Mountains. *Ann. Glaciol.*, **23**, 303–308.
- Key, J. *and 6 others* (including B. Goodison). 2008. The cryosphere observing system: requirements, gaps, and recommendations. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S4.1/O07, 385.
- Keyuan, Z. 1993. China's Antarctic policy and the Antarctic Treaty system. *Ocean Dev. & Int. Law*, **24**(3), 237–255. (10.1080/00908329309546008.)
- Khan, S., S. Narasimhan and A. Parush. 2004. *Heuristic evaluation of Cybercartographic Atlas of Antarctica prototype*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies, Geomatics and Cartographic Research Centre. (HOTLab Technical Report.)
- Kilian, C. 1980. *Icequake*. Toronto, Ont., Bantam Books.
- Kim, J.W., R.R.B. von Frese, B.Y. Lee, D.R. Roman and S.-J. Doh. 2011. Predictions of bathymetry by the gravity–geologic method. *Pure Appl. Geophys. (PAGEOPH)*, **168**(5), 815–826. (10.1007/s00024-010-0170-5.)
- Kim, M. *and 8 others* (including B. Mayer). 2008. Sulfur and oxygen isotopic composition of sulfate in the fresh water, King Sejong Station, King George Island, Antarctica. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., V13C-2140. (www.agu.org/meetings/fm08/waisfm08.html.)
- Kim, S.-J. and A. Stoessel. 2001. Impact of subgrid-scale convection on global thermohaline properties and circulation. *J. Phys. Oceanogr.*, **31**(3), 656–674. (10.1175/1520-0485(2001)031<0656:IOSSCO>2.0.CO;2.)
- Kim, S.J., G.M. Flato, G.J. Boer and N.A. McFarlane. 2002a. A coupled climate model simulation of the Last Glacial Maximum. *28th Annual Meeting of the Canadian Geophysical Union held jointly with the 2002 Annual Meeting of the Canadian Society of Soil Science, 18–21 May 2002, Banff, Alberta. Program and abstracts*. Calgary, Alta, Canadian Geophysical Union, Abstract, CD-ROM.
- Kim, S.-J., G.M. Flato, G.J. Boer and N.A. McFarlane. 2002b. A coupled climate model simulation of the Last Glacial Maximum. Part 1. Transient multi-decadal response. *Climate Dyn.*, **19**(5–6), 515–537. (10.1007/s00382-002-0243-y.)

- Kim, S.-J., G. Flato and G. Boer. 2003. A coupled climate model simulation of the Last Glacial Maximum. Part 2: Approach to equilibrium. *Climate Dyn.*, **20**(6), 635–661. (10.1007/s00382-002-0292-2.)
- Kim, S.L., K. Conlan, D.P. Malone and C.V. Lewis. 2005. Possible food caching and defence in the Weddell seal: observations from McMurdo Sound, Antarctica. *Antarct. Sci.*, **17**(1), 71–72. (10.1017/S0954102005002452.)
- Kim, S.L., A. Thurber, K. Hammerstrom and K. Conlan. 2007. Seastar response to organic enrichment in an oligotrophic polar habitat. *J. Exp. Mar. Biol. Ecol.*, **346**(1–2), 66–75. (10.1016/j.jembe.2007.03.004.)
- Kim, S., K.K. Hammerstrom, K.E. Conlan and A.R. Thurber. 2010. Polar ecosystem dynamics: recovery of communities from organic enrichment in McMurdo Sound, Antarctica. *Integ. Comparative Biol.*, **50**(6), 1031–1040. (10.1093/icb/icq058.)
- Kimball, B.L., C.A. Nittrouer, C.M. Landowski, M. Koppes and B. Hallet. 2007. 210-Pb study of fjord sedimentation rates in the South Shetland Islands and Antarctic Peninsula. [Abstract.] *Eos, Trans. AGU*, **88**(52), Fall Meet. Suppl., C51B-0390. (www.agu.org/meetings/fm07/waisfm07.html.)
- King, H.G.R. 1976. Obituary. Sir Charles Seymour Wright, KCB, OBE, MC, MA. *Polar Rec.*, **18**(114), 313–315. (10.1017/S0032247400000474.)
- King, L.H. 1993. Till in the marine environment. *JQS, J. Quat. Sci.*, **8**(4), 347–358. (10.1002/jqs.3390080406.)
- King, M. and 6 others (including G. Milne). 2012a. The contribution of the Antarctic ice sheet to present-day sea-level change. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_7.pdf.)
- King, M.A., R.J. Bingham, P. Moore, P.L. Whitehouse, M.J. Bentley and G.A. Milne. 2012b. Lower satellite-gravimetry estimates of Antarctic sea-level contribution. *Nature*, **491**(7425), 586–589. (10.1038/nature11621.)
- Kingsley, M.C.S. and I. Stirling. 1991. Haul-out behaviour of ringed and bearded seals in relation to defence against surface predators. *Can. J. Zool.*, **69**(7), 1857–1861. (10.1139/z91-257.)
- Kirby, V.G., E.J. Stewart and G.D. Steel. 2001. Thinking about Antarctic heritage: kaleidoscopes and filters. *Landscape Res.*, **26**(3), 189–202. (10.1080/01426390124137.)
- Kirschvink, J.L., A.T. Maine and H. Vali. 1997. Paleomagnetic evidence of a low-temperature origin of carbonate in the Martian meteorite ALH84001. *Science*, **275**(5306), 1629–1633. (10.1126/science.275.5306.1629.)
- Kislenko, D. 2001. A night on ice: visit to Antarctic research station features spectacular views, friendly folks. *Hamilton Spectator*, 7 July, T.04.
- Kitamura, T., J.A. Jacobs, T. Watanabe and R.B. Flint, Jr. 1969. An investigation of quasi-periodic VLF emissions. *J. Geophys. Res.*, **74**(24), 5652–5664. (10.1029/JA074i024p05652.)
- Kitchener, J., S. Herrmann and E. Pakhomov. 2010. Salp distribution in the Lazarev Sea, December – January 2007/08. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **604**, 33–37. (<http://epic.awi.de/29172/1/Bat2010a.pdf>.)
- Klassen, J.L. and J.M. Foght. 2008a. Differences in carotenoid composition among *Hymenobacter* and related strains support a tree-like model of carotenoid evolution. *Appl. Environ. Microbiol.*, **74**(7), 2016–2022. (10.1128/AEM.02306-07.)
- Klassen, J.L. and J.M. Foght. 2008b. Novel bacteria related to the genus *Hymenobacter* isolated from Victoria Upper Glacier, Antarctica. *3rd International Conference on Polar and Alpine Microbiology, Banff, Alberta, Canada, 11–15 May 2008. Program & abstracts*. Edmonton, Alta., University of Alberta. Department of Biological Sciences, Abstract PB-10, 45. (<http://tinyurl.com/lvk2qfn>.)

- Klassen, J.L. and J.M. Foght. 2011. Characterization of *Hymenobacter* isolates from Victoria Upper Glacier, Antarctica reveals five new species and substantial non-vertical evolution within this genus. *Extremophiles*, **15**(1), 45–57. (10.1007/S00792-010-0336-1.)
- Klassen, J.L., R. McKay and J.M. Foght. 2009. 2'-methyl and 1'-xylosyl derivatives of 2'-hydroxyflexixanthin are major carotenoids of *Hymenobacter* species. *Tetrahedron Lett.*, **50**(22), 2656–2660. (10.1016/j.tetlet.2009.03.117.)
- Klein, B. and C. Riaux-Gobin. 1991. Algal pigment diversity in coastal sediments from Kerguelen (subantarctic Islands) reflecting local dominance of green algae, euglenoids and diatoms. *Polar Biol.*, **11**(7), 439–448. (10.1007/BF00233079.)
- Klein, R.A. 2010. Chapter 5. Cruises and bruises: safety, security and social issues on polar cruises. In Lück, M., P.T. Maher and E.J. Stewart, eds. *Cruise tourism in polar regions: promoting environmental and social sustainability?* London, Earthscan Publications, 57–74.
- Klekociuk, A.R. and 8 others (including P.G. Brown and W.N. Edwards). 2005. Meteoritic dust from the atmospheric disintegration of a large meteoroid. *Nature*, **436**(7054), 1132–1135. (10.1038/nature03881.)
- Klekociuk, A.R. and 8 others (including P.G. Brown and W.N. Edwards). 2006. Lidar, satellite and acoustic measurements of a multi-kiloton asteroidal airburst over Antarctica on September 4, 2004. [Abstract.] *J. R. Astron. Soc. Can.*, **100**(1), 14th Annual MIAC meeting, 29. (<http://tinyurl.com/oa6m3e2>.)
- Klemeš, V. 2002. Geophysical time series and climatic change: a skeptic's view. In Bolgov, M.V., L. Gottschalk, I. Krasovskaia and R.J. Moore, eds. *Hydrological models for environmental management, Vol. 79*. Dordrecht, etc., Kluwer Academic Publishers, 109–128. (NATO Science Series 2: Environmental Security.)
- Klingenberg, C.P. and W. Ekau. 1996. A combined morphometric and phylogenetic analysis of an ecomorphological trend: pelagization in Antarctic fishes (Perciformes: Nototheniidae). *Biol. J. Linn. Soc.*, **59**(2), 143–177. (10.1111/j.1095-8312.1996.tb01459.x.)
- Knox, J. 2002. What really tough guys are made of: cool! Victoria's links with Antarctic glory. *Times Colonist [Victoria]*, 4 March, A.1.
- Knutti, R., T.F. Stocker and D.G. Wright. 2000. The effects of subgrid-scale parameterizations in a zonally averaged ocean model. *J. Phys. Oceanogr.*, **30**(11), 2738–2752. (<http://tinyurl.com/nd672ka>.)
- Kobalenko, J. 2012. Obituaries. Geoffrey Hattersley-Smith (1923–2012). *Arctic*, **65**(4), 488–491.
- Koch, J. and J.J. Clague. 2012. Forcing of global glacier fluctuations by sunspot activity during the Holocene. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, C23D-0674, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Koerner, R.M. 1990. Ice cores. In Mungall, C. and D.J. McLaren, eds. *Planet under Stress: the Challenge of Global Change*. Toronto, Ont., Oxford University Press, 112–114.
- Koerner, R. 2004. Physical sciences. In Loken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research*. Ottawa, Ont., Canadian Polar Commission, February, 35–37. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/Polar%20Connections.pdf.)
- Koerner, R.M. and D.A. Fisher. 1990. Climatic warming, glaciers and sea level. [Abstract] *Ann. Glaciol.*, **14**, 343.
- Kolotenko, I.R., A.A. Mardon and J.A. Greenspon. 2006. The potential of a Chinese Antarctic Meteorite Recovery Program. *Thirty-seventh Lunar and Planetary Science Conference, 13–17 March 2006, Houston, TX. Abstracts*. Houston, TX, Lunar and Planetary Institute, Abstract 1532, CD-ROM. (LPI Contribution No.1303.) (www.lpi.usra.edu/meetings/lpsc2006/pdf/1532.pdf.)
- Kolotenko, I.R., A.A. Mardon and J.A. Greenspon. 2006. Recovery of meteorites from Martian polar ice standing surfaces. *Fourth International Conference on Mars Polar Science and Exploration, 2–6 October 2006, Davos, Switzerland. Abstracts*. Houston, TX, Lunar and Planetary Institute, digital media (Abstract 8001). (LPI Contribution No.1323.) (www.lpi.usra.edu/meetings/polar2006/pdf/download/alpha_1-o.pdf.)

- Konar, B. and 10 others (including G. Pohle). 2010. Chapter 2. Surveying nearshore biodiversity. In McIntyre, A.D., ed. *Life in the world's oceans: diversity, distribution, and abundance, Second edition*. Chichester, etc., Wiley-Blackwell, 25–42. (10.1002/9781444325508.ch2.)
- Konfal, S.A., T. Wilson and T. James. 2007. Paleoshoreline record of crustal uplift in the Dry Valleys region, Antarctica: a pilot study using ALS digital elevation data. [Abstract.] *Eos, Trans. AGU*, **88**(52), Fall Meet. Suppl., G51C-0634. (www.agu.org/meetings/fm07/waisfm07.html.)
- Konik, R.M., L.J. Lanzerotti, A. Wolfe, C.G. MacLennan and D. Venkatesan. 1994. Cusp latitude magnetic impulse events. 2. Interplanetary magnetic field and solar wind conditions. *J. Geophys. Res.*, **99**(A8), 14,831–14,853. (10.1029/93JA03241.)
- Kooyman, G.L., D.B. Siniff, I. Stirling and J.L. Bengtson. 2004. Moulting habitat, pre- and post-moulting diet and post-moulting travel of Ross Sea emperor penguins. *Mar. Ecol. Progr. Ser.*, **267**, 281–290. (10.3354/meps267281.)
- Köpke, L. and for the IceCube Collaboration. 2011. Supernova neutrino detection with IceCube. *J. Phys. Conf. Ser.*, **309**, 012029. (the IceCube Collaboration (that includes D. Grant.) (<http://tinyurl.com/phntekh>.)
- Koppes, M.N. 2008. Modern sediment yields from tidewater glaciers; coupling climate and erosion. [Paper 181-9.] *Geol. Soc. Am. Abstr. Prog.*, **40**(6), 2008 Houston Joint Annual Meeting, 226. (http://gsa.confex.com/gsa/2008AM/finalprogram/abstract_150231.htm.)
- Koppes, M.N. 2012a. Climate-driven variability of glacier erosion and its impact on mountain evolution. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, EP51F-06, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Koppes, M. 2012b. Do contemporary glacial erosion rates represent Quaternary landscape evolution? [Abstract.] *Quat. Int.*, **279–280**, XVIII INQUA Congress, 252. (10.1016/j.quaint.2012.08.605.)
- Koppes, M.N. and B. Hallet. 2010. Glacier erosional response to transient climate. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, EP52A-03, digital media. (www.agu.org/cgi-bin/wais?ss=EP52A-03.)
- Koppes, M., B. Hallet, E. Rignot and M. Jaffrey. 2007. Recent measurements of ice flux from outlet glaciers of the South Shetlands and Antarctic Peninsula. [Abstract.] *Eos, Trans. AGU*, **88**(52), Fall Meet. Suppl., C51B-0391. (www.agu.org/meetings/fm07/waisfm07.html.)
- Koppes, M., B. Kimball, B. Hallet, C. Nittrouer, J. Anderson and J.S. Wellner. 2010. Wearing down the spine: modern ice fluxes and sediment delivery from the outlet glaciers of the western Antarctic Peninsula. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382899, digital media. (www.ipy-osc.no/abstract/382899.)
- Korczak-Abshire, M., M. Węgrzyn and P.J. Angiel. 2012. An analysis of the distribution and population size of penguin species on Lions Rump based on the GIS system. *XXXIV Polar Symposium, 14–16 June 2012, Sosnowiec, Poland*. Warsaw, Polish Academy of Sciences. Institute of Geophysics, presentation.
- Kosch, M. and 7 others (including R.A. Fiori). 2009. First E-region observations of meso-scale neutral wind interaction with auroral arcs. [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., SA23A-1458. (www.agu.org/meetings/fm09/waisfm09.html.)
- Koulis, T., M.E. Thompson and E. LeDrew. 2009. A spatio-temporal model for Antarctic sea ice formation. *Environmetrics*, **20**(1), 68–85. (10.1002/env.912.)
- Koustov, A.V. and 8 others (including R.A. Makarevich and D. André). 2000. Nearly simultaneous radar observations 3-m and 12-m irregularities in the auroral E-region. [Abstract SM52A-33.] *Eos, Trans. AGU*, **81**(48), Fall Meet. Suppl., F1011. (www.agu.org/meetings/fm00/waisfm00.html.)
- Koustov, A.V. and 6 others (including D. André). 2001. Observations of 50- and 12-MHz auroral coherent echoes at the Antarctic Syowa station. *J. Geophys. Res.*, **106**(A7), 12,875–12,887. (<http://tinyurl.com/oqvw516>.)

- Koustov, A.V., G.J. Sofko, D. Andre, D.W. Danskin and L.V. Benkevitch. 2002. Seasonal variation of F-region echo occurrence in the midnight sector. *Eos, Trans. AGU*, **83**(47), Fall Meet. Suppl., Abstract SM72B-0624. (www.agu.org/meetings/fm02/waisfm02.html.)
- Koustov, A.V., G.J. Sofko, D. André, D.W. Danskin and L.V. Benkevitch. 2004. Seasonal variation of HF radar F region echo occurrence in the midnight sector. *J. Geophys. Res.*, **109**(A6), A06305. (10.1029/2003JA010337.)
- Kovatch, G.T., R.R.B. von Frese and J. Arkani-Hamed. 1987. Regional magnetic anomalies of Antarctica. *XIX General Assembly, International Union of Geodesy and Geophysics, 9–22 August 1987, Vancouver, B.C. Abstracts, Vol. 2*. 695.
- Kovatch, G.T., R.R.B. von Frese and J. Arkani-Hamed. 1989. Regionally correlative geopotential field anomalies of the Antarctic lithosphere. [Abstract.] *Eos, Trans. AGU*, **70**(15), Spring Meet. Suppl., 315.
- Krissek, L.A. and 9 others (and the ANDRILL-MIS Science Team that includes D.R. Schmitt). 2007. Sedimentology and stratigraphy of the ANDRILL McMurdo Ice Shelf (AND-1B) core. In Cooper, A.K., P. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007*. Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (*U.S. Geol. Surv. Open-File Rep.* 2007-1047.) (Extended Abstract 148.) (<http://tinyurl.com/o27vkk9>.)
- Kristoffersen, Y., D.L. Merrill and the Shipboard Scientific Party (that includes C.J. Mwenifumbo and D.C. Nobes). 1988. Chapter 4. Underway geophysics. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 114. Subantarctic South Atlantic*. College Station, TX, Texas A & M University. Ocean Drilling Program, February, 35–84. (10.2973/odp.proc.ir.114.104.1988.)
- Kriwoken, L.K., M. Haward, D. VanderZwaag and B. Davis. 1996. *Oceans law and policy in the post-UNCED era: Australian and Canadian perspectives*. London, Kluwer Law International. (International Environmental Law and Policy Series.)
- Krupnik, I. and 11 others (including C. Dickson, S. Gearheard and P.L. Pulsifer). 2011a. Chapter 5.4. Connecting to new stakeholders in polar research. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 575–592. (CCI Occasional Publication 69.) (<http://tinyurl.com/kkux5dz>.)
- Krupnik, I. and 8 others (including D. Hik), eds. 2011b. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008. (CCI Occasional Publication 69.) (http://library.arcticportal.org/1211/1/IPY_Summary.pdf.)
- Kruse, S., E. Pakhomov, B. Hunt and U. Bathmann. 2012a. Seasonal and latitudinal variability of the food web structure in the Lazarev Sea. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_10.pdf.)
- Kruse, S., E. Pakhomov and B. Hunt. 2012b. Trophic position and interactions between the tunicate *Salpa thompsoni* and the amphipod *Themisto gaudichaudii* in the Southern Ocean: compound-specific nitrogen isotope analysis. *The 8th International Conference on Applications of Stable Isotope Techniques to Ecological Studies, 20–24 August 2012, Brest, France. Program and abstracts*. Brest, France, Institut français de recherche pour l'exploitation de la mer, 165. (<http://tinyurl.com/pef5ser>.)
- Krutzky, S., C. Haas, M. Thoma and P. Lemke. 2008. SAR-Beobachtungen und thermodynamische Modellierung von Meereis-Drift und Eisproduktion in der Larsen Region, Weddellmeer [SAR observations and thermodynamic modeling of sea-ice drift and ice production in the Larsen region, Weddell Sea]. [Abstract.] *Terra Nostra [Bonn]*, **2008-1**, 23. Int. Polartagung, presentation. [In German.]

- Krynauw, J.R., B.R. Watters, D.R. Hunter and A.H. Wilson. 1991. A review of the field relations, petrology and geochemistry of the Borgmassivet intrusions in the Grunehogna Province, western Dronning Maud Land, Antarctica. In Thomson, M.R.A., J.A. Crame and J.W. Thomson, eds. *Geological evolution of Antarctica*. Cambridge, U.K., etc., Cambridge University Press, 33–39. (World and Regional Geology 1.)
- Kshatriya, M. and R.W. Blake. 1988. Theoretical model of migration energetics in the blue whale, *Balaenoptera musculus*. *J. Theor. Biol.*, **133**(4), 479–498. (10.1016/S0022-5193(88)80336-9.)
- Kuhry, P., C. Tarnocai, P. Canadell, A. Jones and T. Schuur. 2008. Soil organic carbon pools in permafrost regions. *33rd International Geological Congress, 6–14 August 2008, Oslo, Norway. Abstracts*. Oslo, Norway, International Geological Congress, Abstract AAA08802L, digital media. (www.cprm.gov.br/33IGC/1315731.html.)
- Kuipers Munneke, P., M.R. van den Broeke, J.T.M. Lenaerts, M.G. Flanner, A.S. Gardner and W.J. van de Berg. 2011. A new albedo parameterization for use in climate models over the Antarctic ice sheet. *J. Geophys. Res.*, **116**(D5), D05114. (10.1029/2010JD015113.)
- Kuivinen, K.C., B.R. Koci, G. Holdsworth and A.J. Gow. 1982. South Pole ice core drilling 1981–1982. *Antarct. J. U.S.*, **17**(5), 1982 Review, 89–91. (<http://tinyurl.com/qxj3ngq>.)
- Kuleshov, Y. and 6 others (including X. Wang and Y. Feng). 2011a. Annual and seasonal atmospheric temperature trends over Antarctica for 2001–2008 derived from GPS radio occultation observations. *Earth on the Edge: Science for a Sustainable Planet, XXV IUGG General Assembly, 28 June – 7 July 2011, Melbourne, Australia*. Melbourne, Vic., International Union of Geodesy and Geophysics. Monash University School of Geosciences, Abstract 2118, digital media. (<http://tinyurl.com/oqrsfts>.)
- Kuleshov, Y., K. Zhang, E. Fu, X. Wang, Y. Feng and F. Zwiers. 2011b. Is the Antarctic atmosphere warming or cooling? *Earth on the Edge: Science for a Sustainable Planet, XXV IUGG General Assembly, 28 June – 7 July 2011, Melbourne, Australia*. Melbourne, Vic., International Union of Geodesy and Geophysics. Monash University School of Geosciences, Abstract 2119, digital media. (<http://tinyurl.com/q644jk2>.)
- Kunze, E., E. Firing, J.M. Hummon, T.K. Chereskin and A.M. Thurnherr. 2006. Global abyssal mixing inferred from lowered ADCP shear and CTD strain profiles. *J. Phys. Oceanogr.*, **36**(8), 1553–1576. (10.1175/JPO2926.1.)
- Kuo, C. and 6 others (including P. Wu). 2008. Antarctic ice sheet mass balance estimate from GRACE. [Abstract.] *Eos, Trans. AGU*, **89**(23), West. Pac. Geophys. Meet. Suppl., G23A-05. (www.agu.org/meetings/wp08/waiswp08.html.)
- Kuo, C.-Y. and 8 others (including A. Braun). 2008. Southern Ocean mass variation studies using GRACE and satellite altimetry. *EPS, Earth, Planets Space*, **60**(5), 477–485. (<http://tinyurl.com/pujhbdu>.)
- Kupsch, W.O. 1984. Book reviews. **A. G. E. Jones**. Antarctica Observed: Who Discovered the Antarctic Continent? Foreword by **L. Harrison Matthews**. 118 pp., illus., app., index. Whitby, York: Caedemon of Whitby, 1982. £7.95. **M. J. Ross**. Ross in the Antarctic: The Voyages of James Clark Ross in Her Majesty's Ships "Erebus" and "Terror," 1839-1843. 276 pp., illus., apps., bibl., index. Whitby, York: Caedemon of Whitby, 1982. £12.50. *Isis*, **75**(4), 739. (www.jstor.org/stable/232437.)
- Kurol, V. 1996a. Canadian involvement in the Antarctic: background information. *Seventh Continent [Montréal]*, **1**, 7.
- Kurol, V. 1996b. Montreal Antarctic Society / Société Antarctique de Montréal. *Seventh Continent [Montréal]*, **1**, 1–2.
- Kurol, V. 1996c. Penguin patter. *Seventh Continent [Montréal]*, **1**, 2, 5–6.
- Kurol, V. 1996d. Quebecers ski to the South Pole. *Seventh Continent [Montréal]*, **1**, 4–5. (Report on trip by Bernard Voyer and Thierry Pétry.)
- Kurol, V., ed. 1996e. *The Seventh Continent: Issue No.1, Spring 1996 Newsletter*. Montréal, Qué., Société Antarctique de Montréal/Montreal Antarctic Society.

- Kurol, V., ed. 1996f. *The Seventh Continent: Issue No.2, Fall 1996 Newsletter*. Montréal, Qué., Société Antarctique de Montréal/Montreal Antarctic Society.
- Kurol, V., ed. 1997a. *The Seventh Continent: Issue No.3, Spring 1997 Newsletter*. Montréal, Qué., Société Antarctique de Montréal/Montreal Antarctic Society.
- Kurol, V., ed. 1997b. *The Seventh Continent: Issue No.4, Fall 1997 Newsletter*. Montréal, Qué., Société Antarctique de Montréal/Montreal Antarctic Society.
- Kurol, V., ed. 1998a. *The Seventh Continent: Issue No.5, Spring 1998 Newsletter*. Montréal, Qué., Société Antarctique de Montréal/Montreal Antarctic Society.
- Kurol, V., ed. 1998b. *The Seventh Continent: Issue No.6, Fall 1998 Newsletter*. Montréal, Qué., Société Antarctique de Montréal/Montreal Antarctic Society.
- Kurol, V., ed. 1999a. *The Seventh Continent: Issue No.7, Spring 1999 Newsletter*. Montréal, Qué., Société Antarctique de Montréal/Montreal Antarctic Society.
- Kurol, V., ed. 1999b. *The Seventh Continent: Issue No.8, Fall 1999 Newsletter*. Montréal, Qué., Société Antarctique de Montréal/Montreal Antarctic Society.
- Kurol, V., ed. 2000a. *The Seventh Continent: Issue No.9, Spring 2000 Newsletter*. Montréal, Qué., Société Antarctique de Montréal/Montreal Antarctic Society.
- Kurol, V., ed. 2000b. *The Seventh Continent: Issue No.10, Winter 2000 Newsletter*. Montréal, Qué., Société Antarctique de Montréal/Montreal Antarctic Society.
- Kurol, V., ed. 2001a. *The Seventh Continent: Issue No.11, Spring 2001 Newsletter*. Montréal, Qué., Société Antarctique de Montréal/Montreal Antarctic Society.
- Kurol, V., ed. 2001b. *The Seventh Continent: Issue No.12, Winter 2001 Newsletter*. Montréal, Qué., Société Antarctique de Montréal/Montreal Antarctic Society.
- Kurol, V., ed. 2003. *The Seventh Continent: Issue No.13, Spring 2001 Newsletter*. Montréal, Qué., Société Antarctique de Montréal/Montreal Antarctic Society.
- Kusakabe, M., T.L. Ku, J. Vogel, J.R. Southon, D.E. Nelson and G. Richards. 1982. ^{10}Be profiles in seawater. *Nature*, **299**(5885), 712–714. (10.1038/299712a0.)
- Kushner, P.J. 2004. The extratropical atmospheric circulation response to climate change in the Southern Hemisphere: an overview. [Abstract.] *Eos, Trans. AGU*, **85**(28), West. Pac. Geophys. Meet. Suppl., OS42A-01. (www.agu.org/meetings/wp04/waiswp04.html.)
- Kushner, P.J. and L.M. Polvani. 2005. A very large, spontaneous stratospheric sudden warming in a simple AGCM: a prototype for the Southern Hemisphere warming of 2002? *J. Atmos. Sci.*, **62**(3), 890–897. (10.1175/JAS-3314.1.)
- Kwon, E.Y., M.P. Hain, D.M. Sigman, E.D. Galbraith, J.L. Sarmiento and J.R. Toggweiler. 2012. North Atlantic ventilation of “southern-sourced” deep water in the glacial ocean. *Paleoceanography*, **27**(2), PA2208. (10.1029/2011PA002211.)
- Kylin, H., L. Jantunen and T. Bidleman. 1998. Air–sea gas exchange and circulation of persistent organic pollutants in the Southern Ocean. *Polarforsk. Secr. Årsb.*, **1998**, 71–73.
- Labrecque, G. 1993. Compte rendu. SUTER, Keith D. Antarctica: Private Property or Public Heritage? London (U.K.) and Leichhardt (Australia), Zed Books Ltd and Pluto Press, 1991, 223 p. *Études Int.*, **24**(4), 907–909. (www.erudit.org/revue/ei/1993/v24/n4/703261ar.pdf.)
- Lacelle, D., W.H. Pollard, D. Andersen, A. Davila and C. McKay. 2010. Origin and stability of ancient massive ground ice bodies in the McMurdo Dry Valleys, Antarctica, under changing climate. *GEO2010: 63rd Canadian Geotechnical Conference & 6th Canadian Permafrost Conference 12–16 September 2010, Calgary, Alberta*. Richmond, B.C., Canadian Geotechnical Society, presentation.

- Lacelle, D. and 6 others (including W.H. Pollard). 2011a. Stability of massive ground ice bodies in University Valley, McMurdo Dry Valleys of Antarctica: using stable O–H isotope as tracers of sublimation in hyper-arid regions. *Earth Planet. Sci. Lett.*, **301**(1–2), 403–411. (10.1016/j.epsl.2010.11.028.)
- Lacelle, D. and 8 others (including D. Fisher and W.H. Pollard). 2011b. Vapor-diffusion origin (condensation–adsorption) in ice-cemented permafrost spanning the last 135.5 ka years in University Valley, Dry Valleys of Antarctica. *Fifth International Conference on Mars Polar Science and Exploration, 12–16 September 2011, Fairbanks, Alaska*. Houston, TX, Lunar and Planetary Institute, Abstract 6083, digital media. (www.lpi.usra.edu/meetings/polar2011/pdf/6083.pdf)
- Lacelle, D. and 10 others (including W. Pollard, L. Whyte and J. Goordial). 2012. Origin, stability and habitability of ice-bearing permafrost in University Valley, McMurdo Dry Valleys, Antarctica: analogue for ground ice on Mars. *CARN Newsl.*, **31**, 17–22. (www.polarcom.gc.ca/principal/sites/default/files/carn-31-english.pdf)
- Laird, M. 1961. A lack of avian and mammalian haematozoa in the Antarctic and Canadian Arctic. *Can. J. Zool.*, **39**(2), 209–213. (10.1139/z61-025.)
- Lakaschus, S., K. Weber, F. Wania, R. Bruhn and O. Schrems. 2002. The air–sea equilibrium and time trend of hexachlorocyclohexanes in the Atlantic Ocean between the Arctic and Antarctica. *ES&T, Environ. Sci. Technol.*, **36**(2), 138–145. (10.1021/es010211j.)
- Lalonde, M. 2007. A voyage inside the mind: biologist Jean Lemire's Antarctic mission, 15 months on a sailboat with 12 other adventurers, was fraught with danger – but the biggest, he says, was the psychological effect of isolation. *Gazette [Montréal]*, 21 May, A.8.
- Lalouette, L., C.M. Williams, M. Cottin, B.J. Sinclair and D. Renault. 2011. Thermal biology of the alien ground beetle *Merizodus soledadinus* introduced to the Kerguelen Islands. *Polar Biol.*, **34**(4), 509–517. (10.1007/s00300-011-1096-9.)
- Lalouette, L., C.M. Williams, M. Cottin, B.J. Sinclair and D. Renault. 2012. Thermal biology of the alien ground beetle *Merizodus soledadinus* introduced to the Kerguelen Islands. *Polar Biol.*, **35**(4), 509–517. (10.1007/s00300-011-1096-9.)
- Lamadeleine, C. 2005. Canada and the Catch Documentation Scheme (CDS). *CARN Newsl.*, **19**, 14. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/19.pdf)
- Lamoureux, S.F. and R. Gilbert. 2004. Physical and chemical properties and proxies of high latitude lake sediments. In Pienitz, R., M.S.V. Douglas and J.P. Smol, eds. *Long-term environmental change in Arctic and Antarctic lakes*. Berlin, etc., Springer-Verlag, 53–87. (Developments in Paleoenvironmental Research 8.) (10.1007/978-1-4020-2126-8_3.)
- Lancaster, N., W.G. Nickling, J.A. Gillies and K. Cupp. 2004. Sand transport by wind on complex rough surfaces: field studies in the McMurdo Dry Valleys, Antarctica. [Abstract.] *Eos, Trans. AGU*, **85**(47), Fall Meet. Suppl., P21B-02. (www.agu.org/meetings/fm04/waisfm04.html.)
- Lancaster, N., W.G. Nickling and J.A. Gillies. 2010. Sand transport by wind on complex surfaces: field studies in the McMurdo Dry Valleys, Antarctica. *J. Geophys. Res.*, **115**(F3), F03027. (10.1029/2009JF001408)
- Landsman, H. and 7 others (the IceCube Collaboration that includes D. Grant, S.C. Nowicki and T.R. Wood). 2012. IceCube's in-ice radio extension: status and results. *Nucl. Instrum. Meth. Phys. Res. A*, **662**, Suppl. 1, S54–S58. (10.1016/j.nima.2010.11.144.)
- Lane, E. 1986a. Nations scramble for a share of Antarctic's wealth. Some studies suggest there are huge oil and mineral resources but it may be too costly to exploit them for decades. *Toronto Star*, 2 February, H.1.
- Lane, E. 1986b. Will research ruin the Antarctic? 'Environment impact' is no small matter. A banana peel lasts 100 years here. *Gazette [Montréal]*, 27 February, F.10.

- Lane, H. and 6 others (including R. Goodwin). 2011. Chapter 4.2. Publishing and archiving IPY. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 497–510. (CCI Occasional Publication 69.) (http://library.arcticportal.org/1211/1/IPY_Summary.pdf.)
- Lane, J.B. 1992. Books in Review. Disengaged. Vivian Darroch-Lozowski, Antarctica Body. Penumbra Press, \$12.95. Donald Hall, Here at Eagle Pond. Ticknor & Fields, \$19.95. Aritha van Herk, Places Far From Ellesmere. Red Deer College Press, \$9.95. Annabel Patterson, Pastoral and Ideology: Virgil to Valéry. Univ. of California Press, \$45.00. *Can. Lit.*, **133**, 152–154. (<http://canlit.ca/site/getPDF/reviews/133>.)
- Lang, O., B.T. Rabus and S.W. Dech. 2004. Velocity map of the Thwaites Glacier catchment, West Antarctica. *J. Glaciol.*, **50**(168), 46–56. (10.3189/172756504781830268.)
- Lange, A.E. and 31 others (the BOOMERanG Collaboration that includes J.R. Bond, D. Pogosyan, S. Prunet and C.B. Netterfield). 2001. Cosmological parameters from the first results of Boomerang. *Phys. Rev. D*, **63**(4), 042001. (10.1103/PhysRevD.63.042001.)
- Langhorne, P. and 7 others (including C. Haas). 2011. Remote detection of the loose platelet layer at the base of a sea ice cover by electromagnetic induction measurements. *Earth on the Edge: Science for a Sustainable Planet, XXV IUGG General Assembly, 28 June – 7 July 2011, Melbourne, Australia*. Melbourne, Vic., International Union of Geodesy and Geophysics. Monash University School of Geosciences, Abstract 2585, digital media. (<http://tinyurl.com/7ttch9n>.)
- Lanoil, B. 2009. Life on the edge: the microbiology of subglacial environments. *59th Annual Conference, Canadian Society of Microbiologists, 15–18 June 2009, Concordia University, Montréal, QC. Program and abstracts*. Montréal, Qué, Concordia University. Department of Biology, 34. (Abstract IS13.) (http://csm2009.concordia.ca/documents/CSM_program_book.pdf.)
- Lanoil, B. and 7 others. 2009. Bacteria beneath the west Antarctic ice sheet. *Environ. Microbiol.*, **11**(3), 609–615. (10.1111/j.1462-2920.2008.01831.x.)
- Lanzerotti, L.J., R.M. Konik, A. Wolfe, D. Venkatesan and C.G. MacLennan. 1991. Cusp latitude magnetic impulse events. 1. Occurrence statistics. *J. Geophys. Res.*, **96**(A8), 14,009–14,022. (10.1029/91JA00567.)
- Lapointe, A. 2012. Le modèle antarctique. Mémoire de maître ès sciences et études internationales, Faculté de droit, Université de Montréal, Montréal, Qué., ix + 100 + viii pp. (<http://tinyurl.com/pmtssa3>.)
- Larson, R.L. and 8 others (including H. Lasthiotakis). 1992. Roller-bearing tectonic evolution of the Juan Fernandez Microplate. *Nature*, **356**(6370), 571–576. (10.1038/356571a0.)
- Larter, R.D. and 10 others (including R. Iuliucci). 1997. The Sandwich Lithospheric and Crustal Experiment (SLICE): initial results of seismic investigations. [Abstract T51D-01.] *Eos, Trans. AGU*, **78**(46), Fall Meet. Suppl., F715.
- Latteck, R. and 6 others (including W.K. Hocking and N. Swarnalingam). 2008. Similarities and differences in polar mesosphere summer echoes observed in the Arctic and Antarctica. *Ann. Geophys. (ANGEO)*, **26**(9), Special Issue, 2795–2806. (10.5194/angeo-26-2795-2008.)
- Latychev, K., J.X. Mitrovica, M.E. Tamisiea, J. Tromp and R. Moucha. 2005. Influence of lithospheric thickness variations on 3-D crustal velocities due to glacial isostatic adjustment. *Geophys. Res. Lett.*, **32**(1), L01304. (10.1029/2004GL021454.)
- Lau, A.S.C., A.A. Mardon and J.A. Greenspon. 2006. The use of geographic remote sensing, mapping and aerial photography to aid the recovery of blue ice surficial meteorites in the Antarctic. *Thirty-seventh Lunar and Planetary Science Conference, 13–17 March 2006, Houston, TX. Abstracts*. Houston, TX, Lunar and Planetary Institute, Abstract 1534, CD-ROM. (LPI Contribution No.1303.) (www.lpi.usra.edu/meetings/lpsc2006/pdf/1534.pdf.)

- Lauriault, T.P. 2002. *Case study proposal. Cybercartographic Atlas of Antarctica. Focus 2: Science.* Vancouver, BC, University of British Columbia. School of Library, Archival & Information Studies, International Research on Permanent Authentic Records in Electronic Systems (InterPARES). (InterPARES 2 Project.) (www.interpares.org/display_file.cfm?doc=ip2_cs06_proposal.pdf.)
- Lauriault, T.P. 2004. *Cybercartographic Atlas of Antarctica IP2. Case study related bibliography, IP2. Restricted Area web site, IP2.* Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies, Geomatics and Cartographic Research Centre.
- Lauriault, T.P. and D.R.F. Taylor. 2002. *Report to InterPares 2, Domain 1, Task Force 2, Working Group 2.1 records creation and maintenance of scientific records supplement to the case study proposal Cybercartographic Atlas of Antarctica.* Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies, Geomatics and Cartographic Research Centre.
- Lauriault, T.P. and D.R.F. Taylor. 2004. *Report Case Study. Cybercartographic Atlas of Antarctica, Vancouver, British Columbia.* Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies, Geomatics and Cartographic Research Centre.
- Lauriault, T. and Y. Hackett. 2004. *Case Study 06, final report: Cybercartographic Atlas of Antarctica.* Vancouver, BC, University of British Columbia. School of Library, Archival & Information Studies, International Research on Permanent Authentic Records in Electronic Systems (InterPARES). (InterPARES 2 Project.) (www.interpares.org/display_file.cfm?doc=ip2_cs06_final_report.pdf; www.interpares.org/display_file.cfm?doc=ip2_cs06_appendices.zip.)
- Lauriault, T.P., B.L. Craig, D.R.F. Taylor and P.L. Pulsifer. 2007. Today's data are part of tomorrow's research: archival issues in the sciences. *Archivaria*, **64**, 123–179. (<http://journals.sfu.ca/archivar/index.php/archivaria/article/view/13156/14404>.)
- Lauriault, T.P., D.R.F. Taylor and P.L. Pulsifer. 2008. Will today's Internet maps be available tomorrow? The preservation and archiving of the Cybercartographic Atlas of Antarctica through participatory action research. In Peterson, M.P., ed. *International perspectives on maps and the internet.* Berlin, etc., Springer-Verlag, 417–436. (Lecture Notes in Geoinformation and Cartography, Part D.) (10.1007/978-3-540-72029-4_26.)
- Lavigne, D.M., S. Innes, G.A.J. Worthy and E.F. Edwards. 1990. Lower critical temperatures of blue whales, *Balaenoptera musculus*. *J. Theor. Biol.*, **144**(2), 249–257. (10.1016/S0022-5193(05)80323-6.)
- Lavoie, J. 2008. Antarctic will serve as a classroom. *Times Colonist [Victoria]*, 27 December, A.3.
- Lawler, A. 1997. Spacecraft offers details of Antarctica. *Science*, **278**(5343), 1562. (Report on Canada's RADARSAT.) (10.1126/science.278.5343.1562a.)
- Lawless, J. 2010. Christie's to sell relics of Scott's ill-fated Antarctic expedition. *Whitehorse Star*, 21 September, 12.
- Lawlor, A. 2000. 'Adventurer' dies in Antarctic: McMurdo Station radar technician was due home in February. *Standard [St Catharines]*, 11 January, A.1.
- Lawrence, K.P. and 6 others (including C. Johnson). 2008. Paleomagnetic field properties at high southern latitude, Erebus Volcanic Province, Antarctica. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., GP11A-0701. (www.agu.org/meetings/fm08/waisfm08.html.)
- Lawrence, K.P. and 6 others (including C.L. Johnson). 2009. Paleomagnetic field properties at high southern latitude. *Geochem. Geophys. Geosyst. G³*, **10**(1), Q01005. (10.1029/2008GC002072.)
- Laybourn-Parry, J. and W.F. Vincent. 2008. Chapter 17. Future directions in polar limnology. In Vincent, W.F. and J. Laybourn-Parry, eds. *Polar lakes and rivers: limnology of Arctic and Antarctic aquatic ecosystems.* Oxford, Oxford University Press, 307–328.
- Le Fèvre, J., L. Legendre and R.B. Rivkin. 1998. Fluxes of biogenic carbon in the Southern Ocean: roles of large microphagous zooplankton. *J. Mar. Syst.*, **17**(1–4), 325–345. (10.1016/S0924-7963(98)00047-5.)

- Lea, M.-A. and L. Dubroca. 2003. Fine-scale linkages between the diving behaviour of Antarctic fur seals and oceanographic features in the southern Indian Ocean. *ICES J. Mar. Sci.*, **60**(5), 990–1002. (10.1016/S1054-3139(03)00101-2.)
- Leake, J. 2001. Outlook bleak for penguins: massive icebergs block Antarctic colonies from feeding, nesting. *Edmonton J.*, A.2.
- LeDrew, E.F. 1992. Polar regions: influence on climate variability and change. In Nierenberg, W.A., ed. *Encyclopaedia of Earth system science, Vol. 3*. San Diego, CA, Academic Press, 647–659.
- Lee, C.I., E. Pakhomov, A. Atkinson and V. Siegel. 2010. Long-term relationships between the marine environment, krill and salps in the Southern Ocean. *J. Mar. Biol.*, **2010**, Article ID 410129. (10.1155/2010/410129.)
- Lee, S.-H. 1987. Book reviews. Antarctic politics and marine resources: critical choices for the 1980s. Proceedings of the Eighth Annual Conference held June 17–20, 1984, Center for Queen Management Studies, University of Rhode Island. Edited by Lewis M. Alexander and Lynne C. Hanson. Kingston, Rhode Island: Center for Ocean Management Studies, University of Rhode Island. 1985. Pp. vi/262, USD 24.95. *J. Marit. Law Commer.*, **18**(3), 468–471.
- Leese, F., A. Kop, J.-W. Wägele and C. Held. 2008. Cryptic speciation in a benthic isopod from Patagonian and Falkland Island waters and the impact of glaciations on its population structure. *Frontiers Zool.*, **5**, paper 19. (10.1186/1742-9994-5-19.)
- Lefrançois, S., P. Doyon-Poulin, L. Gosselin and M. Lacroix. 2008. Optimization of iceberg towing velocity for water supply. *Trans. Can. Soc. Mech. Eng.*, **32**(3–4), 537–548. (www.tcsme.org/Papers/Vol32/Vol32No3-4Paper16.pdf.)
- Leg 113 Shipboard Scientific Party. 1987. Ocean Drilling Program: glacial history of Antarctica. *Nature*, **328**(6126), 115–116. (Shipboard Scientific Party (that includes C.P.G. Pereira and E. Schandl.) (10.1038/328115a0.)
- Leg 114 Shipboard Scientific Party. 1987. Ocean Drilling Program: palaeoceanography of the subantarctic South Atlantic. *Nature*, **328**(6132), 671–672. (Shipboard Scientific Party (that includes J. Mwenifumbo and D. Nobes.) (10.1038/328671a0.)
- Leg 119 Shipboard Scientific Party. 1988. Ocean Drilling Program: early glaciation of Antarctica. *Nature*, **333**(6171), 303–304. (Shipboard Scientific Party (that includes R.E. Cranston and C.J. Schröder.) (10.1038/333303a0.)
- Leg 188 Shipboard Science Party. 2000. Biostratigraphic and paleontological summary of ODP leg 188 drillcores, Prydz Bay, Antarctica. [Abstract OS31A-07.] *Eos, Trans. AGU*, **81**(19), Spring Meet. Suppl., S271–S272. (Shipboard Scientific Party (that includes N.N. Januszczak and B. Taylor.) (www.agu.org/meetings/sm00/waissm00.html.)
- Leg 188 Shipboard Science Party. 2000a. Lithostratigraphy of continental shelf, trough-mouth fan and sediment drift deposits, ODP Leg 188, Prydz Bay, East Antarctica. [Abstract OS31A-17.] *Eos, Trans. AGU*, **81**(19), Spring Meet. Suppl., S273–274. (Shipboard Scientific Party (that includes N.N. Januszczak and B. Taylor.) (www.agu.org/meetings/sm00/waissm00.html.)
- Leg 188 Shipboard Science Party. 2000b. Preliminary downhole logging results from ODP leg 188, Prydz Bay, Antarctica. [Abstract OS31A-06.] *Eos, Trans. AGU*, **81**(19), Spring Meet. Suppl., S271. (Shipboard Scientific Party (that includes N.N. Januszczak and B. Taylor.) (http://tinyurl.com/ogqw8mh.)
- Leg 188 Shipboard Science Party. 2000c. Preliminary geochemical results from ODP leg 188: Prydz Bay, Antarctica. [Abstract OS31A-09.] *Eos, Trans. AGU*, **81**(19), Spring Meet. Suppl., S272. (Shipboard Scientific Party (that includes N.N. Januszczak and B. Taylor.) (http://tinyurl.com/ogqw8mh.)
- Leg 188 Shipboard Science Party. 2000d. Summary of initial results from ODP leg 188 to Prydz Bay, Antarctica. [Abstract OS22A-05.] *Eos, Trans. AGU*, **81**(19), Spring Meet. Suppl., S269. (Shipboard Scientific Party (that includes N.N. Januszczak and B. Taylor.) (http://tinyurl.com/ogqw8mh.)

- Legendre, L. 1996. Special role of very small organisms in sustaining the production of large animals in seasonally ice-covered waters. *11th International Workshop on the Okhotsk Sea and Arctic: the Physics and Biogeochemistry implied to Global Cycles, 29 February–1 March 1996, Tokyo. Proceedings.* Tokyo, Science and Technology Agency. Japan Marine Science and Technology Center, 254–259.
- Legendre, L. and F. Rassoulzadegan. 1995. Plankton and nutrient dynamics in marine waters. *Ophelia*, **41**(1), 153–172. (10.1080/00785236.1995.10422042.)
- Legendre, L. and 9 others. 1992. Ecology of sea ice biota. 2. Global significance. *Polar Biol.*, **12**(3–4), 429–444. (10.1007/BF00243114.)
- Lehrer, E., G. Hönniger and U. Platt. 2004. A one dimensional model study of the mechanism of halogen liberation and vertical transport in the polar troposphere. *Atmos. Chem. Phys. (ACP)*, **4**(11–12), 2427–2440. (10.5194/acp-4-2427-2004.)
- Lemke, P. and 10 others (including G. Flato). 2007. Chapter 4. Observations: changes in snow, ice and frozen ground. In Solomon, S. and 7 others, eds. *Climate change 2007: the physical science basis. Contribution of Working Group I to the Fourth Assessment Report of the IPCC.* Cambridge, U.K., etc., Cambridge University Press. Intergovernmental Panel on Climate Change, 337–383. (www.ipcc.ch/publications_and_data/ar4/wg1/en/ch4.html.)
- Lenaerts, J., M.R. van den Broeke, E. van Meijgaard, W. van de Berg and S.J. Déry. 2010a. Including snowdrift in a regional climate model of Antarctica: preliminary results. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA.* Washington, DC, American Geophysical Union, C33E-0581, digital media. (www.agu.org/cgi-bin/wais?ss=C33E-0581.)
- Lenaerts, J.T.M., M.R. van den Broeke, S.J. Déry, G. König-Langlo, J. Ettema and P. Kuipers Munneke. 2010b. Modelling snowdrift sublimation on an Antarctic ice shelf. *Cryosphere (TC)*, **4**(2), 179–190. (10.5194/tc-4-179-2010.)
- Lenaerts, J.T.M. and 6 others (including S.J. Déry). 2012. Modeling drifting snow in Antarctica with a regional climate model: 1. Methods and model evaluation. *J. Geophys. Res.*, **117**(D5), D05108. (10.1029/2011JD016145.)
- Lenihan, H.S., K.A. Kiest, K.E. Conlan, P.N. Slattey, B.H. Konar and J.S. Oliver. 1995. Patterns of survival and behavior in Antarctic benthic invertebrates exposed to contaminated sediments: field and laboratory bioassay experiments. *J. Exp. Mar. Biol. Ecol.*, **192**(2), 233–255. (10.1016/0022-0981(95)00070-8.)
- Lenihan, H.S. and 7 others (including K. Conlan). 2003. Variation in marine benthic community composition allows discrimination of multiple stressors. *Mar. Ecol. Progr. Ser.*, **261**, 63–73. (10.3354/meps261063.)
- Leonard, K.C., L.-B. Tremblay, D.R. MacAyeal and S.S. Jacobs. 2008. Interactions of wind-transported snow with a rift in the Ross Ice Shelf, Antarctica. *Geophys. Res. Lett.*, **35**(5), L05501. (10.1029/2007GL033005.)
- Leonard, K.C., L.-B. Tremblay, J.E. Thom and D.R. MacAyeal. 2012. Drifting snow threshold measurements near McMurdo station, Antarctica: a sensor comparison study. *Cold Reg. Sci. Technol.*, **70**, 71–80. (10.1016/j.coldregions.2011.08.001.)
- Leotta, G.A. and 6 others (including S. Sigler). 2002. *Thelebolus microsporus* mycelial mats in the trachea of wild brown skua (*Catharacta antarctica lonnbergi*) and South Polar skua (*C. maccormicki*) carcasses. *J. Wildlife Dis.*, **38**(2), 443–447.
- Leppäranta, M. and H.B. Granberg. 1991. Antarctic sea ice topography measurements using helicopter-borne laser profilometer. *Ant. Rep. Finland*, **1**, 39–43.
- Leppäranta, M., P. Kosloff, M. Lensu, H.B. Granberg and N. Gray. 1989. *Sea ice programme in FINNARP-89 Antarctic expedition.* Helsinki, Finland, Finnish Institute of Marine Research. (Internal report 1989-5.)

- Lescroël, A., C. Bajzak and C.-A. Bost. 2009. Breeding ecology of the gentoo penguin *Pygoscelis papua* at Kerguelen Archipelago. *Polar Biol.*, **32**(10), 1495-1505. (10.1007/s00300-009-0647-9.)
- Lesicar, D., W.K. Hocking and R.A. Vincent. 1994. Comparative studies of scatterers observed by MF radars in the Southern Hemisphere mesosphere. *J. Atmos. Terres. Phys.*, **56**(5), 589–591. (10.1016/0021-9169(94)90099-X.)
- Leslie, D., R.A. Witherow, J. Olesik, K.A. Welch, W.B. Lyons and W.M. Last. 2010. Boron concentrations in saline lakes: Great Basin, USA; Saskatchewan, Canada; and McMurdo Dry Valleys, Antarctica. [Paper 115-1.] *Geol. Soc. Am. Abstr. Prog.*, **42**(5), 2010 Denver Annual Meeting, 303. (http://gsa.confex.com/gsa/2010AM/finalprogram/abstract_177416.htm.)
- Lesser, M.P., P.J. Neale and J.J. Cullen. 1996. Acclimation of Antarctic phytoplankton to ultraviolet radiation: ultraviolet-absorbing compounds and carbon fixation. *Mol. Mar. Biol. Biotechnol.*, **5**(4), 314–325.
- Levasseur, M. 2011. Ocean science: if Gaia could talk. *Nature Geosci.*, **4**(6), 351–352. (10.1038/ngeo1175.)
- Léveillé, R. 2010. A half-century of terrestrial analog studies: from craters on the Moon to searching for life on Mars. *Planet. Space Sci.*, **58**(4), 631–638. (10.1016/j.pss.2009.04.001.)
- Leventer, A. and 8 others (including R. Gilbert). 2005. What lay beneath the Larsen B Ice Shelf: results of the first survey of a large modern sub ice shelf deposystem. [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., C21B-1103. (www.agu.org/meetings/fm05/waisfm05.html.)
- Levere, T.H. 1994. Book reviews. G. E. Fogg, A History of Antarctic Science. Studies in Polar Research. Cambridge: Cambridge University Press, 1992. Pp. xxi + 483. ISBN 0-521-36113-3. £55.00. *Br. J. Hist. Sci.*, **27**(1), 118–120. (10.1017/S0007087403005314.)
- Levermann, A., T. Albrecht, R. Winkelmann, M.A. Martin, M. Haseloff and I. Joughin. 2012a. Kinematic first-order calving law implies potential for abrupt ice-shelf retreat. *Cryosphere (TC)*, **6**(2), 273–286. (10.5194/tc-6-273-2012.)
- Levermann, A., T. Albrecht, R. Winkelmann, M.A. Martin, M. Haseloff and I.R. Joughin. 2012b. Kinematic first-order calving law implies potential for abrupt ice-shelf retreat. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, C31B-0585, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Lévesque, E. 1999. Commentary. Life at the Poles: simple or complex? In Lewkowicz, A., ed. *Poles apart, a study in contrasts. Proceedings of an International Symposium on Arctic and Antarctic Issues, 25–27 September 1997, Ottawa, Ontario, Canada*. Ottawa, Ont., University of Ottawa Press, 151–155.
- Levin, I. and 9 others (including D.E. Worthy). 2010. Observations and modelling of the global distribution and long-term trend of atmospheric ¹⁴CO₂. *Tellus*, **62B**(1), 26–46. (Erratum: **62**(3), July 2010, p.207.) (10.1111/j.1600-0889.2009.00446.x; 10.1111/j.1600-0889.2010.00456.x.)
- Lewis, A.R. and 12 others (including A.P. Wolfe). 2008. Mid-Miocene cooling and the extinction of tundra in continental Antarctica. *Proc. Natl. Acad. Sci. USA (PNAS)*, **105**(31), 10,676–10,680. (10.1073/pnas.0802501105.)
- Lewis, E.L. 1974. Convection beneath sea ice. *Colloque international sur les processus de formation des eaux océaniques profondes, 1972; Paris, France*. Paris, France, Centre national de la recherche scientifique, 50–55. (Colloques internationaux 215.)
- Lewis, E.L. 1985a. The "ice pump", a mechanism for ice-shelf melting. *Glaciers, ice sheets, and sea level: effect of a CO₂-induced climatic change. Report of a Workshop held in Seattle, Washington, September 13–15, 1984*. Washington, DC, U.S. Department of Energy, Office of Energy Research, September, 275–278. (Attachment 20, Report DOE/ER/60235-1.)
- Lewis, E.L. 1985b. Pumping away tide water glaciers and ice shelves. *14th Arctic Workshop: Arctic Land–Sea Interaction, Dartmouth, Nova Scotia, Canada, 6–8 November 1985. Proceedings*. Dartmouth, N.S., Bedford Institute of Oceanography, 94–96.

- Lewis, E.L. and A.R. Milne. 1977. Underwater sea ice formations. In Dunbar, M.J., ed. *Polar oceans. Proceedings of the Polar Oceans Conference, May 1974, McGill University, Montréal, Quebec*. Montréal, Que., Arctic Institute of North America, July, 239–245.
- Lewis, E.L. and R.G. Perkin. 1985. The winter oceanography of McMurdo Sound, Antarctica. In Jacobs, S.S., ed. *Oceanology of the Antarctic continental shelf*. Washington, DC, American Geophysical Union, 145–165. (Antarctic Research Series 43.)
- Lewis, E.L. and R.G. Perkin. 1986. Ice pumps and their rates. *J. Geophys. Res.*, **91**(C10), 11,756–11,762. (10.1029/JC091iC10p11756.)
- Lewis, E.L. and W.F. Weeks. 1970. Sea ice: some polar contrasts. In Deacon, G., Sir, ed. *Symposium on Antarctic Ice and Water Masses, September 1970, Tokyo, Japan*. Cambridge, U.K., Scientific Committee on Antarctic Research, 23–34.
- Lewis, J.P., M. Eby, A.J. Weaver, S.T. Johnston and R.L. Jacob. 2004. Modelling a Neoproterozoic Snowball Earth. [Abstract GP23A-03.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA165. (www.agu.org/meetings/sm04/waissm04.html.)
- Lewis, R.S., M. Drogou, P. King, G. Mann, N. Bose and A. Worby. 2012. An acoustic signal propagation experiment beneath sea ice. *Ocean Eng.*, **43**, 56–63. (10.1016/j.oceaneng.2012.01.018.)
- Lewkowicz, A.G. 1984. Reviews. Arctic and Antarctic: a modern geographical synthesis, by David Sugden, Barnes and Noble, Totowa, New Jersey, 1982, viii + 472 pp., cloth US \$35. *Can. Geogr.*, **28**(2), 201–202. (10.1111/j.1541-0064.1984.tb00786.x.)
- Lewkowicz, A.G. 1999. *Poles apart: a study in contrasts*. Ottawa, Ont., University of Ottawa Press. Actexpress.
- Lewkowicz, A. and M. Guglielmin. 2001. Thermal regimes of tors on Ellesmere Island, Canada (80° N) and Victoria Land, East Antarctica (75° S). In Harris, C. and B. Rea, eds. *1st European Permafrost Conference, 26–28 March 2001, Rome, Italy. Abstracts*. Rome, Italy, International Permafrost Association. Periglacial Commission, 99.
- Leys, S.P., G.O. Mackie and H.M. Reiswig. 2007. The biology of glass sponges. *Adv. Mar. Biol.*, **52**, 1–145. (10.1016/S0065-2881(06)51004-1.)
- Lhomme, N. 2005. Modelling water isotopes in polar ice sheets. Ph.D. thesis, University of British Columbia, Vancouver, B.C., 172 pp.
- Lhomme, N., F. Parrenin, C. Ritz, G.K. Clarke and S.J. Marshall. 2002. Combining glaciological models and tracers for understanding isotopic records in Antarctica. [Abstract PP21A-0298.] *Eos, Trans. AGU*, **83**(47), Fall Meet. Suppl., F935. (www.agu.org/meetings/fm02/waisfm02.html.)
- Lhomme, N., F. Parrenin, C. Ritz, G.K.C. Clarke and S.J. Marshall. 2003a. Combining glaciological models and tracers for understanding ice core records in Antarctica. *Geophys. Res. Abstr.*, **5**, EAE03-A-00693. (www.cosis.net/abstracts/EAE03/00693/EAE03-J-00693-1.pdf.)
- Lhomme, N., F. Parrenin, C. Ritz, G.K.C. Clarke and S.J. Marshall. 2003b. Combining glaciological models and tracers for understanding ice core records in Antarctica. *29th Annual Meeting of the Canadian Geophysical Union, 10–14 May 2003, Banff, Alberta. Program and abstracts*. Calgary, Alta, Canadian Geophysical Union, Abstract 198, CD-ROM.
- Lhomme, N., G.K.C. Clarke, C. Ritz, F. Parrenin and S. Marshall. 2004. The cryosphere: the last vast water reservoir. Isotopic composition of the Greenland and Antarctic ice sheets. [Abstract A44A-05.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA54. (www.agu.org/meetings/sm04/waissm04.html.)
- Lhomme, N., G.K.C. Clarke and C. Ritz. 2005. Global budget of water isotopes inferred from polar ice sheets. *Geophys. Res. Lett.*, **32**(20), L20502. (10.1029/2005GL023774.)
- Li, B., K.C. Jezek, L.A. Gray and K.E. Mattar. 1998. Mass balance of Filchner Ice Shelf. [Abstract H22F-04.] *Eos, Trans. AGU*, **79**(45), Fall Meet. Suppl., F327. (http://tinyurl.com/o6yf3bl.)

- Li, P.Y. and P. Taylor. 2007. Lagrangian stochastic simulation of blowing snow events. *Air, Ocean, Earth and Ice on the Rock, CMOS-CGU-AMS Congress 2007, 33rd Annual Meeting of the Canadian Geophysical Union, 28 May–1 June 2007, St. John's, Newfoundland and Labrador, Canada. Program and abstracts*. Calgary, Alta, Canadian Geophysical Union, Abstract 1719, CD-ROM, S04-4B3.8. (www.cmos.ca/CongressAbstracts/cong4107.pdf.)
- Li, S. and 7 others (including I.M. Coulson). 2011. The Antarctic achondrite, Grove Mountains 021663: an olivine-rich winonaite. *Meteor. & Planet. Sci.*, **46**(9), 1329–1344. (10.1111/j.1945-5100.2011.01232.x.)
- Li, W.K.W. 1998. Annual average abundance of heterotrophic bacteria and *Synechococcus* in surface ocean waters. *Limnol. Oceanogr.*, **43**(7), 1746–1753. (10.4319/lo.1998.43.7.1746.)
- Li, W.K.W., E.J.H. Head and W.G. Harrison. 2004. Macroecological limits of heterotrophic bacterial abundance in the ocean. *Deep-Sea Res. I*, **51**(11), 1529–1540. (10.1016/j.dsr.2004.06.012.)
- Lin, C.A., L. Su and S.J. Lambert. 1992. A diagnostic study of the Southern Hemisphere summer circulation of the CCC general circulation model. *Atmos.–Ocean*, **30**(3), 297–319. (<http://tinyurl.com/pvgdxn5>.)
- Lin, W. 2008. International students absorb Antarctic adventure aboard icebreaker. *Ottawa Citizen*, 3 January, C.6.
- Lindsay, D.C. 1977a. Lichens of cold deserts. In Seaward, M.R.D., ed. *Lichen ecology, Vol. 46*. London, UK and New York, NY, Academic Press, 183–209. (<http://tinyurl.com/ow2he8g>.)
- Lindsay, D.C. 1977b. Observations on transplants of Antarctic lichens. *Br. Ant. Surv. Bull.*, **46**, 129–131. (www.antarctica.ac.uk/documents/bas_bulletins/bulletin46_10.pdf.)
- Lindsay, D.C. 1978. The role of lichens in Antarctic ecosystems. *Bryologist*, **81**(2), 268–276. (www.jstor.org/stable/3242188.)
- Lingle, C.S., D.H. Schilling, J.L. Fastook, W.S.B. Paterson and T.J. Brown. 1991. A flow band model of the Ross Ice Shelf, Antarctica: response to CO₂-induced climatic warming. *J. Geophys. Res.*, **96**(B4), 6849–6871. (10.1029/91JB00197.)
- Linkletter, G., J. Bockheim and F.C. Ugolini. 1973. Soils and glacial deposits in the Beacon Valley, southern Victoria Land, Antarctica. *New Zeal. J. Geol. Geophys.*, **16**(1), 90–108. (<http://tinyurl.com/p858rff>.)
- Little, C.M. and 19 others (including G.K.C. Clarke and S.J. Marshall). 2007. Toward a new generation of ice sheet models. *Eos, Trans. AGU*, **88**(52), 578–579. (10.1029/2007EO520002.)
- Liu, G., Y. He, Y. Zhang and H. Shen. 2012. Estimation of global wind energy input to the surface waves based on the scatterometer. *IEEE Geosci. Rem. Sens. Lett.*, **9**(6), 1017–1020 (<http://tinyurl.com/ou6dlvk>.)
- Liu, H., Z. Zhao and K.C. Jezek. 2004. Correction of positional errors and geometric distortions in topographic maps and DEMs using rigorous SAR simulation technique. *PE&RS, Photogramm. Eng. Rem. Sens.*, **70**(9), 1031–1042.
- Liu, H., J. Yu, Z. Zhao and K.C. Jezek. 2007a. Calibrating and mosaicking surface velocity measurements from interferometric SAR data with a simultaneous least-squares adjustment approach. *Int. J. Rem. Sens.*, **28**(6), 1217–1230. (10.1080/01431160600904964.)
- Liu, H., Z. Zhao and K.C. Jezek. 2007b. Synergistic fusion of interferometric and speckle-tracking methods for deriving surface velocity from interferometric SAR data. *IEEE Geosci. Rem. Sens. Lett.*, **4**(1), 102–106 (10.1109/LGRS.2006.885885.)
- Liu, H., J. Yu, Z. Zhao and K.C. Jezek. 2008a. Incorporation of flow stripes as constraints for calibrating ice surface velocity measurements from interferometric SAR data. *PE&RS, Photogramm. Eng. Rem. Sens.*, **74**(12), 1501–1508.
- Liu, H., Z. Zhao, J. Yu and K.C. Jezek. 2008b. Simultaneous least squares adjustment of multiframe velocities derived from interferometric and speckle-tracking methods. *IEEE Geosci. Rem. Sens. Lett.*, **5**(2), 289–293 (10.1109/LGRS.2008.915936.)

- Liu, X. 2004a. *Multimedia object animation: Antarctic sea ice extent*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies, Geomatics and Cartographic Research Centre.
- Liu, X. 2004b. *Multimedia slide prototype: Antarctica seals prototype*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies, Geomatics and Cartographic Research Centre.
- Liu, X., P.L. Pulsifer and D.R.F. Taylor. 2004. The Cybercartographic Atlas of Antarctica: visualization for Antarctic science. *AntGIS04, 3rd International GIS Workshop on East Antarctica, 27–29 May 2004, Wuhan, China*. Wuhan, Wuhan University. Chinese Antarctic Center of Surveying and Mapping. (www.geoscience.scar.org/geog/wuhan04/abstracts.pdf.)
- Liu, X. 2004. *Object-oriented GIS-based modelling the impacts of climate variability on the Southern Ocean ecosystem visualized through elephant seal parameters*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies. (Masters of Arts thesis proposal.) (<http://tinyurl.com/p2qlg8f>.)
- Liu, X. 2005. The object-oriented to geographic data modeling for spatial data integration. M.A. thesis, Department of Geography and Environmental Studies, Carleton University, Ottawa, Ont., xiii + 141 pp. (www.collectionscanada.gc.ca/obj/thesescanada/vol2/002/mr10056.pdf.)
- Ljunggren, D. 2006. Antarctic melting a critical risk of global warming. *Ottawa Citizen*, 26 October, A.18.
- Lloyd, G. 2010. Canada–United Kingdom Memorandum of Understanding. *CARN Newsl.*, **29**, 3–4. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN%20vol%2029%20Nov%202010.pdf.)
- Lloyd, R. 2004. Forty years on – exploring the Antarctic. *Daily Observ. [Pembroke]*, 10 June, 4.
- Lloyd-Davies, M.T., C.A. Atkins, J. van der Meer, P.J. Barrett and S.R. Hicock. 2003. Cold-based glacier advance in the Allan Hills, Antarctica; evidence and preservation potential. [Abstract.] *Terra Nostra [Bonn]*, **2003-4**, 9th Int. Symp. on Ant. Earth Sci., 210.
- Lloyd Davies, M.T., C.B. Atkins, J.J.M. van der Meer, P.J. Barrett and S.R. Hicock. 2009. Evidence for cold-based glacial activity in the Allan Hills, Antarctica. *Quat. Sci. Rev.*, **28**(27–28), 3124–3137. (10.1016/j.quascirev.2009.08.002.)
- Lobban, C.S. 1986. A new frond-forming colonial *Navicula* from the Antarctic. *Diatom Res.*, **1**(1), 81–87. (10.1080/0269249X.1986.9704959.)
- Loken, O. 1997. *Canadians in Antarctic and bipolar science*. Ottawa, Ont., Canadian Polar Commission. (Polaris Paper 12.) (.)
- Løken, O.H., ed. 2000. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 11*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/11.pdf.)
- Løken, O.H., ed. 2001a. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 12*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/12.pdf.)
- Løken, O.H., ed. 2001b. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 13*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/13.pdf.)
- Løken, O.H., ed. 2002a. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 14*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/14.pdf.)
- Løken, O.H., ed. 2002b. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 15*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/15.pdf.)
- Loken, O.H. 2003a. 2003 — a good year for Canadian polar science. *CARN Newsl.*, **17**, 3–4. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/17.pdf.)

- Løken, O.H. 2003b. Canada and CCAMLR. *CARN Newsl.*, **16**, 3.
(www.polarcom.gc.ca/uploads/Antarctic%20Publications/16.pdf.)
- Løken, O.H., ed. 2003c. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 16.* Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/16.pdf.)
- Løken, O.H., ed. 2003d. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 17.* Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/17.pdf.)
- Løken, O.H., ed. 2004a. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 18.* Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/18.pdf.)
- Løken, O., comp. 2004b. *Canadian research activities in the Antarctic, 2000–2002.* Ottawa, Ont., Canadian Polar Commission, July. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CRAA.pdf.)
- Løken, O., comp. 2004c. *Canadians in Antarctic research, 2002–2004.* Ottawa, Ont., Canadian Polar Commission, July. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CAR.pdf.)
- Løken, O. 2004d. Framework for partnerships. In Løken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research.* Ottawa, Ont., Canadian Polar Commission, February, 48–50. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/Polar%20Connections.pdf.)
- Løken, O. 2005a. Antarctic research opportunities. *CARN Newsl.*, **19**, 14.
(www.polarcom.gc.ca/uploads/Antarctic%20Publications/19.pdf.)
- Løken, O.H. 2005b. Operation Deep Freeze – 50 years. *CARN Newsl.*, **20**, 8–12.
(www.polarcom.gc.ca/uploads/Antarctic%20Publications/20.pdf.)
- Løken, O.H. 2007. Canada: Antarctic program. In Riffenburgh, B., ed. *Encyclopedia of the Antarctic, Vol. 1.* New York, NY, Routledge. Taylor and Francis Group, 210–211.
- Løken, O.H. and K. Hall. 2001. *Antarctic and bipolar science. Report of a Workshop held at the Arctic Institute of North America, Calgary, Alberta, October 16, 1999.* Ottawa, Ont., Canadian Polar Commission, May. (www.polarcom.gc.ca/english/antarctic/pdf/antarctic_workshop_en.pdf.)
- Løken, O.H. and N.J. Couture. 2001. *Subglacial lake and deep ice exploration: Canadian expertise and international opportunities. Report of an International Workshop held at the Canadian Polar Commission, Ottawa, Ontario, March 17–18, 2001.* Ottawa, Ont., Canadian Polar Commission, May. (http://www.polarcom.gc.ca/english/antarctic/pdf/antarctic_subglacial_en.pdf)
- Løken, O.H., N.J. Couture and W.H. Pollard. 2004. *Polar connections: planning Canadian Antarctic research. Report of an International Workshop held at the University of Alberta, 25-27 September 2003.* Ottawa, Ont., Canadian Polar Commission, February.
(www.polarcom.gc.ca/uploads/Antarctic%20Publications/Polar%20Connections.pdf.)
- Lokken, J.E., J.A. Shand, C.S. Wright, Sir, L.H. Martin, N.M. Brice and R.A. Helliwell. 1961. Stanford–Pacific Naval Laboratory conjugate point experiment. *Nature*, **192**(4800), 319–321. (10.1038/192319b0.)
- Long, M.C. and 6 others (including P.D. Tortell). 2008. Constraining productivity in the Ross Sea: a comparison of methods in a dynamic polar ecosystem. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume.* Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S1.8/O57, 239.
- Long, M.C., P.D. Tortell, R.B. Dunbar, W. Smith, D.A. Mucciarone and G.R. DiTullio. 2010. Biological oxygen saturation and net community production in the polar Southern Ocean. [Abstract.] *Eos, Trans. AGU*, **91**(26), Meet. Americas Suppl., IT45L-04. (www.agu.org/meetings/ja10/program/abstract-database.php?sel=1.)

- Long, M.C., R.B. Dunbar, P.D. Tortell, W.O. Smith, D.A. Mucciarone and G.R. DiTullio. 2011. Vertical structure, seasonal drawdown, and net community production in the Ross Sea, Antarctica. *J. Geophys. Res.*, **116**(C10), C10029. (10.1029/2009JC005954.)
- Longhi, M.L., I.R. Schloss and C. Wiencke. 2003. Effect of irradiance and temperature on photosynthesis and growth of two antarctic benthic diatoms, *Gyrosigma subsalinum* and *Odontella litigiosa*. *Bot. Mar.*, **46**(3), 276–284. (10.1515/BOT.2003.025.)
- Longhurst, A.R. 1991. Role of the marine biosphere in the global carbon cycle. *Limnol. Oceanogr.*, **36**(8), 1507–1526. (www.aslo.org/login.ezproxy.library.ualberta.ca/lo/toc/vol_36/issue_8/1507.pdf.)
- Longton, R.E. 1972a. Reviews. Louis O. QUAM (editor). Research in the Antarctic. xv + 768 pages. Illustrated. Separate map. American Association for the Advancement of Science, Washington, D.C. 1971. Price: \$24.95 (cloth). *Bryologist*, **75**(2), 204–205. (www.jstor.org/stable/3241453.)
- Longton, R.E. 1972b. Studies of classification, biomass, and microclimate of vegetation near McMurdo Sound. *Antarct. J. U.S.*, **7**(3), 86–88. (https://s3.amazonaws.com/Antarctica/AJUS/AJUSvVIIIn4/AJUSvVIIIn4p86.pdf.)
- Longton, R.E. 1973. A classification of terrestrial vegetation near McMurdo Sound, continental Antarctica. *Can. J. Bot./J. Can. Bot.*, **51**(12), 2339–2346. (10.1139/b73-302.)
- Longton, R.E. 1974. Microclimate and biomass in communities of the Bryum Association on Ross Island, continental Antarctica. *Bryologist*, **77**(2), 268–276. (www.jstor.org/stable/3241549.)
- Longton, R.E. 1979a. Studies on growth, reproduction and population ecology in relation to microclimate in the bipolar moss *Polytrichum alpestre*. *Bryologist*, **82**(3), 325–367. (www.jstor.org/stable/3242212.)
- Longton, R.E. 1979b. Vegetation ecology and classification in the Antarctic Zone. *Can. J. Bot./J. Can. Bot.*, **57**(20), 2264–2278. (10.1139/b79-273.)
- Lord, U. 2000. Penguins in paradise: Antarctic adventures offer a glimpse at some untouched geography and wildlife. *Ottawa Citizen*, 30 September, E.18.
- Lorrain, A. and 6 others (including B. Graham). 2009. Nitrogen and carbon isotope values of individual amino acids: a tool to study foraging ecology of penguins in the Southern Ocean. *Mar. Ecol. Progr. Ser.*, **391**, 293–306. (10.3354/meps08215.)
- Lörz, A.-N., K. Linse, P.J. Smith and D. Steinke. 2012a. First molecular evidence for underestimated biodiversity of *Rhachotropis* (Crustacea, Amphipoda), with description of a new species. *PLoS ONE*, **7**(3), e32365. (10.1371/journal.pone.0032365.)
- Lörz, A.-N., P. Smith, K. Linse and D. Steinke. 2012b. High genetic diversity within *Epimeria georgiana* (Amphipoda) from the southern Scotia Arc. *Mar. Biodivers.*, **42**(2), 137–159. (http://tinyurl.com/q7w9epx.)
- Losch, M., B.M. Sloyan, J. Schröter and N. Sneeuw. 2002. Box inverse models, altimetry and the geoid: problems with the omission error. *J. Geophys. Res.*, **107**(C7), 15-1–15-13. (10.1029/2001JC000855.)
- Lossow, S., C. McLandress, A.I. Jonsson and T.G. Shepherd. 2012. Influence of the Antarctic ozone hole on the polar mesopause region as simulated by the Canadian Middle Atmosphere Model. *J. Atmos. Solar–Terres. Phys.*, **74**(18), 111–123. (10.1016/j.jastp.2011.10.010.)
- Lovell, J. 2005. Antarctic glaciers on the retreat, study finds: climate change blamed. *Natl. Post [Don Mills]*, A.15.
- Lowey, M. 1998. Students tap into Antarctic research: studies into glaciers will be put on Internet. *Calgary Herald*, B.4.
- Lowry, L.F., J.W. Testa and W. Calvert. 1988. Notes on winter feeding of crabeater and leopard seals near the Antarctic Peninsula. *Polar Biol.*, **8**(6), 475–478. (10.1007/BF00264724.)
- Lu, Q.-B. 2009. Correlation between cosmic rays and ozone depletion. *Phys. Rev. Lett.*, **102**(11), 118501. (10.1103/PhysRevLett.102.118501.)

- Lu, Q.-B. 2010a. Cosmic-ray-driven electron-induced reactions of halogenated molecules adsorbed on ice surfaces: Implications for atmospheric ozone depletion and global climate change. *Phys. Rep.*, **487**(5), 141–167. (10.1016/j.physrep.2009.12.002.)
- Lu, Q.-B. 2010b. Reply to comment by M. Alvarez-Madrigo on "Correlation between cosmic rays and ozone depletion". *Phys. Rev. Lett.*, **105**(16), 169802. (10.1103/PhysRevLett.105.169802.)
- Lu, Q.-B. and L. Sanche. 2001. Effects of cosmic rays on atmospheric chlorofluorocarbon dissociation and ozone depletion. *Phys. Rev. Lett.*, **87**(7), 078501. (10.1103/PhysRevLett.87.078501.)
- Lu, Q.-B. and L. Sanche. 2002a. Reply to comment by N.R.P. Harris, J.C. Farman, and D.W. Fahey on "Effects of cosmic rays on atmospheric chlorofluorocarbon dissociation and ozone depletion". *Phys. Rev. Lett.*, **89**(21), 219802. (10.1103/PhysRevLett.89.219802.)
- Lu, Q.-B. and L. Sanche. 2002b. Reply to comment by Prabir K. Patra and M.S. Santhanam on "Effects of cosmic rays on atmospheric chlorofluorocarbon dissociation and ozone depletion". *Phys. Rev. Lett.*, **89**(21), 219804. (10.1103/PhysRevLett.89.219804.)
- Lu, Z. and 6 others (including B. Georg). 2010. Pore fluid modeling approach to identify recent meltwater signals on the west Antarctic Peninsula. *Geochem. Geophys. Geosyst. G³*, **11**(6), Q06017. (10.1029/2009GC002949.)
- Lucini, M.M., T.G. Shepherd, N.A. McFarlane and S. Polavarapu. 2010. Multi-analysis ensemble in polar regions. [Abstract.] *Eos, Trans. AGU*, **91**(26), Meet. Americas Suppl., A43B-04. (www.agu.org/meetings/ja10/program/abstract-database.php?sel=1.)
- Lück, M., P.T. Maher and E.J. Stewart, eds. 2010a. *Cruise tourism in polar regions: promoting environmental and social sustainability?* London, Earthscan Publications.
- Lück, M., P.T. Maher and E.J. Stewart. 2010b. Chapter 1. Setting the scene: polar cruise tourism in the 21st century. In Lück, M., P.T. Maher and E.J. Stewart, eds. *Cruise tourism in polar regions: promoting environmental and social sustainability?* London, Earthscan Publications, 1–10.
- Lueker, M. and 12 others (including M.A. Dobbs and T.M. Lanting). 2009. Thermal design and characterization of Transition-Edge Sensor (TES) bolometers for frequency-domain multiplexing. *IEEE Trans. Appl. Supercond.*, **19**(3), Part 1, 496–500. (10.1109/TASC.2009.2018036.)
- Lueker, M. and 16 others (the SPT Collaboration that includes M.A. Dobbs and T.M. Lanting). 2010a. A frequency domain multiplexed receiver for the South Pole Telescope. In Young, B., A. Miller and B. Cabrera, eds. *The Thirteenth International Workshop on Low Temperature Detectors - LTD 13, 20–24 July 2009, Stanford, California*. New York, NY, etc., Springer. American Institute of Physics, 241–244. (AIP Conference Proceedings 1185.) (10.1063/1.3292323.)
- Lueker, M. and 42 others (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, G.P. Holder, L. Shaw and K. Vanderlinde). 2010b. Measurements of secondary cosmic microwave background anisotropies with the South Pole Telescope. *Astrophys. J.*, **719**(2), 1045–1066. (<http://tinyurl.com/orafloo>.)
- Lunn, N.J. and J.P.Y. Arnould. 1997. Maternal Investment in Antarctic fur seals: evidence for equality in the sexes? *Behav. Ecol. Sociobiol.*, **40**(6), 351–362. (www.jstor.org/stable/4601343.)
- Lupton, G. 1989. Students link via computer, projects with Antarctic team. *Kingston Whig-Standard*, 17 November, 1.
- Luque, S.P. and R. Fried. 2011. Recursive filtering for zero offset correction of diving depth time series with GNU R package diveMove. *PLoS ONE*, **6**(1), e15850. (10.1371/journal.pone.0015850.)
- Luque, S.P. and C. Guinet. 2007. A maximum likelihood approach for identifying dive bouts improves accuracy, precision and objectivity. *Behaviour*, **144**(11), 1315–1332. (10.1163/156853907782418213.)
- Luque, S.P., J.P.Y. Arnould, E.H. Miller, Y. Cherel and C. Guinet. 2007a. Foraging behaviour of sympatric Antarctic and subantarctic fur seals: does their contrasting duration of lactation make a difference? *Mar. Biol.*, **152**(1), 213–224. (10.1007/s00227-007-0677-1.)

- Luque, S.P., E.H. Miller, J.P.Y. Arnould, M. Chambellant and C. Guinet. 2007b. Ontogeny of body size and shape of Antarctic and subantarctic fur seals. *Can. J. Zool.*, **85**(12), 1275–1285. (*Corrigendum*: **86**(5), May, p.446.) (10.1139/Z07-092; 10.1139/Z08-053.)
- Luque, S.P., J.P.Y. Arnould and C. Guinet. 2008. Temporal structure of diving behaviour in sympatric Antarctic and subantarctic fur seals. *Mar. Ecol. Progr. Ser.*, **372**, 277–287. (10.3354/meps07689.)
- Luste, G.J. 1995. Reviews. In a Crystal Land: Canadian Explorers in Antarctica. Dean Beeby. Toronto: University of Toronto Press 1994. Pp. xii, 262. \$29.95. *Can. Hist. Rev.*, **76**(4), 703–706.
- Luz, A.P., V.H. Pellizari, L.G. Whyte and C.W. Greer. 2004. A survey of indigenous microbial hydrocarbon degradation genes in soils from Antarctica and Brazil. *Can. J. Microbiol.*, **50**(5), 323–333. (10.1139/w04-008.)
- Lynn, D. 2009. Ciliates. In Schaechter, M., ed. *Encyclopedia of microbiology, Third edition, Vol. 2.* Amsterdam, Elsevier, 578–592. (10.1016/B978-012373944-5.00248-0.)
- Lyons, W.B., S.K. Frappe and K.A. Welch. 1999. History of McMurdo Dry Valley lakes, Antarctica, from stable chlorine isotope data. *Geology*, **27**(6), 527–530. (<http://tinyurl.com/pdusz7o>.)
- Maas, A., B.A. Seibel and P.J. Walsh. 2012. Effects of elevated ammonia concentrations on survival, metabolic rates, and glutamine synthetase activity in the Antarctic pteropod mollusk *Clione limacina antarctica*. *Polar Biol.*, **35**(7), 1123–1128. (10.1007/s00300-012-1158-7.)
- MacCormack, W.P., L.A.M. Ruberto, C.L. Vodopivec, A. Curtosi and É. Pelletier. 2011. The impact of human activity on Antarctic coastal areas: a case study of hydrocarbons contamination at Potter Cove, South Shetland. *Ocean Yearbook*, **25**, 141–170.
- Macdonald, G. 2005. Ross Sea Heritage Restoration Project. *CARN Newsl.*, **20**, 16. (<http://tinyurl.com/6q8gzso>.)
- Macdonald, G. 2007. Restoration of Shackleton's Nimrod Hut at Cape Royds. *CARN Newsl.*, **23**, 12. ([www.polarcom.gc.ca/uploads/Publications/\(CARN\)/carn_vol23_eng.pdf](http://www.polarcom.gc.ca/uploads/Publications/(CARN)/carn_vol23_eng.pdf).)
- MacDonald, V. 2001a. Teen describes awesome beauty of Antarctic adventure. *Evening Guide [Port Hope]*, 2.
- MacDonald, V. 2001b. Teen shares wonder of Antarctic adventure. *Cobourg Daily Star*, 12 January, 1NT.
- MacDonald, V. 2001c. Web site offers chance to see Antarctic photos. *Evening Guide [Port Hope]*, 15.
- MacDowall, J. 1999. *On floating ice: two years on an Antarctic ice-shelf south of 75°S.* Durham, U.K., Pentland Press Limited.
- Mackay, D. 2003. Contaminants in polar ecosystems. *CARN Newsl.*, **16**, 9. (<http://tinyurl.com/83fo255>.)
- MacKinnon, P.K. and R.G. Barry. 1981. Antarctic data at the World Data Center-A for Glaciology (Snow and Ice). *Antarct. J. U.S.*, **16**(5), 1981 Review, 229–230. (<http://tinyurl.com/po626nr>.)
- Macko, S.A. and C.P.G. Pereira. 1988. Organic isotopic geochemistry and sedimentology of the east-central Weddell Sea region; a paleoenvironmental and climatic interpretation. *Geol. Soc. Am. Abstr. Prog.*, **20**(7), 1988 Centennial Celebration, 192.
- Macko, S.A. and C.P.G. Pereira. 1990. Chapter 50. Neogene paleoclimate development of the Antarctic Weddell Sea region: organic geochemistry. In Barker, P.F. and 24 others (including C.P.G. Pereira and E. Schandl), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 113. Weddell Sea, Antarctica: sites 689–697.* College Station, TX, Texas A & M University. Ocean Drilling Program, February, 881–897. (10.2973/odp.proc.sr.113.190.1990.)
- Macko, S.A. and C.P.G. Pereira. 1991. Late Tertiary climatic development of the Weddell Sea region, Antarctica based on stable isotope organic geochemistry and clay mineralogy. *Geol. Soc. Am. Abstr. Prog.*, **23**(5), 1991 San Diego Annual Meeting, 153–154.
- Macko, S.A., R.R. Bidigare, D. Biggs, M. Albet, P. Barker and J. Kennett. 1987. Sediment trap results from ODP Leg 113, Weddell Sea, Antarctica. *Geol. Soc. Am. Abstr. Prog.*, **19**(7), GSA Annual Meeting and Exposition, 754.

- Macko, S.A. and 9 others. 1988. Upper ocean particulate fluxes in the Weddell Sea from ODP Leg 113, Antarctica. *13th Joint Annual Meeting, GAC/MAC/CSPG/CGU, 23–25 May 1988, St. John's, Newfoundland. Program with Abstracts.* St. John's, Nfld, Geological Association of Canada, A77.
- MacLean, W.H. 2003. The "profile" method of calculating the composition of solid in magma fractionation, and its application to an alkaline volcano. *Contrib. Mineral. Petrol.*, **145**(6), 742–751. (Erratum: **146**(6), 2004, p.779.) (10.1007/s00410-003-0476-8; 10.1007/s00410-003-0537-z)
- Macnab, R., M. Jakobsson and H.W. Schenke. 2004. The international bathymetric charts of the Arctic and Southern Oceans: setting the physiographic context for marine research during IPY. [Abstract.] *Eos, Trans. AGU*, **85**(47), Fall Meet. Suppl., C21A–0974. (www.agu.org/meetings/fm04/waisfm04.html.) (http://www.agu.org/meetings/fm04/fm04-sessions/fm04_C21A.html)
- Macnab, R., M. Jakobsson, N. Ott and H.W. Schenke. 2007a. International Polar Year: opportunities for ocean mapping at the ends of the Earth. *Hydro Int.*, **11**(4), 24–26. (www.hydro-international.com/issues/articles/id770-The_International_Polar_Year.html.)
- Macnab, R., O. Loken and A. Anand. 2007b. The Law of the Sea and marine scientific research in the Arctic Ocean. *Meridian/Méridien*, **2007**, 6–11. (http://tinyurl.com/l5p2gzj.)
- MacPherson, L. 2002a. Freezing adventure: school on ice offers lessons in Antarctic's wildlife wonders. *Edmonton J.*, L.1.
- MacPherson, L. 2002b. Student experiences 'empowering' Antarctic. *Expositor [Brantford]*, 23 February, C.2.
- MacTavish, C. 2007. BOOMERANG: exploring the Universe from the Antarctic sky. *CARN Newsl.*, **23**, 1–4. (www.polarcom.gc.ca/uploads/Publications/(CARN)/carn_vol23_eng.pdf.)
- MacTavish, C.J. and 37 others (the BOOMERanG Collaboration that includes C. MacTavish, J.R. Bond, C.R. Contaldi, A.M. Lewis, C.B. Netterfield, E. Pascale and D. Pogosyan). 2006. Cosmological parameters from the 2003 flight of BOOMERANG. *Astrophys. J.*, **647**(2), Part 1, 799–812. (10.1086/505558.)
- Magens, D., F. Niessen and the Andriill-MIS Science team (that includes D.R. Schmitt). 2007. Determination of and preliminary results from the high-resolution physical properties record of the AND-1B sediment core from beneath Ross Ice Shelf Antarctica. In Cooper, A.K., P. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007.* Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (U.S. Geol. Surv. Open-File Rep. 2007-1047.) (Extended Abstract 130.) (http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea130.pdf.)
- Maggi, A., M. Grob and E. Stutzmann. 2011a. Seasonality of microseismic signal in Antarctica, and its link to sea ice. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA.* Washington, DC, American Geophysical Union, S31C-2248, digital media. (http://tinyurl.com/3nbfpx.)
- Maggi, A., M. Grob and E. Stutzmann. 2011b. Seasonality of microseismic signal in Antarctica, and its link to sea ice. *Earth on the Edge: Science for a Sustainable Planet, XXV IUGG General Assembly, 28 June – 7 July 2011, Melbourne, Australia.* Melbourne, Vic., International Union of Geodesy and Geophysics. Monash University School of Geosciences, Abstract 5644, digital media. (http://tinyurl.com/l378yhh.)
- Mahaney, W.C. 1995. Pleistocene and Holocene glacier thicknesses, transport histories and dynamics inferred from SEM microtextures on quartz particles. *Boreas*, **24**(4), 293–304. (10.1111/j.1502-3885.1995.tb00781.x.)
- Mahaney, W.C. 2011. SEM analysis of glacial sediments. In Singh, V.P., P. Singh and U.K. Haritashya, eds. *Encyclopedia of snow, ice and glaciers.* Dordrecht, etc., Springer, 1016–1027. (Encyclopedia of Earth Sciences Series.)
- Mahaney, W.C., G. Claridge and I. Campbell. 1996. Microtextures on quartz grains in tills from Antarctica. *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, **121**(1–2), 89–103. (10.1016/0031-0182(95)00069-0.)

- Mahaney, W.C., D. Malloch, R.G.V. Hancock, I.B. Campbell and D. Sheppard. 2000. Microbiology and geochemistry of Antarctic paleosols. *Second International Conference on Mars Polar Science and Exploration, 21-25 August 2000, Reykjavik, Iceland. Abstracts.* Houston, TX, Lunar and Planetary Institute, Abstract 4011, 113. (LPI Contribution 1057.) (<http://tinyurl.com/ob5jb65>.)
- Mahaney, W.C. and 8 others (including D. Malloch, R.G.V. Hancock and M.W. Milner). 2001. Morphogenesis of Antarctic paleosols: Martian analog. *Icarus*, **154**(1), 113–130. (10.1006/icar.2001.6667.)
- Mahaney, W.C., J.M. Dohm, B. Kapran, R.G.V. Hancock and M.W. Milner. 2009. Secondary Fe and Al in Antarctic paleosols; correlation to Mars with prospect for the presence of life. *Icarus*, **203**(1), 320–330. (10.1016/j.icarus.2009.05.007.)
- Mahaney, W.C. and 8 others (including R.G.V. Hancock). 2011. Aluminum extracts in Antarctic paleosols: proxy data for organic compounds and bacteria and implications for Martian paleosols. *Sediment. Geol.*, **237**(1–2), 84–94. (10.1016/j.sedgeo.2011.02.007.)
- Mahaney, W.C. and 7 others (including R.G.V. Hancock and M.W. Milner). 2012. Coleoptera and microbe biomass in Antarctic Dry Valley paleosols adjacent to the Inland Ice: implications for Mars. *Planet. Space Sci.*, **60**(1), 386–398. (10.1016/j.pss.2011.11.008.)
- Maher, P.T. 2003a. One hundred years after Scott: visitor's anticipation of an experience in the Ross Sea region. In Darby, R.K., H. Castleden, A.R. Giles and J. Raush, eds. *Proceedings of the Taking Tourism to the Limits Conference, 8–11 December 2003, Hamilton, New Zealand.* Hamilton, University of Waikato. Waikato Management School, CD-ROM, 420–441.
- Maher, P.T. 2003b. Ross Sea region 02/03: a state of the experience report for the Ross Sea region of Antarctica. In Karlsdóttir, A. and J. Oddsdóttir, eds. *Tourism in the North: environmental and cultural perspectives. Compendium of the Circumpolar Arctic Environmental Studies Network (CAES) Workshop and PhD course, Iceland.* Reykjavik, University of Iceland, presentation. (Editors are compilers.)
- Maher, P.T. 2007a. Advocating for Antarctic wilderness: short-term visits and human values. In Watson, A., J. Sproull and L. Dean, eds. *Science and stewardship to protect and sustain wilderness values. Eighth World Wilderness Congress Symposium, 30 September–6 October 2005, Anchorage, AK.* Fort Collins, CO, U.S. Department of Agriculture. Forest Service. Rocky Mountain Research Station, 170–177. (Proceedings RMRS-P-49.) (Editors are compilers.) (www.fs.fed.us/rm/pubs/rmrs_p049.pdf.)
- Maher, P.T. 2007b. Canadian Involvement in Antarctic tourism research: an update on some recent activity. *CARN Newsl.*, **24**, 17–18. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/24.pdf.)
- Maher, P.T. 2007c. The nature of the sea: a framework for exploring visitor experiences in the Ross Sea region, Antarctica. In Kylänen, M., ed. *Articles on Experiences 2.* Rovaniemi, Lapland Centre of Expertise for the Experience Industry (LCEEI), 56–81. (<http://tinyurl.com/navkwq3>.)
- Maher, P.T. 2008a. International Polar Years. In Lück, M., ed. *The encyclopedia of tourism and recreation in marine environments.* Oxford, CABI Publishing, 243–244.
- Maher, P. 2008b. Polar tourism: an overview of the ‘state of research’ during the International Polar Year. In Breiling, M., ed. *The Vienna Symposium on Polar Tourism, 22–25 October 2008, Vienna, Austria. Proceedings.* Vienna, Vienna University of Technology. Technology, Tourism and Landscape Centre, 18–21. (http://ttl.tuwien.ac.at/docs/proceedings_polar_tourism_081021.pdf.)
- Maher, P.T. 2008c. Ship-based tourism. In Lück, M., ed. *The encyclopedia of tourism and recreation in marine environments.* Oxford, CABI Publishing, 433–434.
- Maher, P.T. 2008d. South Magnetic Pole. In Lück, M., ed. *The encyclopedia of tourism and recreation in marine environments.* Oxford, CABI Publishing, 441.
- Maher, P.T. 2008e. South Pole. In Lück, M., ed. *The encyclopedia of tourism and recreation in marine environments.* Oxford, CABI Publishing, 442.

- Maher, P.T. 2008f. Wildlife and tourism in Antarctica: a unique resource and regime for management. In Higham, J. and M. Lück, eds. *Marine wildlife and tourism management: developing critical insights*. Oxford, CABI Publishing, 294–318.
- Maher, P.T. 2009. Book review. Prospect for Polar Tourism edited by John Snyder and Bernard Stonehouse. *Tourism Mar. Environ.*, **5**(4), 338–339. (10.3727/154427308788714759.)
- Maher, P.T. 2010. Chapter 12. “Awesome size...magnitude of the place...the incredible beauty...”: visitors’ onsite experiences in the Ross Sea region of Antarctica. In Hall, M. and J. Saarinen, eds. *Tourism and change in polar regions: climate, environments and experiences*. Oxford, Taylor & Francis Group Ltd. Routledge, 215–235. (Contemporary Geographies of Leisure, Tourism and Mobility.)
- Maher, P.T. 2011. Chapter 7. Ambassadors for the experience: perspectives from the Ross Sea region. In Maher, P., E. Stewart and M. Lück, eds. *Polar tourism: human, environmental and governance dimensions*. Elmsford, NY, Cognizant Communication Corp., 121–141.
- Maher, P.T. and H. Gelter. 2010. A commentary on polar tourism conferences in the International Polar Year (2007–2009). *Tourism Mar. Environ.*, **6**(4), 185–188. (10.3727/154427310X12764412619082.)
- Maher, P.T. and E.J. Stewart. 2007. Introduction. Polar tourism: research directions for current realities and future possibilities. *Tourism Mar. Environ.*, **4**(2–3), Polar Tourism, 65–68. (<http://tinyurl.com/owr7jnd>.)
- Maher, P.T., A.J. McIntosh and G.D. Steel. 2006. Examining dimensions of anticipation: inputs prior to visiting the Ross Sea region, Antarctica. *Tourism Mar. Environ.*, **2**(2), 51–63.
- Maher, P.T., E.J. Stewart and M. Lück. 2010. Chapter 14. Moving forward. In Lück, M., P.T. Maher and E.J. Stewart, eds. *Cruise tourism in polar regions: promoting environmental and social sustainability?* London, Earthscan Publications, 227–236.
- Maher, P.T., E.J. Stewart and M. Lück. 2011a. Chapter 1. An introduction to polar tourism: human, environmental and governance dimensions. In Maher, P., E. Stewart and M. Lück, eds. *Polar tourism: human, environmental and governance dimensions*. Elmsford, NY, Cognizant Communication Corp., 3–16.
- Maher, P.T., E.J. Stewart and M. Lück, eds. 2011b. *Polar tourism: human, environmental and governance dimensions*. Elmsford, NY, Cognizant Communication Corp.
- Maher, P.T., M.E. Johnston, J.P. Dawson and J. Noakes. 2011c. Risk and a changing environment for Antarctic tourism. *Curr. Iss. Tourism*, **14**(4), 387–399. (10.1080/13683500.2010.491896.)
- Mahieu, E. and 37 others (including K.A. Walker, E. Dupuy, K. Strong, C. Boone and J. Taylor). 2008. Validation of ACE-FTS v2.2 measurements of HCl, HF, CCl₃F and CCl₂F₂ using space-, balloon- and ground-based instrument observations. *Atmos. Chem. Phys. (ACP)*, **8**(20), Special Issue, 6199–6221. (10.5194/acp-8-6199-2008.)
- Mahmood, A. 2002. RADARSAT-1 background mission global coverage. *IGARSS 2002, Integrating our view of the planet, 22nd International Geoscience and Remote Sensing Symposium and 24th Canadian Symposium on Remote Sensing, 24–28 June 2002, Toronto, Canada. Proceedings, Vol. I*. Piscataway, NJ, Institute of Electrical and Electronics Engineers, 131–133. (10.1109/IGARSS.2002.1024964.)
- Mahmood, A., K.C. Jezek, S. Parashar and L.-P. Giugni. 2003. Snapshots from space of the world’s continents. *Geotimes*, **48**(11), 18–19.
- Maia, M. and J. Arkani-Hamed. 1999. The Foundation Hotspot–Pacific Antarctic Ridge interaction: compensation of the volcanic structures inferred from gravity and bathymetry. [Abstract T51H-06.] *Eos, Trans. AGU*, **80**(46), Fall Meet. Suppl., F1056–F1057. (www.agu.org/meetings/fm99/waisfm99.html.)
- Maiss, M. and 6 others (including N.B.A. Trivett). 1996. Sulfur hexafluoride – a powerful new atmospheric tracer. *Atmos. Environ.*, **30**(10–11), 1621–1629. (10.1016/1352-2310(95)00425-4.)
- Makarevitch, R.A. and 7 others (including A.V. Koustov). 2001. On the power-velocity relationship for 12- and 50-MHz auroral coherent echoes. *J. Geophys. Res.*, **106**(A8), 15,455–15,470. (10.1029/2000JA000330.)

- Maksym, T.L., J. Wilkinson, H. Singh, M. Lewis, K. Hochheim and T. Wagner. 2011. Mapping Antarctic sea ice thickness distribution from above and below. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA*. Washington, DC, American Geophysical Union, C34B-03, digital media. (<http://sites.agu.org/fallmeeting/scientific-program/>.)
- Malanga, G., M. Hernando, S. Puntarulo and G.A. Ferreyra. 2009. Estrés oxidativo en el fitoplancton subantártico y su relación con la radiación ultravioleta β [Oxydative stress in sub-Antarctic phytoplankton and its relationship with ultraviolet radiation]. *XXXII Jornadas Argentinas de Botánica, VIII Simposio Argentino de Ficología, 5–8 October 2009, Huerta Grande, Córdoba, Argentina*. Buenos Aires, Sociedad Argentina de Botánica, 62–63. [In Spanish] (www.botanicargentina.com.ar/boletin/44supl/Sab_corrido.pdf.)
- Maldonado, M.T. and 8 others (including R. Strzepak and N.M. Price). 2001. Iron uptake and physiological response of phytoplankton during a mesoscale Southern Ocean iron enrichment. *Limnol. Oceanogr.*, **46**(7), 1802–1808. (10.4319/lo.2001.46.7.1802.)
- Maldonado, M.T., R.F. Strzepak, S. Sander and P.W. Boyd. 2005. Acquisition of iron bound to strong organic complexes, with different Fe binding groups and photochemical reactivities, by plankton communities in Fe-limited subantarctic waters. *GBC Global Biogeochem. Cycles*, **19**(4), GB4S23. (10.1029/2005GB002481.)
- Malenovský, Z. and 6 others (including J. Cihlar and R. Fernandes). 2012. Sentinels for science: potential of Sentinel-1, -2, and -3 missions for scientific observations of ocean, cryosphere, and land. *Rem. Sens. Environ.*, **120**, 91–101. (10.1016/j.rse.2011.09.026.)
- Maloney, E. 2012. The Canadian Circumpolar Institute community in the University of Alberta's institutional repository. *Glaciol. Data*, GD-34, Cold Regions: Pivot Points, Focal Points, 199–209.
- Mangiaccasale, A. 2001. The young and adventurous explore Antarctic. *Niagara Falls Rev.*, B.12.
- Manley, P., E. Domack, P. Harris, R. Gilbert and A. Leventer. 1998. The Andvord Drift; a new type of glacial marine deposystem from the coastal regime of the Antarctic Peninsula. *Geol. Soc. Am. Abstr. Prog.*, **30**(7), 1998 Toronto Annual Meeting, 226–227.
- Mann, C.R. 1977. Current and water masses in the vicinity of Drake Passage. In Dunbar, M.J., ed. *Polar oceans. Proceedings of the Polar Oceans Conference, May 1974, McGill University, Montréal, Quebec*. Montréal, Quebec, July, Arctic Institute of North America, 121–127.
- Mann, K.H. 1995. Book review. Southern Ocean ecology: the BIOMASS perspective: Edited by Sayed Z. El-Sayed; Cambridge University Press, Cambridge; 1994; xxi + 399 pp.; GBP 45.00; US\$ 59.95; ISBN 0-521-44332-6 (hardback). *J. Exp. Mar. Biol. Ecol.*, **185**(1), 134–136. (10.1016/0022-0981(95)90011-X.)
- Manney, G.L. and 28 others (including J. Davies, C.T. McElroy, D.W. Tarasick and K.A. Walker). 2011. Unprecedented Arctic ozone loss in 2011. *Nature*, **478**(7370), 469–475. (10.1038/nature10556.)
- Manson, A.H. 1969. The effect of solar corpuscular radiation on the 1963 final spring warming in the Antarctic. *J. Atmos. Sci.*, **26**(3), 587–593. (10.1175/1520-0469(1969)026<0587:TEOSCR>2.0.CO;2.)
- Maranger, R., D.F. Bird and D.M. Karl. 1994. Palmer LTER: spatial distribution of viruses in the Palmer LTER region. *Antarct. J. U.S.*, **29**(5), 1994 Review, 209–211. (<http://tinyurl.com/n9klrzt>.)
- Marcotte, N. 2004. NSERC and Antarctic science. In Loken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research*. Ottawa, Ont., Canadian Polar Commission, February, 28–30. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/Polar%20Connections.pdf.)
- Mardon, A.A. 1991. Aeolian transport of Antarctic meteorites immediately after impact: implications for current transportation models. *Sixteenth Symposium on Antarctic Meteorites, 5–7 June 1991, Tokyo, Japan. Abstracts, Vol. 5*. Tokyo, National Institute of Polar Research, 187.
- Mardon, A. 1995. A proposal for a series of well organized and properly equipped scientific expeditions to the Antarctic by the Canadian Scientific and Academic Community. *Polar Times*, **121**, Fall–Winter, 22–23.

- Mardon, A. 1996. Letters. Meteorite recovery. *Science*, **274**(5286), 324–329. (10.1126/science.274.5286.324h.)
- Mardon, A.A. 1998a. Annual fluctuations of fern[*sic*]-snow cover in meteorite moraine: implications for meteorite recovery. *ESO Workshop on Minor Bodies in the Outer Solar System, 2–5 November 1998, Garching near Munich, Germany. Abstracts*. Garching, Germany, European Organisation for Astronomical Research in the Southern Hemisphere (ESO), Abstract 29. (<http://eso.info/sci/meetings/mboss98/abstract.pdf>)
- Mardon, A.A. 1998b. Means of cooperation between Japanese Antarctic meteorite recovery program and potential Russian Antarctic meteorite recovery program. *ESO Workshop on Minor Bodies in the Outer Solar System, 2–5 November 1998, Garching near Munich, Germany. Abstracts*. Garching, Germany, European Organisation for Astronomical Research in the Southern Hemisphere (ESO), Abstract 30. (<http://eso.info/sci/meetings/mboss98/abstract.pdf>)
- Mardon, A.A. 2003. Proposal for a French Antarctic meteorite recovery program. [Abstract 5141.] *Meteor. & Planet. Sci.*, **38**(S7), Suppl.: 66th Annual Meteoritical Soc. Meet., A78. (www.lpi.usra.edu/meetings/metsoc2003/pdf/5141.pdf.)
- Mardon, A.A. 2006. The potential of a Chinese Antarctic Meteorite Recovery Program. *Hayabusa Symposium 2006. International Science Symposium on Sample Returns from Solar System Minor Bodies. The 2nd Hayabusa Symposium — In-situ investigation of Itokawa, Sample Analyses Preparation and Spacecraft Operation, 12–14 July 2006, Tokyo, Japan. Abstracts*. Tokyo, Japan Aerospace Exploration Agency. (http://kumano.u-aizu.ac.jp/hayabusa_symp2006/All_abstract.pdf.)
- Mardon, A.A. and J.S. Williams. 1992. Potential meteorite recovery locales within Russian Antarctic logistical capability. *Twenty-Third Lunar and Planetary Science Conference, 16–20 March 1992, Houston, Texas. Abstracts*. Houston, TX, Lunar and Planetary Institute, Abstract 1418, 841. (LPI Contribution No.1589.) (www.lpi.usra.edu/meetings/lpsc1992/pdf/1418.pdf.)
- Mardon, A.A. and M. Zalcik. 2007. The potential existence of analogue Pleistocene meteorite placers in formerly glaciated regions of Russia when compared to Antarctic meteorite placers. [Abstract.] *Meteor. & Planet. Sci.*, **42**(S8), Suppl.: 70th Annual Meteoritical Soc. Meet., A96. (www.lpi.usra.edu/meetings/metsoc2007/pdf/5216.pdf.)
- Mardon, A.A., M. Zalcik, J.A. Greenspon and E.G. Mardon. 2006. Possible Pleistocene meteorite placer deposits on the Canadian Prairies similar to Antarctic meteorite placers. [Abstract 5004.] *Meteor. & Planet. Sci.*, **41**(8), Suppl.: 69th Annual Meteoritical Soc. Meet., A112. (www.lpi.usra.edu/meetings/metsoc2006/pdf/5004.pdf.)
- Margesin, R., G. Neuner and K.B. Storey. 2004. Cold-loving microbes, plants, and animals — fundamental and applied aspects. *Naturwiss.*, **94**(2), 77–99. (10.1007/s00114-006-0162-6.)
- MARGO Project Members. 2009. Constraints on the magnitude and patterns of ocean cooling at the Last Glacial Maximum. *Nature Geosci.*, **2**(2), 127–132. (Including A. de Vernal, M. Henry, C. Hillaire-Marcel, M. Kienast, A. Rochon and S. Solignac.) (10.1038/ngeo411.)
- Marinova, M.M. and 9 others (including D. Lacelle and W.H. Pollard). 2011a. Dry soils: the highlands of the Antarctic Dry Valleys and the defining environmental conditions. *EPSC–DPS Joint Meeting 2011, 2–7 October 2011, Nantes, France. Program and abstracts*. Göttingen, Copernicus Gesellschaft mbH. European Planetary Science Congress (EPSC) and Division for Planetary Sciences (DPS) of the American Astronomical Society, EPSC-DPS2011-1319, digital media. (<http://meetingorganizer.copernicus.org/EPSC-DPS2011/EPSC-DPS2011-1319.pdf>.)
- Marinova, M.M. and 9 others (including D. Lacelle and W.H. Pollard). 2011b. The high-elevation dry valleys of Antarctica as a Mars polar analogue: mapping subsurface ice distribution and modeling its stability. *Fifth International Conference on Mars Polar Science and Exploration, 12–16 September 2011, Fairbanks, Alaska*. Houston, TX, Lunar and Planetary Institute, Abstract 6051, digital media. (www.lpi.usra.edu/meetings/polar2011/pdf/6051.pdf.)

- Marinova, M. *and 9 others* (including D. Lacelle and W.H. Pollard). 2011c. Mapping the depth to ice-cemented ground in the high elevation Dry Valleys, Antarctica. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA*. Washington, DC, American Geophysical Union, C11F-08, digital media. (<http://sites.agu.org/fallmeeting/scientific-program/>.)
- Marinova, M. *and 9 others* (including D. Lacelle and W.H. Pollard). 2011d. Sublimation-dominated active layers in the highlands of the Antarctic Dry Valleys and Implications for other sites. *Forty-Second Lunar and Planetary Science Conference, 7–11 March 2011, Woodlands, Texas*. Houston, TX, Lunar and Planetary Institute, Abstract #2644, digital media. (LPI Contribution No.1608.) (<http://tinyurl.com/qahecb4y>.)
- Marion, G.M. *and 11 others* (including G.H.R. Henry, D.W. Freckman, J. Johnstone, G. Jones, M.H. Jones and E. Lévesque). 1997. Open-top designs for manipulating field temperature in high-latitude ecosystems. *Global Change Biol.*, **3**(S1), 20–32. (10.1111/j.1365-2486.1997.gcb136.x.)
- Marret, F. and A. de Vernal. 1997. Dinoflagellate cyst distribution in surface sediments of the southern Indian Ocean. *Mar. Micro-Paleontol.*, **29**(3–4), 367–392. (10.1016/S0377-8398(96)00049-7.)
- Marret, F., A. de Vernal, F. Benderra and R. Harland. 2001. Late Quaternary sea-surface conditions at DSDP Hole 594 in the Southwest Pacific Ocean based on dinoflagellate cyst assemblages. *JQS, J. Quat. Sci.*, **16**(7), 739–751. (10.1002/jqs.648.)
- Marsden, G. *and 37 others* (including S. Benton, E.L. Chapin, J. Chung, L. Fissel, M. Halpern, C.J. MacTavish, P.G. Martin, T.G. Martin, C.B. Netterfield, G. Patanchon, D. Scott, M.P. Viero and D.V. Wiebe). 2008. The Balloon-borne Large-Aperture Submillimeter Telescope for polarization: BLAST-pol. In Duncan, W.D., W.S. Holland, S. Withington and J. Zmuidzinas, eds. *Millimeter and submillimeter detectors and instrumentation for astronomy IV, 23 June 2008, Marseille, France*. Bellingham, WA, Society of Photo-optical Instrumentation Engineers, 702002. (SPIE Proceedings 7020.) (10.1117/12.788413.)
- Marsh, J.S. 2000. Tourism and national parks in polar regions. In Butler, R.W. and S.W. Boyd, eds. *Tourism and national parks: issues and implications*. Chichester, England, John Wiley, 125–136.
- Marshall, A. and R. Collins. 1994. Antarctic crash kills four flyers: plane hits iceberg: Calgary father and son among accident victims. *Calgary Herald*, A.1.
- Marshall, C.J., N.M. Johnston, B.W. Murray, P.M. Brown and A.I. Vergheze. 2003. Does the enzyme citrate synthase from several Antarctic fish show evidence of cold adaptation? In Huiskes, A.H.L., W.W.C. Gieskes, J. Rozema, R.M.L. Schorno, S.M. van der Vies and W.J. Wolff, eds. *VIIIth SCAR International Biology Symposium, 27 August–1 September 2001, Amsterdam, Netherlands. Proceedings*. Leiden, The Netherlands, Backhuys Publishers, 102–106.
- Marshall, S.J. 2001. Modelled inception and growth of the Antarctic ice sheet: nested model examination of subglacial energy balance in the Vostok Region. In Löken, O.H. and N.J. Couture, eds. *Subglacial lake and deep ice exploration: Canadian expertise and international opportunities*. Ottawa, Ont., Canadian Polar Commission, May, 20–21. (<http://tinyurl.com/ldpyl3m>.)
- Marshall, S.J. 2012. *The cryosphere*. Princeton, NJ, Princeton University Press. (Princeton Primers on Climate.)
- Marshall, S.J., D. Pollard, S. Hostetler and P.U. Clark. 2004. Coupling ice-sheet and climate models for simulation of former ice sheets. In Gillespie, A.R., S.C. Porter and B.F. Atwater, eds. *The Quaternary period in the United States*. Amsterdam, Elsevier, 105–126. (Developments in Quaternary Science 1.)
- Martin, C., I. Bentaleb, S. Steelandt and C. Guinet. 2011. Stable carbon and nitrogen isotope variations in canine dentine growth layers of Kerguelen southern elephant seals. *Mar. Ecol. Progr. Ser.*, **439**, 295–305. (10.3354/meps09331.)
- Martin, M.A. *and 6 others* (including M. Haseloff). 2010. Dynamic equilibrium simulation of Antarctica with the Potsdam Parallel Ice Sheet Model (PISM-PIK). *Geophys. Res. Abstr.*, **12**, 2010 EGU Gen. Assem., EGU2010-366. (<http://meetingorganizer.copernicus.org/EGU2010/EGU2010-366.pdf>.)

- Martini, I.P. and W. Chesworth. 1992. *Weathering, soils & paleosols*. Amsterdam, etc., Elsevier.
- Martini, I.P., M.E. Brookfield and S. Sadura. 2001. *Principles of glacial geomorphology and geology*. Upper Saddle River, NJ, Prentice-Hall.
- Martini, I.P., H.M. French and A. Pérez Alberti, eds. 2011a. *Ice-marginal and periglacial processes and sediments*. London, Geological Society. (GSL Special Publication 354.) (10.1144/SP354.0.)
- Martini, I.P., H.M. French and A. Pérez Alberti. 2011b. Ice-marginal and periglacial processes and sediments: an introduction. In Martini, I.P., H.M. French and A. Pérez Alberti, eds. *Ice-marginal and periglacial processes and sediments*. London, Geological Society, 1–13. (GSL Special Publication 354.) (10.1144/SP354.1.)
- Mashayek, A., W.R. Peltier, O. Bühler and R. Ferrari. 2010. Eddy diffusivity associated with the Antarctic Circumpolar Current. *Our Earth, our air, our water, our future. 44th Annual CMOS Congress, 36th Annual Scientific Meeting of CGU, 3rd Joint CMOS-CGU Congress, 31 May–4 June, Ottawa, Ontario. Congress abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 3571, 342. (www.cmos.ca/CongressAbstracts/cong4410.pdf.)
- Masi, S. and 40 others (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, C. MacTavish, C.B. Netterfield, E. Pascale and D. Pogosyan). 2001a. BOOMERanG. *Mem. Soc. Astron. Ital. Suppl.*, **2**, 54–61.
- Masi, S. and 16 others (the BOOMERanG Collaboration that includes C.B. Netterfield and S. Prunet). 2001b. High-latitude galactic dust emission in the BOOMERANG maps. *Astrophys. J. Lett.*, **553**(2), Part 2, L93–L96. (10.1086/320679.)
- Masi, S. and 36 others (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, D. Pogosyan, S. Prunet and C.B. Netterfield). 2001c. Imaging the early universe with the BOOMERANG experiment, 2001. *A relativistic spacetime odyssey. Experiments and theoretical viewpoints on general relativity and quantum gravity. Proceedings of the 25th Johns Hopkins Workshop on Current Problems in Particle Theory*. Singapore, World Scientific Publishing Co., 209–222.
- Masi, S. and 37 others (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, D. Pogosyan, S. Prunet and C.B. Netterfield). 2002a. The BOOMERanG experiment and the curvature of the Universe. *Progr. Part. Nucl. Phys.*, **48**(1), 243–261. (10.1016/S0146-6410(02)00131-X.)
- Masi, S. and 16 others (including C.B. Netterfield and S. Prunet). 2002b. Interstellar dust in the BOOMERanG maps. In De Petris, M. and M. Gervasi, eds. *Experimental cosmology at millimetre wavelengths: 2K1BC Workshop, 9–13 July 2001, Valle d'Aosta, Italy*. Washington, DC, American Institute of Physics, 18–22. (AIP Conference Proceedings 616.) (10.1063/1.1475597.)
- Masi, S. and 43 others (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, P. Ehlers, C. MacTavish, C.B. Netterfield, E. Pascale and D. Pogosyan). 2006. Instrument, method, brightness, and polarization maps from the 2003 flight of BOOMERanG. *Astron. Astrophys.*, **458**(3), 687–716. (10.1051/0004-6361:20053891.)
- Masi, S. and 43 others (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, P. Ehlers, C. MacTavish, C.B. Netterfield, E. Pascale and D. Pogosyan). 2007. The millimeter sky as seen with BOOMERanG. *New Astron. Rev.*, **51**(3–4), 236–243. (10.1016/j.newar.2006.11.063.)
- Masotti, I. and 10 others (including P.D. Tortell). 2010. Spatial and temporal variability of the dimethylsulfide to chlorophyll ratio in the surface ocean: an assessment based on phytoplankton group dominance determined from space. *Biogeosci. (BG)*, **7**(10), 3215–3237. (10.5194/bg-7-3215-2010.)
- Massom, R.A. and 12 others (including H.R. Krouse). 2006. Extreme anomalous atmospheric circulation in the West Antarctic Peninsula region in Austral spring and summer 2001/02, and its profound impact on sea ice and biota. *J. Climate*, **19**(15), 3544–3571. (10.1175/JCLI3805.1.)

- Masson, J.M. 1999. Dear Dad. When it comes to parenting, father penguins put out big time. Try enduring pecking wives, four months of starvation and the unimaginable cold of 24-hour Antarctic nights, while balancing a single, precious egg on your ice-crusting feet. *Globe & Mail [Toronto]*, 16 October, D.16.
- Masson-Delmotte, V. and 25 others (including W.R. Peltier and G. Vettoretti). 2006. Past and future polar amplification of climate change: climate model intercomparisons and ice-core constraints. *Climate Dyn.*, **26**(5), 513–529. (Erratum: **27**(4), September, 437–440.) (10.1007/s00382-005-0081-9; 10.1007/s00382-006-0149-1.)
- Matear, R.J., C.S. Wong and L. Xie. 2003. Can CFCs be used to determine anthropogenic CO₂? *GBC Global Biogeochem. Cycles*, **17**(1), 1013. (10.1029/2001GB001415.)
- Matharasi, K. and 6 others (including J. Gamon). 2008. Design and development of a spectral library for different vegetation and landcover types for Arctic, Antarctic and Chihuahua Desert ecosystem. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., IN43A-1175. (<http://tinyurl.com/mgf57ub>.)
- Mather, K.F. 1918. Diminution of the Antarctic ice cap and the amelioration of climate. *Science*, **47**(1209), 218–219. (10.1126/science.47.1209.218-a.)
- Mathews, W.H. 1991. Ice sheets and ice streams: thoughts on the Cordilleran Ice Sheet Symposium. *Géogr. Phys. Quat.*, **45**(3), 263–267. (www.erudit.org/revue/gpq/1991/v45/n3/032873ar.pdf.)
- Matsumoto, K. and 6 others (including A. Braun). 2006. A Southern Ocean tide model assimilating multiple altimeter data and comparison to tidal observations by GRACE. [Abstract.] *Eos, Trans. AGU*, **87**(36), West. Pac. Geophys. Meet. Suppl., G32A-05. (www.agu.org/meetings/wp06/waiswp06.html.)
- Matsuoka, H. and 8 others (including G.J. Sofko). 2002. Coordinated observations of Pc3 pulsations near cusp latitudes. *J. Geophys. Res.*, **107**(A11), 1400. (10.1029/2001JA000065.)
- Mauskopf, P.D. and 33 others (the BOOMERanG Collaboration that includes C.B. Netterfield). 2000. Measurement of a peak in the cosmic microwave background power spectrum from the North American test flight of Boomerang. *Astrophys. J. Lett.*, **536**(2), Part 2, L59–L62. (10.1086/312743.)
- Mauskopf, P.D. and 40 others (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, C. MacTavish, C.B. Netterfield, E. Pascale and D. Pogosyan). 2003. BOOMERANG returns. *New Astron. Rev.*, **47**(8–10), 733–740. (10.1016/j.newar.2003.07.019.)
- Maxwell, J.B. and L.A. Barrie. 1989. Atmospheric and climatic change in the Arctic and Antarctic. *Ambio*, **18**(1), 42–49. (www.jstor.org/stable/4313523.)
- Mayer, H., U.C. Herzfeld and G.K.C. Clarke. 2002. Analysis of deformation types in fast-moving glaciers. [Abstract.] *Terra Nostra [Bonn]*, **2002-4**, IAMG 2002, 273–278.
- Mayers, A. 2005. Diary of an Antarctic voyage 'Ever-changing sea and sky' Headline Shackleton Blizzards on the way; On the Nimrod with Shackleton Rupert Michell was Ontario doctor. *Toronto Star*, 11 June, A.01.
- Mayers, A. 2007. Sleeping under the stars on an Antarctic island: the sky for your tent, a sleeping bag to keep you warm and a sun that never really sets. *Toronto Star*, 29 November, T.2.
- Mayzaud, P. and S. Razouls. 1992. Degradation of gut pigment during feeding by a subantarctic copepod: Importance of feeding history and digestive acclimation. *Limnol. Oceanogr.*, **37**(2), 393–404. (www.aslo.org/lo/toc/vol_37/issue_2/0393.pd.)
- Mazzola, M. and 25 others (including N.T. O'Neill and I. Abboud). 2012. Evaluation of Sun photometer capabilities for retrievals of aerosol optical depth at high latitudes: the POLAR-AOD intercomparison campaigns. *Atmos. Environ.*, **52**, 4–17. (10.1016/j.atmosenv.2011.07.042.)
- McArthur, D. 1996a. Antarctica. Sailing at bottom of the world In the first of four stories on Antarctica, the author found that aboard ship there was no decadent luxury, but a price tag of less than \$5,000 meant that those who had only dreamed of seeing the most forbidden, remote continent on Earth could now do so. *Globe & Mail [Toronto]*, 15 May, D.1.

- McArthur, D. 1996b. Antarctica. Where world researchers gather over something icy While some research stations are rundown or spartan, still others are grand, says author in the third of four stories. All the scientists on this fiercely cold continent share a spirit of co-operation. *Globe & Mail [Toronto]*, 22 May, D.1.
- McArthur, D. 1996c. Cruising Antarctica. How life renews itself on the coldest continent: Starving adult penguins await mates with full bellies to take up the babysitting chores, so they can go to sea and feed. This is the second report of a four-part series on Antarctica. *Globe & Mail [Toronto]*, 18 May, F.5.
- McArthur, D. 1996d. Dilemma. Does tourism hurt the Antarctic? In last of a four-part series, author says scientists differ widely on the impact of cruise-ship passengers on flora and fauna of the southernmost continent. However, many agree that there must be some form of controls. *Globe & Mail [Toronto]*, 25 May, F.5.
- McBean, G. 2012. Book reviews. The State of the Poles: Climate Lessons from the International Polar Year, by Christian Bjørnæs and Pål Prestrud. *Arctic*, **65**(4), 479–480.
- McCafferty, D.J., T.R. Walker and I.L. Boyd. 2004. Using time-depth-light recorders to measure light levels experienced by a diving marine mammal. *Mar. Biol.*, **146**(1), 191–199. (10.1007/s00227-004-1428-1.)
- McClatchie, S. and C.M. Boyd. 1983. Morphological-study of sieve efficiencies and mandibular surfaces in the Antarctic krill, *Euphausia-superba*. *Can. J. Fish. Aquat. Sci.*, **40**(7), 955–967. (10.1139/f83-122.)
- McClatchie, S., S. Rakusa-Suszczewski and K. Filcek. 1991. Seasonal growth and mortality of *Euphausia superba* in Admiralty Bay, South Shetland Islands, Antarctica. *ICES J. Mar. Sci.*, **48**(3), 335–342. (10.1093/icesjms/48.3.335.)
- McClelland, C. 2007. First research cruise to study adaptations and evolution of fauna after the collapse of the Larsen A and B Ice Shelves. *CARN Newsl.*, **23**, 8–11. (<http://tinyurl.com/q9jfugu>.)
- McClelland, C. 2008a. A comparison of benthic respiration rates. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **569**, 75–77. (<http://epic.awi.de/27492/1/Gut2008b.pdf>.)
- McClelland, C. 2008b. Recruitment in peracarid crustaceans. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **569**, 66–67. (<http://epic.awi.de/27492/1/Gut2008b.pdf>.)
- McClelland, G.B. 2011. Tissue respiration: cellular respiration. In Farrell, A.P., ed. *Encyclopedia of fish physiology: from genome to environment, Vol. 4*. Amsterdam, Elsevier, 951–958. (10.1016/B978-0-12-374553-8.00120-9.)
- McConnell, J. 2007. AICI-IPY: air–ice chemical interactions. *International Polar Year Day: ice sheets*. Edmonton, Alta., Canadian IPY Secretariat, 4. (IPY Day 2.) (<http://tinyurl.com/ntcgox2>.)
- McConnell, J.C. and J.J. Jin. 2008. Stratospheric ozone chemistry. *Atmos.–Ocean*, **46**(1), 69–92. (10.3137/ao.460104.)
- McConnell, R. 1992. Russian roulette; Edmonton geographer Austin Mardon got the adventure of a lifetime he wasn't counting on when he signed on for a Soviet expedition to the Antarctic. For four days in Moscow he says he was followed, interrogated and even gassed by army intelligence agents. *Edmonton J.*, D.1.
- McConnell, W.H. 1992. Reviews/Comptes rendus. The Polar Regions: Geographical and Historical Data for Consideration in a Study of Claims to Sovereignty in the Arctic and Antarctic Regions by S.W. BOGGS, William S. Hein & Co. Inc., Buffalo, NY, 1990, ii & 123 pp, cloth, US\$32.50 (ISBN 0-89941-726-4). *Can. Geogr.*, **36**(3), 292–293. (10.1111/j.1541-0064.1992.tb01142.x.)
- McCulloch, S. 1999. Anderson heads to icecap for conference on Antarctic. *Times Colonist [Victoria]*, 23 January, D.19.
- McDonald, M., R.L. de Zafra and G. Muscari. 2000. Millimeter wave spectroscopic measurements over the South Pole: 5. Morphology and evolution of HNO₃ vertical distribution, 1993 versus 1995. *J. Geophys. Res.*, **105**(D14), 17,739–17,750. (10.1029/2000JD900120.)

- McDonald, M. *and 85 others* (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, L. Shaw, A. van Engelen and K. Vanderlinde). 2012. A massive, cooling-flow-induced starburst in the core of a luminous cluster of galaxies. *Nature*, **444**(7411), 349–352. (10.1038/nature11379.)
- McDougall, I. and E.D. Ghent. 1970. Potassium-argon dates on minerals from the Mt Falconer area, lower Taylor Valley, south Victoria Land, Antarctica. *New Zeal. J. Geol. Geophys.*, **13**(4), 1026–1029. (10.1080/00288306.1970.10418217.)
- McDowell, E. 1999. Conservationists want caps on Antarctic visits. *Vancouver Sun*, 13 February, G.5.
- McElroy, C.T. and P.F. Fogal. 2008a. Ozone: from discovery to protection. *Atmos.–Ocean*, **46**(1), 1–13. (10.3137/ao.460101.)
- McElroy, C.T. and P.F. Fogal. 2008b. Understanding ozone depletion: measurements and models. *Atmos.–Ocean*, **46**(1), 15–37. (10.3137/ao.4601002.)
- McElroy, C.T., V. Savastiouk, R.D. Evans, S. Oltmans, J. Booth and A. Cox. 2010. Two years of Brewer ozone spectrophotometer observations from the South Pole. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 385264, digital media. (www.ipy-osc.no/abstract/385264.)
- McElroy, T., V. Savastiouk, R. Evans, S. Oltmans, J. Booth and A. Cox. 2010. Two years of ozone observations from the South Pole Brewer. *Geophys. Res. Abstr.*, **12**, 2010 EGU Gen. Assem., EGU2010-15010. (<http://meetingorganizer.copernicus.org/EGU2010/EGU2010-15010.pdf>)
- McEwen, D.J. 2007. Aurora. In Riffenburgh, B., ed. *Encyclopedia of the Antarctic, Vol. 1*. New York, NY, Routledge. Taylor and Francis Group, 105–108.
- McEwen, D. 2008. A new look at dayside auroras. *Workshop B: Norwegian-Canadian Collaboration in Space Science, Application and Technology. Collaboration in Space Science: Transatlantic Science Week 2008, 19–20 October 2008, Ottawa, Ontario. Abstracts*. Andenes, Norway, Andøya Rocket Range, 26. (www.rocketrange.no/download/booklet-2.pdf.)
- McEwen, D.J. 2009. Aurora over the South Pole. *CARN Newsl.*, **27**, 13–14. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN%2027.pdf.)
- McEwen, D.J. and G.G. Sivjee. 2011. South Pole dayside auroral 630 nm OI intensity measurements at Solar minimum. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA*. Washington, DC, American Geophysical Union, SA51A-1931, digital media. (<http://sites.agu.org/fallmeeting/scientific-program/>.)
- McEwen, D.J. and G.G. Sivjee. 2012. Photometry of dayside auroras during solar minimum. *Can. J. Phys.*, **90**(8), 753–758. (10.1139/p11-137.)
- McEwen, D.J., Y. Zhang, G.G. Sivjee and J. Minow. 1999. Arctic–Antarctic night airglow comparisons. *Adv. Space Res.*, **24**(12), 1679–1688. (10.1016/S0273-1177(99)00330-0.)
- McEwen, D., A. Sivjee, I. Azeem and E. Riddle. 2008a. Dayside aurora in perspective. *35th Annual European Meeting on Atmospheric Studies by Optical Methods, 24-29 August 2008, Maynooth, Ireland*. Maynooth, Co Kildare, National University of Ireland. Department of Experimental Physics, digital media. (<http://physics.nuim.ie/35AM/documents/McEwen.pdf>.)
- McEwen, D.J., G.G.S. Sivjee and I. Azeem. 2008b. Dynamics of the dayside Aurora Australis. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S2.3/P15, 314.
- McFarlane, N., E. Farahani and D. Pendlebury. 2009. SPARC–IPY Update. *SPARC Newsl.*, **33**, 5. (www.atmos.physics.utoronto.ca/SPARC/Newsletter33_web/Newsletter%2033.pdf.)

- McFeters, G.A. *and 7 others* (including K.E. Conlan). 1998. Distribution, fate and impact of a sewage outfall in an Antarctic marine environment. In Hassan, A., ed. *Antarctic ecosystems: models for wider ecological understanding. VIIth SCAR Biological Symposium, 31 August–4 September 1998, Christchurch, New Zealand. Abstracts*. Canterbury, New Zealand, NZNS Editorial Committee, 111. (New Zealand Natural Sciences Supplement 23.)
- McIntyre, D.J. and G.J. Wilson. 1966. Preliminary palynology of some Antarctic Tertiary erratics. *New Zeal. J. Bot.*, **4**(3), 315–321. (10.1080/0028825X.1966.10429050.)
- McIntyre, L. and I. Kaczmarek. 1996. Improved resolution of the Pleistocene extinction level of *Stylatractus universus* Hays (Radiolaria) in ODP Hole 745B, Kerguelen Plateau. *Micropaleontol.*, **42**(4), 375–379. (www.jstor.org/stable/1485959.)
- McKay, C.P. *and 6 others* (including D.T. Andersen and W.H. Pollard). 2005. Chapter 9. Polar lakes, streams, and springs as analogs for the hydrological cycle on Mars. In Tokano, T., ed. *Water on Mars and life*. Berlin, etc., Springer-Verlag, 219–233. (Advances in Astrobiology and Biogeophysics 4.) (10.1007/b12040.)
- McKay, C.P. *and 9 others* (including W.H. Pollard, D. Lacelle and L. Whyte). 2012. Water activity and microbial life in dry permafrost on Earth and Mars: insights from University Valley Antarctica and the Phoenix landing site on Mars. *Steering Group on Deglaciation: Past, Present, and Future, 26–27 March 2012, NASA's Ames Research Center, California*. Moffett Field, CA, National Aeronautics and Space Administration (NASA). Ames Research Center, presentation.
- McKay, D.S. *and 8 others* (including H. Vali). 1996. Search for past life on Mars; possible relic biogenic activity in Martian meteorite ALH84001. *Science*, **273**(5277), 924–930. (10.1126/science.273.5277.924.)
- McKendry, I.G. and E.W.D. Lewthwaite. 1990. The vertical structure of summertime local winds in the Wright Valley, Antarctica. *Bound.-Layer Meteorol.*, **51**(4), 321–342. (10.1007/BF00119672.)
- McKendry, I.G. and E.W.D. Lewthwaite. 1992. Summertime along-valley wind variations in the Wright Valley Antarctica. *Int. J. Climatol.*, **12**(6), 587–596. (10.1002/joc.3370120605.)
- McKenna, J., A.P.R. Cooper, P.L. Pulsifer, D.R.F. Taylor and H. Broolsma. 2004. Serving Antarctica: making topography available on the web. *XXVIII SCAR Open Science Conference, 26–28 July 2004, Bremen, Germany. Abstracts*. Cambridge, U.K., Scientific Committee on Antarctic Research, S15/O09.
- McKnight, D.M., E.W. Boyer, P.K. Westerhoff, P.T. Doran, T. Kulbe and D.T. Andersen. 2001. Spectrofluorometric characterization of dissolved organic matter for indication of precursor organic material and aromaticity. *Limnol. Oceanogr.*, **46**(1), 38–48. (10.4319/lo.2001.46.1.0038.)
- McKnight, D.M., M.N. Gooseff, W.F. Vincent and B.J. Peterson. 2008. Chapter 5. High latitude rivers and streams. In Vincent, W.F. and J. Laybourn-Parry, eds. *Polar lakes and rivers: limnology of Arctic and Antarctic aquatic ecosystems*. Oxford, Oxford University Press, 83–102.
- McLandress, C. and T.G. Shepherd. 2009. Simulated anthropogenic changes in the Brewer-Dobson circulation, including its extension to high latitudes. *J. Climate*, **22**(6), 1516–1540. (10.1175/2008JCLI2679.1.)
- McLandress, C., A.I. Jonsson, D.A. Plummer, M.C. Reader, J.F. Scinocca and T.G. Shepherd. 2010a. Separating the dynamical effects of climate change and ozone depletion. Part I: Southern Hemisphere stratosphere. *J. Climate*, **23**(18), 5002–5020. (10.1175/2010JCLI3586.1.)
- McLandress, C. *and 6 others* (A. Jonsson, D. Plummer, C. Reader, J. Scinocca, M. Sigmond and T. Shepherd). 2010b. Separating the effects of climate change and ozone depletion/recovery on the dynamics of the Southern Hemisphere troposphere and stratosphere. *Our Earth, our air, our water, our future. 44th Annual CMOS Congress, 36th Annual Scientific Meeting of CGU, 3rd Joint CMOS-CGU Congress, 31 May–4 June, Ottawa, Ontario. Congress abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society (CMOS), Abstract 3600, 24. (www_cmos.ca/CongressAbstracts/cong4410.pdf.)

- McLandress, C., T.G. Shepherd, J.F. Scinocca, D.A. Plummer, M. Sigmond, A.I. Jonsson and M.C. Reader. 2011a. Separating the dynamical effects of climate change and ozone depletion. Part II: Southern Hemisphere troposphere. *J. Climate*, **24**(6), 1850–1868. (10.1175/2010JCLI3958.1.)
- McLandress, C., A. Jonsson, D. Plummer, C. Reader, J. Scinocca, M. Sigmond and T.G. Shepherd. 2011b. Separating the effects of ozone depletion/recovery and climate change on the dynamics of the Southern Hemisphere stratosphere and troposphere. *91st Annual Meeting, 23–27 January 2011, Seattle, Washington*. Boston, MA, American Meteorological Society, Paper 187592. (<http://tinyurl.com/ntvv7cc>; <http://ams.confex.com/ams/91Annual/recordingredirect.cgi/id/16644>.)
- McLandress, C., T.G. Shepherd, S. Polavarapu and S.R. Beagley. 2012. Is missing orographic gravity wave drag near 60°S the cause of the stratospheric zonal wind biases in chemistry–climate models? *J. Atmos. Sci.*, **69**(3), 802–818. (10.1175/JAS-D-11-0159.1.)
- McLaren, I.A. and T.G. Smith. 1985. Population ecology of seals: retrospective and prospective views. *Mar. Mammal Sci.*, **1**(1), 54–83. (10.1111/j.1748-7692.1985.tb00531.x.)
- McLearn, N. 2003. Correlates of viral and bacterial abundances in Siberian and Antarctic permafrost M.Sc. thesis, Department of Earth and Ocean Sciences, University of British Columbia, Vancouver, B.C., vii + 58 pp. (https://circle.ubc.ca/bitstream/handle/2429/14326/ubc_2003-0492.pdf?sequence=1.)
- McLeod, D.J., G.W. Hosie, J.A. Kitchener, K.T. Takahashi and B.P.V. Hunt. 2010. Zooplankton Atlas of the Southern Ocean: the SCAR SO-CPR Survey (1991–2008). *Polar Sci.*, **4**(2), 353–385. (10.1016/j.polar.2010.03.004.)
- McMahon, J.J. and 52 others (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, G.P. Holder, T.M. Lanting, L. Shaw and K. Vanderlinde). 2010. SPTpol: an instrument for CMB polarization. In Young, B., A. Miller and B. Cabrera, eds. *The Thirteenth International Workshop on Low Temperature Detectors - LTD 13, 20–24 July 2009, Stanford, California*. New York, NY, etc., Springer. American Institute of Physics, 511–514. (AIP Conference Proceedings 1185.) (10.1063/1.3292391.)
- McMechan, G.A. 1981. Mantle P-wave velocity structure beneath Antarctica. *Bull. Seismol. Soc. Am.*, **71**(4), 1061–1074.
- McQueen, D.M., C.K. Scharnberger, L. Scharon and M. Halpern. 1972. Cambro-Ordovician paleomagnetic pole position and rubidium-strontium total rock isochron for charnockitic rocks from Mirnyy Station, East Antarctica. *Earth Planet. Sci. Lett.*, **16**(3), 433–438. (10.1016/0012-821X(72)90164-1.)
- McQuigge, M. 2007a. Canadian-owned tour ship sinking in Antarctic. *Bulletin [Kimberley]*, 23 November, 21.
- McQuigge, M. 2007b. Canadian-owned tour ship sinking in Antarctic. *Townsmen [Cranbrook]*, 23 November, 21.
- McQuigge, M. 2007c. Ship owned by Canadian tour group sinking in Antarctic after striking ice. *Whitehorse Star*, 23 November, 35.
- McWatters, R. and 6 others (including R.K. Rowe). 2012. Design, construction and monitoring of experimental containment cells for the treatment of fuel contaminated soil at Australia’s Casey Station in Antarctica. In Margesin, R. and F. Schinner, eds. *8th International Conference Contaminants in Freezing Ground (CFG8), 22–26 April 2012, Obergurgl/Tyrol, Austria. Programme and abstracts*. Innsbruck, University of Innsbruck. Institute of Microbiology, 39. (Abstract L23.)
- Mehta, D. 2008. Antarctic adventurers with a cause. *Globe & Mail [Toronto]*, 16 December, A.8.
- Meijer, Y.J. and 30 others (including S. Pal). 2004. Pole-to-pole validation of Envisat GOMOS ozone profiles using data from ground-based and balloon sonde measurements. *J. Geophys. Res.*, **109**(D23), D23305. (10.1029/2004JD004834.)
- Meiklejohn, I. and K. Hall. 1997. Aqueous geochemistry as an indicator of chemical weathering on southeastern Alexander Island, Antarctica. *Polar Geogr.*, **21**(2), 101–112. (10.1080/10889379709377620.)

- Meissner, K.J., E.D. Galbraith and C. Völker. 2005. Denitrification under glacial and interglacial conditions: a physical approach. *Paleoceanography*, **20**(3), PA3001. (10.1029/2004PA001083.)
- Meissner, K.J., M. Eby, A.J. Weaver and O.A. Saenko. 2008. CO₂ threshold for millennial-scale oscillations in the climate system: implications for global warming scenarios. *Climate Dyn.*, **30**(2–3), 161–174. (10.1007/s00382-007-0279-0.)
- Melchiorri, A. *and 24 others* (the BOOMERanG Collaboration that includes L. Miglio and C.B. Netterfield). 2000. A measurement of Ω from the North American test flight of Boomerang. *Astrophys. J. Lett.*, **536**(2), Part 2, L63–L66. (10.1086/312744.)
- Melling, H. 2012. Sea-ice observation: advances and challenges. In Lemke, P. and H.-W. Jacobi, eds. *Arctic climate change: the ACSYS decade and beyond*. Dordrecht, etc., Springer, 27–115. (Atmospheric and Oceanographic Sciences Library 43.) (10.1007/978-94-007-2027-5.)
- Mellish, J.-A.E., P.A. Tuomi, A.G. Hindle and M. Horning. 2010a. Chemical immobilization of Weddell seals (*Leptonychotes weddellii*) by ketamine/midazolam combination. *Vet. Anaesth. Analg.*, **37**(2), 123–131. (10.1111/j.1467-2995.2009.00517.x.)
- Mellish, J.E., A.G. Hindle and M. Horning. 2010b. A preliminary assessment of the impact of disturbance and handling on Weddell seals of McMurdo Sound, Antarctica. *Antarct. Sci.*, **22**(1), 25–29. (10.1017/S0954102009990447.)
- Mellish, J., P. Tuomi, A. Hindle, S. Jang and M. Horning. 2010c. Skin microbial flora and effectiveness of aseptic technique for deep muscle biopsies in Weddell seals (*Leptonychotes weddellii*) in McMurdo Sound, Antarctica. *J. Wildlife Dis.*, **46**(2), 655–658.
- Mellish, J.-A.E., A.G. Hindle and M. Horning. 2011. Health and condition in the adult Weddell seal of McMurdo Sound, Antarctica. *Zoology*, **114**(3), 177–183. (10.1016/j.zool.2010.11.007.)
- Menon, B., M. Edgecombe, K. Tue-Fee and I.F. Glen. 1986. *Manoeuvring tests in ice aboard USCGC Polar Star in Antarctica 1985*. Montréal, Que., Transport Canada. Transportation Development Centre. Report prepared by Arctec Canada Limited, October. (TDC Report TP-8297E.) (<http://tinyurl.com/8yfu7zf>.)
- Menzies, J. 1992. Book review. Quaternary of South America and Antarctic Peninsula (volume 7): edited by J. Rabassa. Balkema, Rotterdam, 1990, ISBN 90-6191-784-0, 374 pp. Price Dfl. 85.00. Hardcover. *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, **91**(1–2), 192–194. (10.1016/0031-0182(92)90051-6.)
- Menzies, J. 2012. Strain pathways, till internal architecture and microstructures – perspectives on a general kinematic model – a 'blueprint' for till development. *Quat. Sci. Rev.*, **50**, 105–124. (10.1016/j.quascirev.2012.07.012.)
- Menzies, J., J.S. Wellner and J.B. Anderson. 2006. Micromorphologic analysis of tills in the Ross Sea, Antarctica: demonstrating deformation and correlation to ice behavior. [Paper 214-2.] *Geol. Soc. Am. Abstr. Prog.*, **38**(7), 2006 Philadelphia Annual Meeting, 517. (<http://tinyurl.com/qep3d6q>.)
- Menzies, J., J.J.M. van der Meer, E. Domack and J.S. Wellner. 2010. Micromorphology: as a tool in the detection, analyses and interpretation of (glacial) sediments and man-made materials. *Proc. Geol. Assoc.*, **121**(3), 281–292. (10.1016/j.pgeola.2010.07.005.)
- Mercier, B., K. Lemarchand, G. Ferreyra and S. Moreau. 2008. Abundance and diversity of bacterioplankton in the western Antarctic Peninsula: a seasonal survey. *58th Annual Conference, Canadian Society of Microbiologists, 9–12 June 2008, Calgary. Program and Abstracts*. Calgary, Alta, University of Calgary. Department of Biological Sciences, Abstract A36, 61. (<http://tinyurl.com/nclwdqz>.)
- Merryfield, W.J., Jr., G. Holloway and A.E. Gargett. 1999. Global ocean model with double-diffusive mixing. *J. Phys. Oceanogr.*, **29**(6), 1124–1142. (<http://tinyurl.com/njz9v58>.)

- Meshik, A.P., O.V. Pravdivtseva, C.M. Hohenberg and Y.u. Amelin. 2004. The iodine-xenon system in outer and inner portions of chondrules from the unnamed Antarctic LL3 chondrite. *Chondrites and the Protoplanetary Disk. Workshop on Chondrites and the Protoplanetary Disk, 8–11 November 2004, Kaula 'i, Hawai 'i. Abstracts*. Houston, TX, Lunar and Planetary Institute, Abstract 9080, CD-ROM. (LPI Contribution No.1218.) (www.lpi.usra.edu/meetings/chondrites2004/pdf/9080.pdf)
- Meures, T., L. Paul, M. Ribordy and for the IceCube Collaboration. 2012. Research and calibration of acoustic sensors in ice within the SPATS (South Pole Acoustic Test Setup) project. *Nucl. Instrum. Meth. Phys. Res. A*, **662**, Suppl. 1, S230–S233. (the IceCube Collaboration (that includes D. Grant, S.C. Nowicki and T.R. Wood.) (10.1016/j.nima.2010.10.124.)
- Mienert, J. and D.C. Nobes. 1991. Chapter 36. Physical properties of sediments beneath Polar Front upwelling regions in the Subantarctic South Atlantic (Hole 704A). In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 114. Subantarctic South Atlantic*. College Station, TX, Texas A & M University. Ocean Drilling Program, February, 671–683. (10.2973/odp.proc.sr.114.158.1991.)
- Mikucki, J.A., S.K. Han and B.D. Lanoil. 2011. Chapter 6.1. Ecology of psychrophiles: subglacial and permafrost environments. In Horikoshi, K., ed. *Extremophiles Handbook, Vol. 2*. Tokyo, etc., Springer, 755–775. (10.1007/978-4-431-53898-1_37.)
- Milan, S.E. and 6 others (including G. Sofko). 2001. The excitation of convection in the cusp region as observed by the SuperDARN radars. *Adv. Space Res.*, **27**(8), 1373–1376. (10.1016/S0273-1177(01)00028-X.)
- Mill, H.R. and 6 others (including Sir C.S. Wright). 1925. The Ross Barrier and the mechanism of ice movement: discussion. *Geogr. J.*, **65**(3), 213–220. (www.jstor.org/stable/1782888.)
- Miller, K.G. and 8 others (including W.R. Peltier). 2010. The high tide of the warm Pliocene: implications of ~20 m peak eustatic sea-levels for Antarctic deglaciation. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, PP12B-06, digital media. (www.agu.org/cgi-bin/wais?ss=PP12B-06.)
- Miller, K.G. and 9 others (including W.R. Peltier). 2012. High tide of the warm Pliocene: implications of global sea level for Antarctic deglaciation. *Geology*, **40**(5), 407–410. (10.1130/G32869.1.)
- Miller, L.A. and G.R. DiTullio. 2007. Chapter 5. Gas fluxes and dynamics in polynyas. In Smith, W., Jr. and D. Barber, eds. *Polynyas: windows to the world*. Amsterdam, Elsevier, 163–191. (Oceanography Series 74.) (10.1016/S0422-9894(06)74005-3.)
- Millman, P.M. 1970. Conjugate-point auroral studies at Byrd and Great Whale Stations. *Antarct. J. U.S.*, **4**(5), 231–232. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvIVn5/AJUSvIVn5p231a.pdf>.)
- Millman, P.M. 1971. Conjugate-point auroral studies at Byrd and Great Whale Stations. *Antarct. J. U.S.*, **6**(5), 224–225. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvVIn5/AJUSvVIn5p224.pdf>.)
- Mills, E.L. and R.R. Hessler. 1974. Antarctic benthic communities: Hudson '70 Expedition. *Antarct. J. U.S.*, **9**(6), 312–316. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvIXn6/AJUSvIXn6p312a.pdf>.)
- Mills, E.L. 1993. Book reviews. Southerly Enterprises. A History of Antarctic Science. G. E. FOGG. Cambridge University Press, New York, 1992. xxii, 483 pp., illus. \$89.95. Studies in Polar Research. *Science*, **260**(5111), 1175–1176. (10.1126/science.260.5111.1175-a.)
- Mills, M.M. and 9 others (including C.D. Payne and P. Tortell). 2010. Limitation of phytoplankton productivity in the Amundsen Sea by nitrogen. [Abstract.] *Eos, Trans. AGU*, **91**(26), Meet. Americas Suppl., BO15G-08. (www.agu.org/meetings/ja10/program/abstract-database.php?sel=1.)
- Mills Westermann, J.E., V. Pini and D.L. Barber. 1988. The structure of the lateral premaxillary spines of the Antarctic fish *Muraenolepis microps* Lönnberg, 1905 (Gadiformes). *Br. Ant. Surv. Bull.*, **81**, 31–41. (www.antarctica.ac.uk/documents/bas_bulletins/bulletin81_05.pdf.)

- Milne, A.R. 1978. Polar Oceans: a review. *Polar Rec.*, **19**(120), 323. (10.1017/S003224740001843X)
- Milne, G.A., J.X. Mitrovica and A.M. Forte. 1998. The sensitivity of glacial isostatic adjustment predictions to a low-viscosity layer at the base of the upper mantle: the inverse problem. *Earth Planet. Sci. Lett.*, **154**(1–4), 265–278. (10.1016/S0012-821X(97)00191-X.)
- Milne, G.A., W.R. Gehrels, C.W. Hughes and M.E. Tamisiea. 2009. Identifying the causes of sea-level change. *Nature Geosci.*, **2**(7), 471–478. (10.1038/ngeo544.)
- Min, S.-K. and S.-W. Son. 2012. Multi-model attribution of the Southern Hemisphere Hadley cell widening: CMIP3 and CMIP5 models. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, GC53A-1265, digital media. ([http://fallmeeting.agu.org/2012/.](http://fallmeeting.agu.org/2012/))
- Miranda-Filho, K.C. and 7 others (including T.L. Metcalfe and C.D. Metcalfe). 2007. Residues of persistent organochlorine contaminants in southern elephant seals (*Mirounga leonina*) from Elephant Island, Antarctica. *ES&T, Environ. Sci. Technol.*, **41**(11), 3829–3835. (10.1021/es0621187.)
- Miranda Filho, K.C. and 7 others (including C.D. Metcalfe and T.L. Metcalfe). 2009. Lactational transfer of PCBs and chlorinated pesticides in pups of southern elephant seals (*Mirounga leonina*) from Antarctica. *Chemosphere*, **75**(5), 610–616. (10.1016/j.chemosphere.2009.01.032.)
- Mitchell, E.D. 1989. A new cetacean from the late Eocene La Meseta Formation, Seymour Island, Antarctic Peninsula. *Can. J. Fish. Aquat. Sci.*, **46**(12), 2219–2235. (10.1139/f89-273.)
- Mitchell, H.L., C. Chouinard, C. Charette, R. Hogue and S.J. Lambert. 1996. Impact of a revised analysis algorithm on an operational data assimilation system. *Mon. Weather Rev.*, **124**(6), 1243–1255. (10.1175/1520-0493(1996)124<1243:IOARAA>2.0.CO;2.)
- Mitrovica, J.X. and W.R. Peltier. 1989. Pleistocene deglaciation and the global gravity field. *J. Geophys. Res.*, **94**(B10), 13,651–13,671. (10.1029/JB094iB10p13651.)
- Mitrovica, J.X. and W.R. Peltier. 1991. On postglacial geoid subsidence over the equatorial oceans. *J. Geophys. Res.*, **96**(B12), 20,053–20,071. (10.1029/91JB01284.)
- Mitrovica, J.X. and W.R. Peltier. 1993. Present-day secular variations in the zonal harmonics of Earth's geopotential. *J. Geophys. Res.*, **98**(B3), 4509–4526. (10.1029/92JB02700.)
- Mitrovica, J.X., R. Pan and A.M. Forte. 1994. Late Pleistocene and Holocene ice mass fluctuations and the Earth's precessional constant. *Earth Planet. Sci. Lett.*, **128**(3–4), 489–500. (10.1016/0012-821X(94)90165-1.)
- Mitrovica, J.X., M.E. Tamisiea, J.L. Davis and G.A. Milne. 2001. Recent mass balance of polar ice sheets inferred from patterns of global sea-level change. *Nature*, **409**(6823), 1026–1029. (10.1038/35059054.)
- Mitrovica, J.X. and B.L.A. Vermeersen. 2002. *Ice sheets, sea level and the dynamic Earth*. Washington, DC, American Geophysical Union. (Geodynamics Series 29.)
- Mitrovica, J.X., K. Letychev, M.E. Tamisiea, J. Tromp and G.A. Milne. 2004. GIA-Induced 3-D crustal velocities predicted using a new generation of viscoelastic Earth models. [Abstract G51A-08.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA132. (www.agu.org/meetings/sm04/waissm04.html.)
- Mitrovica, J.X., S.E. Bassett, P.U. Clark and G.A. Milne. 2005. Far-field post-glacial sea-level geometries as a probe of Antarctic ice history. [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., C11B-03. (www.agu.org/meetings/fm05/waisfm05.html.)
- Mitrovica, J.X., J. Wahr, I. Matsuyama, A. Paulson and M.E. Tamisiea. 2006. Reanalysis of ancient eclipse, astronomic and geodetic data: a possible route to resolving the enigma of global sea-level rise. *Earth Planet. Sci. Lett.*, **243**(3–4), 390–399. (10.1016/j.epsl.2005.12.029.)
- Mitrovica, J.X., N. Gomez and P.U. Clark. 2009. The sea-level fingerprint of West Antarctic collapse. *Science*, **323**(5915), 753. (10.1126/science.1166510.)

- Mitrovica, J.X., N. Gomez, E. Morrow, C. Hay, K. Latychev and M.E. Tamisiea. 2011. On the robustness of predictions of sea level fingerprints. *Geophys. J. Int.*, **187**(2), 729–742. (<http://tinyurl.com/obsom4x>.)
- Mitson, R.B., Y. Simard and C. Goss. 1996. Use of a two-frequency algorithm to determine size and abundance of plankton in three widely spaced locations. *ICES J. Mar. Sci.*, **53**(2), 209–215. (10.1006/jmsc.1996.0024.)
- Mittelstaedt, M. 2001. Antarctic may be on thin ice. *Globe & Mail [Toronto]*, 2 February, A.11.
- Mittelstaedt, M. 2002. Antarctic ice can melt fast, study shows. *Globe & Mail [Toronto]*, 29 March, A.7.
- Mittelstaedt, M. 2008. Antarctic ice sheet shrinking rapidly. *Globe & Mail [Toronto]*, 14 January, A.13.
- Miura, Y., J.C. Rucklidge, R.P. Beukens, K. Nagao and H. Koga. 1988a. Comparative study in cosmic-ray and terrestrial ages of Antarctic meteorites. *Thirteenth Symposium on Antarctic Meteorites, 7–9 June 1988, Tokyo, Japan. Abstracts*. Tokyo, National Institute of Polar Research, June, 92–94.
- Miura, Y., J. Rucklidge, R. Beukens and K. Nagao. 1988b. Cosmic-ray exposure and terrestrial ages of Antarctic meteorites. *51st Annual Meeting of the Meteoritical Society, 18–22 July 1988, Fayetteville, AR. Houston, TX, Lunar and Planetary Institute L-10*. (LPI Contribution 665.)
- Miura, Y., J. Rucklidge, R. Beukens and K. Nagao. 1988c. Cosmic-ray exposure and terrestrial ages of Antarctic meteorites. [Abstract.] *Meteoritics*, **23**(3), 51st Meet. Meteoritical Soc., 290. (<http://tinyurl.com/ngalaq7>.)
- Miura, Y., R.P. Beukens and J.C. Rucklidge. 1988d. Discussion of C-14 "weathering ages" of some Yamato and Allan Hills meteorites. *Thirteenth Symposium on Antarctic Meteorites, 7–9 June 1988, Tokyo, Japan. Abstracts*. Tokyo, National Institute of Polar Research, June, 95.
- Miura, Y., R.P. Beukens and J.C. Rucklidge. 1990a. ¹⁴C terrestrial, exposed and glacial ages of Antarctic meteorites. *Fifteenth Symposium on Antarctic Meteorites, 31 May–1 June 1990, Tokyo, Japan. Abstracts*. Tokyo, National Institute of Polar Research, 159–161.
- Miura, Y., R.P. Beukens and J.C. Rucklidge. 1990b. Carbon-14 terrestrial, exposed and glacial ages of Antarctic meteorites. [Abstract.] *Meteoritics*, **25**(4), 54th Annual Meteoritical Soc. Meet., 388. (10.1111/j.1945-5100.1990.tb00722.x.)
- Miura, Y., J. Rucklidge, R.P. Beukens and R.E. Cresswell. 1992. Glacial history from carbon-14 ages of Antarctic meteorites. *29th International Geological Congress, 24 September–3 August 1992, Kyoto, Japan. Abstracts, Vol. 3*. Kyoto, Japan, International Geological Congress, 635.
- Miura, Y., R.E. Cresswell, R.P. Beukens and J.C. Rucklidge. 1993a. ¹⁴C terrestrial ages of nine Antarctic meteorites using CO and CO₂ temperature extractions. *Eighteenth Symposium on Antarctic Meteorites, 31 May–2 June 1993, Tokyo, Japan. Abstracts*. Tokyo, National Institute of Polar Research, 232.
- Miura, Y., R.E. Cresswell, R.P. Beukens and J.C. Rucklidge. 1993b. AMS ¹⁴C ages of various Antarctic chondritic meteorites. *Eighteenth Symposium on Antarctic Meteorites, 31 May–2 June 1993, Tokyo, Japan. Abstracts*. Tokyo, National Institute of Polar Research, 232.
- Miyamoto, T., Y. Yoshimura, Y. Motoyoshi, E.S. Grew, D.J. Dunkley and C.J. Carson. 1997. Sm-Nd and Rb-Sr isotopic characters of metamorphic rocks from Howard Hills, East Antarctica. *Goldschmidt Conference Abstracts 2003. Thirteenth Annual V.M. Goldschmidt Conference, 7–12 September 2003, Kurashiki, Japan*. Cambridge, U.K., Cambridge Publications, A297. (<http://tinyurl.com/pojpmtly>.)
- Miyamoto, T., Y. Yoshimura, Y. Motoyoshi, E.S. Grew, D.J. Dunkley and C.J. Carson. 2003. Sm-Nd and Rb-Sr isotopic characters of metamorphic rocks from Howard Hills, East Antarctica. [Abstract.] *Geochim. Cosmochim. Acta*, **67**(18), Supplement, Goldschmidt Conference 2003, A297. (10.1016/S0016-7037(03)00510-6.)
- Miyamoto, T., Y. Yoshimura, K. Sato, Y. Motoyoshi, D.J. Dunkley and C.J. Carson. 2004. Occurrences of metamorphosed ultramafic rock and associating rocks in Howard Hills, Enderby Land, East Antarctica: evidence of partial melting from geochemical and isotopic characteristics. *Polar Geosci.*, **17**, 88–111. (<http://ci.nii.ac.jp/naid/110000978241>.)

- Mocellin, J.S.P. 1988. A behavioural study of human responses to the Arctic and Antarctic environments. Ph.D. thesis, Department of Psychology, University of British Columbia, Vancouver, B.C., ix + 239 pp. (https://circle.ubc.ca/bitstream/handle/2429/29024/UBC_1988_A1%20M62.pdf?sequence=1.)
- Mocellin, J.S.P. 1991. South American research on human behaviour in the Arctic and Antarctic. In Taylor, A.J.W., ed. *Symposium on Human Factors in Polar Psychology with some Implications for Space. 24th International Congress of Psychology, August 1988, Sydney, Australia*. Cambridge, U.K., University of Cambridge. Scott Polar Research Institute, 27–29. (SPRI Polar Symposia 1.)
- Mocellin, J.S.P. 1995. Levels of anxiety aboard two expeditionary ships. *J. Gen. Psychol.*, **122**(3), 317–324. (10.1080/00221309.1995.9921243.)
- Mocellin, J.S.P. and P. Suedfeld. 1991. Voices from the ice: diaries of polar explorers. *Environ. Behav.*, **23**(6), 704–722. (10.1177/0013916591236004.)
- Mocellin, J.S., P. Suedfeld, J.P. Bernadelz and M.E. Barbarito. 1991. Levels of anxiety in polar environments. *J. Environ. Psych.*, **11**(3), 265–275. (10.1016/S0272-4944(05)80187-2.)
- Momo, F., I. Schloss, G.A. Ferreyra and S. Demers. 2007. La interacción entre calentamiento global y radiación ultravioleta puede modificar el estado trófico de las comunidades pelágicas Antárticas: un modelo [The interaction between global warming and UVR may modify the trophic status of Antarctic pelagic communities: a model]. *Actas del VI° Simposio Argentino y III° Latinoamericano sobre Investigaciones Antárticas, 10–14 Septiembre 2007, Buenos Aires*. Buenos Aires, Dirección Nacional del Antártico. Instituto Antártico Argentino, Extended abstract CVCO304, CD-ROM. [In Spanish] (www.dna.gov.ar/CIENCIA/SANTAR07/CD/PDF/CVCO304.PDF.)
- Monahan, A.H. and J.C. Fyfe. 2008. On annular modes and zonal jets. *J. Climate*, **21**(9), 1963–1978. (10.1175/2007JCLI1841.1.)
- Montes-Hugo, M.A. and X. Yuan. 2012. Climate patterns and phytoplankton dynamics in Antarctic latent heat polynyas. *J. Geophys. Res.*, **117**(C5), C05031. (printed **117**(C8), 2012.) (10.1029/2010JC006597.)
- Montreal Antarctic Society. 1996a. Canadians in Antarctica. *Seventh Continent [Montréal]*, **2**, 5–8. (Interview with Rowena Rowe.)
- Montreal Antarctic Society. 1996b. Montreal penguins. *Seventh Continent [Montréal]*, **2**, 4–5. (Interview with Serge Pépin.)
- Montreal Antarctic Society. 1996c. Novel ideas. *Seventh Continent [Montréal]*, **2**, 8.
- Montreal Antarctic Society. 1996d. Penguin patter. *Seventh Continent [Montréal]*, **2**, 2.
- Montreal Antarctic Society. 1996e. Vostok – lost loch found. *Seventh Continent [Montréal]*, **2**, 1.
- Montreal Antarctic Society. 1996f. Whither Antarctica? Feeling the financial pinch. *Seventh Continent [Montréal]*, **2**, 1–2.
- Montreal Antarctic Society. 1997a. California penguins. *Seventh Continent [Montréal]*, **3**, 7.
- Montreal Antarctic Society. 1997b. Canada and Antarctic science. *Seventh Continent [Montréal]*, **4**, 1.
- Montreal Antarctic Society. 1997c. Canada and the Antarctic Environmental Protocol. *Seventh Continent [Montréal]*, **3**, 1–2. (Includes interview with Olav Løken.)
- Montreal Antarctic Society. 1997d. Canadian scientists in Antarctica: notes from the field. *Seventh Continent [Montréal]*, **3**, 9–11. (Interview with Kathy Conlan and Peter Doran.)
- Montreal Antarctic Society. 1997e. Canadian scientists in Antarctica: notes from the field. *Seventh Continent [Montréal]*, **4**, 5–7. (Interview with Paul Langevin.)
- Montreal Antarctic Society. 1997f. Canadian scientists in Antarctica: notes from the field. *Seventh Continent [Montréal]*, **4**, 8–10. (Interview with Caren Garrity.)

- Montreal Antarctic Society. 1997g. Canadian scientists in Antarctica: notes from the field. *Seventh Continent [Montréal]*, **4**, 11–13. (Interview with William Cochlan from Powell River, BC, working in US.)
- Montreal Antarctic Society. 1997h. Cool reading. *Seventh Continent [Montréal]*, **3**, 11–12. (Includes books by Gareth Wood and Crawford Kilian.)
- Montreal Antarctic Society. 1997i. Cool reading. *Seventh Continent [Montréal]*, **4**, 15–16. (Includes books by Wayne Lynch and Madelene Ferguson Allen.)
- Montreal Antarctic Society. 1997j. La Georgie du Sud au cinéma / South Georgia on film. *Seventh Continent [Montréal]*, **3**, 6, 8.
- Montreal Antarctic Society. 1997k. Penguin patter. *Seventh Continent [Montréal]*, **3**, 3–4.
- Montreal Antarctic Society. 1997l. Penguin patter. *Seventh Continent [Montréal]*, **4**, 2–4.
- Montreal Antarctic Society. 1997m. Poles apart: a study in contrasts. *Seventh Continent [Montréal]*, **4**, 14.
- Montreal Antarctic Society. 1997n. Science under the microscope: some comments, long and short. *Seventh Continent [Montréal]*, **4**, 5.
- Montreal Antarctic Society. 1997o. Tourism in the Antarctic. *Seventh Continent [Montréal]*, **3**, 8.
- Montreal Antarctic Society. 1997p. Trekking to the South Pole. Bernard Voyer – one year later / Odysée vers le Pôle Sud. Bernard Voyer – un an plus tard. *Seventh Continent [Montréal]*, **3**, 5–6. (Report on trip by Bernard Voyer and Thierry Pétry.)
- Montreal Antarctic Society. 1998a. ♪♪ Sound ideas ♪♪. *Seventh Continent [Montréal]*, **6**, 15–16.
- Montreal Antarctic Society. 1998b. A feast of firsts. *Seventh Continent [Montréal]*, **6**, 4–5.
- Montreal Antarctic Society. 1998c. Antarctic experienced through music. *Seventh Continent [Montréal]*, **5**, 16–18.
- Montreal Antarctic Society. 1998d. Canada's polar science. *Seventh Continent [Montréal]*, **6**, 1.
- Montreal Antarctic Society. 1998e. Canadian scientists in Antarctica: notes from the field. *Seventh Continent [Montréal]*, **6**, 5–6. (Interview with Kevin Hall.)
- Montreal Antarctic Society. 1998f. Canadian scientists in Antarctica: notes from the field. *Seventh Continent [Montréal]*, **5**, 12–13. (Interview with Jack Terhune.)
- Montreal Antarctic Society. 1998g. Canadian scientists in Antarctica: notes from the field. *Seventh Continent [Montréal]*, **5**, 14–16. (Interview with Wayne Pollard.)
- Montreal Antarctic Society. 1998h. Cool reading. *Seventh Continent [Montréal]*, **5**, 18–20.
- Montreal Antarctic Society. 1998i. Cool reading. *Seventh Continent [Montréal]*, **6**, 16–20.
- Montreal Antarctic Society. 1998j. Inexpressible Island. *Seventh Continent [Montréal]*, **6**, 1–2. (Report on play by David Young.)
- Montreal Antarctic Society. 1998k. Penguin patter. *Seventh Continent [Montréal]*, **5**, 9–11.
- Montreal Antarctic Society. 1998l. Penguin patter. *Seventh Continent [Montréal]*, **6**, 2–4.
- Montreal Antarctic Society. 1998m. Penguin place. *Seventh Continent [Montréal]*, **6**, 13–15.
- Montreal Antarctic Society. 1998n. The "Belgica" Antarctica Expedition Centennial Symposium. *Seventh Continent [Montréal]*, **6**, 6–7.
- Montreal Antarctic Society. 1998o. Tourism in Antarctica: a ship lecturer's viewpoint. *Seventh Continent [Montréal]*, **6**, 8–13.
- Montreal Antarctic Society. 1999a. ♪♪ Sound ideas ♪♪. *Seventh Continent [Montréal]*, **7**, 17–18.
- Montreal Antarctic Society. 1999b. ♪♪ Sound ideas ♪♪. *Seventh Continent [Montréal]*, **8**, 18–19.

- Montreal Antarctic Society. 1999c. Antarctic summit. *Seventh Continent [Montréal]*, 7, 1–2. (Quotes from Fisheries Minister D. Anderson.)
- Montreal Antarctic Society. 1999d. Antarctic tribute. *Seventh Continent [Montréal]*, 8, 1.
- Montreal Antarctic Society. 1999e. Canadian scientists in Antarctica: notes from the field. *Seventh Continent [Montréal]*, 7, 3–5. (Interview with Frank Zemlyak.)
- Montreal Antarctic Society. 1999f. Canadian scientists in Antarctica: the anticipation. *Seventh Continent [Montréal]*, 8, 9–12. (Interview with Patrick Abgrall.)
- Montreal Antarctic Society. 1999g. Cool reading. *Seventh Continent [Montréal]*, 7, 18–20. (Includes book by Sean Rossiter.)
- Montreal Antarctic Society. 1999h. Cool reading. *Seventh Continent [Montréal]*, 8, 19–20. (Includes book by James de Mille.)
- Montreal Antarctic Society. 1999i. J. Shackleton in Montreal. *Seventh Continent [Montréal]*, 8, 2.
- Montreal Antarctic Society. 1999j. Penguin patter. *Seventh Continent [Montréal]*, 7, 2–3.
- Montreal Antarctic Society. 1999k. Penguin patter. *Seventh Continent [Montréal]*, 8, 2.
- Montreal Antarctic Society. 1999l. The Endurance – Shackleton's Legendary Antarctic Expedition, American Museum of Natural History, New York, April – October 11, 1999. *Seventh Continent [Montréal]*, 8, 1–2.
- Montreal Antarctic Society. 1999m. They said it. *Seventh Continent [Montréal]*, 8, 2–4.
- Montreal Antarctic Society. 1999n. Working in Antarctica: notes from the field / Travailleur en Antarctique: un conte rendu. *Seventh Continent [Montréal]*, 8, 4–9. (Interview with Philippe Terrier.)
- Montreal Antarctic Society. 2000a. ♪♪ Sound ideas ♪♪. *Seventh Continent [Montréal]*, 9, 16–17.
- Montreal Antarctic Society. 2000b. ♪♪ Sound ideas ♪♪. *Seventh Continent [Montréal]*, 10, 16–18.
- Montreal Antarctic Society. 2000c. Antarctic domains. *Seventh Continent [Montréal]*, 10, 16.
- Montreal Antarctic Society. 2000d. Antarctic exhibition in Ottawa: that sweep of savage splendour. *Seventh Continent [Montréal]*, 10, 1.
- Montreal Antarctic Society. 2000e. Canadian scientists in Antarctica: notes from the field. *Seventh Continent [Montréal]*, 10, 13–16. (Interview with Valérie Villeneuve.)
- Montreal Antarctic Society. 2000f. Canadian youth statement on Antarctica – January 2001. *Seventh Continent [Montréal]*, 10, 1–3.
- Montreal Antarctic Society. 2000g. Cool reading. *Seventh Continent [Montréal]*, 9, 18–20. (Includes books by Joseph MacDowall, and Rand and Rose Flem-Ath.)
- Montreal Antarctic Society. 2000h. Cool reading. *Seventh Continent [Montréal]*, 10, 18–20.
- Montreal Antarctic Society. 2000i. Penguin patter. *Seventh Continent [Montréal]*, 9, 7–9.
- Montreal Antarctic Society. 2000j. Penguin patter. *Seventh Continent [Montréal]*, 10, 10–13.
- Montreal Antarctic Society. 2000k. They said it – from the Press. *Seventh Continent [Montréal]*, 9, 4–7.
- Montreal Antarctic Society. 2000l. They said it – from the Press. *Seventh Continent [Montréal]*, 10, 3–10.
- Montreal Antarctic Society. 2000m. Working in Antarctica: notes from the field. *Seventh Continent [Montréal]*, 9, 9–10. (Interview with Sean Loutitt of Calgary-based Ken Borek Air.)
- Montreal Antarctic Society. 2001a. ♪♪ Sound ideas ♪♪. *Seventh Continent [Montréal]*, 11, 18–19.
- Montreal Antarctic Society. 2001b. ♪♪ Sound ideas ♪♪. *Seventh Continent [Montréal]*, 12, 18–19.

- Montreal Antarctic Society. 2001c. Antarctic Environmental Protocol. *Seventh Continent [Montréal]*, **12**, 1–2. (Comment from David Anderson, Minister of Environment, on AEP.)
- Montreal Antarctic Society. 2001d. Canadian scientists in Antarctica: notes from the field. *Seventh Continent [Montréal]*, **11**, 8–10. (Interview with Evonne Tang.)
- Montreal Antarctic Society. 2001e. Cool reading. *Seventh Continent [Montréal]*, **11**, 20.
- Montreal Antarctic Society. 2001f. Cool reading. *Seventh Continent [Montréal]*, **12**, 19–20.
- Montreal Antarctic Society. 2001g. Fathom Expeditions Inc. *Seventh Continent [Montréal]*, **12**, 13–15. (Interview with David German.)
- Montreal Antarctic Society. 2001h. Montreal Antarctic News. *Seventh Continent [Montréal]*, **11**, 1. (Report on honour to B. Voyer.)
- Montreal Antarctic Society. 2001i. They said it – from the Press. *Seventh Continent [Montréal]*, **11**, 1–8.
- Montreal Antarctic Society. 2001j. They said it – from the Press. *Seventh Continent [Montréal]*, **12**, 4–12.
- Montreal Antarctic Society. 2003a. ♪♪ Sound ideas ♪♪ *Seventh Continent [Montréal]*, **13**, 18–19.
- Montreal Antarctic Society. 2003b. Antarctica – a book or a tome? *Seventh Continent [Montréal]*, **13**, 5–9. (Interview with Pat and Rosemarie Keough.)
- Montreal Antarctic Society. 2003c. Cool reading. *Seventh Continent [Montréal]*, **13**, 20. (Includes book by Ken Pawson.)
- Montreal Antarctic Society. 2003d. Gordon Dreger – GLP Worldwide Expedition Travel & Tours. *Seventh Continent [Montréal]*, **13**, 9–10. (Interview with Gordon Dreger.)
- Montreal Antarctic Society. 2003e. Students on Ice – Antarctica 2002. *Seventh Continent [Montréal]*, **13**, 1–2. (Interview with Geoff Green and Angela Holmes.)
- Montreal Antarctic Society. 2003f. The filming of Students on Ice. *Seventh Continent [Montréal]*, **13**, 3–5. (Interview with Mark Molaro and Adam Townsend.)
- Montreal Antarctic Society. 2003g. They said it – from the Press. *Seventh Continent [Montréal]*, **13**, 10–18.
- Montresor, M., C. Lovejoy, L. Orsini, G. Procaccini and S. Roy. 2003. Bipolar distribution of the cyst-forming dinoflagellate, *Polarella glacialis*. *Polar Biol.*, **26**(3), 186–194. (10.1007/s00300-002-0473-9.)
- Montroy, T. and 40 others (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, C. MacTavish, C.B. Netterfield, E. Pascale and D. Pogosyan). 2003. Measuring CMB polarization with Boomerang. *New Astron. Rev.*, **47**(11–12), 1057–1065. (10.1016/j.newar.2003.09.011.)
- Montroy, T.E. and 36 others (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, C. MacTavish, C.B. Netterfield, E. Pascale and D. Pogosyan). 2006. A measurement of the CMB (EE) spectrum from the 2003 flight of BOOMERANG. *Astrophys. J.*, **647**(2), Part 1, 813–822. (10.1086/505560.)
- Moore, K., K. Alverson and I. Renfrew. 1999. Reconstruction of the air sea interaction associated with the Weddell polynya. [Abstract OS41A-16.] *Eos, Trans. AGU*, **80**(46), Fall Meet. Suppl., F552. (www.agu.org/meetings/fm99/waisfm99.html.)
- Moore, G.W.K., K. Alverson and I. Renfrew. 2001. A reconstruction of the air–sea interaction associated with the Weddell polynya. In Deming, J., ed. *Polynyas in Changing Polar Seas, International Polynya Symposium 2001 (IPS 2001), 9–13 September 2001, Québec, Québec. Abstracts*. Québec, Qué., Arctic Ocean Science Board (AOSB). International Arctic Polynya Program (IAPP), 17.
- Moore, G.W.K., K. Alverson and I.A. Renfrew. 2002. A reconstruction of the air–sea interaction associated with the Weddell Polynya. *J. Phys. Oceanogr.*, **32**(6), 1685–1698. (<http://tinyurl.com/ngb4odm>.)

- Moore, M.J. *and 7 others* (including R. Sears). 1999. Relative abundance of large whales around South Georgia (1979–1998). *Mar. Mammal Sci.*, **15**(4), 1287–1302. (10.1111/j.1748-7692.1999.tb00891.x.)
- Moore, T.S. *and 6 others* (including R.C. Hamme). 2010. Depth integrated CO₂ and O₂ in the Southern Ocean during the austral fall, 2008. [Abstract.] *Eos, Trans. AGU*, **91**(26), Ocean Sci. Meet. Suppl., IT45L-12. (www.agu.org/meetings/os10/waisos10.html.)
- Moore, T.S. *and 7 others* (including R.C. Hamme and R.A. Feely). 2011. Sea surface pCO₂ and O₂ in the Southern Ocean during the austral fall, 2008. *J. Geophys. Res.*, **116**, Special Section, C00F11. (10.1029/2010JC006560)
- Moors, H.B. 2003. Repetition patterns within harp seal (*Pagophilus groenlandicus*) and Weddell seal (*Leptonychotes weddellii*) underwater calls. Honours thesis, Department of Biology, University of New Brunswick, Saint John, N.B., x + 65 pp.
- Moors, H.B. and J.M. Terhune. 2004. Repetition patterns in Weddell seal (*Leptonychotes weddellii*) underwater multiple element calls. *J. Acoust. Soc. Am.*, **116**(2), 1261–1270. (10.1121/1.1763956.)
- Moors, H.B. and J.M. Terhune. 2005. Calling depth and time and frequency attributes of harp (*Pagophilus groenlandicus*) and Weddell (*Leptonychotes weddellii*) seal underwater vocalizations. *Can. J. Zool.*, **83**(11), 1438–1452. (10.1139/z05-135.)
- Moran, S.B., R.M. Moore and S. Westerlund. 1992. Dissolved aluminum in the Weddell Sea. *Deep-Sea Res. A*, **39**(3–4), 537–547. (10.1016/0198-0149(92)90087-A.)
- Moran, S.B., C.-C. Shen, H.N. Edmonds, S.E. Weinstein, J.N. Smith and R.L. Edwards. 2002. Dissolved and particulate ²³¹Pa and ²³⁰Th in the Atlantic Ocean: constraints on intermediate/deep water age, boundary scavenging, and ²³¹Pa/²³⁰Th fractionation. *Earth Planet. Sci. Lett.*, **203**(3–4), 999–1014. (10.1016/S0012-821X(02)00928-7.)
- Morantz, A. 2002. Book review: *Antarctica*, by Pat and Rosemarie Keough. *CARN Newsl.*, **14**, 12–13. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/14.pdf.)
- Moreau, S., B. Mercier, K. Lemarchand, S. Demers and G. Ferreyra. 2008. Seasonal variability of the marine microbial community in the Western Antarctic Peninsula during a very low ozone and ice cover year. *Québec–Océan, 7e Assemblée Générale Annuelle, 27–28 novembre 2008, Rivière du Loup. Programme*. Québec, Qué., Université Laval, poster presentation. (http://tinyurl.com/llxcrz7.)
- Moreau, S., B. Mercier, K. Lemarchand, S. Demers, B. Mostajir and G.A. Ferreyra. 2009a. Microbial food web functioning in the western Antarctic Peninsula under global change: a review and an example from a very low ozone and ice cover year (2006). *ASLO Aquatic Science Meeting 2009, 25–30 January 2009, Nice, France. Program and abstracts*. Waco, TX, American Society of Limnology and Oceanography, Abstract 5861, digital media. (www.sgmeet.com/aslo/nice2009/viewabstract2.asp?AbstractID=5861.)
- Moreau, S., G.A. Ferreyra and S. Demers. 2009b. *Sedna IV* mission in the western Antarctic Peninsula: first results from the winter 2006. *CARN Newsl.*, **27**, 10–12. (http://tinyurl.com/8y47r87.)
- Moreau, S. *and 9 others* (G.A. Ferreyra, B. Mercier, K. Lemarchand, M. Lionard, S. Roy, B. Mostajir, S. Roy, B. van Hardenberg and S. Demers). 2010. Variability of the microbial community in the western Antarctic Peninsula from late fall to spring during a low ice cover year. *Polar Biol.*, **33**(12), 1599–1614. (10.1007/s00300-010-0806-z.)
- Moreau, S. *and 6 others* (including I.R. Schloss, S. Demers and G.A. Ferreyra). 2012a. Influence of microbial community composition and metabolism on air–sea ΔpCO₂ variation off the western Antarctic Peninsula. *Mar. Ecol. Progr. Ser.*, **446**, 45–59. (10.3354/meps09466.)
- Moreau, S. *and 7 others* (including I.R. Schloss, S. Demers and G.A. Ferreyra). 2012b. The potential role of microbial community composition and metabolism in air–sea ΔpCO₂ variation in the western Antarctic Peninsula and the Weddell Sea. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 2011, digital media. (http://tinyurl.com/pl5hkyo.)

- Moreau, V. 2004. Antarctic adventure. *Times Colonist [Victoria]*, 21 March, C.9.
- Morel, P. and E. Irving. 1978. Tentative paleocontinental maps for the early Phanerozoic and Proterozoic. *J. Geol.*, **86**(5), 535–561. (www.jstor.org/stable/30060679.)
- Morgan, R.M., A.G. Ivanov, J.C. Priscu, D.P. Maxwell and N.P.A. Hüner. 1998. Structure and composition of the photochemical apparatus of the Antarctic green alga, *Chlamydomonas subcaudata*. *Photosyn. Res.*, **56**(3), 303–314. (10.1023/A:1006048519302.)
- Morgan-Kiss, R.M. 2000. Functional and structural characterization of the photosynthetic apparatus of the Antarctic green alga, *Chlamydomonas subcaudata*. Ph.D. thesis, Department of Plant Sciences, University of Western Ontario, London, Ont., xxii + 266 pp. (<http://tinyurl.com/q5182b8>.)
- Morgan-Kiss, R., A.G. Ivanov, J. Williams, M. Khan and N.P.A. Hüner. 2002a. Differential thermal effects on the energy distribution between photosystem II and photosystem I in thylakoid membranes of a psychrophilic and a mesophilic alga. *BBA Biomembranes*, **1561**(2), 251–265. (10.1016/S0005-2736(02)00352-8.)
- Morgan-Kiss, R.M., A.G. Ivanov and N.P.A. Hüner. 2002b. The Antarctic psychrophile, *Chlamydomonas subcaudata*, is deficient in state I-state II transitions. *Planta*, **214**(3), 435–445. (10.1007/s004250100635.)
- Morgan-Kiss, R.M., A.G. Ivanov, T. Pocock, M. Król, L. Gudynaite-Savitch and N.P. Hüner. 2005. The Antarctic psychrophile, *Chlamydomonas raudensis* Ettl (UWO241) (Chlorophyceae, Chlorophyta), exhibits a limited capacity to photoacclimate to red light. *J. Phycol.*, **41**(4), 791–800. (10.1111/j.1529-8817.2005.04174.x.)
- Morgan-Kiss, R.M., J.C. Priscu, T. Pocock, L. Gudynaite-Savitch and N.P.A. Hüner. 2006. Adaptation and acclimation of photosynthetic microorganisms to permanently cold environments. *Microbiol. Mol. Biol. Rev.*, **70**(1), 222–252. (10.1128/MMBR.70.1.222-252.2006.)
- Morgan-Kiss, R., A. Ivanov, T. Hanson, N. Hüner and J. Priscu. 2008a. Differential acclimatory abilities and adaptive strategies between two Antarctic photopsychrophiles. *3rd International Conference on Polar and Alpine Microbiology, Banff, Alberta, Canada, 11–15 May 2008. Program & abstracts*. Edmonton, Alta., University of Alberta. Department of Biological Sciences, Abstract S10-1, 21. (<http://tinyurl.com/lvk2qfn>.)
- Morgan-Kiss, R.M. and 7 others (including A.G. Ivanov and N.P.A. Hüner). 2008b. Identity and physiology of a new psychrophilic eukaryotic green alga, *Chlorella* sp., strain BI, isolated from a transitory pond near Bratina Island, Antarctica. *Extremophiles*, **12**(5), 701–711. (10.1007/s00792-008-0176-4.)
- Morris, H. 2007. 150 flown out after Antarctic shipwreck: vacationers given option to head home. *Gazette [Montréal]*, 25 November, A.8.
- Morrison, J.O., J. Veizer, U. Brand and W.J. Zinsmeister. 1991. A non-boundary event: the Cretaceous–Tertiary marine invertebrates of Seymour Island, Antarctica. *Geol. Soc. Am. Abstr. Prog.*, **23**(5), 1991 San Diego Annual Meeting, 183–184.
- Mostajir, B.J., S. Demers, S.J. De Mora, R.P. Bukata and J.H. Jerome. 2000. Chapter 11. Implications of UV radiation on the food web structure and consequences on the carbon flow. In De Mora, S., S. Demers and M. Vernet, eds. *The effects of UV radiation in the marine environment*. Cambridge, U.K., Cambridge University Press, 310–320. (Environmental Chemistry Series 10.) (10.1017/CBO9780511535444.012.)
- Mudroch, P. 2011. The Antarctic Environmental Protection Act. *CARN Newsl.*, **30**, 15. (<http://tinyurl.com/6r7q3sl>.)
- Mueller, D. 2001. A bipolar comparison of glacial cryoconite ecosystems. M.Sc. thesis, McGill University, Montréal, Que., vi + 115 pp.
- Mueller, D.R. and W.H. Pollard. 2004. Gradient analysis of cryoconite ecosystems from two polar glaciers. *Polar Biol.*, **27**(2), 66–74. (10.1007/s00300-003-0580-2.)
- Mueller, D.R., W.F. Vincent, W.H. Pollard and C.H. Fritsen. 2001. Glacial cryoconite ecosystems: a bipolar comparison of algal communities and habitats. *Nova Hedwigia Beihefte*, **123**, 2001, 173–197.

- Mueller, P.A., M.R. Perfit, A.L. Heatherington, P.D. Kirk and E. Schandl. 1992. Geochemical and tectonic implications of igneous rocks from ODP leg 114, sub-antarctic South Atlantic. *Geo-Mar. Lett.*, **12**(4), 214–222. (10.1007/BF02091841.)
- Mueller, R.D. and W.R. Roest. 1995. Seafloor spreading: a tug of war in equilibrium. [Abstract T41F-9.] *Eos, Trans. AGU*, **76**(46), Fall Meet. Suppl., F612.
- Muir, D.C.G. and 9 others (including H. Karlsson, G.A. Stern and J.P. Ludwig). 2002. Toxaphene and other persistent organochlorine pesticides in three species of albatrosses from the north and south Pacific Ocean. *Environ. Toxicol. Chem.*, **21** (2), 413–423. (10.1002/etc.5620210226.)
- Muir, D.C.G. and N.L. Rose. 2004. Lake sediments as records of Arctic and Antarctic pollution. In Pienitz, R., M.S.V. Douglas and J.P. Smol, eds. *Long-term environmental change in Arctic and Antarctic lakes*. Berlin, etc., Springer-Verlag, 209–239. (Developments in Paleoenvironmental Research 8.) (10.1007/978-1-4020-2126-8_8.)
- Mukasa, S.B., G. Ravizza, J. Bédard, T. Fleming, A. Boudreau and B.D. Marsh. 2005. Basement sill of the Jurassic Ferrar Large Igneous Province, Antarctica: constraints from its PGE abundance patterns on magma source characteristics and crystallization processes. [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., V14C-08. (www.agu.org/meetings/fm05/waisfm05.html.)
- Mukasa, S.B. and 6 others (including J.H. Bédard). 2006. PGE abundance patterns for the basement sill and Dufek intrusion, Ferrar large igneous province, Antarctica. [Abstract.] *Geochim. Cosmochim. Acta*, **70**(18), Supplement, Goldschmidt Conference 2006, A434. (10.1016/j.gca.2006.06.871.)
- Mukasa, S.B. and 6 others (including J. Bédard). 2007. Dufek layered mafic intrusion and basement sill, Antarctica: constraints on their magma sources based on PGE abundance patterns, Nd-Sr-Pb isotopic ratios and trace element modeling. [Abstract.] *Eos, Trans. AGU*, **88**(52), Fall Meet. Suppl., V53D-03. (www.agu.org/meetings/fm07/waisfm07.html.)
- Mulder, C. and 14 other (including A.L. Gonzálezs). 2012. Distributional (in)congruence of biodiversity–ecosystem functioning. *Adv. Ecol. Res.*, **46**, 1–88. (10.1016/B978-0-12-396992-7.00001-0.)
- Müller-Wille, L. 1996. Book review. Before the Heroes Came: Antarctica in the 1890s by T. H. Baughman. *Scand. Stud.*, **68**(4), 501–502.
- Mumford, K. and 9 others (including R. McWatters). 2012. Remediation of a hydrocarbon contaminated site in Antarctica. In Margesin, R. and F. Schinner, eds. *8th International Conference Contaminants in Freezing Ground (CFG8), 22–26 April 2012, Obergurgl/Tyrol, Austria. Programme and abstracts*. Innsbruck, University of Innsbruck. Institute of Microbiology, 40. (Abstract L24.)
- Munn, F. 1992a. Antarctic trip offered on Canadian ship. *Vancouver Sun*, 19 September, E.2.
- Munn, F. 1992b. From Labrador to the southern ice; Antarctic cruises new venture for Canadian ship. *Ottawa Citizen*, 19 September, L.6.
- Munn, F. 1992c. Winter cruise goes way down. Canadian operators link up to offer Antarctic cruises south. *Kitchener-Waterloo Rec.*, 19 September, H.6.
- Munro, D.S. 2005. Katabatic (gravity) winds. In Oliver, J.E., ed. *Encyclopedia of world climatology*. Dordrecht, etc., Springer, 440. (Encyclopedia of Earth Sciences Series.)
- Munro, M. 1999. Oasis opens in the heart of the Antarctic ice: natural phenomenon: the polynya is a 100,000-sq.-km hole made by hot water. *Natl. Post [Don Mills]*, A.17.
- Munro, M. 2004a. Antarctic glaciers melt faster than expected. *Calgary Herald*, A.8.
- Munro, M. 2004b. Canadian satellite charts accelerated Antarctic ice breakup. *Gazette [Montréal]*, 22 September, A.15.
- Munro, M. 2004c. Queen's geographer credits 'serendipity' for discovery of undersea volcano in Antarctica. *Ottawa Citizen*, 21 May, A.2.

- Munro, M. 2005. Antarctic ice proves air carries more CO₂: greenhouse gases soared in last two centuries. *Windsor Star*, 25 November, D.10.
- Munro, M. 2009a. Antarctic ice melt could shift Earth's rotation, study says. *Bulletin [Kimberley]*, 6 February, 16.
- Munro, M. 2009b. Ice melt may shift earth's rotation; West Antarctic ice sheet collapse would boost ocean levels. *Nanaimo Daily News*, 6 February, A.8.
- Munro, M. 2009c. Massive rise in sea levels forecast; 1.2 metres is the federal government's expectation; scientists predict 6 metres if West Antarctic ice sheet melts. *Vancouver Sun*, 6 February, B.3.
- Munro, M. 2009d. Melt of West Antarctic Ice Sheet could shift Earth's axis. *Edmonton J.*, A.4.
- Munro, M. 2009e. Melting Antarctic 'to shift' rotation of the Earth; Ice sheet's collapse to cause huge rise in North American sea levels, study. *Ottawa Citizen*, 6 February, A.4.
- Munro, M. 2011. Ozone hole prime player in climate change: alters wind patterns, increases rain from Antarctic to the equator, study finds. *Vancouver Sun*, 22 April, B.5.
- Murray, A. and 7 others (including C. Lovejoy). 2012. Comparisons between bacterioplankton from the Southern Ocean and Arctic Ocean provide perspective on distinctiveness of polar marine systems. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_26.pdf.)
- Murray, B.W., J.Y. Wang, S.-C. Yang, J.D. Stevens, A. Fisk and J. Svavarsson. 2008. Mitochondrial cytochrome b variation in sleeper sharks (Squaliformes: Somniosidae). *Mar. Biol.*, **153**(6), 1015–1022. (10.1007/s00227-007-0871-1.)
- Mwenifumbo, C.J. 1990. Geochemical logging at ODP sites 700 and 704, Leg 114. *15th Joint Annual Meeting, GAC/MAC, Geological Association of Canada, Mineralogical Association of Canada and Canadian Geophysical Union, 16–18 May 1990, Vancouver, B.C. Program with Abstracts*. Vancouver, B.C., Geological Association of Canada, 94.
- Mwenifumbo, C.J. and J.P. Blangy. 1991a. Chapter 30. Short-term spectral analysis of downhole logging measurements from Site 704. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 114. Subantarctic South Atlantic*. College Station, TX, Texas A & M University. Ocean Drilling Program, February, 577–585. (10.2973/odp.proc.sr.114.166.1991.)
- Mwenifumbo, C.J. and J.P. Blangy. 1991b. Chapter 34. Stratigraphy, depositional environment, and diagenesis of sediments at Site 700 Inferred from Downhole Measurements. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 114. Subantarctic South Atlantic*. College Station, TX, Texas A & M University. Ocean Drilling Program, February, 649–656. (10.2973/odp.proc.sr.114.168.1991.)
- Myers, J. 2011. Climate change to continue to the year 3000 in best-case scenarios. *Environmental-researchweb*, digital media. (Report on work of S.J. Marshall.) (<http://tinyurl.com/c8b85qg>.)
- Myers, S. 2009. Antarctic expedition 'amazing' for students. *Calgary Herald*, A.9.
- Nadeau, J.L. and H.J. Sun. 2005. Microbial density in samples from extreme environments and amenability to in situ chemical extraction and fluorescent detection. [Paper 118-9.] *Geol. Soc. Am. Abstr. Prog.*, **37**(7), 2005 Salt Lake City Annual Meeting, 268. (<http://tinyurl.com/pzwqhed>.)
- Nadeau, L.-P. 2010a. Basin and channel contributions to a model Antarctic Circumpolar Current. *Our Earth, our air, our water, our future. 44th Annual CMOS Congress, 36th Annual Scientific Meeting of CGU, 3rd Joint CMOS-CGU Congress, 31 May–4 June, Ottawa, Ontario. Congress abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 3879, 228. (www_cmos.ca/CongressAbstracts/cong4410.pdf.)

- Nadeau, L.-P. 2010b. Dynamics of a quasigeostrophic Antarctic Circumpolar Current. Ph.D. thesis, Department of Atmospheric and Oceanic Sciences, McGill University, Montréal, Que., xxi + 156 pp. (<http://digitool.library.mcgill.ca/thesisfile96911.pdf>.)
- Nadeau, L.-P. and D. Straub. 2008. Dynamics of the Antarctic Circumpolar Current. *CMOS 2008 Congress, Water, Weather, Climate: Science Informing Decisions, Canadian Meteorological and Oceanographical Society, 25–29 May 2008, Kelowna, British Columbia. Program and abstracts.* Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 2293, digital media. (<https://www1.cmos.ca/Amsoft%20Web%20Data/upload/abstracts112/2008-05-26archive.html>.)
- Nadeau, L.-P. and D.N. Straub. 2009. Basin and channel contributions to a model Antarctic Circumpolar Current. *J. Phys. Oceanogr.*, **39**(4), 986–1002. (10.1175/2008JPO4023.1.)
- Nadeau, L. and D. Straub. 2010. Basin and channel contributions of the Antarctic Circumpolar Current. [Abstract.] *Eos, Trans. AGU*, **91**(26), Meet. Americas Suppl., IT45K-11. (www.agu.org/meetings/ja10/program/abstract-database.php?sel=1.)
- Nadeau, L.-P. and D.N. Straub. 2012. Influence of wind stress, wind stress curl, and bottom friction on the transport of a model Antarctic Circumpolar Current. *J. Phys. Oceanogr.*, **42**(1), 207–222. (10.1175/JPO-D-11-058.1.)
- Nahir, M., K. Biggar and G. Cotta. 2001. *ARCSACC: Assessment and Remediation of Contaminated Sites in Arctic and Cold Climates. Proceedings. Vol. 2.* Edmonton, Alta, ARCS ACC, University of Alberta.
- Naish, T. and 8 others (and the ANDRILL-MIS Science Team that includes D.R. Schmitt). 2007. Synthesis of the initial scientific results of the MIS project (AND-1B Core), Victoria Land basin, Antarctica. *Terra Ant.*, **14**(3), 317–327. (<http://tinyurl.com/qx25hr4>.)
- Naish, T. and 55 others (including D. Schmitt). 2009. Obliquity-paced Pliocene West Antarctic ice sheet oscillations. *Nature*, **458**(7236), 322–328. (10.1038/nature07867.)
- Nanaimo News Bulletin. 2009. VIU student excited over Antarctic trip. *Nanaimo News Bull.*, 14.
- Narasimhan, S., S. Khan, M. Gauthier, K. Philp and A. Parush. 2005. *Usability test of the Cybercartographic Atlas of Antarctica high fidelity prototype.* Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies, Geomatics and Cartographic Research Centre. (HOTLab Technical Report.)
- Naslund, H.R., J.H. Bédard, A. Simon and S.B. Mukasa. 2005. Small-scale modal layering in the Dais section of the Basement Sill, Ferrar Province, Antarctica. [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., V13H-04. (www.agu.org/meetings/fm05/waisfm05.html.)
- Nassar, R. and 22 others (including D.W. Tarasick and W.K. Hocking). 2008. Validation of Tropospheric Emission Spectrometer (TES) nadir ozone profiles using ozonesonde measurements. *J. Geophys. Res.*, **113**(D15), D15S17. (10.1029/2007JD008819.)
- National Aeronautics and Space Administration (NASA). 1997. RADARSAT begins first complete detailed map of Antarctica. *ScienceDaily*, 2 October, digital media. (Application of Canadian RADARSAT.) (www.sciencedaily.com/releases/1997/10/971002064734.htm.)
- National Post. 2001. Inuk teenager off on expedition to Antarctic: The cold 'will be nice'. *Natl. Post [Don Mills]*, A.5.
- National Post. 2009. Blaze destroys Antarctic hut favoured by explorer Sir Edmund Hillary. *Natl. Post [Don Mills]*, A.20.
- National Post. 2010. Canadian explorer's century-old Antarctic artifacts fetch \$600,000 at auction. *Natl. Post [Don Mills]*, A.6.
- Natoli, P. and 34 others (the BOOMERanG Collaboration that includes J.R. Bond and C.B. Netterfield). 2010. BOOMERanG constraints on primordial non-Gaussianity from analytical Minkowski functionals. *Mon. Not. R. Astron. Soc. (MNRAS)*, **408**(3), 1658–1665. (10.1111/j.1365-2966.2010.17228.x.)

- Naveen, R., S.C. Forrest, R.G. Dagit, L.K. Blight, W.Z. Trivelpiece and S.G. Trivelpiece. 2000. Censuses of penguin, blue-eyed shag, and southern giant petrel populations in the Antarctic Peninsula region, 1994–2000. *Polar Rec.*, **36**(199), 323–334. (10.1017/S0032247400016818.)
- Naveen, R., S.C. Forrest, R.G. Dagit, L.K. Blight, W.Z. Trivelpiece and S.G. Trivelpiece. 2001. Zodiac landings by tourist ships in the Antarctic Peninsula region, 1989–99. *Polar Rec.*, **37**(201), 121–132. (10.1017/S0032247400026942.)
- Neale, P.J., M.P. Lesser, J.J. Cullen and J. Goldstone. 1992. Detecting UV-induced inhibition of photosynthesis in Antarctic phytoplankton. *Antarct. J. U.S.*, **27**(5), 1992 Review, 122–124. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXXVIIIn5/AJUSvXXVIIIn5p122.pdf>)
- Neale, P.J., M.P. Lesser and J.J. Cullen. 1994. Effects of ultraviolet radiation on the photosynthesis of phytoplankton in the vicinity of McMurdo Station, Antarctica. In Weiler, C.S. and P.A. Penhale, eds. *Ultraviolet radiation in Antarctica: measurements and biological effects*. Washington, DC, American Geophysical Union, 125–142. (Antarctic Research Series 62.)
- Neale, P.J., J.J. Cullen and R.F. Davis. 1998a. Inhibition of marine photosynthesis by ultraviolet radiation: variable sensitivity of phytoplankton in the Weddell–Scotia Confluence during the austral spring. *Limnol. Oceanogr.*, **43**(3), 433–448. (10.4319/lo.1998.43.3.0433.)
- Neale, P.J., R.F. Davis and J.J. Cullen. 1998b. Interactive effects of ozone depletion and vertical mixing on photosynthesis of Antarctic phytoplankton. *Nature*, **392**(6676), 585–589. (10.1038/33374.)
- Neil, D., H. McGowan, G. Dowideit, J. Speirs and J. Orwin. 2005. Palaeoshoreline evidence for glacial megalakes in the McMurdo Dry Valleys, Antarctica: Glacial Lake Victoria reappraised. [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., H51C-0391. (www.agu.org/meetings/fm05/waisfm05.html.)
- Neil, D., H. McGowan, G. Dowideit, J. Spiers and J.F. Orwin. 2006. Glacial Lake Victoria: reevaluation of palaeoshoreline evidence of Antarctic megalakes. *Second SCAR Open Science Conference, Antarctica in the Earth System, 12–14 July 2006, Hobart, Tasmania*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 507, digital media. (<http://tinyurl.com/pufkz6v>.)
- Nelson, T.M., M.V. Brown, T.L. Rogers and J.M. Fairbrother. 2012. Investigating Escherichia coli pathotypes and antimicrobial resistance patterns in wild southern elephant seals, Antarctica. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (<http://tinyurl.com/n9s8qro>.)
- Nemesure, S., R.D. Cess, E.G. Dutton, J.J. Deluisi, Z. Li and H.G. Leighton. 1994. Impact of clouds on the shortwave radiation budget of the surface–atmosphere system for snow-covered surfaces. *J. Climate*, **7**(4), 579–585. (10.1175/1520-0442(1994)007<0579:IOCOTS>2.0.CO;2.)
- Netterfield, C.B. and 32 others (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, D. Pogosyan and S. Prunet). 2002. A measurement by BOOMERANG of multiple peaks in the angular power spectrum of the cosmic microwave background. *Astrophys. J.*, **571**(2), Part 1, 604–614. (10.1086/340118.)
- New Scientist. 2004. Derring-do in the high Antarctic. *New Sci.*, **181**(2431), 5. (Report on BOOMERanG.)
- Newbury, G.S. and C. Kirby. 1995. *Ice measurements in support of propellor load evaluation on the USCGC Polar Star in the Antarctic summer environment*. St. John's, Nfld., National Research Council of Canada. Institute for Marine Dynamics, November. (IMD Test Report TR-1995-15.)
- Niagara Falls Review. 2000. Niagara man dies at post in Antarctic. *Niagara Falls Rev.*, A.5.
- Nichol, L. 2009. Antarctica experience offers unique classroom. *Natur. Elements*, (35), digital media. (www.nrcan-rncan.gc.ca/com/elements/issues/35/antarct-eng.php.)
- Nickling, B. 2004. Landscape ecology of the polar desert environment. In Loken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research*. Ottawa, Ont., Canadian Polar Commission, February, 44–45. (<http://tinyurl.com/oqmdpbo>.)

- Nicol, S., J. Clarke, S.J. Romaine, S. Kawaguchi, G. Williams and G.W. Hosie. 2008. Krill (*Euphausia superba*) abundance and Adélie penguin (*Pygoscelis adeliae*) breeding performance in the waters off the Béchervaise Island colony, East Antarctica in 2 years with contrasting ecological conditions. *Deep-Sea Res. II*, **55**(3–4), 540–557. (10.1016/j.dsr2.2007.11.013.)
- Nicolaus, M., C. Haas and S. Willmes. 2009. Evolution of first-year and second-year snow properties on sea ice in the Weddell Sea during spring–summer transition. *J. Geophys. Res.*, **114**(D17), D17109. (Correction: **116**(D10), 26 May 2011, D10112.) (10.1029/2008JD011227; 10.1029/2011JD016116.)
- Nicolaus, M., C. Haas and S. Willmes. 2011. Correction to “Evolution of first- and second-year snow properties on sea ice in the Weddell Sea during spring–summer transition”. *J. Geophys. Res.*, **116**(D10), D10112. (10.1029/2011JD016116.)
- Niessen, F. and 7 others (and the ANDRILL-MIS Science Team that includes D.R. Schmitt). 2007. Comprehensive Downhole and Core Physical-Property Measurements at the AND-1B Drillsite ANDRILL McMurdo Ice Shelf Project. In Cooper, A.K., P. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007*. Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (U.S. Geol. Surv. Open-File Rep. 2007-1047.) (Extended Abstract 083.) (<http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea083.pdf>.)
- Nishiizumi, K. and 8 others (including R.P. Beukens, K.H. Chang and L.R. Kilius). 1979. Measurements of ³⁶Cl in Antarctic meteorites and Antarctic ice using a Van de Graaff accelerator. *Earth Planet. Sci. Lett.*, **45**(2), 285–292. (10.1016/0012-821X(79)90130-4.)
- Nishitani, N. and 6 others (including G. Sofko). 1997. Dynamics of ionospheric convection associated with a sudden southward turning of IMF. [Abstract SM41E-09.] *Eos, Trans. AGU*, **78**(46), Fall Meet. Suppl., F607.
- Nishitani, N. and 7 others (including G. Sofko). 2002. A study of the dusk convection cell's response to an IMF southward turning. *J. Geophys. Res.*, **107**(A3), 1036. (10.1029/2001JA900095.)
- Nobes, D.C. and J. Mienert. 1987. Ocean Drilling Program Leg 114; preliminary results of physical property measurements. *Geol. Soc. Am. Abstr. Prog.*, **19**(7), GSA Annual Meeting and Exposition, 790.
- Nobes, D.C., J. Mienert, C.J. Mwenifumbo and J.P. Blangy. 1991a. Chapter 3. An estimate of heat flow on the Meteor Rise, Site 704. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 114. Subantarctic South Atlantic*. College Station, TX, Texas A & M University. Ocean Drilling Program, February, 39–45. (10.2973/odp.proc.sr.114.164.1991.)
- Nobes, D.C., J. Mienert and C.J. Mwenifumbo. 1991b. An estimate of the heat flow on the meteor rise, subantarctic South Atlantic. *J. Geophys. Res.*, **96**(B4), 5947–5953. (10.1029/91JB00002.)
- Nobes, D.C., J. Mienert and G.J. Dirksen. 1991c. Chapter 35. Lithologic control of physical-property interrelationships. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 114. Subantarctic South Atlantic*. College Station, TX, Texas A & M University. Ocean Drilling Program, February, 657–669. (10.2973/odp.proc.sr.114.162.1991.)
- Nobes, D.C., S.F. Bloomer, J. Mienert and F. Westall. 1991d. Chapter 29. Milankovitch cycles and nonlinear response in the Quaternary record in the Atlantic sector of the southern oceans. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 114. Subantarctic South Atlantic*. College Station, TX, Texas A & M University. Ocean Drilling Program, February, 551–576. (10.2973/odp.proc.sr.114.161.1991.)

- Nobes, D.C., C.J. Mwenifumbo, J. Mienert and J.P. Blangy. 1991e. Chapter 38. The problem of porosity rebound in deep-sea sediment cores: a comparison of laboratory and in-situ physical-property measurements, Site 704, Meteor Rise. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 114. Subantarctic South Atlantic*. College Station, TX, Texas A & M University. Ocean Drilling Program, February, 711–716. (10.2973/odp.proc.sr.114.160.1991.)
- Nobre Silva, I.G., L. Swinnard and D. Weis. 2006. New insights on the origin of the ninetyeast ridge and its connection to the Kerguelen hot spot. [Abstract.] *Geochim. Cosmochim. Acta*, **70**(18), Supplement, Goldschmidt Conference 2006, A448. (10.1016/j.gca.2006.06.901.)
- Nobre Silva, I.G., D. Weis, J. Barling and J.S. Scoates. 2009. Leaching systematics and matrix elimination for the determination of high-precision Pb isotope compositions of ocean island basalts. *Geochem. Geophys. Geosyst. G³*, **10**(8), Q08012. (10.1029/2009GC002537.)
- Nobre Silva, I.G., D. Weis and J.S. Scoates. 2010. Effects of acid leaching on the Sr-Nd-Hf isotopic compositions of ocean island basalts *Geochem. Geophys. Geosyst. G³*, **11**(9), Q09011. (10.1029/2010GC003176.)
- Noël, M., L. Barrett-Lennard, C. Guinet, N. Dangerfield and P.S. Ross. 2009. Persistent organic pollutants (POPs) in killer whales (*Orcinus orca*) from the Crozet Archipelago, southern Indian Ocean. *Mar. Environ. Res.*, **68**(4), 196–202. (10.1016/j.marenvres.2009.06.009.)
- Nordeng, T.E., G. Brunet and J. Caughey. 2007. Improvement of weather forecasts in polar regions. *WMO Bull.*, **56**(4), 250–256. (<http://tinyurl.com/oqbfzsj>.)
- Norris, G. 1965. Triassic and Jurassic miospores and acritarchs from the Beacon and Ferrar groups, Victoria land, Antarctica. *New Zeal. J. Geol. Geophys.*, **8**(2), 236–277. (10.1080/00288306.1965.10428110.)
- North Island Gazette. 2009. Alert Bay kayaker paddles the Antarctic. *North Island Gaz. [Alert Bay]*, 9.
- North Shore Outlook. 2008. Antarctic adventure. *N. Shore Outlook [N. Vancouver]*, 7 February, 7.
- Nott, G.J. and T.J. Duck. 2011. Lidar studies of the polar troposphere. *Meteorol. Appl.*, **18**(3), Special Issue, 383–405. (10.1002/met.289.)
- Nottarp, K., H. Serson and G.W.A. Dummer. 1966. Electronic components and apparatus for use in polar field operations. *Polar Rec.*, **13**(82), 37–43. (10.1017/S0032247400055285.)
- Novis, P.M. and 7 others (including E.G. Gregorich). 2007. Annual carbon fixation in terrestrial populations of *Nostoc commune* (Cyanobacteria) from an Antarctic dry valley is driven by temperature regime. *Global Change Biol.*, **13**(6), 1224–1237. (10.1111/j.1365-2486.2007.01354.x.)
- Nuttall, A.D. 2003. Polar Connections Workshop, at University of Alberta, September 26–27, 2003: towards a Canadian Antarctic Research Program. *CARN Newsl.*, **17**, 10–13. (<http://tinyurl.com/n8pfqre>.)
- Nuttall, M. 2010. Chapter 11. Narratives of history, environment and global change: expeditioner-tourists in Antarctica. In Hall, M. and J. Saarinen, eds. *Tourism and change in polar regions: climate, environments and experiences*. Oxford, Taylor & Francis Group Ltd. Routledge, 204–214. (Contemporary Geographies of Leisure, Tourism and Mobility.)
- Nuttall, M. 2012. Introduction: politics, science and environment in the polar regions. *Polar J.*, **2**(1), 1–6. (10.1080/2154896X.2012.679553.)
- O'Brien, P.E., A.K. Cooper, C. Richter, M. MacPhail, E.M. Truswell and Shipboard Science Party (that includes N. Januszczak and B. Taylor). 2000a. Results from ODP leg 188. Glacial onset and late Neogene fluctuations in Prydz Bay, Antarctica. [Abstract OS21E-03.] *Eos, Trans. AGU*, **81**(48), Fall Meet. Suppl., F743. (www.agu.org/meetings/fm00/waisfm00.html.)

- O'Brien, P.E., A.K. Cooper and Ocean Drilling Program: Leg 188: Shipboard Scientific Party (that includes N. Januszczak and B. Taylor). 2000b. Summary of initial results from ODP Leg 188; history of East Antarctic glaciation from drilling in Prydz Bay. In Skilbeck, C.G. and T.C.T. Hubble, eds. *Understanding planet Earth: searching for a sustainable future; on the starting blocks of the third millennium, 15th Australian Geological Convention, 3–7 July 2000, Sydney, N.S.W., Australia. Abstracts*. Sydney, N.S.W., Geological Society of Australia, 366. (GSA Abstracts 59.)
- O'Brien, P.E., A.K. Cooper, C. Richter and the Shipboard Scientific Party (that includes N. Januszczak and B. Taylor), eds. 2001. *Proceedings of the Ocean Drilling Program. Initial Reports: Prydz Bay-Cooperation Sea, Antarctica: glacial history and paleoceanography: covering Leg 188 of the cruises of the drilling vessel JOIDES Resolution; Fremantle, Australia, to Hobart, Tasmania; Sites 1165–1167; 10 January–11 March 2000. Vol. 188*. College Station, TX, Ocean Drilling Program, Texas A&M University. (10.2973/odp.proc.ir.188.2001.)
- O'Brient, R. and 52 others (including M. Amiri, S.J. Benton, B. Burger, G. Davis, M. Halpern, M. Hasselfield, V.V. Hristov, C.B. Netterfield and D.V. Wiebe). 2012. Antenna-coupled TES bolometers for the Keck array, Spider, and Polar-1. In Holland, W.S. and J. Zmuidzinas, eds. *Millimeter, submillimeter, and far-infrared detectors and instrumentation for astronomy VI*. Bellingham, WA, International Society for Optical Engineering, 84521G. (SPIE Proceedings 8452, Part One.) (10.1117/12.927214.)
- O'Neill, J.G., M.G. White, T.A. Sims and D.L. Barber. 1987. The inflammatory response of the Antarctic silverfish, *Pleuragramma antarcticum* Boulenger, 1902, to a plerocercoid (species unknown) infestation. *J. Fish Biol.*, **31**(sA), 231–232. (10.1111/j.1095-8649.1987.tb05319.x.)
- O'Donnell, R., N. Lewis, S. McIntyre and J. Condon. 2011. Improved methods for PCA-based reconstructions: case study using the Steig et al. (2009) Antarctic temperature reconstruction. *J. Climate*, **24**(8), 2099–2115. (10.1175/2010JCLI3656.1.)
- O'Driscoll, R.L., G.J. Macaulay, S. Gauthier, M. Pinkerton, S.M. Hanchet and P.M. Marriott. 2012. Antarctic silverfish (*Pleuragramma antarctica*): a keystone species in the Ross Sea. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 610, digital media. (<http://tinyurl.com/qajwgm>.)
- ODP Leg 188 Shipboard Science Party (that includes N. Januszczak and B. Taylor). 2000. Physical property changes as a proxy for East Antarctic sedimentation: first results from ODP leg 188 (Prydz Bay). [Abstract OS31A-10.] *Eos, Trans. AGU*, **81**(19), Spring Meet. Suppl., S272. (<http://tinyurl.com/ogqw8mh>.)
- Oetelaar, M. 2002. Can we identify the sex of a Weddell seal (*Leptonychotes weddellii*) by its call? Honours thesis, Department of Biology, University of New Brunswick, Saint John, N.B., vii + 28 pp.
- Oetelaar, M.L., J.M. Terhune and H.R. Burton. 2003. Can the sex of a Weddell seal (*Leptonychotes weddellii*) be identified by its surface call? *Aquat. Mamm.*, **29**(2), 261–267.
- Ogburn, R.W. and 52 others (including M. Amiri, S.J. Benton, B. Burger, G. Davis, M. Halpern, M. Hasselfield, C.B. Netterfield and D.V. Wiebe). 2012. BICEP2 and Keck array operational overview and status of observations. In Holland, W.S. and J. Zmuidzinas, eds. *Millimeter, submillimeter, and far-infrared detectors and instrumentation for astronomy VI*. Bellingham, WA, International Society for Optical Engineering, 84521A. (SPIE Proceedings 8452, Part One.) (10.1117/12.925731.)
- Ogilvie, M. 2006a. Heart recipient only climber fit enough to attempt summit; Antarctic ascent aborted after doctors on team fell ill 200 metres from peak. *Toronto Star*, 20 December, A.1.
- Ogilvie, M. 2006b. Heart recipient pumped for icy climb: firefighter joins team up Antarctic peak on \$1M fundraising trek. *Toronto Star*, 28 November, B.4.
- Okuyama, J., S. Fujita, S. Takeya, R.M. Koerner and T. Hondoh. 2003. Layered nature with different physical properties of firm. [Abstract C11C-0842.] *Eos, Trans. AGU*, **84**(46), Fall Meet. Suppl., F354. (www.agu.org/meetings/fm03/waisfm03.html.)

- Olech, M. and P. Angiel. 2010. Succession patterns on the recently deglaciated areas of the West Antarctic. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 376775, digital media. (www.ipy-osc.no/abstract/376775.)
- Oliveira, N.M. and F.M. Hilker. 2010. Modelling disease introduction as biological control of invasive predators to preserve endangered prey. *Bull. Math. Biol.*, **72**(2), 444–468. (10.1007/s11538-009-9454-2.)
- Oliver, M.J., B. Fraser, O. Schofield, J.T. Kohut and A.J. Irwin. 2010. Satellite analysis of climate mediated changes in Antarctic food-webs. [Abstract.] *Eos, Trans. AGU*, **91**(26), Meet. Americas Suppl., IT45I-06. (www.agu.org/meetings/ja10/program/abstract-database.php?sel=1.)
- Oliver, M.J. and 6 others (including A. Irwin). 2012. Adélie penguin foraging behavior affected by local tides. *2012 Ocean Sciences Meeting, 20–24 February 2012, Salt Lake City, Utah, USA. Abstract book*. Waco, TX, American Society of Limnology and Oceanography, 348. (Abstract 9761.) (www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=9761.)
- Oliver, R.L., P.R. James, K.D. Collerson and A.B. Ryan. 1982. Precambrian geologic relationships in the Vestfold Hills, Antarctica. In Craddock, C., ed. *Antarctic geoscience*. Madison, WI, University of Wisconsin Press, 435–444. (International Union of Geological Sciences Publication B4)
- Olson, D.B. and W.J. Emery. 1978. Eddies and ridges in the thermal structure south of New Zealand. *Antarct. J. U.S.*, **13**(4), 79–81. (<http://tinyurl.com/p3jw7gb>.)
- Oltmans, S.J. and 17 others (including D.W. Tarasick and J.B. Kerr). 1998. Trends of ozone in the troposphere. *Geophys. Res. Lett.*, **25**(2), 139–142. (10.1029/97GL03505.)
- Omelon, C.R. 2006. Physical, chemical, and microbial diversity of cryptoendolithic habitats in the Canadian High Arctic. Ph.D. thesis, University of Toronto, Toronto, Ont.
- Omelon, C.R., F.G. Ferris, W.H. Pollard, D.T. Andersen and L. Whyte. 2003. High Arctic cryptoendolithic microorganisms in a polar desert environment. In Phillips, M., S.M. Springman and L.U. Arenson, eds. *Eighth International Conference on Permafrost, 21–25 July 2003, Zürich, Switzerland. Proceedings, Vol. 2*. Lisse, The Netherlands, A.A. Balkema, Swets & Zeitlinger, 851–856.
- Omelon, C.R., W.H. Pollard and F.G. Ferris. 2006. Environmental controls on microbial colonization of High Arctic cryptoendolithic habitats. *Polar Biol.*, **30**(1), 19–29. (10.1007/s00300-006-0155-0.)
- Ommanney, C.S.L. 2004. Recent work: Canada. *ICE, News Bull. Int. Glaciol. Soc.*, **134**(1st Issue), 2–22.
- Ommanney, C.S.L., ed. 2005a. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 19*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/7j6zrpo>.)
- Ommanney, C.S.L., ed. 2005b. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 20*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/6q8gzso>.)
- Ommanney, S. 2006a. *National reporting to Scientific Committee on Antarctic Research (SCAR). Annual report on national Antarctic scientific activities contributing to SCAR programme activities. 1 January 2005 to 31 December 2005*. Ottawa, Ont., Canadian Polar Commission. (<http://tinyurl.com/pvwwq8n>.)
- Ommanney, C.S.L., ed. 2006b. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 21*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/owpewxb>.)
- Ommanney, C.S.L., ed. 2006c. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 22*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/6upxcwl>.)
- Ommanney, S. 2006d. Ray Adie 1925–2006. Cambridge, U.K., International Glaciological Society, digital media. (14 May.) (www.igsoc.org/news/rayadie.)

- Ommanney, C.S.L. 2007a. *Canada: Annual report on national involvement in SCAR activities in year: 2006–2007*. Ottawa, Ont., Canadian Polar Commission. (<http://tinyurl.com/p7hxdor>.)
- Ommanney, C.S.L. 2007b. Canadians in Antarctic place-names: supplement. *CARN Newsl.*, **24**, 13–16. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/24.pdf.)
- Ommanney, C.S.L., ed. 2007c. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 23*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/q9jfugu>.)
- Ommanney, C.S.L. 2008a. *Canada: national report to SCAR for year: 2007–2008*. Ottawa, Ont., Canadian Polar Commission. (www.scar.org/about/nationalreports/Canada/Canada_2007-08.pdf.)
- Ommanney, C.S.L., ed. 2008b. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 24*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/ommdelt>.)
- Ommanney, C.S.L., ed. 2008c. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 25*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/7wwudnl>.)
- Ommanney, C.S.L., ed. 2008d. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 26*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/pfoxslw>.)
- Ommanney, C.S.L. 2009a. *Canada: national report to SCAR for year: 2008–2009*. Ottawa, Ont., Canadian Polar Commission. (www.scar.org/about/nationalreports/Canada/Canada_2008-09.pdf.)
- Ommanney, C.S.L. 2009b. *Canadian Antarctic bibliography, 2008–09*. Ottawa, Ont., Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/noq489j>.)
- Ommanney, C.S.L., ed. 2009c. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 27*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/8y47r87>.)
- Ommanney, C.S.L. 2010a. *Canada: national report to SCAR for year: 2009–2010*. Ottawa, Ont., Canadian Polar Commission. (www.scar.org/about/nationalreports/Canada/Canada_2009-10.pdf.)
- Ommanney, C.S.L. 2010b. *Canadian Antarctic bibliography, 2009–10*. Ottawa, Ont., Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/nrxvkok>.)
- Ommanney, C.S.L. 2010c. Canadian artists in Antarctica. *CARN Newsl.*, **29**, 10–12. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN%20vol%2029%20Nov%202010.pdf.)
- Ommanney, C.S.L., ed. 2010d. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 28*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/o75uprr>.)
- Ommanney, C.S.L., ed. 2010. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 29*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/7dg5clk>.)
- Ommanney, C.S.L. 2010e. Recent work: Canada. *ICE, News Bull. Int. Glaciol. Soc.*, **152–153**(1st & 2nd Issues), 3–16.
- Ommanney, C.S.L., comp. 2010f. *Scientists affiliated with Canadian institutions having expertise or interests in Antarctica*. Ottawa, Ont., Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/oafko5f>.)
- Ommanney, C.S.L. 2010g. Toomey Strait – new Canadian Antarctic name. *CARN Newsl.*, **29**, 13–14. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN%20vol%2029%20Nov%202010.pdf.)

- Ommanney, C.S.L. 2011a. *Canada: national report to SCAR for year: 2010–2011*. Ottawa, Ont., Canadian Polar Commission. (www.scar.org/about/nationalreports/Canada/Canada_2010-11.pdf.)
- Ommanney, C.S.L. 2011b. *Canadian Antarctic bibliography, 2010–11*. Ottawa, Ont., Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/pkkyv4c>.)
- Ommanney, C.S.L., ed. 2011c. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 30*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/6r7q3sl>.)
- Ommanney, C.S.L. 2011d. XXXI SCAR meeting – Delegate Committee on Scientific Affairs. *CARN Newsl.*, **30**, 6–10. (<http://tinyurl.com/6r7q3sl>.)
- Ommanney, C.S.L. 2012a. *Canada: national report to SCAR for year: 2011–2012*. Ottawa, Ont., Canadian Polar Commission. (www.scar.org/about/nationalreports/Canada/Canada_2011-12.pdf.)
- Ommanney, C.S.L. 2012b. *Canadian Antarctic bibliography, 2011–12*. Ottawa, Ont., Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/om4mr95>.)
- Ommanney, S. 2012c. Letters. Invisible explorer. *Geographical*, **84**(2), 78.
- Ommanney, C.S.L., ed. 2012d. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 31*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/pnzyjbb>.)
- Ommanney, C.S.L. 2012e. XXXII SCAR meeting – Delegate Committee on Scientific Affairs. *CARN Newsl.*, **31**, 16–17. (www.polarcom.gc.ca/principal/sites/default/files/carn-31-english.pdf.)
- Ommanney, C.S.L. 2012f. XXXII SCAR Meetings and Open Science Conference, Portland, Oregon, U.S.A., 13–25 July, 2012. *CARN Newsl.*, **31**, 14–15. (<http://tinyurl.com/pnzyjbb>.)
- Orre, I.J., H.R. Eriksen, H. Ursin, I. Grant, L. Palinkas and P. Suedfeld. 2005. Seleksjon av personell til overvintring i Antarktis [Selection of over-winter personnel for Antarctica]. *Tidsskr. Norsk Pskologfor.*, **42**(4), 327–334. [In Norwegian.]
- Ortiz, J.D. and 7 others (including G. St-Onge and A. Lisé-Pronovost). 2012. The Late Quaternary flow through the Bering Strait has been forced by the Southern Ocean winds. *J. Phys. Oceanogr.*, **42**(11), 2014–2029. (10.1175/JPO-D-11-0167.1.)
- Orvig, S. 1970. The hydrological cycle of Greenland and Antarctica. *IASH Publ.*, **92**, (Symposium at Reading 1970 — *World Water Balance*), Vol. 1, 41–49. (Discussion: *IASH Publ.* 94, 1972, p.664–665.) (<http://iahs.info/redbooks/a092/092010.pdf>.)
- Orvig, S., ed. 1973. *Energy fluxes over polar surfaces, IAMAP/IAPSO/SCAR/WMO Symposium, 3–5 August 1971, Moscow, USSR. Proceedings*. Geneva, Switzerland, World Meteorological Organization. (WMO Technical Note 129, WMO Publication 361.)
- Orwin, J.F. 2005. Frozen dunes: an indicator of climatic variability, McMurdo Dry Valleys. *CARN Newsl.*, **19**, 4. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/19.pdf.)
- Osborne, B.S. 1993. Reviews. Paul Simpson-Housley, Antarctica: Exploration, Perception and Metaphor (London, Routledge, 1992. Pp. xviii + 131. £40.00). *J. Hist. Geogr.*, **19**(3), 376–378. (10.1006/jhge.1993.1023.)
- Osczevski, R.J. 1995. The basis of wind chill. *Arctic*, **48**(4), 372–382. (<http://arctic.synergiesprairies.ca/arctic/index.php/arctic/article/view/1262/1287>.)
- Osinski, G., N. Banerjee, R. Soare and M.-C. Williamson, eds. 2010. Exploring other worlds by exploring our own: the role of terrestrial analogue studies in planetary exploration. *Planet. Space Sci.*, **58**(4), Special Issue, 447–740.
- Österblom, H. and Ö. Bodin. 2012. Global cooperation among diverse organizations to reduce illegal fishing in the Southern Ocean. *Conserv. Biol.*, **26**(4), 638–648. (10.1111/j.1523-1739.2012.01850.x.)

- Österblom, H. and U.R. Sumaila. 2011. Toothfish crises, actor diversity and the emergence of compliance mechanisms in the Southern Ocean. *Global Environ. Change*, **21**(3), 972–982. (10.1016/j.gloenvcha.2011.04.013.)
- Österblom, H., U.R. Sumaila, Ö. Bodin, J.H. Sundberg and A.J. Press. 2010. Adapting to regional enforcement: fishing down the governance index. *PLoS ONE*, **5**(9), e12832. (10.1371/journal.pone.0012832.)
- Oswell, J.M., M. Mitchell, G. Chalmers and H. Mackinven. 2010. Design, construction and initial performance of wind turbine foundations in Antarctica. *GEO2010: 63rd Canadian Geotechnical Conference & 6th Canadian Permafrost Conference 12–16 September 2010, Calgary, Alberta. Proceedings*. Richmond, B.C., Canadian Geotechnical Society, 997–1003. (<http://tinyurl.com/nuj1w3h>.)
- Ott, N., H.W. Schenke, M. Jakobsson, R. MacNab and D. Travin. 2008. IBCAO and IBCSO: particular importance of digital bathymetry in polar regions. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S4.1/P18, 396.
- Ottawa Citizen. 1991. Calgary woman among dead in Antarctic plane crash. *Ottawa Citizen*, 21 February, D.16.
- Ottawa Citizen. 1997. Yachters fight seas to locate Canadian: raging storm hits round-the-world race off Antarctic coast. *Ottawa Citizen*, 9 January, A.1.
- Ottawa Citizen. 2001. Calgary plane reaches Antarctic in rescue bid: U.S. doctor could be flown out today. *Ottawa Citizen*, 25 April, A.6.
- Ottawa Citizen. 2009a. Antarctic trekker reconsiders journey; McGrath recovering after fall into crevasse. *Ottawa Citizen*, 4 December, A.3.
- Ottawa Citizen. 2009b. McGrath's Antarctic trek gets off to a good start. *Ottawa Citizen*, 2 December, A.6.
- Ottawa Citizen. 2010. Photo. Antarctic treasure trove auctioned. *Ottawa Citizen*, 23 September, A.5.
- Otto, C. 2006. Canadian M.D. serves as South Pole Station physician: report from South Pole. *CARN Newsl.*, **21**, 1–7. ([www.polarcom.gc.ca/uploads/Publications/\(CARN\)/CARN21.pdf](http://www.polarcom.gc.ca/uploads/Publications/(CARN)/CARN21.pdf).)
- Otto, C.A., R. Shemanski and L. Drudi. 2012. Real-time tele-echocardiography: diagnosis and management of a pericardial effusion secondary to pericarditis at an Antarctic research station. *Telemed. e-Health*, **18**(7), 521–524. (10.1089/tmj.2011.0266.)
- Otway, P., M. Herbert, G. Renner, R. Koerner and L. McNaught. 2006 *Sir Wally Herbert: icon of Polar exploration: gala testimonial 18th October 2006, Royal Geographical Society, London: souvenir programme*. [n.p.] Sir Wally Herbert Testimonial Association.
- Overpeck, J.T. and 6 others (including S.J. Marshall). 2005. Paleoclimatic evidence that future sea level rise could be larger and faster than commonly believed. [Paper 239-14.] *Geol. Soc. Am. Abstr. Prog.*, **37**(7), 2005 Salt Lake City Annual Meeting, 526. (<http://tinyurl.com/puhlf23>.)
- Overpeck, J.T., B.L. Otto-Bliesner, G.H. Miller, R.B. Alley, D.R. Muhs and S.J. Marshall. 2006. Response to letter on Ice sheets and sea level by J. Oerlemans, D. Dahl-Jensen and V. Masson-Delmotte. *Science*, **313**(5790), 1044–1045. (10.1126/science.313.5790.1043c.)
- Owen, B. 2001. Antarctic adventure: Geoff Green organized student trip. *Colborne Chron.*, 8.
- Padin, S. and 34 others (the SPT Collaboration that includes M.A. Dobbs). 2008. South Pole telescope optics. *Appl. Opt.*, **47**(24), 4418–4428. (10.1364/AO.47.004418.)
- Pahl, B.C. 1995. The repertoire and geographic variation of the underwater vocalisations of the Weddell seal (*Leptonychotes weddelli*) at the Vestfold Hills, Antarctica. M.Sc. thesis, Department of Biology, University of New Brunswick, Saint John, N.B., xi + 142 pp.

- Pahl, B.C., J.M. Terhune and H. Burton. 1996. Proportional weekly use of underwater call types by Weddell seals, *Leptonychotes weddellii* (pinnipedia: Phocidae), during the breeding season at the Vestfold Hills. *Austral. J. Zool.*, **44**(1), 75–79. (10.1071/ZO9960075)
- Pahl, B.C., J.M. Terhune and H.R. Burton. 1997. Repertoire and geographic variation in underwater vocalisations of Weddell seals (*Leptonychotes weddellii*), Pinnipedi : Phocidae) at the Vestfold Hills, Antarctica. *Austral. J. Zool.*, **45**(2), 171–187. (10.1071/ZO95044.)
- Pakhomov, E.A. 2004. Salp/krill interactions in the eastern Atlantic sector of the Southern Ocean. *Deep-Sea Res. II*, **51**(22–24), 2645–2660. (10.1016/j.dsr2.2001.03.001.)
- Pakhomov, E.A. 2006. Antarctic pelagic tunicates: life-cycles and ecological significance (SO-GLOBEC). *CARN Newsl.*, **22**, 8–11. (www.polarcom.gc.ca/uploads/Publications/(CARN)/carn_vol22_eng.pdf.)
- Pakhomov, E. 2008. Ecology of pelagic tunicates in the Lazarev Sea during June–August 2006. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **580**, 66–72. (<http://epic.awi.de/28698/1/Bat2008d.pdf>.)
- Pakhomov, E.A. and M. Brenner. 2005. Biology of pelagic tunicates in the Lazarev Sea during April 2004. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **500**, 196–200. (<http://epic.awi.de/26679/1/BerPolarforsch2005500.pdf>.)
- Pakhomov, E.A. and P.W. Froneman. 2004a. Zooplankton dynamics in the eastern Atlantic sector of the Southern Ocean during the austral summer 1997/1998. Part 1. Community structure. *Deep-Sea Res. II*, **51**(22–24), 2599–2616. (10.1016/j.dsr2.2000.11.001.)
- Pakhomov, E.A. and P.W. Froneman. 2004b. Zooplankton dynamics in the eastern Atlantic sector of the Southern Ocean during the austral summer 1997/1998. Part 2. Grazing impact. *Deep-Sea Res. II*, **51**(22–24), 2617–2631. (10.1016/j.dsr2.2000.11.002.)
- Pakhomov, E.A., A. Atkinson, B. Meyer, B. Oetl and U. Bathmann. 2004a. Daily rations and growth of larval *Euphausia superba* in the Eastern Bellingshausen Sea during austral autumn. *Deep-Sea Res. II*, **51**(17–19), 2185–2198. (10.1016/j.dsr2.2004.08.003.)
- Pakhomov, E.A., J.W. McClelland, K. Bernard, S. Kaehler and J.P. Montoya. 2004b. Spatial and temporal shifts in stable isotope values of bottom-dwelling shrimp *Nauticaris marionis* at the sub-Antarctic archipelago. *Mar. Biol.*, **144**(2), 317–325. (10.1007/s00227-003-1196-3.)
- Pakhomov, E.A., T. Bushula, S. Kaehler, B.P. Watkins and R.W. Leslie. 2006a. Structure and distribution of the slope fish community in the vicinity of the sub-Antarctic Prince Edward Archipelago. *J. Fish Biol.*, **68**(6), 1834–1866. (10.1111/j.1095-8649.2006.01076.x.)
- Pakhomov, E.A., C.D. Dubischar, V. Strass, M. Brichta and U.V. Bathmann. 2006b. The tunicate *Salpa thompsoni* ecology in the Southern Ocean. I. Distribution, biomass, demography and feeding ecophysiology. *Mar. Biol.*, **149**(3), 609–623. (10.1007/s00227-005-0225-9.)
- Pakhomov, E.A., C.D. Dubischar, B.P.V. Hunt, L. Gurney, V. Siegel and U. Bathmann. 2008. Antarctic pelagic tunicates: could salps be an attractive prey? In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S1.8/O21, 227–228.
- Pakhomov, E., B. Hunt, Y. Podeswa and U. Bathmann. 2009. Preliminary investigation of the mesopelagic food webs in the tropics and Antarctic using stable isotope analyses. *From ecosystem function to prediction, 3rd GLOBEC Open Science Meeting, 22–26 June 2009, Victoria, BC, Canada. Abstracts*. Nanaimo, B.C., Department of Fisheries and Oceans. Pacific Biological Station, Abstract S3-O14, 44. (www.confmanager.com/communities/c1345/files/osm/abstracts_book_web.pdf.)
- Pakhomov, E.A., A. Atkinson and V. Siegel. 2010a. Biomass and production of the Antarctic krill: spatio-temporal variability and overview of global estimates. *Climate, resources of the Southern Ocean, CCAMLR and Antarctic Krill (KRAK-2010). International Ukrainian–Russian Workshop, 26–28 September 2010, Kiev, Ukraine. Programme and abstracts*. 2.

- Pakhomov, E., S. Kaehler, B. Hunt and U. Bathmann. 2010b. Latitudinal and seasonal variability of surface POM stable isotope signatures in the Southern Ocean: implications for the pelagic food web and top predator foraging studies. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 573, CD-ROM.
- Pakhomov, E.A., L. Gurney and B.P.V. Hunt. 2010c. Life-support system of the Prince Edward Archipelago: overview of local and advected resources. *The Kerguelen Plateau: marine ecosystem and fisheries. 1st International Science Symposium on the Kerguelen Plateau, 14–16 April 2010, Concarneau, France. Programme and abstracts*. Concarneau, France, Muséum National d'Histoire Naturelle (MNHN). Station de Biologie Marine, 35. (<http://concarneau.mnhn.fr/sites/concarneau.mnhn.fr/files/upload/abstract.pdf>.)
- Pakhomov, E.A., B.P.V. Hunt, V. Siegel and U. Bathmann. 2010d. Seasonal and inter-annual dynamics of the epipelagic mesozooplankton community in the Lazarev Sea. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 572, CD-ROM.
- Pakhomov, E.A. and 9 others (including B.P.V. Hunt and L.J. Gurney). 2011a. Biology and life cycles of pelagic tunicates in the Lazarev Sea, Southern Ocean. *Deep-Sea Res. II*, **58**(13–16), 1677–1689. (10.1016/j.dsr2.2010.11.014.)
- Pakhomov, E.A., J. Hall, M.J.M. Williams, B.P.V. Hunt and C.J. Stevens. 2011b. Biology of *Salpa thompsoni* in waters adjacent to the Ross Sea, Southern Ocean, during austral summer 2008. *Polar Biol.*, **34**(1), 257–271. (10.1007/s00300-010-0878-9.)
- Pakhomov, E.A., S. Kruse and B.P.V. Hunt. 2012. Dynamics of the pelagic food web in the Lazarev Sea: role of zooplankton. What stable isotopes can tell us? . *Identifying key links between biogeochemical processes and foodweb structure, EUR-OCEANS Flagship for Polar Ecosystem Change and Synthesis (PECS), 26–28 November 2012, Bremerhaven, Germany*. Sète, France, EUR-OCEANS Project Office, presentation.
- Palinkas, L.A. and P. Suedfeld. 2008. Psychological effects of polar expeditions. *Lancet*, **371**(9607), 153–163. (10.1016/S0140-6736(07)61056-3.)
- Palinkas, L.A., P. Suedfeld and G.D. Steel. 1995a. Psychological functioning among members of a small polar expedition. *Aviation Space Env. Med.*, **66**, 943–950.
- Palinkas, L.A., P. Suedfeld, F. Glogower and M. Dembert. 1995b. Some historical and scientific considerations of the psychological issues about living in the Antarctic environment. *Travel Med. Int.*, **3**, 99–106.
- Palinkas, L.A. and 11 others (including C. Otto). 2006. Effectiveness of thyroid supplement and tyrosine in prevention of decrements in cognitive performance and mood during prolonged Antarctic residence: a randomized clinical trial. *Second SCAR Open Science Conference, Antarctica in the Earth System, 12–14 July 2006, Hobart, Tasmania*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 315, digital media. (www.scarcomnap2006.org/abstract/pdf/SCARXXIX_0315.PDF.)
- Pallàs, R., T.S. James, F. Sàbat, J.M. Vilaplana and D.R. Grant. 1997. Holocene uplift in the South Shetland Islands: evaluation of tectonics and glacio-isostasy. In Ricci, C.A., ed. *The Antarctic region: geological evolution and processes*. Siena, Museo Nazionale dell' Antartide, 861–868. (Terra Antarctica Publication.)
- Palmeri, R., B. Ghiribelli, G. Ranalli, F. Talarico and C.A. Ricci. 2007. Ultrahigh-pressure metamorphism and exhumation of garnet-bearing ultramafic rocks from the Lanterman Range (northern Victoria Land, Antarctica). *J. Metamorph. Geol.*, **25**(2), 225–243. (10.1111/j.1525-1314.2006.00686.x.)
- Palomares, M.L.D. and D. Pauly. 2011. A brief history of fishing in the Kerguelen Islands. In Harper, S. and D. Zeller, eds. *Fisheries catch reconstructions: Islands, Part II*. Vancouver, B.C., University of British Columbia. Fisheries Centre, 15–20. (Fisheries Centre Research Reports, Vol.19, No.4.) (<http://fisheries.ubc.ca/sites/fisheries.ubc.ca/files/uploads/FCRR/19-4.pdf>.)

- Palter, J.B., S.M. Griffies, B.L. Hunter Samuels, E.D. Galbraith and A. Gnanadesikan. 2012. Processes governing transient responses of the deep ocean buoyancy budget to a doubling of CO₂. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, OS31C-1757, digital media. ([http://fallmeeting.agu.org/2012/.](http://fallmeeting.agu.org/2012/))
- Paparazzo, F.E., I.R. Schloss, V.A. Alder and J.L. Esteves. 2010. Zonation of near-surface Drake Passage waters based on discriminant analysis of environmental data. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 580, CD-ROM.
- Parashar, S., E. Langham and S. Ahmed. 1996. RADARSAT-I system commissioning and beyond. In Malkinson, T.J., ed. *Glimpse into the 21st Century. Canadian Conference on Electrical and Computer Engineering, 26–29 May 1996, Calgary. Proceedings, Vol. I*. Calgary, Alberta, University of Calgary, 5–12.
- Paraskevas, J. 2001. South Pole rescuer Antarctic veteran: pilot hero says historic mercy flight involved international teamwork, reports Joe Paraskevas. *Ottawa Citizen*, 28 April, A.7.
- Parker, L.V., C.W. Sullivan, T.W. Forest and S.F. Ackley. 1985. Ice nucleation activity of Antarctic marine microorganisms. *Antarct. J. U.S.*, **20**(5), 1985 Review, 126–128. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXXn5/AJUSvXXn5p126.pdf>)
- Parker, R.W.R. 2011. Measuring and characterizing the ecological footprint and life cycle environmental costs of Antarctic krill (*Euphausia superba*) products. MES thesis, School for Resource and Environmental Studies, Dalhousie University, Halifax, N.S., xiv + 111 pp. (<http://Dalspace.library.dal.ca/bitstream/10222/13423/1/Parker,Robert,MES,SRES.>)
- Parker, R. and P. Tyedmers. 2012a. Life cycle environmental impacts of meal, oil, and omega-3 capsules derived from an Antarctic krill fishery. *Sustainable Fisheries in a Changing World, 6th World Fisheries Congress, 7–11 May 2012, Edinburgh, Scotland. Book of Abstracts*. Liverpool, UK, Fisheries Society of the British Isles, 104. (Abstract PSC9.05.) ([http://tinyurl.com/kdwlp3e.](http://tinyurl.com/kdwlp3e))
- Parker, R.W.R. and P.H. Tyedmers. 2012b. Life cycle environmental impacts of three products derived from wild-caught Antarctic krill (*Euphausia superba*). *ES&T, Environ. Sci. Technol.*, **46**(9), 4958–4965. (10.1021/es2040703.)
- Parker, R.W.R. and P.H. Tyedmers. 2012c. Uncertainty and natural variability in the ecological footprint of fisheries: A case study of reduction fisheries for meal and oil. *Ecol. Indic.*, **16**, 76–83. (10.1016/j.ecolind.2011.06.015.)
- Parkinson, A.J., H.G. Muchmore, T.A. McConnell, L.V. Scott and J.A.R. Miles. 1980. Serologic evidence for parainfluenzavirus infection during isolation at South Pole Station, Antarctica. *Am. J. Epidemiol.*, **112**(3), 334–340.
- Parmelee, D.F. and S.D. MacDonald. 1973. Birds of Antarctic ice pack. *Antarct. J. U.S.*, **8**(4), 150. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvVIIIIn4/AJUSvVIIIIn4p175.pdf>)
- Parsons, M.A. 2006. International Polar Year Data Management Workshop, 3–4 March 2006, British Antarctic Survey, Cambridge, UK. *Glaciol. Data*, GD-33, 41 pp. (Includes contributions by E.F. LeDrew and P.L. Pulsifer.) (http://nsidc.org/pubs/documents/gd/Glaciological_Data_33.pdf)
- Parsons, M.A. and 6 others (including E. LeDrew and S. Tomlinson). 2011a. A conceptual framework for managing very diverse data for complex, interdisciplinary science. *J. Inf. Sci.*, **37**(6), 555–569. (10.1177/0165551511412705.)
- Parsons, M.A. and 7 others (including S. Tomlinson). 2011b. Chapter 3.11. The state of polar data: the IPY experience. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 457–476. (CCI Occasional Publication 69.) (http://library.arcticportal.org/1211/1/IPY_Summary.pdf)

- Parsons, T.R. 1992. The removal of marine predators by fisheries and the impact of trophic structure. *Mar. Pollut. Bull.*, **25**(1–4), 51–53. (10.1016/0025-326X(92)90185-9.)
- Parush, A., P. Pulsifer, K. Philip and G. Dunn. 2006. Understanding through structure: the challenges of information and navigation architecture in cybercartography. *Cartographica*, **41**(1), Cybercartography, 21–34. (10.3138/C034-6P5T-W322-1G72.)
- Pascale, E. and 29 others (including E.L. Chapin, J. Chung, M. Halpern, C.J. MacTavish, G. Marsden, P.G. Martin, T.G. Martin, C.B. Netterfield, G. Patanchon, D. Scott, M.P. Viero and D.V. Wiebe). 2008. The balloon-borne large aperture submillimeter telescope: BLAST. *Astrophys. J.*, **681**(1). (10.1086/588541.)
- Passchier, S., P.E. O'Brien, J.E. Damuth, N. Januszczak, D.A. Handwerker and J.M. Whitehead. 2003. Pliocene–Pleistocene glaciomarine sedimentation in eastern Prydz Bay and development of the Prydz trough-mouth fan, ODP Sites 1166 and 1167, East Antarctica. *Mar. Geol.*, **199**(3–4), 279–305. (10.1016/S0025-3227(03)00160-9.)
- Passchier, S. and 6 others (and the ANDRILL-SMS Science Team that includes D.R. Schmitt). 2011. Early and middle Miocene Antarctic glacial history from the sedimentary facies distribution in the AND-2A drill hole, Ross Sea, Antarctica. *Geol. Soc. Am. Bull.*, **123**(11–12), 2352–2365. (10.1130/b30334.1.)
- Paterson, W.S.B. 1968. *Canadian drilling program: Summary of deep drilling in glaciers in Canada.* Ottawa, Ont., Energy, Mines and Resources Canada. Polar Continental Shelf Project. (Unpublished mimeo report.) ((n.d.) approximately 1968.)
- Paterson, W.S.B. 1969. *The physics of glaciers. First edition.* Oxford, U.K., etc., Pergamon Press. (Commonwealth International Library of Science and Technology Engineering and Liberal Studies.)
- Paterson, W.S.B. 1976. Radioactive waste disposal in Antarctica: some glaciological aspects. *Mod. Geol.*, **6**, 37–42.
- Paterson, W.S.B. 1977. Secondary and tertiary creep of glacier ice as measured by borehole closure rates. *Rev. Geophys.*, **15**(1), 47–55. (10.1029/RG015i001p00047.)
- Paterson, W.S.B. 1980. Ice sheets and ice shelves. In Colbeck, S.C., ed. *Dynamics of snow and ice masses.* New York, NY, Academic Press, 1–78.
- Paterson, W.S.B. 1981. *The physics of glaciers. Second edition.* Oxford, U.K., etc., Pergamon Press.
- Paterson, W.S.B. 1983a. Deformation within polar ice sheets: an analysis of the Byrd Station and Camp Century borehole-tilting measurements. *Cold Reg. Sci. Technol.*, **8**(2), 165–179. (10.1016/0165-232X(83)90007-1.)
- Paterson, W.S.B. 1983b. Surface profiles of ice sheets. In Robin, G.d.Q., ed. *The climatic record in polar ice sheets.* Cambridge, U.K., Cambridge University Press, 22–25.
- Paterson, W.S.B. 1984. Present and future melting on Antarctic ice shelves. In van Loon, H., ed. *Environment of West Antarctica: potential CO₂-induced changes.* Washington, DC, National Academy Press, National Research Council, Polar Research Board, Committee on Glaciology, 140–154. (Report of a Workshop held in Madison, Wisconsin, 5–7 July 1983.)
- Paterson, W.S.B. 1985a. Ice caps. In Marsh, J.H., ed. *The Canadian Encyclopaedia, Vol. 2.* Edmonton, Alta, Hurtig Publishers Limited, 858.
- Paterson, W.S.B. 1985b. *A numerical model for estimating the response of an ice shelf to CO₂-induced climatic warming.* Boulder, CO, University of Colorado, Cooperative Institute for Research in Environmental Sciences and National Oceanic and Atmospheric Administration. (Report.)
- Paterson, W.S.B. 1987. Glaciology. *Encyclopaedia of physical science and technology, First edition, Vol. 6.* San Diego, CA, Academic Press, 240–263.
- Paterson, W.S.B. 1991. Why ice-age ice is sometimes "soft". *Cold Reg. Sci. Technol.*, **20**(1), 75–98. (10.1016/0165-232X(91)90058-O.)

- Paterson, W.S.B. 1992. Glaciology. In Meyers, R.A., ed. *Encyclopaedia of physical science and technology*, Second edition, Vol. 7. San Diego, CA, Academic Press, 385–409.
- Paterson, W.S.B. 1993. World sea level and the present mass balance of the Antarctic Ice Sheet. In Peltier, W.R., ed. *Ice in the climate system*. Berlin, etc., Springer-Verlag, 131–140. (NATO ASI Series I: Global Environmental Change 12.)
- Paterson, W.S.B. 1994. *The physics of glaciers. Third edition*. Oxford, etc., Elsevier.
- Paterson, W.S.B. and E.D. Waddington. 1984. Past precipitation rates derived from ice core measurements: methods and data analysis. *Rev. Geophys.*, **22**(2), 123–130. (10.1029/RG022i002p00123.)
- Paterson, W.S.B., U. Nitsan and G.K.C. Clarke. 1978. Neustoichivost' pri polzuchesti kak mekhanizm serdzhei lednikov / An investigation of creep instability as a mechanism for glacier surges. *Mater. Glyatsiol. Issled.*, **32**, 82–92 (in Russian); 201–209/278 (in English).
- Patterson, W.P., S.D. Emslie and K.R. Evans. 2004. Major shift in Adélie penguin eggshell isotope values in Antarctica; evidence for diet change approximately 200 years ago. [Paper 121-26.] *Geol. Soc. Am. Abstr. Prog.*, **36**(5), 2004 Denver Annual Meeting, 296. (<http://tinyurl.com/pgxc22o>.)
- Pattyn, F. and 18 others (including C. Schoof). 2012. Results of the Marine Ice Sheet Model Intercomparison Project, MISMIIP. *Cryosphere (TC)*, **6**(3), Special Issue, 573–588. (10.5194/tc-6-573-2012.)
- Paulsen, G. and 11 others (including W. Pollard). 2011. Field testing of the IceBreaker Mars drill in the Antarctic. *Forty-Second Lunar and Planetary Science Conference, 7–11 March 2011, Woodlands, Texas*. Houston, TX, Lunar and Planetary Institute, Abstract #1901, digital media. (www.lpi.usra.edu/meetings/lpsc2011/pdf/1901.pdf.)
- Pauly, D. 2007. The *Sea Around Us* project: documenting and communicating global fisheries impacts on marine ecosystems. *Ambio*, **36**(4), 290–295. (10.1579/0044-7447(2007)36[290:TSAUPD]2.0.CO;2.)
- Pautler, B.G. and 7 others (including A.J. Simpson, M.J. Simpson, A. Dubnick and M.J. Sharp). 2011. Detection and structural identification of dissolved organic matter in Antarctic glacial ice at natural abundance by SPR-W5-WATERGATE 1H NMR spectroscopy. *ES&T, Environ. Sci. Technol.*, **45**(11), 4710–4717. (10.1021/es200697c.)
- Pautler, B.G. and 7 others (including G.C. Woods, A. Dubnick, A.J. Simpson, M.J. Sharp and M.J. Simpson). 2012. Molecular characterization of dissolved organic matter in glacial ice: coupling natural abundance 1H NMR and fluorescence spectroscopy. *ES&T, Environ. Sci. Technol.*, **46**(7), 3753–3761. (10.1021/es203942y.)
- Pawlowski, J. and 6 others (including K. Conlan). 2005. Allogromiid foraminifera and gromiids from under the Ross Ice Shelf: morphological and molecular diversity. *Polar Biol.*, **28**(7), 514–522. (10.1007/s00300-005-0717-6.)
- Pawson, K. 2000. Our last sledge journey (1949 – from Base "G", Admiralty Bay, King George Island, Antarctica). *Seventh Continent [Montréal]*, **9**, 10–16.
- Pawson, K. 2001. *Antarctica: "...to a lonely land I know."*. Inwood, ON, Canada, Whippoorwill Press.
- Payne, A.J., A. Vieli and G.K.C. Clarke. 2004. Modelling the evolution of ice streams. *Eleventh Annual WAIS Workshop, 29 September – 2 October 2004, Algonkian Meeting Center, Sterling, Virginia, U.S.A. Agenda & abstracts*. Boulder, CO, National Snow and Ice Data Center. West Antarctic Ice Sheet Initiative (WAIS), digital media. (www.waisworkshop.org/pastmeetings/abstracts04/Payne.htm.)
- Peden, A.E. and M.E. Anderson. 1978. A systematic review of the fish genus *Lycodapus* (Zoarcidae) with descriptions of two new species. *Can. J. Zool.*, **56**(9), 1925–1961. (10.1139/z78-262.)
- Pedersen, T.F. 2002. Climate change fore and aft: where on Earth are we going? In Steffen, W., J. Jäger, D.J. Carson and C. Bradshaw, eds. *Challenges of a changing Earth. Proceedings of the Global Change Open Science Conference, 10–13 July 2001, Amsterdam, Netherlands*. Berlin, Federal Republic of Germany, Springer-Verlag, 107–108. (Global change: the IGBP series.)

- Pedersen, T.F. and P. Bertrand. 2000. Influences of oceanic rheostats and amplifiers on atmospheric CO₂ content during the Late Quaternary. *Quat. Sci. Rev.*, **19**(1–5), 273–283. (10.1016/S0277-3791(99)00085-2.)
- Peerbaye, S. 2009. *Poems for the Advisory Committee on Antarctic Names*. Fredericton, NB, Goose Lane Editions. (www.gooselane.com/media/663.pdf.)
- Pelletier, É., D. Delille and B. Delille. 2004. Crude oil bioremediation in sub-Antarctic intertidal sediments: chemistry and toxicity of oiled residues. *Mar. Environ. Res.*, **57**(4), 311–327. (10.1016/j.marenvres.2003.07.001.)
- Pelletier, E., D. Delille and F. Coulon. 2010a. Bioremediation potential of bacterial communities for spilled oil spills: examples from Kerguelen Islands and Dumont d'Urville Station. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 591, CD-ROM.
- Pelletier, E., A. Curtosi, C.L. Vodopivec and W.P. Mac Cormack. 2010b. Human impacts in Antarctic Peninsula coastal zones: the case study of Potter Cove, South Shetland Islands. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 592, CD-ROM.
- Peltier, W.R. 1988a. Lithospheric thickness, Antarctic deglaciation history, and ocean basin discretization effects in a global model of postglacial sea level change. In Vlaar, N.J., G. Nolet, M.J.R. Wortel and S.A.P.L. Cloetingh, eds. *Mathematical geophysics: a survey of recent developments in seismology and geodynamics*. Dordrecht, The Netherlands, etc., D. Reidel Publishing Co., 325–346.
- Peltier, W.R. 1988b. Lithospheric thickness, Antarctic deglaciation history, and ocean basin discretization effects in a global model of postglacial sea level change: a summary of some sources of nonuniqueness. *Quat. Res.*, **29**(2), 93–112. (10.1016/0033-5894(88)90054-3.)
- Peltier, W.R. 1993. *Ice in the climate system*. Berlin, etc., Springer-Verlag. (NATO ASI Series I: Global Environmental Change 12.)
- Peltier, W.R. 1995. Geophysical constraints of the global mass balances of glaciated areas. [Abstract H11D-06.] *Eos, Trans. AGU*, **76**(46), Fall Meet. Suppl., F183.
- Peltier, W.R. 1996. Geodetic signatures of the last deglaciation event for Antarctica. [Abstract G42A-2.] *Eos, Trans. AGU*, **77**(22), West. Pac. Geophys. Meet. Suppl., W13.
- Peltier, W.R. 1998a. Antarctic geodetic signature of the ICE-5G model of Late Pleistocene deglaciation. [Abstract G41F-04.] *Eos, Trans. AGU*, **79**(45), Fall Meet. Suppl., F215. (<http://tinyurl.com/o6yf3bl>.)
- Peltier, W.R. 1998b. Earth's rotational response to the late-Pleistocene glacial cycle and to current global change. [Abstract.] *Ann. Geophys.*, **16**, Supplement 1: 23rd EGS General Assembly, 22.
- Peltier, W.R. 1998c. The ice-age geodynamics of Antarctica. In Forsberg, R., M. Feissel and R. Dietrich, eds. *Geodesy on the Move: Gravity, Geoid, Geodynamics, and Antarctica. IAG Scientific Assembly, Rio de Janeiro, 1997*. Heidelberg, Springer-Verlag, 472. (International Association of Geodesy Symposia 119.)
- Peltier, W.R. 2000a. Earth physics and global glacial isostasy: from paleo-geodesy to space-geodesy. In Sideris, M.G., ed. *Gravity, geoid and geodynamics 2000. GGG2000 IAG International Symposium, 31 July–4 August 2000, Banff, Alberta, Canada*. Berlin, etc, Springer-Verlag, 7–12. (International Association of Geodesy Symposia 123.)
- Peltier, W.R. 2000b. Glacial isostatic adjustment constraints on WAIS history. *Seventh Annual WAIS Workshop, September 28–30, 2000, Algonkian Meeting Center in Sterling, Virginia, U.S.A. Agenda & abstracts*. Boulder, CO, National Snow and Ice Data Center. West Antarctic Ice Sheet Initiative (WAIS), digital media. (www.waisworkshop.org/pastmeetings/abstracts00/Peltier.htm.)
- Peltier, W.R. 2003a. GRACE signatures of global glacial isostasy and modern polar ice sheet melting. *Geophys. Res. Abstr.*, **5**, EAE03-A-02943. (www.cosis.net/abstracts/EAE03/02943/EAE03-J-02943.pdf.)

- Peltier, W.R. 2003b. Space geodetic constraints on glacial isostatic adjustment: solving the puzzle of global sea level rise. In Jekeli, C., ed. *Proceedings of the Weikko A. Heiskanen Symposium in Geodesy, 1–4 October 2002, Columbus, Ohio*. Columbus, OH, Ohio State University. Department of Civil and Environmental Engineering and Geodetic Science. Laboratory for Space Geodesy and Remote Sensing, Abstract 3.1, digital media, 27. (www-ceg.eng.ohio-state.edu/~cjekeli/Proc_PC.pdf.)
- Peltier, W.R. 2005a. On the hemispheric origins of meltwater pulse 1a. *Quat. Sci. Rev.*, **24**(14–15), Quaternary land–ocean correlation; a tribute to Professor David Q. Bowen (Maddy, D., editor; et al.), 1655–1671. (10.1016/j.quascirev.2004.06.023.)
- Peltier, W.R. 2005b. Relative sea level and related constraints on the evolution of the Antarctic ice sheet during the most recent glacial–interglacial transition. [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., C11B-02. (www.agu.org/meetings/fm05/waisfm05.html.)
- Peltier, W.R. 2006. Earth rotation constraints upon the rates of disintegration of polar continental ice-sheets and glaciers. *31st Joint Annual Meeting, GAC/MAC, Geological Association of Canada and Mineralogical Association of Canada, 14–17 May 2006, Montreal, QC. Abstracts*. digital media. (http://gac.esd.mun.ca/GAC_2006/search_abs/sub_program.asp?sess=98&form=10&abs_no=567.)
- Peltier, W.R. 2009. Closure of the budget of global sea level rise over the GRACE era: the importance and magnitudes of the required corrections for global glacial isostatic adjustment. *Quat. Sci. Rev.*, **28**(17–18), 1658–1674. (10.1016/j.quascirev.2009.04.004.)
- Peltier, W.R. 2010a. Antarctic deglaciation history: modern geodynamic impacts. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 864, CD-ROM.
- Peltier, W.R. 2010b. Antarctic deglaciation history: the ICE-6g (VM5a) model. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 593, CD-ROM.
- Peltier, W.R. and L.P. Solheim. 2004. The climate of the Earth at Last Glacial Maximum; statistical equilibrium state and a mode of internal variability. *Quat. Sci. Rev.*, **23**(3–4), 335–357. (10.1016/j.quascirev.2003.07.003.)
- Peltier, R., R. Drummond and K. Roy. 2011. Geoid Stokes coefficient variations due to global glacial isostatic adjustment. *Geophys. Res. Abstr.*, **13**, 2011 EGU Gen. Assem., EGU2011-2323. (<http://meetingorganizer.copernicus.org/EGU2011/EGU2011-2323.pdf>.)
- Peltier, W.R., R. Drummond and K. Roy. 2012a. Comment on “Ocean mass from GRACE and glacial isostatic adjustment” by D. P. Chambers et al. *J. Geophys. Res.*, **117**(B11), B11403. (10.1029/2011JB008967.)
- Peltier, W.R., D. Argus, R. Drummond and A.W. Moore. 2012b. Postglacial rebound and current ice loss estimates from space geodesy: the new ICE-6G (VM5a) global model. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, G23C-02, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Pereira, C.P.G. and S.A. Macko. 1994. Middle to late Tertiary paleoclimates of the Weddell Sea region, Antarctica. [Abstract O31C-14.] *Eos, Trans. AGU*, **75**(44), Fall Meet. Suppl., 350–351.
- Pereira, C.P.G., S.A. Macko, D.J.W. Piper, P. Barker and J. Kennett. 1987. Preliminary organic isotopic geochemistry and sedimentological results from ODP Leg 113 cores from the Weddell Sea, Antarctica. *Geol. Soc. Am. Abstr. Prog.*, **19**(7), GSA Annual Meeting and Exposition, 802.
- Pereira, C.P.G., S.A. Macko and D.J.W. Piper. 1988. Cenozoic paleoenvironments of the Weddell Sea, Antarctica; ship and shore-based results from ODP Leg 113. *13th Joint Annual Meeting, GAC/MAC/CSPG/CGU, 23–25 May 1988, St. John's, Newfoundland. Program with Abstracts*. St. John's, Nfld, Geological Association of Canada, A97.

- Pereira, C.P.G., S.A. Macko and P.H. Ostrom. 1990. Late Tertiary sedimentology, palaeoenvironments and climate of the Weddell Sea region: synthesis based on sediment, clay mineralogy and organic isotope geochemistry data. *13th International Sedimentological Congress, 28–31 August 1990, Nottingham, England. Abstracts*. Utrecht, Netherlands, International Association of Sedimentologists. Comparative Sedimentology Division, 419–420.
- Perera, M.H. 1995. Change and continuity in Antarctic environmental protection: politics and policy. Ph.D. thesis, Department of Political Science, Dalhousie University, Halifax, N.S.
- Perez, R.B. *and 7 others* (including R. Gilbert). 2005. Geochemical and rock-magnetic analyses of Kasten cores from the Joinville-d'Urville Trough, northeastern Antarctic Peninsula: results and correlation with the western Antarctic Peninsula. [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., PP41A-0624. (www.agu.org/meetings/fm05/waisfm05.html.)
- Pérez-Torres, E. *and 9 others* (including A.G. Ivanov and N.P.A. Hüner). 2004. The role of photochemical quenching and antioxidants in photoprotection of *Deschampsia antarctica*. *Funct. Plant Biol.*, **31**(7), 731–741. (10.1071/FP03082.)
- Perissinotto, R. and C.M. Duncombe Rae. 1990. Occurrence of anticyclonic eddies on the Prince Edward Plateau (Southern Ocean): effects on phytoplankton biomass and production. *Deep-Sea Res. A*, **37**(5), 777–793. (10.1016/0198-0149(90)90006-H.)
- Perissinotto, R. and C. McQuaid. 1990. Role of the sub-antarctic shrimp *Nauticaris marionis* in coupling benthic and pelagic food-webs. *Mar. Ecol. Progr. Ser.*, **64**, 81–87. (www.int-res.com/articles/meps/64/m064p081.pdf.)
- Perissinotto, R., C.M. Duncombe Rae, B.P. Boden and B.R. Allanson. 1990. Vertical stability as a controlling factor of the marine phytoplankton production at the Prince Edward Archipelago (Southern Ocean). *Mar. Ecol. Progr. Ser.*, **60**, 205–209. (www.int-res.com/articles/meps/60/m060p205.pdf.)
- Perovich, D.K. *and 7 others* (including H.R. Krouse). 2004. Winter sea-ice properties in Marguerite Bay, Antarctica. *Deep-Sea Res. II*, **51**(17–19), 2023–2039. (10.1016/j.dsr2.2004.07.024.)
- Pershing, A.J., L.B. Christensen, N.R. Record, G.D. Sherwood and P.B. Stetson. 2010. The Impact of whaling on the ocean carbon cycle: why bigger was better. *PLoS ONE*, **5**(8), e12444. (10.1371/journal.pone.0012444.)
- Peslier, A.H. *and 6 others* (including C.D.K. Herd and E.L. Walton). 2010. Crystallization, melt inclusion, and redox history of a Martian meteorite: olivine-phyric shergottite Larkman Nunatak 06319. *Geochim. Cosmochim. Acta*, **74**(15), 4543–4576. (10.1016/j.gca.2010.05.002.)
- Peterborough Examiner. 2000. Arctic, Antarctic could be goldmines for dinosaur finds. *Peterborough Exam.*, 27 August, A.3.
- Petersen, G. 1998. Antarctica: the far side. *Seventh Continent [Montréal]*, **5**, 3–8.
- Petersen, S., P.M. Herzig, U. Schwarz-Schampera, M.D. Hannington and I.R. Jonasson. 2004. Hydrothermal precipitates associated with bimodal volcanism in the central Bransfield Strait, Antarctica. *Mineral. Deposita*, **39**(3), 358–379. (10.1007/s00126-004-0414-3.)
- Peterson, K.C.A. 1995. Mineralogy and petrology of Antarctic meteorite DOM85505, and the relationship of unknown inclusions to the host meteorite. [Abstract.] *Atl. Geol.*, **31**(3), 211–212. (<http://tinyurl.com/ouaourw>.)
- Peterson, K.C.A., A.M. Reid and D.W. Mittlefehldt. 1996. Non-chondritic inclusions in the LL chondrite DOM85505. *Twenty-Seventh Lunar and Planetary Science Conference, 18–22 March 1996, Houston, Texas. Abstracts*. Houston, TX, Lunar and Planetary Institute, 1027–1028. (LPI Contribution No.1593.) (Part 3.) (www.lpi.usra.edu/meetings/programs/lpsc96wa.txt.)
- Peterson, W.K., H.L. Collin, A.W. Yau and O.W. Lennartsson. 2001. Polar/Toroidal Imaging Mass-Angle Spectrograph observations of suprathreshold ion outflow during solar minimum conditions. *J. Geophys. Res.*, **106**(A4), 6059–6066. (10.1029/2000JA003006.)

- Petrie, G. 2010a. Antarctic camping; Hardy adventurers experience heart-stopping scenery and the clearest air imaginable. *Times Colonist [Victoria]*, 27 November, D.1.
- Petrie, G. 2010b. Ice time: sleeping on Antarctic cool chance to experience extreme isolation. *Windsor Star*, 27 November, F.1.
- Petrou, K.L., R. Hill, M. Doblin, A. McMinn, D. Campbell and P.J. Ralph. 2008. Light stress in bottom ice microalgal communities from the East Antarctic pack ice. In Klepikoy, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume.* Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S1.2/O28, 92.
- Petrou, K., R. Hill, C.M. Brown, D.A. Campbell, M.A. Doblin and P.J. Ralph. 2010. Rapid photoprotection in sea-ice diatoms from the East Antarctic pack ice. *Limnol. Oceanogr.*, **55**(3), 1400–1407. (10.4319/lo.2010.55.3.1400.)
- Pfaffling, A. and 7 others (including C. Haas). 2007. Review of electromagnetic methods to investigate Arctic and Antarctic sea ice and snow. [Abstract.] *Eos, Trans. AGU*, **88**(52), Fall Meet. Suppl., NS14A-05. (www.agu.org/meetings/fm07/waisfm07.html.)
- Phillips, B. 2009. UNBC students study in the Antarctic. *Prince George Free Press*, A.1.
- Phillips, F., G.B. Burns, W.J.R. French, P.F.B. Williams, A.R. Klekociuk and R.P. Lowe. 2004. Determining rotational temperatures from the OH(8-3) band, and a comparison with OH(6-2) rotational temperatures at Davis, Antarctica. *Ann. Geophys. (ANGEO)*, **22**(5), 1549–1561. (10.5194/angeo-22-1549-2004.)
- Phillips, R.R., D.A. Naylor, R.E. Dahl and L. Knee. 2006. The IRMA water vapour radiometer and its application to remote astronomical site testing. *IRMMW-THz 2006. Joint 31st International Conference on Infrared Millimeter Waves and 14th International Conference on Terahertz Electronics, 18–22 September 2006, Shanghai, China.* Piscataway, NJ, Institute of Electrical and Electronics Engineers, 180. (10.1109/ICIMW.2006.368388.)
- Phillips, S. and R. Mofina. 1993. Team of Calgarians claims world's first Arctic–Antarctic call. *Calgary Herald*, A.1.
- Piactentini, F. and 36 others (including J.R. Bond, L. Miglio, C.B. Netterfield, D. Pogosyan and S. Prunet). 2001. High resolution cosmic microwave background mapping with the BOOMERang experiment. In Aililo, S. and A. Blanco, eds. *What are the prospects for cosmic physics in Italy? Proceedings of the 9th GIFCO Conference, 24–26 May 2000, Lecce, Italy, Vol. 68.* Bologna, Società Italiana di Fisica, 185–188.
- Piactentini, F. and 34 others (including J.R. Bond, C.R. Contaldi, C.B. Netterfield, D. Pogosyan and S. Prunet). 2002. Noise properties of the BOOMERanG instrument. In De Petris, M. and M. Gervasi, eds. *Experimental cosmology at millimetre wavelengths: 2K1BC Workshop, 9–13 July 2001, Valle d'Aosta, Italy.* Washington, DC, American Institute of Physics, 39–43. (AIP Conference Proceedings 616.) (10.1063/1.1475600.)
- Piactentini, F. and 36 others (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, C. MacTavish, C.B. Netterfield, E. Pascale and D. Pogosyan). 2006. A measurement of the polarization-temperature angular cross-power spectrum of the cosmic microwave background from the 2003 flight of BOOMERANG. *Astrophys. J.*, **647**(2), Part 1, 833–839. (10.1086/505557.)
- Piactentini, F. and 39 others (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, C. MacTavish, C.B. Netterfield, E. Pascale and D. Pogosyan). 2007. CMB polarization with Boomerang 2003. *New Astron. Rev.*, **51**(3–4), 244–249. (10.1016/j.newar.2006.11.058.)
- Piana Agostinet, N., A. Amato, M. di Bona and A. Frederiksen. 2002. Lateral variations in crustal structure of northern Victoria Land from teleseismic receiver functions. [Abstract S61C-1154.] *Eos, Trans. AGU*, **83**(47), Fall Meet. Suppl., F990. (www.agu.org/meetings/fm02/waisfm02.html.)

- Picard, G. *and 7 others* (including A. Roy and A. Royer). 2012a. The DMRT-ML model: numerical simulations of the microwave emission of multilayered snowpacks based on the dense media radiative transfer theory. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, C12A-05, digital media. (<http://tinyurl.com/caoqvg6>.)
- Picard, G., F. Domine, G. Krinner, L. Arnaud and E. Lefebvre. 2012b. Inhibition of the positive snow-albedo feedback by precipitation in interior Antarctica. *Nature Clim. Change*, **2**(11), 795–798. (10.1038/nclimate1590.)
- Picard, G. *and 6 others* (including F. Domine). 2012c. Inhibition of the positive snow-albedo feedback by precipitation on the Antarctic Plateau. *Geophys. Res. Abstr.*, **14**, 2012 EGU Gen. Assem., EGU2012-1144. (<http://meetingorganizer.copernicus.org/EGU2012/EGU2012-EGU2012-1144.pdf>.)
- Picard, G. *and 6 others* (including F. Domine). 2012d. Seasonal and inter-annual evolution of snow grain size in Antarctica and consequences for the snow-albedo feedback. *Earth Observation and Cryosphere Science, 13–16 November 2012, Frascati, Italy*. Frascati, Italy, European Space Agency (ESA). European Space Research Institute (ESRIN), digital media. (http://congrexprojects.com/docs/12c20_docs2/2-presentation-picard-esa-clic.pdf?sfvrsn=2.)
- Picard, G., L. Brucker, A. Roy, F. Dupont, M. Fily and A. Royer. 2012e. Simulation of the microwave emission of multi-layered snowpacks using the Dense Media Radiative Transfer theory: the DMRT-ML model. *Geosci. Model Dev. Discuss. (GMDD)*, **5**(4), 3647–3694. (10.5194/gmdd-5-3647-2012.)
- Pickering, K.T., R.N. Hiscott, N.H. Kenyon, F. Ricci Lucchi and R.D.A. Smith, *eds.* 1995. *Atlas of deep water environments: architectural style in turbidite systems*. London, etc., Chapman and Hall.
- Pienitz, R., M.S.V. Douglas and J.P. Smol. 2004a. Epilogue: paleolimnological research from Arctic and Antarctic regions. In Pienitz, R., M.S.V. Douglas and J.P. Smol, *eds.* *Long-term environmental change in Arctic and Antarctic lakes*. Berlin, etc., Springer-Verlag, 509–540. (Developments in Paleoenvironmental Research 8.) (10.1007/978-1-4020-2126-8_16.)
- Pienitz, R., M.S.V. Douglas and J.P. Smol, *eds.* 2004b. *Long-term environmental change in Arctic and Antarctic lakes*. Berlin, etc., Springer-Verlag. (Developments in Paleoenvironmental Research 8.) (10.1007/978-1-4020-2126-8.)
- Pienitz, R., M.S.V. Douglas and J.P. Smol. 2004c. Paleolimnological research in polar regions: an introduction. In Pienitz, R., M.S.V. Douglas and J.P. Smol, *eds.* *Long-term environmental change in Arctic and Antarctic lakes*. Berlin, etc., Springer-Verlag, 1–17. (Developments in Paleoenvironmental Research 8.) (10.1007/978-1-4020-2126-8_1.)
- Pienitz, R., P.T. Doran and S.F. Lamoureux. 2008. Chapter 2. Origin and geomorphology of lakes in the polar regions. In Vincent, W.F. and J. Laybourn-Parry, *eds.* *Polar lakes and rivers: limnology of Arctic and Antarctic aquatic ecosystems*. Oxford, Oxford University Press, 25–42.
- Pieńkowski, A.J., F. Marret, D.N. Thomas, J.D. Scourse and G.S. Dieckmann. 2009. Dinoflagellates in a fast-ice covered inlet of the Riiser-Larsen Ice Shelf (Weddell Sea). *Polar Biol.*, **32**(9), 1331–1343. (10.1007/s00300-009-0630-5.)
- Pillsbury, R.D., E.L. Lewis and S.S. Jacobs. 1983. Ross Sea heat flux experiment field activities. *Antarct. J. U.S.*, **18**(5), 1983 Review, 134–135. (<http://tinyurl.com/np5328f>.)
- Piper, D.J.W. 1975. Chapter Appendix II. Deformation of stiff and semilithified cores from Legs 18 and 28. In Hayes, D.E. and L.A. Frakes, *eds.* *Deep Sea Drilling Project: initial reports, Vol. 28. Freemantle, Australia, to Christchurch, New Zealand: Leg 28*. Washington, DC, U.S. Government Printing Office, July, 977–979. (10.2973/dsdp.proc.28.app2.1975.)
- Piper, D.J.W. and C.B. Brisco. 1975. Chapter 21. Deep-water continental-margin sedimentation, DSDP Leg 28, Antarctica. In Hayes, D.E. and L.A. Frakes, *eds.* *Deep Sea Drilling Project: initial reports, Vol. 28. Freemantle, Australia, to Christchurch, New Zealand: Leg 28*. Washington, DC, U.S. Government Printing Office, July, 727–755. (http://deepsedrilling.org/28/volume/dsdp28_21.pdf.)

- Piper, D.J.W. and G.G. Pe. 1977. Cenozoic clay mineralogy from D.S.D.P. holes on the continental margin of the Australia–New Zealand sector of Antarctica. *New Zeal. J. Geol. Geophys.*, **20**(5), 905–917. (10.1080/00288306.1977.10420687.)
- Pisz, J.M., J.R. Lawrence, A.N. Schafer and S.D. Siciliano. 2007. Differentiation of genes extracted from non-viable versus viable micro-organisms in environmental samples using ethidium monoazide bromide. *J. Microbiol. Meth.*, **71**(3), 312–318. (10.1016/j.mimet.2007.09.015.)
- Pitcher, T. 2002. Simulation models of Antarctic marine ecosystems in support of ecosystem-based management. *CARN Newsl.*, **15**, 5–6. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/15.pdf.)
- Pitcher, T., C. Hoover and E. Pakhomov. 2012. Impacts of warming on the Antarctic Peninsula and fisheries using a spatial ecosystem simulation model. *Sustainable Fisheries in a Changing World, 6th World Fisheries Congress, 7–11 May 2012, Edinburgh, Scotland. Book of Abstracts*. Liverpool, UK, Fisheries Society of the British Isles, 135. (Abstract PSF.11.) (<http://tinyurl.com/kdwlp3e>.)
- Pitman, R.L. and 8 others (including J.R. Towers). 2011. Observations of a distinctive morphotype of killer whale (*Orcinus orca*), type D, from subantarctic waters. *Polar Biol.*, **34**(1), 303–306. (10.1007/s00300-010-0871-3.)
- Plagge, T. and 44 others (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, G.P. Holder, L. Shaw and K. Vanderlinde). 2010. Sunyaev-Zel'dovich cluster profiles measured with the South Pole Telescope. *Astrophys. J.*, **716**(2), 1118–1135. (10.1088/0004-637X/716/2/1118.)
- Plato, N. 2001. *Fossil Bluff waste dump and asbestos survey: Fossil Bluff Field Station, Alexander Island, Antarctic Peninsula*. Iqaluit, Nunavut, Indian and Northern Affairs Canada. Environment and Contaminants Division. (Rapport.)
- Plato, N. and J. Shears. 2003. Investigation of Fossil Bluff waste dump, Fossil Bluff field station Alexander Island, Antarctic Peninsula. In Nahir, M., K. Biggar and G. Cotta, eds. *ARCSACC '03; Third Biennial Workshop on Assessment and Remediation of Contaminated Sites in Arctic and Cold Climates (ARCSACC), 4–6 May 2003, Edmonton, AB, Canada. Proceedings, Vol. 3*. Edmonton, Alta, ARCS ACC, University of Alberta, 141–147.
- Plummer, D. S. Beagley, K. Semeniuk, J. McConnell, J. de Grandpré, V. Formichev and T. Shepherd. 2006. The CMAM transient simulations for CCMVal: chemical overview of Antarctic ozone depletions. *40th CMOS Congress, Weather, Oceans and Climate, Exploring the Connections, 29 May–1 June 2006, Toronto, Ontario. Abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 3B2.3. (www.cmos.ca/CongressAbstracts/cong4006.pdf.)
- Plummer, D., C. Reader and J. Scinocca. 2011. Simulation of changes in stratospheric/tropospheric ozone with the Canadian Middle Atmosphere Model. *WCRP OSC, Climate Research in Service to Society, 24–28 October 2011, Denver, CO, USA*. Geneva, World Meteorological Organization. World Climate Research Programme (WCRP), Poster Th08B, digital media. (<http://tinyurl.com/7cds3bk>.)
- Pocock, T.H. 2004. Phylogeny, photoinhibition and recovery of a new Antarctic psychrophile, *Chlamydomonas raudensis* (UWO241). Ph.D. thesis, Department of Plant Sciences, University of Western Ontario, London, Ont., 209 pp. (<http://alpha.lib.uwo.ca/record=b3712989>.)
- Pocock, T., M.-A. Lachance, T. Pröschold, J.C. Priscu, S.S. Kim and N.P.A. Hüner. 2004. Identification of a psychrophilic green alga from Lake Bonney, Antarctica: *Chlamydomonas raudensis* Ettl. (UWO 241) chlorophyceae. *J. Phycol.*, **40**(6), 1138–1148. (10.1111/j.1529-8817.2004.04060.x.)
- Pocock, T.H., A. Koziak, D. Rosso, S. Falk and N.P.A. Hüner. 2007. *Chlamydomonas raudensis* (UWO 241), chlorophyceae, exhibits the capacity for rapid D1 repair in response to chronic photoinhibition at low temperature. *J. Phycol.*, **43**(5), 924–936. (10.1111/j.1529-8817.2007.00380.x.)
- Pocock, T., A. Vetterli, N. Hüner and S. Falk. 2007. Synergistic effects of salinity and temperature in an extremophilic Antarctic alga (*Chlamydomonas raudensis* UWO 241). [Abstract PS24.9.] *Photosyn. Res.*, **91**(2–3), 298–299. (10.1007/s11120-007-9197-6.)

- Poland, J.S. 2001. The remediation of former military stations in the Canadian Arctic: its relevance to Antarctica. *CARN Newsl.*, **13**, 4–5. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/13.pdf.)
- Poland, J.S. and M.J. Riddle. 2003. Comparison of assessment and remediation of sites in the Canadian Arctic and in Antarctica. In Nahir, M., K. Biggar and G. Cotta, eds. *ARCSACC '03; Third Biennial Workshop on Assessment and Remediation of Contaminated Sites in Arctic and Cold Climates (ARCSACC), 4–6 May 2003, Edmonton, AB, Canada. Proceedings, Vol. 3.* Edmonton, Alta, ARCS ACC, University of Alberta, 159–164.
- Poland, J.S., M.J. Riddle and B.A. Zeeb. 2003. Contaminants in the Arctic and the Antarctic: a comparison of sources, impacts, and remediation options. *Polar Rec.*, **39**(4), 369–383. (10.1017/S0032247403002985.)
- Polavarapu, S., D. Pendlebury and N. McFarlane. 2007. SPARC–IPY Update. *SPARC Newsl.*, **29**, 26. (www.atmos.physics.utoronto.ca/SPARC/Newsletter29/newsletter29.pdf.)
- Polenta, G. and 30 others (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, C.B. Netterfield, D. Pogosyan and S. Prunet.). 2002. Search for non-Gaussian signals in the BOOMERANG maps: pixel-space analysis. *Astrophys. J. Lett.*, **572**(1), Part 1, L27–L31. (30 others (10.1086/341484).)
- Polenta, G. and 41 others (including J.R. Bond, C.R. Contaldi, C. MacTavish, C.B. Netterfield, E. Pascale and D. Pogosyan). 2005. BOOMERanG results. *Adv. Space Res.*, **36**(6), 1064–1069. (10.1016/j.asr.2005.06.080.)
- Polito, M.J., W.Z. Trivelpiece, N.J. Karnovsky, E. Ng, W.P. Patterson and S.D. Emslie. 2011. Integrating stomach content and stable isotope analyses to quantify the diets of Pygoscelid penguins. *PLoS ONE*, **6**(10), e26642. (10.1371/journal.pone.0026642.)
- Polito, M., R. Brasso, W. Trivelpiece, W. Patterson and S. Emslie. 2012. Generalist and specialist foraging strategies influence mercury (Hg) exposure in sympatrically breeding *Pygoscelis* penguins. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon.* Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (<http://tinyurl.com/o4y9j7h>.)
- Pollard, W. 2001a. Reports on SCAR Working Groups meetings, Tokyo, July 2000. Working Group on Geology. *CARN Newsl.*, **12**, 10–11. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/12.pdf.)
- Pollard, W. 2001b. Subglacial–deep ice research activities. In Løken, O.H. and N.J. Couture, eds. *Subglacial lake and deep ice exploration: Canadian expertise and international opportunities.* Ottawa, Ont., Canadian Polar Commission, May, 22. (<http://tinyurl.com/ldpyl3m>)
- Pollard, W.H. 2002a. Bipolar science: a Canadian contribution to Earth system science. *Meridian/Méridien*, **2002**, 2–5. (www.polarcom.gc.ca/uploads/Publications/Meridian%20Newsletter/meri_02_spring_en.pdf.)
- Pollard, W. 2002b. SCAR report: Geosciences Standing Scientific Group. *CARN Newsl.*, **15**, 9. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/15.pdf.)
- Pollard, W. 2004a. Geosciences. In Loken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research.* Ottawa, Ont., Canadian Polar Commission, February, 37–39. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/Polar%20Connections.pdf.)
- Pollard, W. 2004b. Introduction to Session 1. Key issues and Canadian expertise. In Loken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research.* Ottawa, Ont., Canadian Polar Commission, February, 34–35. (<http://tinyurl.com/oqmdpbo>.)
- Pollard, W. 2005. Message from the CCAR Chair. *CARN Newsl.*, **20**, 16. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/20.pdf.)
- Pollard, W.H. 2008. The effects of climate change on polar landscapes. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume.* Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract K/006, 60.

- Pollard, W. and D. Lacelle. 2012. The nature and stability of ground ice: a bipolar comparison. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 2557, digital media. (<http://tinyurl.com/pnhs7xd>.)
- Pollard, W. and W. Vincent. 2004. Introduction to Session 2. Cross-disciplinary research themes. In Loken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research*. Ottawa, Ont., Canadian Polar Commission, February, 43–44. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/Polar%20Connections.pdf.)
- Pollard, W., P.T. Doran and R.A. Wharton. 1999. The nature of massive ground ice in Ross Sea drift, Garwood Valley, McMurdo Sound. In Skinner, D.N.B., ed. *8th International Symposium on Antarctic Earth Sciences, Wellington, New Zealand. Programme and abstracts*. Wellington, Royal Society of New Zealand, 244.
- Pollard, W., P. Doran and R. Wharton. 2002. The nature and significance of massive ground ice in Ross Sea drift, Garwood Valley, McMurdo Sound. In Gamble, J.A., D.N.B. Skinner and S.A. Henrys, eds. *Antarctica at the close of a millenium*. Wellington, Royal Society of New Zealand, 397–404. (RSNZ Bulletin 35.)
- Pollard, W., D. Lacelle, D. Andersen and C. McKay. 2010. The role of massive ground ice in landscape development in the McMurdo Dry Valleys, Antarctica. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 385883, digital media. (www.ipy-osc.no/abstract/385883.)
- Pollard, W.H. and 6 others. 2012. Ground ice conditions in University Valley, McMurdo Dry Valleys, Antarctica. In Hinkel, K.M., ed. *TICOP 2012, Proceedings of the Tenth International Conference on Permafrost, Salekhard, Yamal-Nenets Autonomous District, Russia, June 25–29, 2012, Vol. 1: International Contributions*. Salekhard, The Northern Publisher, 305–310.
- Polson, N. 2003. Antarctic research isn't a frivolous indulgence. *Courier-Islander [Campbell River]*, A.11.
- Polvani, L.M. and S. Son. 2008. The ozone hole and climate change. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., A43E-07. (www.agu.org/meetings/fm08/waisfm08.html.)
- Polvani, L.M., D.W. Waugh, G. Correa and S.W. Son. 2010. Ozone depletion, increasing greenhouse gases, and Southern Hemisphere climate change. *Geophys. Res. Abstr.*, **12**, 2010 EGU Gen. Assem., EGU2010-9477. (<http://meetingorganizer.copernicus.org/EGU2010/EGU2010-9477.pdf>.)
- Polvani, L.M., D. Waugh, G.J.P. Correa and S.W. Son. 2011a. Stratospheric ozone depletion: the main driver of 20th century atmospheric circulation changes in the Southern Hemisphere? *91st Annual Meeting, 23–27 January 2011, Seattle, Washington*. Boston, MA, American Meteorological Society, Paper 185379. (<http://ams.confex.com/ams/91Annual/webprogram/Paper185379.html>; <http://tinyurl.com/qy5sv8e>.)
- Polvani, L.M., D.W. Waugh, G.J.P. Correa and S.-W. Son. 2011b. Stratospheric ozone depletion: the main driver of twentieth-century atmospheric circulation changes in the Southern Hemisphere. *J. Climate*, **24**(3), 795–812. (10.1175/2010JCLI3772.1.)
- Pomeroy, J.W. and H.G. Jones. 1996. Wind-blown snow: sublimation, transport and changes to polar snow. In Wolff, E.W. and R.C. Bales, eds. *Chemical exchange between the atmosphere and polar snow*. Berlin, etc., Springer-Verlag, 453–489. (NATO ASI Series I: Global Environmental Change 43.)
- Pompilio, M., P. Kyle, T. Wilch, N. Dunbar and the ANDRILL-MIS Science team (that includes D.R. Schmitt). 2007. The volcanic record in the ANDRILL McMurdo Ice Shelf AND-1B drill core. In Cooper, A.K., P. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007*. Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (*U.S. Geol. Surv. Open-File Rep.* 2007-1047.) (Extended Abstract 199.) (<http://tinyurl.com/pdvwa7r>.)

- Poole, E. and M. Reid. 2001. Antarctic rescuers hoping for break in weather. *Edmonton J.*, B.14.
- Porter, J. 1997. The enigma of Antarctic postage stamps. *Seventh Continent [Montréal]*, **4**, 13–14.
- Pörtner, H.-O. and R.C. Playle, eds. 1998. *Cold ocean physiology*. Cambridge, U.K., Cambridge University Press. (Society for Experimental Biology Seminar Series 66.)
- Posmentier, E.S., X. Feng, A.M. Faiia and F.A. Michel. 2008. Isotopic fingerprint of polar sea ice extent in high latitude precipitation. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., A21D-0206. (www.agu.org/meetings/fm08/waisfm08.html.)
- Poss, C., T. Marik, C. Veidt, D. Worthy and I. Levin. 2003a. Long-term observations of atmospheric methane and its isotopic composition at Alert (Canada) and Neumayer (Antarctica) *Geophys. Res. Abstr.*, **5**, EAE03-A-12827. (www.cosis.net/abstracts/EAE03/12827/EAE03-J-12827.pdf.)
- Poss, C., C. Veidt, D.E. Worthy and I. Levin. 2003b. The stable isotopes of atmospheric methane: long-term observations at Alert (Canada) and Neumayer (Antarctica). *Eos, Trans. AGU*, **84**(46), Fall Meet. Suppl., Abstract A42D-06. (www.agu.org/meetings/fm03/waisfm03.html.)
- Possmayer, M., G. Berardi, B.F.N. Beall, C.G. Trick, N.P.A. Hüner and D.P. Maxwell. 2011. Plasticity of the psychrophilic green alga *Chlamydomonas raudensis* (UWO 241) (Chlorophyta) to supraoptimal temperature stress. *J. Phycol.*, **47**(5), 1098–1109. (10.1111/j.1529-8817.2011.01047.x.)
- Poulin, M., ed. 1991. *Proceedings of the Third Polar Diatom Colloquium, Canadian Museum of Nature, Ottawa, Ontario, Canada, August 5–10, 1990*. Ottawa, Ont., Fisheries and Oceans Canada. (Canadian Technical Report of Fisheries and Aquatic Sciences 1781.)
- Poulin, M. 2000. Studying Antarctic diatoms. *CARN Newsl.*, **10**, 9–10. (<http://tinyurl.com/762xo8f>.)
- Poussart, P.F. 1998. Late Ordovician glaciation: modelling experiments of a paradox. M.Sc. thesis, School of Earth and Ocean Sciences, University of Victoria, Victoria, B.C., x + 133 pp. (www.nlc-bnc.ca/obj/s4/f2/dsk2/ftp01/MQ37415.pdf.)
- Poussart, P.F., A.J. Weaver and C.R. Barnes. 1999. Late Ordovician glaciation under high atmospheric CO₂: a coupled model analysis. *Paleoceanography*, **14**(4), 542–558. (10.1029/1999PA900021.)
- Powell, C.M., Z.X. Li, M.W. McElhinny, J.G. Meert and J.K. Park. 1993. Paleomagnetic constraints on timing of the Neoproterozoic breakup of Rodinia and the Cambrian formation of Gondwana: with Suppl. Data 9335. *Geology*, **21**(10), 889–892. (10.1130/0091-7613(1993)021<0889:PCOTOT>2.3.CO;2.)
- Powell, R.D. and 8 others (and the ANDRILL-MIS Science Team that includes D.R. Schmitt). 2007. Antarctic ice sheet Dynamics through the Neogene from evidence in the ANDRILL-McMurdo Ice Shelf Project drillcore (AND-1B). In Cooper, A.K., P. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007*. Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (*U.S. Geol. Surv. Open-File Rep.* 2007-1047.) (Extended Abstract 201.) (<http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea201.pdf>.)
- Powell, R., T. Naish and the ANDRILL MIS Science Team (that includes D.R. Schmitt). 2008. Plio-Pleistocene Antarctic climate from ANDRILL's McMurdo ice shelf site and implications for bi-polar climate linkage. *33rd International Geological Congress, 6–14 August 2008, Oslo, Norway. Abstracts*. Oslo, Norway, International Geological Congress, Abstract AAB02806L, digital media. (www.cprm.gov.br/33IGC/1345130.html.)
- Powell, R.D., T.R. Naish, R.H. Levy, R. DeConto, D. Pollard and the ANDRILL-MIS Science Team (that includes D.R. Schmitt). 2012. ANDRILL-McMurdo Ice Shelf project: long- and short-term responses of the Antarctic ice sheet during the Plio-Pleistocene and their implications from drill cores and modeling. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 1545, digital media. (<http://tinyurl.com/ovvcv5b>.)

- Powell, S.M., S.H. Ferguson, I. Snape and S.D. Siciliano. 2006a. Fertilization stimulated anaerobic fuel degradation of Antarctic soils by denitrifying microorganisms. *ES&T, Environ. Sci. Technol.*, **40**(6), 2011–2017. (10.1021/es051818t.)
- Powell, S.M., W.K. Ma and S.D. Siciliano. 2006b. Isolation of denitrifying bacteria from hydrocarbon-contaminated Antarctic soil. *Polar Biol.*, **30**(1), 69–74. (10.1007/s00300-006-0161-2.)
- Powell, S.M. and 6 others (including S.D. Siciliano). 2006c. Microbial ecology of hydrocarbon-contaminated Antarctic sites. *Second SCAR Open Science Conference, Antarctica in the Earth System, 12–14 July 2006, Hobart, Tasmania*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 237, digital media. (www.scarcomnap2006.org/abstract/pdf/SCARXXIX_0237.PDF.)
- Pozo, K., T. Harner, F. Wania, D.C.G. Muir, K.C. Jones and L.A. Barrie. 2006. Toward a global network for persistent organic pollutants in air: results from the GAPS study. *ES&T, Environ. Sci. Technol.*, **40**(16), 4867–4873. (10.1021/es060447t.)
- Prairie, Y.T., R.H. Peters and D.F. Bird. 1995. Hydrochemical response of upland Precambrian Shield catchments to additions of H_2SO_4 and NH_4NO_3 during snowmelt. *Can. J. Fish. Aquat. Sci.*, **52**(4), 788–798. (10.1139/f95-078.)
- Pravdivtseva, O., A. Meshik, C.M. Hohenberg and Y. Amelin. 2006. New I-Xe ages of chondrules from the ordinary L4 chondrite Saratov. *Thirty-Seventh Lunar and Planetary Science Conference, 13–17 March 2006, League City, Texas*. Houston, TX, Lunar and Planetary Institute, Abstract #2418, digital media. (LPI Contribution No.1303.) (www.lpi.usra.edu/meetings/lpsc2006/pdf/2418.pdf.)
- Pretorius, W., J.S. Scoates, D. Weis and N. Mattioli. 2005. Siderophile element geochemistry of restitic and cumulate xenoliths from the southeast province of the Kerguelen Archipelago. *Geochim. Cosmochim. Acta*, **69**(10), Supplement, Goldschmidt Conference 2005, A856. (<http://tinyurl.com/pwsezq2>.)
- Price, D.D.F., W. Rack, P. Langhorne and C. Haas. 2011. Three-dimensional assessment of sea ice in McMurdo Sound, Antarctica, using satellite data sets. *SIRG 2011, Snow and Ice Research Group (NZ) Annual Workshop, 9–11 February 2011, Fox Glacier Township, New Zealand. Schedule and abstracts*. Christchurch, Gateway Antarctica, University of Canterbury, 24. (<http://tinyurl.com/oqn18hq>.)
- Price, D., W. Rack, C. Haas, P. Langhorne and O. Marsh. 2012a. Assessment of sea ice freeboard and thickness in McMurdo Sound, Antarctica, derived by ground validated satellite altimeter data. *ISPRS - Int. Arch. Photogramm. Rem. Sens. Spatial Inf. Sci.*, **XXXIX**(B8), XXII ISPRS Congress, Commission VIII., 585–590. (10.5194/isprsarchives-XXXIX-B8-585-2012.)
- Price, D., W. Rack, P. Langhorne and C. Haas. 2012b. Freeboard measurements of sea ice in McMurdo Sound, Antarctica, based on satellite altimetry and ground validation. *SIRG 2012, Snow & Ice Research Group (NZ) Annual Workshop, 13–15 February 2012, Lake Ruataniwha Rowing Complex, Twizel, New Zealand. Schedule & abstracts*. Christchurch, Gateway Antarctica, University of Canterbury, 14. (www.sirg.org.nz/abstracts/SIRG2012Twizel_Programme.pdf.)
- Price, H.J., K.R. Boyd and C.M. Boyd. 1988. Omnivorous feeding behavior of the Antarctic krill *Euphausia superba*. *Mar. Biol.*, **97**(1), 67–77. (10.1007/BF00391246.)
- Priestley, R.E. and C.S. Wright. 1928. Some ice problems of Antarctica. In Joerg, W.L.G., ed. *Problems of polar research*. New York, American Geographical Society, 331–341. (AGS Special Publication 7.)
- Prikryl, P. and P.T. Jayachandran. 2012. Ionospheric GPS scintillation monitoring in the Arctic and Antarctic. *CARN News*, **31**, 8–14. (<http://tinyurl.com/pnzjyjb>.)
- Prikryl, P., D.B. Muldrew, G.J. Sofko and J.M. Ruohoniemi. 2004a. Solar wind Alfvén waves: a source of pulsed ionospheric convection and atmospheric gravity waves. [Abstract SM31A-11.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA415. (www.agu.org/meetings/sm04/waissm04.html.)
- Prikryl, P., H.G. James, J.W. MacDougall and G.J. Sofko. 2004b. Transionospheric HF propagation from SuperDARN and CADI transmitters. [Abstract SM31A-10.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA415. (www.agu.org/meetings/sm04/waissm04.html.)

- Prikryl, P. and 8 others (including P.T. Jayachandran, E. Spanswick and E. Donovan). 2010a. First comparative scintillation study using Arctic and Antarctic GPS receiver arrays. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 626, CD-ROM.
- Prikryl, P., P.T. Jayachandran, S.C. Mushini, E.F. Donovan and E.L. Spanswick. 2010b. GPS phase scintillation in the cusp and in the nightside auroral oval: why are they different? [Abstract.] *Eos, Trans. AGU*, **91**(26), Meet. Americas Suppl., SA31C-04. (www.agu.org/meetings/ja10/program/abstract-database.php?sel=1.)
- Prikryl, P., P.T. Jayachandran and S.C. Mushini. 2010c. GPS scintillation climatology study with Canadian High Arctic ionospheric network. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 625, CD-ROM.
- Prikryl, P. and 11 others (including P.T. Jayachandran, D.W. Danskin, E.L. Spanswick and E.F. Donovan). 2010d. Inter-hemispheric comparison of GPS phase scintillation at high latitudes during the magnetic-cloud-induced geomagnetic storm of April 5–7, 2010. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, SM14A-03, digital media. (www.agu.org/cgi-bin/wais?ss=SM14A-03.)
- Prikryl, P. and 18 others (including P.T. Jayachandran, D.W. Danskin, E. Spanswick and E. Donovan). 2011. Interhemispheric comparison of GPS phase scintillation at high latitudes during the magnetic-cloud-induced geomagnetic storm of 5–7 April 2010. *Ann. Geophys. (ANGEO)*, **29**(12), 2287–2304. (10.5194/angeo-29-2287-2011.)
- Prikryl, P. and 15 others (including R. Ghoddousi-Fard, P.T. Jayachandran, D.W. Danskin, E.L. Spanswick and E.F. Donovan). 2012a. Interhemispheric comparison of GPS phase scintillation and auroral emission observed from the ground and DMSP satellite. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_28.pdf.)
- Prikryl, P., P.T. Jayachandran, S.C. Mushini and I.G. Richardson. 2012b. Probabilistic forecasting of high-latitude GPS phase scintillation. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_28.pdf.)
- Prikryl, P., V. Sreeja, M. Aquino and P.T. Jayachandran. 2012c. Probabilistic forecasting of ionospheric scintillation and GNSS receiver signal tracking performance at high latitudes. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, G14A-03, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Prince George Citizen. 2005. UNBC set to host Antarctic slideshow. *Prince George Citizen*, 20 October, 13.
- Prince George Citizen. 2010. Film Antarctic Challenge to screen at UNBC. *Prince George Citizen*, 20 March, 3.
- Pritchard, M.S., A.B.G. Bush and S.J. Marshall. 2006. Modelling the dynamic interaction of continental ice sheets with the atmosphere. *31st Joint Annual Meeting, GAC/MAC, Geological Association of Canada and Mineralogical Association of Canada, 14–17 May 2006, Montreal, QC. Abstracts*. digital media. (http://gac.esd.mun.ca/GAC_2006/search_abs/sub_program.asp?sess=98&form=10&abs_no=690.)
- Proffitt, K.M., R.A. Garrott, J.J. Rotella and S. Lele. 2008. Using form analysis techniques to improve photogrammetric mass-estimation methods. *Mar. Mammal Sci.*, **24**(1), 147–158. (10.1111/j.1748-7692.2007.00171.x.)
- Pross, J. and 16 others (including D.R. Greenwood). 2012. Persistent near-tropical warmth on the Antarctic continent during the early Eocene epoch. *Nature*, **488**(7409), 73–77. (10.1038/nature11300.)

- Provencher, J. and 13 others (including J. Bellman and D. Hik). 2011. *Polar, research, education, outreach and communication during the fourth IPY: how the 2007–2008 International Polar Year contributed to the future of education, outreach and communication*. Paris, International Council for Science (ICSU). Association of Polar Early Career Scientists. (<http://tinyurl.com/79wnrcg>.)
- Province [Vancouver]. 1991. New pact protects Antarctic. *Province [Vancouver]*, 4 October, A.33.
- Pruett, L.E., K.J. Kruetz, M. Wadleigh, E.R. Sholkovitz and P.A. Mayewski. 2002. Stable sulfur isotope ratios ($\delta^{34}\text{S}$) in a West Antarctic firn core: assessment of sulfate source and deposition. [Abstract A41A-08.] *Eos, Trans. AGU*, **83**(19), Spring Meet. Suppl., S51. (www.agu.org/meetings/sm02/waissm02.html.)
- Pruett, L.E., K.J. Kruetz, M. Wadleigh, P.A. Mayewski and A. Kurbatov. 2004. Sulfur isotopic measurements from a West Antarctic ice core: implications for sulfate source and transport. *Ann. Glaciol.*, **39**, 161–168. (10.3189/172756404781814339.)
- Puestow, T.M., J. Holfort and A. Fleming. 2010. Towards the integration of operational sea ice information: the IPY ice logistics portal. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382641, digital media. (www.ipy-osc.no/abstract/382641.)
- Pulsifer, P. 2003a. Canadian Antarctic science data. *CARN Newsl.*, **17**, 13. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/17.pdf.)
- Pulsifer, P.L. 2003b. Updates from Geographic Information Group (GIG) members and Joint Committee on Antarctic Data Management (JCADM). *SCAR Cybercartographic Atlas of Antarctica Development Workshop, October 2003, Ottawa, Ontario*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies, presentation.
- Pulsifer, P.L. 2005. Antarctic data management and geographic information. *CARN Newsl.*, **19**, 12. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/19.pdf.)
- Pulsifer, P.L. 2006. Canada's National Antarctic Data Centre: recent developments and future directions. *Second SCAR Open Science Conference, Antarctica in the Earth System, 12–14 July 2006, Hobart, Tasmania*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 589, digital media. (www.scarcomnap2006.org/abstract/pdf/SCARXXIX_0589.PDF.)
- Pulsifer, P.L. and A.P.R.C. Cooper. 2006. A topographic grammar for Antarctica: features, semantics and ontology. *Second SCAR Open Science Conference, Antarctica in the Earth System, 12–14 July 2006, Hobart, Tasmania*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 303, digital media. (www.scarcomnap2006.org/abstract/pdf/SCARXXIX_0303.PDF.)
- Pulsifer, P.L. and D.R.F. Taylor. 2003a. The Cybercartographic Atlas of Antarctica development framework. *SCAR Cybercartographic Atlas of Antarctica Development Workshop, October 2003, Ottawa, Ontario*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies, presentation.
- Pulsifer, P.L. and D.R.F. Taylor. 2003b. The Cybercartographic Atlas of Antarctica: towards implementation. *2nd International Antarctic GIS Workshop, 7–10 April 2003, Freiburg, Germany*. Freiburg, Albert-Ludwigs-Universität. Institut für Physische Geographie, presentation.
- Pulsifer, P.L. and D.R.F. Taylor. 2003c. Cybercartography in support of Antarctic earth science. [Abstract.] *Terra Nostra [Bonn]*, **2003-4**, 9th Int. Symp. on Ant. Earth Sci., 267.
- Pulsifer, P. and D.R.F. Taylor. 2003d. Multidimensional cartographic representation for Antarctic science. *SCAR Cybercartographic Atlas of Antarctica Development Workshop, October 2003, Ottawa, Ontario*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies, presentation.
- Pulsifer, P.L. and D.R.F. Taylor. 2003e. National nodes of the Cybercartographic Atlas of Antarctica: towards an Antarctic data infrastructure. *SCAR Cybercartographic Atlas of Antarctica Development Workshop, October 2003, Ottawa, Ontario*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies, presentation.

- Pulsifer, P.L. and D.R.F. Taylor. 2003f. Update on the Cybercartographic Atlas of Antarctica project: developments since AntGIS 2003, Freiburg. *SCAR Cybercartographic Atlas of Antarctica Development Workshop, October 2003, Ottawa, Ontario*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies, presentation.
- Pulsifer, P.L. and D.R.F. Taylor. 2004a. Building a data infrastructure in support of the Cybercartographic Atlas of Antarctica. *XXVIII SCAR Open Science Conference, 26–28 July 2004, Bremen, Germany. Abstracts*. Cambridge, U.K., Scientific Committee on Antarctic Research, S15/O17.
- Pulsifer, P.L. and D.R.F. Taylor. 2004b. Communicating Antarctic science using open source software. *Open Source GIS Conference 2004 & Second Annual Map Server User Meeting, 9–11 June 2004, Carleton University, Ottawa, Canada. Proceedings*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies, digital media.
(www.omsug.ca/dl/osgis2004/pulsifer_caap_osgis_presentation_06092004_final.ppt.)
- Pulsifer, P.L. and D.R.F. Taylor. 2005. Antarctic geospatial information: research & development directions lessons from the design of an on-line atlas. *NSF Workshop on Geospatial Solutions for Antarctic Research, 7–8 March 2005, The Pier 5 Hotel, Baltimore, MD*. Washington, DC, U.S. Geological Survey. National Science Foundation, presentation.
- Pulsifer, P.L. and B.A. Woods. 2004. *Multimedia object video: Dry Valleys simulated flythrough*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies. Geomatics and Cartographic Research Centre.
- Pulsifer, P., D.R.F. Taylor, B. Eddy and T. Lauriault. 2003. Cybercartography and the new information economy: Canada's trade with the world and the Cybercartographic Atlas of Antarctica. *ICC 2003, International Cartographic Conference, 10-16 August 2003, Durban, South Africa. Proceedings*. Durban, South Africa, International Cartographic Association. ICC 2003, 1093–1101.
(www.carleton.ca/gcrc/caap/papers/pulsifer_etal_icc_2003_arch_vers.pdf.)
- Pulsifer, P.L., A. Parush, G. Lindgaard and D.R.F. Taylor. 2005a. Chapter 20. The development of the Cybercartographic Atlas of Antarctica. In Taylor, D.R.F., ed. *Cybercartography: theory and practice*. Amsterdam, Elsevier, 461–490. (Modern Cartography Series 4.) (10.1016/S1363-0814(05)80023-1.)
- Pulsifer, P., A. Hayes, J.-P. Fiset, S. Caquard, B.A. Woods and X. Liu. 2005b. Interactive, multimedia cartography using open source mapping technologies: the Cybercartographic Atlas of Antarctica experience. *Open Source Geospatial '05 – MUM3/EOGEO, 16–18 June 2005, University of Minnesota, Minneapolis, MN, USA*. Minneapolis, MN, University of Minnesota, presentation.
- Pulsifer, P.L., S. Caquard and D.R.F. Taylor. 2006a. An atlas for polar science: the Cybercartographic Atlas of Antarctica and beyond. *Second SCAR Open Science Conference, Antarctica in the Earth System, 12–14 July 2006, Hobart, Tasmania*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 438, digital media. (www.scarcomnap2006.org/abstract/pdf/SCARXXIX_0438.PDF.)
- Pulsifer, P.L., S. Caquard and D.R.F. Taylor. 2006b. Toward a new generation of community atlases: the Cybercartographic Atlas of Antarctica. In Cartwright, W., M.P. Peterson and G. Gartner, eds. *Multimedia cartography, Second edition*. New York, etc., Springer-Verlag, 195–216. (10.1007/978-3-540-36651-5_14.)
- Pulsifer, P.L., A. Hayes and J.P. Fiset. 2007. An education and outreach atlas based on geospatial infrastructure: lessons learned from the development of an on-line polar atlas. *IPY GeoNorth 2007, First International Circumpolar Conference on Geospatial Sciences and Applications, 20–24 August 2007, Yellowknife, N.W.T., Canada. Proceedings*. Ottawa, Ont., Canadian Institute of Geomatics, CD-ROM.
- Pulsifer, P.L., A. Hayes, J.-P. Fiset and D.R.F. Taylor. 2008. An education and outreach atlas based on geographic infrastructure: lessons learned from the development of an on-line polar atlas [Atlas pédagogique destiné au grand public fondé sur une infrastructure géographique : leçons tirées de la conception d'un atlas polaire en ligne]. *Geomatica*, **62**(2), 169–188

- Purich, A. and S.-W. Son. 2012. Impact of Antarctic ozone depletion and recovery on Southern Hemisphere precipitation, evaporation and extreme changes. *J. Climate*, **25**(9), 3145–3154. (10.1175/JCLI-D-11-00383.1.)
- Purich, A., S.W. Son and J. Derome. 2011. Assessing the influence of ozone hole depletion and recovery on Southern Hemisphere hydrological climate change. *Earth on the Edge: Science for a Sustainable Planet, XXV IUGG General Assembly, 28 June – 7 July 2011, Melbourne, Australia.* Melbourne, Vic., International Union of Geodesy and Geophysics. Monash University School of Geosciences, Abstract 963, digital media. (www.iugg2011.com/abstracts/pdf/abstracts/81106015Abstract00993.pdf.)
- Quartino, L. and 14 others (including I. Schloss). 2012. ESF-IMCOAST: an integrated multi-disciplinary study of coastal climate change effects in Western Antarctica. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon.* Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_32.pdf.)
- Quayle, W.C., L.S. Peck, H. Peat, J.C. Ellis-Evans and P.R. Harrigan. 2002. Extreme responses to climate change in Antarctic lakes. *Science*, **295**(5555), 645. (10.1126/science.1064074.)
- Queen, L. 2006. Antarctic trek lures Scarborough students. *Scarborough Mirror*, 14 December, 1.
- Queen's University. 2005. Ice shelf disintegration threatens environment, Queen's study. *ScienceDaily*, 9 August, digital media. (www.sciencedaily.com/releases/2005/08/050804123855.htm.)
- Querel, R., R. Dahl, D. Naylor and R. Phillips. 2007. Design of an infrared water vapour monitor for measurements of the atmospheric water content in Antarctica. *IRMMW-THz 2007, Joint 32nd International Conference on Infrared and Millimeter Waves and 15th International Conference on Terahertz Electronics, 2–7 September 2007, Cardiff, UK. Proceedings.* Piscataway, NJ, Institute of Electrical and Electronics Engineers, 714–715.
- Quesada, A. and W.F. Vincent. 1993. Adaptation of cyanobacteria to the light regime within Antarctic microbial mats. *Verh. Int. Ver. Theor. Angew. Limnol. [Stuttgart]*, **25**(2), 960–965.
- Quesada, A. and W.F. Vincent. 1997. Strategies of adaptation by Antarctic cyanobacteria to UV radiation. *Eur. J. Phycol.*, **32**(4), 335–342. (10.1080/09670269710001737269.)
- Quesada, A. and W.F. Vincent. 2012. Cyanobacteria in the cryosphere: snow, ice and extreme cold. In Whitton, B.A., ed. *Ecology of cyanobacteria II: their diversity in space and time.* Dordrecht, etc., Springer, 387–399. (10.1007/978-94-007-3855-3_14.)
- Quesada, A., J.-L. Mouget and W.F. Vincent. 1995. Growth of Antarctic cyanobacteria under ultraviolet radiation: UVA counteracts UVB inhibition. *J. Phycol.*, **31**(2), 242–248. (10.1111/j.0022-3646.1995.00242.x.)
- Quesada, A. and 7 others (including W.F. Vincent, I. Laurion and R. Pienitz). 2006. Chapter 11. Landscape control of high latitude lakes in a changing climate. In Bergstrom, D.M., P. Convey and A.H.L. Huiskes, eds. *Trends in Antarctic terrestrial and limnetic ecosystems: Antarctica as a global indicator.* Dordrecht, etc., Springer-Verlag, 221–251.
- Rabier, F. and 8 others (including P. Gauthier). 2008. An update on THORPEX-related research in data assimilation and observing strategies. *Nonlinear Process. Geophys.*, **15**(1), Special Issue, 81–94. (10.5194/npg-15-81-2008.)
- Rabinovich, A.B., P.L. Woodworth and V.V. Titov. 2011. Deep-sea observations and modeling of the 2004 Sumatra tsunami in Drake Passage. *Geophys. Res. Lett.*, **38**(16), L16604. (10.1029/2011GL048305.)
- Rabus, B.T. and O. Lang. 2003. Interannual surface velocity variations of Pine Island Glacier, West Antarctica. *Ann. Glaciol.*, **36**, 205–214. (10.3189/172756403781816239.)
- Rabus, B.T., O. Lang and U. Adolphs. 2003. Interannual velocity variations and recent calving of Thwaites Glacier Tongue, West Antarctica. *Ann. Glaciol.*, **36**, 215–224. (10.3189/172756403781816176.)

- Race, M.S. and 12 others (including G. Clarke and W. Vincent). 2007. Guidelines to avoid biocontamination of Antarctic subglacial aquatic environments: forward contamination concerns, environmental management and scientific stewardship of icy analogue environments. [Abstract.] *Eos, Trans. AGU*, **88**(52), Fall Meet. Suppl., P52A-07. (www.agu.org/meetings/fm07/waisfm07.html.)
- Rack, W. and C. Haas. 2010. Measurements of ice shelf thickness and morphology using helicopter-borne electromagnetic induction measurements. *SIRG 2010, Snow and Ice Group (NZ) Annual Workshop, 15–17 February 2010, Queenstown, New Zealand. Programme and abstract book*. Christchurch, Gateway Antarctica, University of Canterbury, 30. (<http://tinyurl.com/q5e5n62>.)
- Rack, W. and C. Haas. 2011. The relation between freeboard height and ice thickness at the McMurdo Ice Shelf, Antarctica, measured by near surface remote sensing methods and satellite altimetry. *Earth on the Edge: Science for a Sustainable Planet, XXV IUGG General Assembly, 28 June – 7 July 2011, Melbourne, Australia*. Melbourne, Vic., International Union of Geodesy and Geophysics. Monash University School of Geosciences, Abstract 5159, digital media. (<http://tinyurl.com/nr2hafj>.)
- Rack, W. and 6 others (including C. Haas and W. Clavano). 2010a. CryoSat-2 validation on land and sea ice in the western Ross Sea Region, Antarctica, based on near-surface remote sensing methods. *Geophys. Res. Abstr.*, **12**, 2010 EGU Gen. Assem., EGU2010-14398. (<http://tinyurl.com/oak2889>.)
- Rack, W. and 7 others (including C. Haas and W. Clavano). 2010b. Land and sea-ice properties in Antarctica: bridging the gap between the ground- and satellite-measurement in the western Ross Sea region. *Ice Clim. News*, **14**, 9. (http://ipo.npolar.no/newsletters/archive/ice-climate_2010_05_no_14.pdf.)
- Rack, W., C. Haas and N. Krützmänn. 2010c. Mapping of saltwater intrusions into the McMurdo Ice Shelf, Antarctica, using electromagnetic induction sounding and ground penetrating radar measurements. *Geophys. Res. Abstr.*, **12**, 2010 EGU Gen. Assem., EGU2010-13729. (<http://tinyurl.com/qgvcaf3>.)
- Radford, T. 1996. ‘Lost world’: scientists discover huge lake under Antarctic icecap. *Gazette [Montréal]*, 9 July, F.10.
- Radic, V. and R.M. Hock. 2010a. Widespread disappearance of small glaciers in the 21st century. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, C34A-04, digital media. (www.agu.org/cgi-bin/wais?ss=C34A-04.)
- Radić, V. and R. Hock. 2010b. Regional and global volumes of glaciers derived from statistical upscaling of glacier inventory data. *J. Geophys. Res.*, **115**(F1), F01010. (10.1029/2009JF001373.)
- Radic, V., R.M. Hock, G.K. Clarke and J.G. Cogley. 2011. Contribution to future sea level rise of glacier melt in response to modeled global climate scenarios from CMIP5. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA*. Washington, DC, American Geophysical Union, C42A-08, digital media. (<http://sites.agu.org/fallmeeting/scientific-program/>.)
- Rae, R., C. Howard-Williams, I. Hawes and W.F. Vincent. 2000. Temperature dependence of photosynthetic recovery from solar damage in Antarctic phytoplankton. In Davison, W., C. Howard-Williams and P. Broady, eds. *7th SCAR Biological Symposium, September 1998, Christchurch, New Zealand. Proceedings*. Canterbury, New Zealand, New Zealand Natural Sciences, 183–189.
- Raeside, A. 2008. Antarctic trip to trace steps of expedition. *Times Colonist [Victoria]*, 8 December, A.3.
- Raeside, A. 2009. *Return to Antarctica: the amazing adventure of Sir Charles Wright on Robert Scott's journey to the South Pole*. Mississauga, Ont., etc, John Wiley & Sons.
- Rains, R.B. and J. Shaw. 1981. Some mechanisms of controlled moraine development, Antarctica. *J. Glaciol.*, **27**(95), 113–128.
- Rains, R.B., M.J. Selby and C.J.R. Smith. 1980. Polar desert sandar, Antarctica. *New Zeal. J. Geol. Geophys.*, **23**(5–6), 595–604. (10.1080/00288306.1980.10424131.)
- Ralph, C. 2001. Sixty days, south of sixty degrees. *Seventh Continent [Montréal]*, **12**, 2–4.

- Ralph, C. 2006. Students On Ice – advancing polar education. *CARN Newsl.*, **22**, 11–13. (www.polarcom.gc.ca/uploads/Publications/(CARN)/carn_vol22_eng.pdf.)
- Ramseier, R.O., C. Garrity, K. Strübing and K.A. Asmus. 1992. *ISY real-time ice monitoring demonstration: IAOE '91 final report*. Noordwijk, Netherlands, European Space Agency. (ESA/ESTEC Contract 9679/91/NL/FG.)
- Ramseier, R.O., A. Emmons, B. Armour and C. Garrity. 1994a. Fusion of ERS-1 SAR and SSM/I ice data. *Space at the Service of our Environment. Proceedings of the Second ERS-1 Symposium, 11- -14 October 1993, Hamburg, Germany, Vol. 1*. Paris, France, European Space Agency, 361–367. (ESA Spec. Publ., SP-361.)
- Ramseier, R.O., I. Arnon, R. Ezraty, C. Garrity, F. Gohin and K. Strübing. 1994b. Potential role of ERS-1 scatterometer data in support of ice navigation. *First Workshop on ERS-1 Pilot Projects, 22–24 June, 1994 Toledo, Spain. Proceedings*. Paris, France, European Space Agency, 169–174.
- Raney, R.K. 1993. Probing ice sheets with imaging radar. *Science*, **262**(5139), 1521–1522. (10.1126/science.262.5139.1521.)
- Raney, R.K. and J.C. Falkingham. 1994. RADARSAT and operational ice information. In Haykin, S., E.O. Lewis, R.K. Raney and J.R. Rossiter, eds. *Remote sensing of sea ice and icebergs*. New York, etc., John Wiley and Sons Inc., 611–657. (Wiley Series in Remote Sensing.)
- Rasmus, K., H. Granberg, K. Knato, E. Kärkäs, C. Lavoie and M. Leppäranta. 2003. *Seasonal snow in Antarctic data report*. Helsinki, University of Helsinki. Department of Geophysics. (Report Series in Geophysics 47.)
- Rawlence, D.J., P.H. Ensor and G.A. Knox. 1987. Summer tide-crack phytoplankton at White Island, McMurdo Sound, Antarctica. *New Zeal. J. Mar. Freshwater Res.*, **21**(1), 91–97. (10.1080/00288330.1987.9516203.)
- Raymond, C.A., M.A. Smith, E.R. Ivins, A. Donnellan, M.B. Heflin and T. James. 1997. An autonomous GPS station for measurement of post-glacial rebound in Antarctica. [Abstract G21A-08.] *Eos, Trans. AGU*, **78**(17), Spring Meet. Suppl., S100–S101.
- Raymond, C.A., M.B. Heflin, E.R. Ivins and T.S. James. 1999. Modern uplift of the Transantarctic Mountains: preliminary results of an autonomous GPS array. In Skinner, D.N.B., ed. *8th International Symposium on Antarctic Earth Sciences, Wellington, New Zealand. Programme and abstracts*. Wellington, Royal Society of New Zealand, 261.
- Raymond, C.A., A. Donnellan, B. Luyendyk, E. Ivins, T. James and M. Heflin. 2003. Glacial isostatic motion in Antarctica from continuous global positioning system measurements: results from the northern Transantarctic Mountains and Marie Byrd Land. *Geophys. Res. Abstr.*, **5**, EAE03-A-13852. (www.cosis.net/abstracts/EAE03/13852/EAE03-J-13852.pdf.)
- Raymond, C.A., E.R. Ivins and T.S. James. 2004a. GPS measurement of glacial isostatic adjustment in Antarctica: current results and future prospects. [Abstract.] *Eos, Trans. AGU*, **85**(47), Fall Meet. Suppl., C32A-03. (www.agu.org/meetings/fm04/waisfm04.html.) (http://www.agu.org/meetings/fm04/fm04-sessions/fm04_C32A.html)
- Raymond, C.A., E.R. Ivins, M.B. Heflin and T.S. James. 2004b. Quasi-continuous global positioning system measurements of glacial isostatic deformation in the northern Transantarctic Mountains. *Global Planet. Change*, **42**(1–4), 295–303. (10.1016/j.gloplacha.2003.11.013.)
- Raymond, C.A., A. Donnellan, B.P. Luyendyk, E.R. Ivins and T.S. James. 2005. GPS constraints on Antarctic ice mass fluctuations. *Geophys. Res. Abstr.*, **7**, 2005 EGU Gen. Assem., EGU05-A-10468. (www.cosis.net/abstracts/EGU05/10468/EGU05-J-10468.pdf.)
- Raynaud, D., V. Lipenkov, B. Lemieux-Dudon, P. Duval, M.-F. Loutre and N. Lhomme. 2007. The local insolation signature of air content in Antarctic ice. A new step toward an absolute dating of ice records. *Earth Planet. Sci. Lett.*, **261**(3–4), 337–349. (10.1016/j.epsl.2007.06.025.)

- Reader, M.C. and N. McFarlane. 2003. Sea-salt aerosol distribution during the Last Glacial Maximum and its implications for mineral dust. *J. Geophys. Res.*, **108**(D8), 4253. (10.1029/2002JD002063.)
- Reader, M.C., I. Fung and N. McFarlane. 1999. The mineral dust aerosol cycle during the Last Glacial Maximum. *J. Geophys. Res.*, **104**(D8), 9381–9398. (Erratum: **104**(D18), p.22,319–22,320.) (10.1029/1999JD900033; 10.1029/1999JD900434.)
- Reader, C., M. Sigmond, J. Fyfe, D. Plummer, J. Scinocca and T. Shepherd. 2010. The effect of ozone depletion and greenhouse gas warming on the Southern Ocean in coupled transient simulations using the CMAM middle atmosphere chemistry climate model. *Our Earth, our air, our water, our future. 44th Annual CMOS Congress, 36th Annual Scientific Meeting of CGU, 3rd Joint CMOS-CGU Congress, 31 May–4 June, Ottawa, Ontario. Congress abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 3862, 25. (www.cmos.ca/CongressAbstracts/cong4410.pdf.)
- Record [Kitchener]. 2003. Scientists push for national Antarctic research program. *Record [Kitchener]*, 29 September, A.3.
- Record [Kitchener]. 2004. Canadian researchers help find Antarctic volcano. *Record [Kitchener]*, 21 May, A.8.
- Redhead, S.A. 1984. *Arrhenia* and *Rimbachia*, expanded generic concepts, and a reevaluation of *Leptoglossum* with emphasis on muscicolous North American taxa. *Can. J. Bot./J. Can. Bot.*, **62**(5), 865–892. (10.1139/b84-126.)
- Reel, M. 2007. Adventure cruise delivers, and then some: Antarctic voyage takes dramatic turn when underwater ice punches hole in Canadian-owned vessel's hull. *Edmonton J.*, A.3.
- Rees, M.N., A.J. Rowell and B.R. Pratt. 1985. The Byrd Group of the Holyoake Range, central Transantarctic Mountains. *Antarct. J. U.S.*, **20**(5), 1985 Review, 3–5. (http://tinyurl.com/nfgx313.)
- Rees, M.N., B.R. Pratt and A.J. Rowell. 1989. Early Cambrian reefs, reef complexes, and associated lithofacies of the Shackleton Limestone, Transantarctic Mountains. *Sedimentology*, **36**(2), 341–361. (10.1111/j.1365-3091.1989.tb00611.x.)
- Rees, M.N., A.J. Rowell and B.R. Pratt. 2003. Lower Cambrian reefs and associated deposits, central Transantarctic Mountains. *Sediments down-under: 12th International Sedimentological Congress. Abstracts* Canberra, Bureau of Mineral Resources, Geology and Geophysics, 255–256.
- Reichardt, C.L. and 48 others (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, A. van Engelen and K. Vanderlinde). 2012. A measurement of secondary cosmic microwave background anisotropies with two years of South Pole Telescope observations. *Astrophys. J.*, **755**(1), Article 70. (10.1088/0004-637X/755/1/70.)
- Reid, H.F. 1925. Geographical Reviews. Antarctic physiography. Physiography (Robertson Bay and Terra Nova Bay Regions) by R. E. Priestley, The Physiography of the McMurdo Sound and Granite Harbour Region by Griffith Taylor, The Physiography of the Ross Archipelago by F. Debenham, Physiography of the Beardmore Glacier Region by C. S. Wright. *Geogr. Rev.*, **15**(1), 165–167. (Review of work by C.S. Wright.) (www.jstor.org/stable/207935.)
- Reid, M. 2001a. Calgary crew pulls off daring rescue: Canadian pilots safe, sound after evacuating ailing doctor from Antarctic outpost. *Edmonton J.*, A.1.
- Reid, M. 2001b. Fearless flyers finally home: Antarctic rescue team returns. *Calgary Herald*, A.1.
- Reid, M. and J. Paraskevas. 2001. South Pole rescuers praised as heroes: honoured in Parliament, Calgary aircrew makes risky Antarctic flying 'look routine'. *Ottawa Citizen*, 28 April, A.7.
- Reimer, K.J., M. Colden, P. Francis, J. Mauchan, W.W. Mohn and J.S. Poland. 2003. Cold climate bioremediation: a comparison of various approaches. In Nahir, M., K. Biggar and G. Cotta, eds. *ARCSACC '03; Third Biennial Workshop on Assessment and Remediation of Contaminated Sites in Arctic and Cold Climates (ARCSACC), 4–6 May 2003, Edmonton, AB, Canada. Proceedings, Vol. 3*. Edmonton, Alta, ARCS ACC, University of Alberta, 290–298.

- Reimer, P. 2010a. Antarctic cruises greener, fewer. *Gazette [Montréal]*, 17 April, H.3.
- Reimer, P. 2010b. Antarctic heavy-oil ban to hit cruising. *Times Colonist [Victoria]*, 17 April, C.9.
- Reimer, P. 2010c. Heavy fuel ban means fewer Antarctic cruises. *Leader-Post [Regina]*, B.7.
- Remington, R. 2001a. 'I'm not sick. I don't want to leave': doctor at South Pole: Canadian team to attempt dangerous Antarctic rescue. *Natl. Post [Don Mills]*, A.3.
- Remington, R. 2001b. South Pole pilots return home to heroes' welcome: daring rescue mission: Canadians praise Antarctic staff for preparing runway. *Natl. Post [Don Mills]*, A.5.
- Rempel, O. 2012. *ESS student making a difference*. Halifax, NS, Dalhousie University. College of Sustainability. (SustainabilityNews, archived posts for 2012 June.) ([https://blogs.dal.ca/sustainabilitynews/2012/06/page/2/.](https://blogs.dal.ca/sustainabilitynews/2012/06/page/2/))
- Ren, S., S.M. Polavarapu and T.G. Shepherd. 2008. Vertical propagation of information in a middle atmosphere data assimilation system by gravity-wave drag feedbacks. *Geophys. Res. Lett.*, **35**(6), L06804. (10.1029/2007GL032699.)
- Revkin, A.C. 2002. Antarctic ice flow freezes over trends. *Gazette [Montréal]*, 18 January, B.8.
- Revkin, A. 2004. Don't expect an ice age to hit soon, Antarctic study shows. *Globe & Mail [Toronto]*, 10 June, A.19.
- Rex, M., P. Huck, S. Kremser, G.E. Bodeker, M.L. Santee and P.F. Bernath. 2010. SWIFT - an extremely fast semi-empirical module for including polar ozone loss in climate model systems. [Abstract.] *Eos, Trans. AGU*, **91**(26), Meet. Americas Suppl., A33E-03. (<http://tinyurl.com/pza8ht6>.)
- Rex, M. and 20 others (including J. Davies, T. McElroy, D.W. Tarasick and K.A. Walker.) 2011. Record Arctic ozone loss in spring 2011 compared with Antarctic ozone hole conditions. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA*. Washington, DC, American Geophysical Union, A53G-07, digital media. ([http://sites.agu.org/fallmeeting/scientific-program/.](http://sites.agu.org/fallmeeting/scientific-program/))
- Rex, M. and 39 others (including J. Davies, C.T. McElroy, D.W. Tarasick and K.A. Walker.) 2012. Record Arctic ozone loss in spring 2011 compared with Antarctic ozone hole conditions. *Quadrennial Ozone Symposium, 27–31 August 2012, Toronto, Ont. Abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 6016, digital media. ([http://www.cmos.ca/QOS2012/.](http://www.cmos.ca/QOS2012/))
- Riaux-Gobin, C., B. Klein and J.-C. Duchêne. 2000a. A pigment analysis of feeding modes of *Thelepus extensus* (Polychaeta, Terebellidae) in relation to wave exposure at the îles Kerguelen. *Antarct. Sci.*, **12**(1), 52–63. (10.1017/S0954102000000080.)
- Riaux-Gobin, C., P. Tréguer, M. Poulin and G. Vétion. 2000b. Nutrients, algal biomass and communities in land-fast ice and seawater off Adélie Land (Antarctica). *Antarct. Sci.*, **12**(2), 160–171. (10.1017/S0954102000000213.)
- Riaux-Gobin, C., M. Poulin, R. Prodon and P. Tréguer. 2003. Land-fast ice microalgal and phytoplanktonic communities (Adélie Land, Antarctica) in relation to environmental factors during ice break-up. *Antarct. Sci.*, **15**(3), 353–364. (10.1017/S0954102003001378.)
- Riaux-Gobin, C. and M. Poulin. 2004. Possible symbiosis of *Berkeleya adeliensis* Medlin, *Synedropsis fragilis* (Manguin) Hasle *et al.* and *Nitzschia lecointei* Van Heurck (Bacillariophyta) associated with land-fast ice in Adélie Land, Antarctica. *Diatom Res.*, **19**(2), 265–274. (10.1080/0269249X.2004.9705874.)
- Riaux-Gobin, C., P. Tréguer, G. Dieckmann, E. Maria, G. Vétion and M. Poulin. 2005. Land-fast ice off Adélie Land (Antarctica): short-term variations in nutrients and chlorophyll just before ice break-up. *J. Mar. Syst.*, **55**(3–4), 235–248. (10.1016/j.jmarsys.2004.08.003.)
- Ricard, D., C. Minto, O.P. Jensen and J.K. Baum. 2012. Examining the knowledge base and status of commercially exploited marine species with the RAM Legacy Stock Assessment Database. *Fish & Fish.*, **13**(4), 380–398. (10.1111/j.1467-2979.2011.00435.x.)

- Ricaud, P. *and 44 others* (including E.J. Llewellyn, D.A. Degenstein, W.F.J. Evans, R.L. Gattinger, C.S. Haley, N.D. Lloyd, J.C. McConnell, I.C. McDade, S.V. Petelina, B.H. Solheim and K. Strong). 2005. Polar vortex evolution during the 2002 Antarctic major warming as observed by the Odin satellite. *J. Geophys. Res.*, **110**(D5), D05302. (10.1029/2004JD005018.)
- Riccardi, A.C. 1980. Nuevos amonoideos del Cretacico superior de Antartida [New ammonoids from the Upper Cretaceous of Antarctica]. *Ameghiniana*, **17**(4), 323–331.
- Ricciardi, A. 2008. Letters. Antarctica invaded. *Science*, **319**(5862), 409. (10.1126/science.319.5862.409b.)
- Richardson, P.J. 2001. Back from Great White South: Hudson High School student part of Antarctic expedition. *Gazette [Montréal]*, 11 January, F.17.
- Riddle, M.J. and P.M. Chapman. 2003. Polar ecotoxicology: a missing link. *Antarct. Sci.*, **15**(3), 317. (10.1017/S0954102003001433.)
- Riddle, M.J. and D.C.G. Muir. 2008. Chapter 16. Direct human impacts on high latitude lakes and rivers. In Vincent, W.F. and J. Laybourn-Parry, eds. *Polar lakes and rivers: limnology of Arctic and Antarctic aquatic ecosystems*. Oxford, Oxford University Press, 291–306.
- Riesselman, C.R., P.D. Tortell, C.D. Payne, R.B. Dunbar and G.R. DiTullio. 2006. Direct effect of carbon dioxide concentration on phytoplankton community Structure in the Ross Sea, Antarctica. [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., U24A-02. (www.agu.org/meetings/fm06/waisfm06.html.)
- Rigby, G. and P. Rolland. 2010. Mapping Antarctica with RADARSAT-2. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 383452, digital media. (<http://tinyurl.com/qjlbc7h>.)
- Rind, D. *and 6 others* (including J. Teller). 2001. Effects of glacial meltwater in the GISS coupled atmosphere-ocean model. 2. A bipolar seesaw in Atlantic Deep Water production. *J. Geophys. Res.*, **106**(D21), 27,355–27,365. (10.1029/2001JD000954.)
- Ring, R.A., W. Block, L. Sømme and M.R. Worland. 1990. Body water content and desiccation resistance in some arthropods from subantarctic South Georgia. *Polar Biol.*, **10**(8), 581–588. (10.1007/BF00239367.)
- Ringer, G. 2007. Book reviews. South of sixty: life on an Antarctic base (Michael Warr). *Tourism Mar. Environ.*, **4**(2–3), Polar Tourism, 79–80.
- Rintoul, S.R. *and 8 others*, eds. 2012. *The Southern Ocean observing system: initial science and implementation strategy* Cambridge, UK, Scientific Committee on Antarctic Research (SCAR) and Scientific Committee on Oceanic Research (SCOR). (Includes contribution from C. Haas.) (www.soos.aq/images/soos/downloads/soos_strategy-lowres.pdf.)
- Rivkin, R.B. and M.R. Anderson. 1999. Microbial dynamics in polar oceans: a bipolar comparison. In Bell, C.R., M. Brylinsky and P. Johnson-Green, eds. *Microbial biosystems: new frontiers. Proceedings of the 8th International Symposium on Microbial Ecology*. Halifax, N.S., Atlantic Canada Society for Microbial Ecology, 307–316.
- Rivkin, R.B. and L. Legendre. 2001. Biogenic carbon cycling in the upper ocean: effects of microbial respiration. *Science*, **291**(5512), 2398–2400. (10.1126/science.291.5512.2398.)
- Rivkin, R.B., M.R. Anderson and D.E. Gustafson, Jr. 1990. Seasonal pattern of bacteria and net nano- and pico-phytoplankton in McMurdo Sound, Antarctica, during the austral spring. *Antarct. J. U.S.*, **25**(5), 1990 Review, 195–196. (<http://tinyurl.com/ojxc8d5>.)
- Rivkin, R.B., M.R. Anderson and D.E. Gustafson, Jr. 1991. Dynamics of bacterioplankton growth in McMurdo Sound, Antarctica: evidence for substrate sufficient growth. *Antarct. J. U.S.*, **26**(5), 1991 Review, 145–146. (<http://tinyurl.com/pj2f3vz>.)
- Rivkin, R.B., M.R. Anderson and D.E. Gustafson, Jr. 1991. Ingestion of phytoplankton by polar and temperate echinoderm larvae. *Antarct. J. U.S.*, **26**(5), 1991 Review, 156–158. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXXVIIn5/AJUSvXXVIIn5p156.pdf>.)

- Robarts, R.D., L.M. Sephton and R.J. Wicks. 1991. Labile dissolved organic carbon and water temperature as regulators of heterotrophic bacterial activity and production in the lakes of sub-Antarctic Marion Island. *Polar Biol.*, **11**(6), 403–413. (10.1007/BF00239693.)
- Robb, J. 1994. Review. Reportage shines in Antarctic adventure tales: In a Crystal Land: Canadian Explorers in Antarctica. *Ottawa Citizen*, 13 March, B.5.BOO.
- Robbins, J. *and 8 others* (including L. Dalla Rosa). 2011. Return movement of a humpback whale between the Antarctic Peninsula and American Samoa: a seasonal migration record. *Endang. Species Res.*, **13**(2), 117–121. (10.3354/esr00328.)
- Robel, A., E. DeGiuli, C. Schoof and E. Tziperman. 2012. Hysteresis and temporal scales of ice stream variability. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, C23C-0664, digital media. ([http://fallmeeting.agu.org/2012/.](http://fallmeeting.agu.org/2012/))
- Roberts, B.B. 1981. The place-names "Greater Antarctica" and "Lesser Antarctica" versus "East Antarctica" and "West Antarctica". *Br. Ant. Surv. Bull.*, **53**, 257–260. (Includes contribution by G. Hattersley-Smith.) (www.antarctica.ac.uk/documents/bas_bulletins/bulletin53_17.pdf.)
- Roberts, S.J. *and 7 others* (including G. Milne). 2009a. Holocene relative sea-level change and deglaciation on Alexander Island, Antarctic Peninsula, from elevated lake deltas. *Geomorphology*, **112**(1–2), 122–134. (10.1016/j.geomorph.2009.05.011.)
- Roberts, S.J. *and 7 others* (including G. Milne). 2009b. Holocene relative sea-level change on Alexander Island, Antarctic Peninsula from OSL dating of elevated lake deltas. *Geophys. Res. Abstr.*, **11**, 2009 EGU Gen. Assem., EGU2009-10402. (<http://meetingorganizer.copernicus.org/EGU2009/-10402.pdf>.)
- Robichaud, A. *and 6 others* (R. Ménard, S. Chabrillat, J. de Grandpré, Y.J. Rochon, Y. Yang and C. Charette). 2010. Impact of energetic particle precipitation on stratospheric polar constituents: an assessment using monitoring and assimilation of operational MIPAS data. *Atmos. Chem. Phys. (ACP)*, **10**(4), 1739–1757. (10.5194/acp-10-1739-2010.)
- Robin, E., C. Jehanno, R.M. Koerner, J. Pilon and R. Rocchia. 1990. Discovery of non-contaminated unmelted cosmic particles in Antarctica and northern Canada territories. *Twenty-First Lunar and Planetary Science Conference, 12–16 March 1990, Houston, Texas. Abstracts*. Houston, TX, Lunar and Planetary Institute 1023–1024. (LPI Contribution No.746.) (www.lpi.usra.edu/meetings/lpsc1990/pdf/1520.pdf.)
- Robin, J.P. *and 6 others* (including S.D. Côté). 2001. Restoration of body mass in king penguins after egg abandonment at a critical energy depletion stage: early vs late breeders. *J. Avian Biol.*, **32**(4), 303–310. (10.1111/j.0908-8857.2001.320403.x.)
- Robinson, D.H., K.R. Arrigo, Z. Kolber, M. Gosselin and C.W. Sullivan. 1998. Photophysiological evidence of nutrient limitation of platelet ice algae in McMurdo Sound, Antarctica. *J. Phycol.*, **34**(5), 788–797. (10.1046/j.1529-8817.1998.340788.x.)
- Robinson, R.S., D.M. Sigman, P.J. DiFiore, M.M. Rohde, T.A. Mashiotto and D.W. Lea. 2005. Diatom-bound ¹⁵N/¹⁴N: new support for enhanced nutrient consumption in the ice age subantarctic. *Paleoceanography*, **20**(3), PA3003. (10.1029/2004PA001114.)
- Robitaille, B. 1985. Comptes rendus bibliographiques. Sugden, David (1982) Arctic and Antarctic: a modern geographical synthesis. Totowa (N.J.), Barnes and Noble, 472 p. *Cah. Géogr. Québec*, **29**(78), 442–443. (10.7202/021751ar.)
- Robitaille, D.Y. and A.J. Weaver. 1995. Validation of sub-grid-scale mixing schemes using CFCs in a global ocean model. *Geophys. Res. Lett.*, **22**(21), 2917–2920. (10.1029/95GL02651.)
- Rodary, D., W. Bonneau, Y. Le Maho and C.-A. Bost. 2000. Benthic diving in male emperor penguins *Aptenodytes forsteri* foraging in winter. *Mar. Ecol. Progr. Ser.*, **207**, 273–281. (10.3354/meps207171.)

- Rodgers, K.B. *and 12 others* (including E.D. Galbraith). 2011. Interhemispheric gradient of atmospheric radiocarbon reveals natural variability of Southern Ocean winds. *Climate Past (CP)*, **7**(4), 1123–1138. (10.5194/cp-7-1123-2011.)
- Roesch, L.F.W. *and 10 others* (including R.R. Fulthorpe). 2012. Soil bacterial community abundance and diversity in ice-free areas of Keller Peninsula, Antarctica. *Appl. Soil Ecol.*, **61**, 7–15. (10.1016/j.apsoil.2012.04.009.)
- Rogne, O. and D. Hik. 2011. Chapter 1.7. National IPY secretariats. In Krupnik, I. *and 8 others* (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 127–132. (CCI Occasional Publication 69.) (http://library.arcticportal.org/1211/1/IPY_Summary.pdf.)
- Roman, J. *and 9 others* (including L. Morissette). 2007. Whales as marine ecosystem engineers. *Front. Ecol. Environ.*, **12**(7), 377–385. (10.1890/130220.)
- Roos, J.C. and W.F. Vincent. 1998. Temperature dependence of UV radiation effects on Antarctic cyanobacteria. *J. Phycol.*, **34**(1), 118–125. (10.1046/j.1529-8817.1998.340118.x.)
- Roots, E.F. 1950. An international expedition to Antarctica. The voyage to Queen Maud Land. *Geogr. Mag.*, **23**(3), 85–100.
- Roots, E.F. 1952a. The Norwegian–British–Swedish Antarctic Expedition 1949–52. *Sci. News*, **26**, 9–32.
- Roots, E.F. 1952b. The scientific work of the Norwegian–British–Swedish Expedition. *Geogr. J.*, **118**(2), 230–231. (www.jstor.org/stable/1791974.)
- Roots, E.F. 1953. Preliminary note on the geology of western Dronning Maud Land. *Nor. Geol. Tidsskr.*, **32**(1), 17–33.
- Roots, E.F. and C.W.M. Swithinbank. 1955. Snowdrifts around buildings and stores. *Polar Rec.*, **7**(50), 380–387. (10.1017/S0032247400046325.)
- Roots, E.F. 1969. Geology of western Queen Maud Land. In Bushnell, V.C., ed. *Antarctic Map Folio Series 12*. New York, NY, American Geographical Society, Plate 6. (Geologic maps of Antarctica.)
- Roots, E.F. 1986. The role of science in the Antarctic Treaty System. *Antarctic Treaty System, an assessment. Proceedings of a Workshop held at Beardmore South Field Camp, Antarctica, January 7–13, 1985*. Washington, DC, National Academy Press. National Research Council, Polar Research Board, 169–184.
- Roots, E.F. 1989. Climate change: high-latitude regions. *Climatic Change*, **15**(1–2), 223–253. (10.1007/BF00138853.)
- Roots, F. 1990. The polar regions. In Mungall, C. and D.J. McLaren, eds. *Planet under stress: the challenge of global change*. Toronto, Ont., Oxford University Press, 116–133.
- Roots, E.F. 1994. Looking ahead: Canadian polar science, inventory and prospects. In Stager, L., ed. *Canada and polar science. Proceedings of a conference sponsored by the Canadian Polar Commission, Yellowknife, N.W.T., May 17–19, 1994*. Ottawa, Ont., Canadian Polar Commission, 74–91.
- Roots, F. 1995. Polar wilderness: what does it contribute and to whom? In Martin, V.G. and N. Tyler, eds. *Arctic wilderness. 5th World Wilderness Congress, September 1993, Tromsø, Norway*. Golden, CO, North American Press, 118–127.
- Roots, E.F. 1998. Antarctic Environmental Protocol now in force. *Seventh Continent [Montréal]*, **5**, 1–3.
- Roots, E.F. 1999a. Commentary. The ends of the Earth: differences and similarities. In Lewkowicz, A.G., ed. *Poles apart, a study in contrasts. Proceedings of an International Symposium on Arctic and Antarctic Issues, 25–27 September 1997, Ottawa, Ontario, Canada*. Ottawa, Ont., University of Ottawa Press, 47–57.

- Roots, F. 1999b. XXIII Antarctic Treaty Consultative Meeting. *CARN Newsl.*, **8–9**, 5–6. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/8-9.pdf.)
- Roots, F. 2000. The Twelfth Antarctic Treaty Special Consultative Meeting (XII SATCM). *CARN Newsl.*, **11**, 9–11. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/11.pdf.)
- Roots, F. 2001. Twenty-fourth Antarctic Treaty Consultative Meeting (XXIV ATCM), Saint Petersburg, Russia, 8–20 July 2001. *CARN Newsl.*, **13**, 8–10. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/13.pdf.)
- Roots, F. 2004. The evolution of Antarctic science. In Loken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research*. Ottawa, Ont., Canadian Polar Commission, February, 59–63. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/Polar%20Connections.pdf.)
- Roots, E.F. 2011. Background and evolution of some ideas and values that have led to the Antarctic Treaty. In Berkman, P.A., M.A. Lang, D.W.H. Walton and O.R. Young, eds. *Science diplomacy: Antarctica, science and the governance of international spaces*. Washington, DC, Smithsonian Institution Scholarly Press, 69–72. (www.atsummit50.org/media/book-11.pdf.)
- Rose, D.C., K.B. Fenton, J. Katzman and J.A. Simpson. 1956. Latitude effect of the cosmic ray nucleon and meson components at sea level from the Arctic to the Antarctic. *Can. J. Phys.*, **34**(9), 968–984. (10.1139/p56-107.)
- Rosenbaum, H.C. and 19 others (including M.W. Brown, B.N. White, S. Malik and L.A. Pastene). 2000. World-wide genetic differentiation of Eubalaena: questioning the number of right whale species. *Mol. Ecol.*, **9**(11), 1793–1802. (10.1046/j.1365-294x.2000.01066.x.)
- Rosenberg, T.J., D.L. Detrick, D. Venkatesan and G. van Bavel. 1991. A comparative study of imaging and broad-beam riometer measurements: the effect of spatial structure on the frequency dependence of auroral absorption. *J. Geophys. Res.*, **96**(A10), 17,793–17,803. (10.1029/91JA01827.)
- Rosenthal, J.J.C., B.A. Seibel, A. Dymowska and F. Bezanilla. 2009. Trade-off between aerobic capacity and locomotor capability in an Antarctic pteropod. *Proc. Natl. Acad. Sci. USA (PNAS)*, **106**(15), 6192–6196. (10.1073/pnas.0901321106.)
- Ross, D.I. 1967. A total magnetic field map of the South-West Pacific Ocean between New Zealand and Antarctica. *New Zeal. J. Geol. Geophys.*, **10**(5), 1231–1234. (10.1080/00288306.1967.10420214.)
- Ross, J.I., W.C. McIntosh, N.W. Dunbar and the ANDRILL-MIS Science team (that includes D.R. Schmitt). 2007. Preliminary ⁴⁰Ar/³⁹Ar results from the AND-1B core. In Cooper, A.K., P. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007*. Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (*U.S. Geol. Surv. Open-File Rep.* 2007-1047.) (Extended Abstract 093.) (<http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea093.pdf>.)
- Ross, P.-S. and J.D.L. White. 2012. Quantification of vesicle characteristics in some diatreme-filling deposits, and the explosivity levels of magma-water interactions within diatremes. *J. Volcanol. Geotherm. Res.*, **245–246**, 55–67. (10.1016/j.jvolgeores.2012.07.006.)
- Ross, P.-S., J.D.L. White and M. McClintock. 2008a. Geological evolution of the Coombs–Allan Hills area, Ferrar large igneous province, Antarctica: debris avalanches, mafic pyroclastic density currents, phreatocauldrons. *J. Volcanol. Geotherm. Res.*, **172**(1–2), 38–60. (10.1016/j.jvolgeores.2005.11.011.)
- Ross, P.-S., J.D.L. White, P. Mercier-Langevin, B. Dubé and J. Goutier. 2008b. How external water influences mafic pyroclasts, pyroclastic density currents and eruption columns in subaqueous and subaerial settings. *400 years of discoveries, Joint Annual Meeting Québec 2008, AGC/GAC-AMC/MAC-SEG-SGA, 26–28 May 2008, Québec City. Abstracts*. St John's, Nfld, Geological Association of Canada. Memorial University of Newfoundland, Department of Earth Sciences, 148. (www.gac.ca/activities/abstracts/2973_Abst..pdf.)

- Ross, P.-S., J.D.L. White, B. Zimanowski and R. Büttner. 2008c. Multiphase flow above explosion sites in debris-filled volcanic vents: Insights from analogue experiments. *J. Volcanol. Geotherm. Res.*, **178**(1), 104–112. (10.1016/j.jvolgeores.2008.01.013.)
- Ross, T. and A. Lavery. 2008. High-frequency broadband acoustic scattering for investigating double □ diffusive convection. [Abstract.] *J. Acoust. Soc. Am.*, **123**(5), 3213. (10.1121/1.2933395.)
- Ross, T. and A. Lavery. 2010. Acoustic detection of oceanic double-diffusive convection: a feasibility study. *J. Atmos. Oceanic Technol.*, **27**(3), 580–593. (10.1175/2009JTECHO696.1.)
- Rossiter, S. 1998. *Otter and Twin Otter*. Vancouver, B.C., Douglas & McIntyre Ltd. (Discusses use of Canadian planes in Antarctic.)
- Rotenberg, E. and Y. Amelin. 2003. Age variations among ordinary chondrites: U-Pb chronology of chondrules. *Thirty-Fourth Lunar and Planetary Science Conference, 17–21 March 2003, League City, Texas*. Houston, TX, Lunar and Planetary Institute, Abstract #1902, digital media. (LPI Contribution No.1156.) (www.lpi.usra.edu/meetings/lpsc2003/pdf/1902.pdf.)
- Rothwell, D.R. 1998. Australian and Canadian initiatives in polar marine environmental protection: a comparative review. *Polar Rec.*, **34**(191), 305–316. (10.1017/S0032247400026012.)
- Rothwell, D.R. and C.C. Joyner. 2000. Domestic perspectives and regulations in protecting the polar marine environment: Australia, Canada and the United States. In Vidas, D., ed. *Protecting the polar marine environment: law and policy for pollution prevention*. Cambridge, U.K., Cambridge University Press, 149–171.
- Rouget, P.A. 2004. Diurnal and seasonal trends in the vocal behavior of the Weddell seal (*Leptonychotes weddellii*). M.Sc. thesis, Department of Biology, University of New Brunswick, Saint John, N.B.
- Rouget, P.A. and J.M. Terhune. 2004. Are Weddell seals hidden under "seagloos" in the winter? *XXVIII SCAR Open Science Conference, 26–28 July 2004, Bremen, Germany. Abstracts*. Cambridge, U.K., Scientific Committee on Antarctic Research, S5/P10.
- Rouget, P.A., J.M. Terhune and H.R. Burton. 2007. Weddell seal underwater calling rates during the winter and spring near Mawson Station, Antarctica. *Mar. Mammal Sci.*, **23**(3), 508–523. (10.1111/j.1748-7692.2007.00129.x.)
- Rowell, A.J., M.N. Rees, R.A. Cooper and B.R. Pratt. 1988. Early Paleozoic history of the central Transantarctic Mountains: evidence from the Holyoake Range, Antarctica. *New Zeal. J. Geol. Geophys.*, **31**(4), 397–404. (10.1080/00288306.1988.10422140.)
- Rowley, G.W. 1985. Reviews. Arctic and Antarctic – a modern geographical synthesis. By David Sugden, Oxford: Basil Blackwood, 1982. ISBN 0-631-13085-3. 473 p. incl. illus., tables, maps. Hardcover. \$84.25. *Arctic*, **38**(1), 82–83. (10.14430/arctic2401.)
- Rowley, P.D. and 7 others (including A.H. Clark, E. Farrar and S.L. McBride). 1975. Copper mineralization along the Lassiter Coast of the Antarctic Peninsula. *Econ. Geol.*, **70**(5), 982–987. (10.2113/gsecongeo.70.5.982.)
- Rowley, P.D., E. Farrar and S.L. McBride. 1976. Preliminary interpretation of potassium-argon ages of plutons in northern Lassiter Coast and southern Black Coast. *Antarct. J. U.S.*, **11**(4), 257–258. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXIn4/AJUSvXIn4p257.pdf>.)
- Roy, M., T. Van de Flieddt, S.R. Hemming and S.L. Goldstein. 2007. ⁴⁰Ar/³⁹Ar ages of hornblende grains and bulk Sm/Nd isotopes of circum-Antarctic glacio-marine sediments: implications for sediment provenance in the Southern Ocean, Chemical Geology, 244 3-4, 507-519. *Chem. Geol.*, **244**(3–4), 507–519. (10.1016/j.chemgeo.2007.07.017.)
- Roy, S., G. Ferreyra and S. Demers. 2008. L'aventure du Sedna IV en Antarctique, aussi une aventure scientifique. *FrancVert*, **5**(1), 7 pp., digital media. (www.francvert.org/pages/51dossierlaveduredusednaenantarctique.asp.)

- Royal Geographical Society. 1976. Obituaries. Sir Charles Seymour Wright. *Geogr. J.*, **142**(1), 193–194. (www.jstor.org/stable/1796085.)
- Royer, A., M. de Angelis and J.R. Petit. 1983. A 30 000 year record of physical and optical properties of microparticles from an East Antarctic ice core and implications for paleoclimate reconstruction models. *Climatic Change*, **5**(4), 381–412. (10.1007/BF00140802.)
- Ruberto, L.A.M., S.C. Vasquez, A. Curtosi, M.C. Mestre, É. Pelletier and W.P. Mac Cormack. 2006. Phenanthrene biodegradation in soils using an Antarctic bacterial consortium. *Bioremed. J.*, **10**(4), 191–201. (10.1080/10889860601021449.)
- Ruberto, L.A.M. and 6 others (including É. Pelletier). 2007. Improving bioremediation of phenanthrene-contaminated Antarctic soils by addition of surfactants, organic source of nutrients and a bacterial consortium. *Actas del VI° Simposio Argentino y III° Latinoamericano sobre Investigaciones Antárticas, 10–14 Septiembre 2007, Buenos Aires, Argentina*. Buenos Aires, Dirección Nacional del Antártico. Instituto Antártico Argentino, Extended abstract CVCO319, CD-ROM. (www.dna.gov.ar/CIENCIA/SANTAR07/CD/PDF/CVCO319.PDF.)
- Ruhl, J.E. and 29 others (the BOOMERanG Collaboration that includes J.R. Bond, C.R. Contaldi, C.B. Netterfield, D. Pogosyan and S. Prunet). 2003. Improved measurement of the angular power spectrum of temperature anisotropy in the cosmic microwave background from two new analyses of BOOMERANG observations. *Astrophys. J.*, **599**(2), Part 1, 786–805. (10.1086/379345.)
- Runyan, M.C. and 42 others (including M. Amiri, S.J. Benton, J.R. Bond, M. Farhang, L.M. Fissel, N.N. Gandilo, M. Hasselfield, M. Halpern, C.B. Netterfield, J.A. Shariff and J.D. Soler). 2010. Design and performance of the SPIDER instrument. In Holland, W.S. and J. Zmuidzinas, eds. *Millimeter, submillimeter, and far-infrared detectors and instrumentation for astronomy V*. Bellingham, WA, Society of Photo-optical Instrumentation Engineers, 77411O. (SPIE Proceedings 7741.) (10.1117/12.857715.)
- Russell, D.S. 1993. Protecting a land without a country: the Antarctic Environmental Protocol. *Alternatives*, **20**(1), 24–29.
- Ruttan, S. 2003. Canada should do Antarctic research, scientists say. *Edmonton J.*, A.13.
- Rutter, N. and D. Currie. 1996. Book review. Quaternary of South America and Antarctic Peninsula, vol. 9: Jorge Rabassa and Monica Salemme (eds). A.A. Balkema, 1995, 222 pp. Price £42 Hardback. *Quat. Sci. Rev.*, **15**(10), 1065–1066. (10.1016/S0277-3791(97)89762-4.)
- Ryabinin, V., D. Hik and J.-G. Winther. 2012. *Draft concept note of a potential long-term international cooperative initiative in the polar regions (short name: 'International Polar Initiative', IPI): for discussion by participants at IPY2012 Conference and Arctic Science Summit Week (ASSW 2012) in Montreal*. Geneva, World Meteorological Organization. World Climate Research Programme. (www.ipy2012montreal.ca/docs/ipi_concept.pdf.)
- Rysgaard, S. and 9 others. 2011. Sea ice contribution to the air–sea CO₂ exchange in the Arctic and Southern Oceans. *Tellus*, **63B**(5), 823–830. (10.1111/j.1600-0889.2011.00571.x.)
- Saba, V.S. and 22 others (including S. Tang). 2011. An evaluation of ocean color model estimates of marine primary productivity in coastal and pelagic regions across the globe. *Biogeosci. (BG)*, **8**(2), 489–503. (10.5194/bg-8-489-2011.)
- Saenko, O. 2005. Human-induced change in the Antarctic Circumpolar Current. *CARN Newsl.*, **19**, 13. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/19.pdf.)
- Saenko, O.A. 2006. Projected strengthening of the Southern Ocean winds: some implications for the deep ocean circulation. [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., OS21A-1565. (www.agu.org/meetings/fm06/waisfm06.html.)
- Saenko, O.A. 2008. Influence of the enhanced mixing within the Southern Ocean fronts on the overturning circulation. *Geophys. Res. Lett.*, **35**(9), L09602. (10.1029/2008GL033565.)

- Saenko, O.A. and M.H. England. 2003. On the response of Southern Ocean water-masses to atmospheric meridional moisture advection. *Geophys. Res. Lett.*, **30**(8), 1433. (10.1029/2002GL016516.)
- Saenko, O.A. and W.G. Lee. 2010. Reorganization of the ocean overturning in a colder climate. *Geophys. Res. Lett.*, **37**(4), L04606. (10.1029/2010GL042417.)
- Saenko, O.A. and W.J. Merryfield. 2005. On the effect of topographically enhanced mixing on the global ocean circulation. *J. Phys. Oceanogr.*, **35**(5), 826–834. (10.1175/JPO2722.1.)
- Saenko, O.A. and A.J. Weaver. 2001. Importance of wind-driven sea ice motion for the formation of Antarctic Intermediate Water in a global climate model. *Geophys. Res. Lett.*, **28**(21), 4147–4150. (10.1029/2001GL013632.)
- Saenko, O.A. and A.J. Weaver. 2003a. The role of wind-driven sea-ice motion on ocean ventilation in a global climate model. *Summary report of a joint meeting of the International Workshop on Sea-Ice Extent and the Global Climate System and the Mini-Conference on Long-Term Variability of the Barents Sea Region, Toulouse, France, 15–19 April 2002*. Geneva, World Meteorological Organization. World Climate Research Programme, Abstract, 85. (WCRP Informal Report 9/2003.)
- Saenko, O.A. and A.J. Weaver. 2003b. Southern Ocean upwelling and eddies: sensitivity of the global overturning to the surface density range. *Tellus*, **55A**(1), 106–111. (10.1034/j.1600-0870.2003.201518.x.)
- Saenko, O.A. and A.J. Weaver. 2004. What drives heat transport in the Atlantic: sensitivity to mechanical energy supply and buoyancy forcing in the Southern Ocean. *Geophys. Res. Lett.*, **31**(20), L20305. (10.1029/2004GL020671.)
- Saenko, O.A., G.M. Flato and A.J. Weaver. 2002a. Improved representation of sea-ice processes in climate models. *Atmos.–Ocean*, **40**(1), 21–43. (10.3137/ao.400102.)
- Saenko, O.A., A. Schmittner and A.J. Weaver. 2002b. On the role of wind-driven sea ice motion on ocean ventilation. *J. Phys. Oceanogr.*, **32**(12), 3376–3395. (<http://tinyurl.com/q7l9c9t>.)
- Saenko, O.A., A.J. Weaver and A. Schmittner. 2003a. Atlantic deep circulation controlled by freshening in the Southern Ocean. *Geophys. Res. Lett.*, **30**(14), 1754. (10.1029/2003GL017681.)
- Saenko, O.A., A.J. Weaver and J.M. Gregory. 2003b. On the link between the two modes of the ocean thermohaline circulation and the formation of global-scale water masses. *J. Climate*, **16**(17), 2797–2801. (10.1175/1520-0442(2003)016<2797:OTLBTT>2.0.CO;2.)
- Saenko, O.A., A.J. Weaver and M.H. England. 2003c. A region of enhanced northward Antarctic Intermediate Water transport in a coupled climate model. *J. Phys. Oceanogr.*, **33**(7), 1528–1535. (10.1175/1520-0485(2003)033<1528:AROENA>2.0.CO;2.)
- Saenko, O.A., A. Schmittner and A.J. Weaver. 2003d. Some effects of sea ice motion on deep ocean ventilation. *Geophys. Res. Abstr.*, **5**, EAE03-A-01386. (<http://tinyurl.com/nmhx19l>.)
- Saenko, O.A., J.C. Fyfe and M.H. England. 2005. On the response of the oceanic wind-driven circulation to atmospheric CO₂ increase. *Climate Dyn.*, **25**(4), 415–426. (10.1007/s00382-005-0032-5.)
- Saenko, O.A., X.-Y. Yang, M.H. England and W.G. Lee. 2011. Subduction and transport in the Indian and Pacific Oceans in a 2 x CO₂ climate. *J. Climate*, **24**(6), 1821–1838. (10.1175/2010JCLI3880.1.)
- Saenko, O.A., A. Sen Gupta and P. Spence. 2012a. On challenges in predicting bottom water transport in the Southern Ocean. *J. Climate*, **25**(4), 1349–1356. (10.1175/JCLI-D-11-00040.1.)
- Saenko, O.A., X. Zhai, W. Merryfield and W.G. Lee. 2012b. The combined effect of tidally and eddy driven diapycnal mixing on the large-scale ocean circulation. *J. Phys. Oceanogr.*, **42**(4), 526–538. (10.1175/JPO-D-11-0122.1.)
- Sahade, R. and 19 others (including I. Schloss). 2010. Coastal ecosystem responses to global warming: a small-scale case at Potter Cove. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 673, CD-ROM.

- Sakai, K. and W.R. Peltier. 1996. A multibasin reduced model of the global thermohaline circulation: paleoceanographic analyses of the origins of ice-age climate variability. *J. Geophys. Res.*, **101**(C10), 22,535–22,562. (10.1029/96JC00539.)
- Sakurai, T. *and 6 others* (including H. Ohno). 2010. Magnesium methanesulfonate salt found in the Dome Fuji (Antarctica) ice core. *J. Glaciol.*, **56**(199), 837–842. (10.3189/002214310794457335.)
- Salters, V.J.M., M. Storey, J.H. Sevigny and H. Whitechurch. 1992. Chapter 3. Trace element and isotopic characteristics of Kerguelen-Heard Plateau basalts. In Wise, S.W., Jr *and 28 others* (including F. Heider and J.H. Sevigny), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, 55–62. (10.2973/odp.proc.sr.120.116.1992.)
- Sandblom, E., M. Axelsson and W. Davison. 2009. Circulatory function at sub-zero temperature: venous responses to catecholamines and angiotensin II in the Antarctic fish *Pagothenia borchgrevinki*. *J. Comp. Physiol. B*, **179**(2), 165–173. (10.1007/s00360-008-0299-z.)
- Sander, S., M. Bates, S. Elieff and L. Sander. 2010. AIRGrav airborne gravity. *Our Earth, our air, our water, our future. 44th Annual CMOS Congress, 36th Annual Scientific Meeting of CGU, 3rd Joint CMOS-CGU Congress, 31 May–4 June, Ottawa, Ontario. Congress abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 4609, 28–29. (<http://tinyurl.com/p6lxb7b>.)
- Sander, R. and J. Bottenheim. 2012. A compilation of tropospheric measurements of gas-phase and aerosol chemistry in polar regions. *Earth Syst. Sci. Data (ESSD)*, **4**(1), Special Issue, 215–282. (10.5194/essd-4-215-2012.)
- Sander Geophysics. 2009. Sander Geophysics explores the Antarctic. *CARN Newsl.*, **26**, 17–19. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/CARN26.pdf.)
- Sanderson, M. 1988. *Griffith Taylor; Antarctic scientist and pioneer geographer*. Ottawa, Ont., Carleton University. (Carleton Library Series 145.)
- Sandilands, J.W. 1993. A three-dimensional chemical transport model study of the 1991 Antarctic ozone hole using objectively analyzed data. M.Sc. thesis, Department of Physics, York University, Toronto, Ont.
- Sandilands, J.W., J.W. Kaminski, J.C. McConnell, S.R. Beagley and N. McFarlane. 1994. Modelling stratospheric polar ozone using objective analysis. In Hudson, R.D., ed. *Ozone in the troposphere and stratosphere, Part 2*. Greenbelt, MD, U.S. National Aeronautics and Space Administration. Goddard Space Flight Center, 508–511. (NASA Conference Publication 3266.)
- Sankey, D. and T.G. Shepherd. 2003. Correlations of long-lived chemical species in a middle atmosphere general circulation model. *J. Geophys. Res.*, **108**(D16), 4494. (10.1029/2002JD002799.)
- Santee, M.L. *and 11 others* (including P. Bernath, R. Nassar, K. Walker and C. Boone). 2005. A study of stratospheric chlorine partitioning in the winter polar vortices based on new satellite measurements and modeling. [Abstract.] *Eos, Trans. AGU*, **86**(52), Fall Meet. Suppl., A32C-04. (www.agu.org/meetings/fm05/waisfm05.html.)
- Santee, M.L. *and 9 others* (including P.F. Bernath, K.A. Walker and C.D. Boone). 2008. A study of stratospheric chlorine partitioning based on new satellite measurements and modeling. *J. Geophys. Res.*, **113**(D12), D12307. (10.1029/2007JD009057.)
- Santitissadeekorn, N., G. Froyland and A. Monahan. 2010. Optimally coherent sets in geophysical flows: a transfer-operator approach to delimiting the stratospheric polar vortex. *Phys. Rev. E*, **82**(5), 056311. (10.1103/PhysRevE.82.056311.)
- Santora, J., W. Sydeman, C. Reiss, S. Batten, S. Ralston and R. Veit. 2009. Response of predators to hierarchical euphausiid patch dynamics in the Antarctic, California Current and North Pacific. *From ecosystem function to prediction, 3rd GLOBEC Open Science Meeting, 22–26 June 2009, Victoria, BC, Canada. Abstracts*. Nanaimo, B.C., Department of Fisheries and Oceans. Pacific Biological Station, Abstract WD-O21, 101. (www.confmanager.com/communities/c1345/files/osm/abstracts_book_web.pdf.)

- Sanvito, S., F. Galimberti and E.H. Miller. 2007. Development of aggressive vocalizations in male southern elephant seals (*Mirounga leonina*): maturation or learning? *Behaviour*, **145**(2), 137–170. (10.1163/156853907783244729.)
- Sargian, P., S. Mas, É. Pelletier and S. Demers. 2007. Multiple stressors on an Antarctic microplankton assemblage: water soluble crude oil and enhanced UVBR level at Ushuaia (Argentina). *Polar Biol.*, **30**(7), 829–841. (10.1007/s00300-006-0243-1.)
- Saul, D.J., J.M. Aislabie, C.E. Brown, L. Harris and J.M. Foght. 2005. Hydrocarbon contamination changes the bacterial diversity of soil from around Scott Base, Antarctica. *FEMS Microbiol. Ecol.*, **53**(1), 141–155. (10.1016/j.femsec.2004.11.007.)
- Sault Star. 1998. Saultite to study Antarctic Peninsula. *Sault Star*, 5 December, B.2.
- Sault Star. 2000. Explorer organizes Antarctic cleanup mission. *Sault Star*, 30 August, A.11.
- Saunders, A., ed. 1997a. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 4.* Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/ohp5o7b>.)
- Saunders, A., ed. 1997b. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 5.* Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/oq354qp>.)
- Saunders, A., ed. 1998a. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 6.* Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/q4djrrt>.)
- Saunders, A., ed. 1998b. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 7.* Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/noy6gnk>.)
- Saunders, A. 1999a. Arctic and Antarctic data management: the bipolar context. *CARN Newsl.*, **8–9**, 7. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/8-9.pdf.)
- Saunders, A. 1999b. Arctic and Antarctic data management: the bipolar context. *Meridian/Méridien*, **1999**, 8. (www.polarcom.gc.ca/uploads/Publications/Meridian%20Newsletter/meri_99_fall_enfr.pdf.)
- Saunders, A., ed. 1999c. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 8 & 9.* Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/ohmogax>.)
- Saunders, A., ed. 2000. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 10.* Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/10.pdf.)
- Sauter, E.J., O. Sachs, M. Schlüter, M.M. Rutgers van der Loeff, K. Jerosch and O. Holby. 2010. Regional distribution of benthic organic carbon fluxes and sediment oxygenation in the Southern Ocean. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 381323, digital media. (www.ipy-osc.no/abstract/381323.)
- Savage, M. and D. Lacelle. 2012. Ice morphology, isotope geochemistry and tritium variations in perennial ice-covered Lake Joyce, McMurdo Dry Valleys of Antarctica: insights into ice accretion and ablation rates and transit time of water through the ice-cover. *2012 Ottawa-Carleton Student Northern Research Symposium, 2 March 2012, Ottawa, Ontario. Program and abstracts.* Ottawa, Ont., Carleton University, digital media. (http://www3.carleton.ca/northernresearch/abstract_savage.html.)
- Savastiouk, V., C.T. McElroy and R.D. Evans. 2009. The first ozone observations with the Brewer spectrophotometer at the South Pole. [Abstract.] *Eos, Trans. AGU*, **90**(22), Jt. Assem. Suppl., A31A-09. (www.agu.org/meetings/ja09/waisja09.html.)

- Savidge, G. *and 9 others* (including P. Boyd). 1996. An assessment of the role of the marginal ice zone in the carbon cycle of the Southern Ocean. *Antarct. Sci.*, **8**(4), 349–358. (10.1017/S0954102096000521.)
- Sayre, J.T. *and 60 others* (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, J. Kennedy and K. Vanderlinde). 2012. Design and characterization of 90 GHz feedhorn-coupled TES polarimeter pixels in the SPTPol camera. In Holland, W.S. and J. Zmuidzinas, eds. *Millimeter, submillimeter, and far-infrared detectors and instrumentation for astronomy VI*. Bellingham, WA, International Society for Optical Engineering, 845239. (SPIE Proceedings 8452, Part Two.) (10.1117/12.927035.)
- Scambos, T.A., M.J. Dutkiewicz, J.C. Wilson and R.A. Bindschadler. 1992. Application of image cross-correlation to the measurement of glacier velocity using satellite image data. *Rem. Sens. Environ.*, **42**(3), 177–186. (10.1016/0034-4257(92)90101-O.)
- Schafer, A.N., I. Snape and S.D. Siciliano. 2007. Soil biogeochemical toxicity end points for sub-Antarctic Islands contaminated with petroleum hydrocarbons. *Environ. Toxicol. Chem.*, **26**(5), 890–897. (10.1897/06-420R.1.)
- Schafer, A.N., I. Snape and S.D. Siciliano. 2008. Microbial activity and abundance of soil microorganisms at a petroleum hydrocarbon contaminated site at Casey Station, East Antarctica. *3rd International Conference on Polar and Alpine Microbiology, Banff, Alberta, Canada, 11–15 May 2008. Program & abstracts*. Edmonton, Alta., University of Alberta. Department of Biological Sciences, Abstract PC-10, 60. (www.polaralpinemicrobiology.com/PAM_Program.pdf.)
- Schafer, A.N., I. Snape and S.D. Siciliano. 2009. Influence of liquid water and soil temperature on petroleum hydrocarbon toxicity in Antarctic soil. *Environ. Toxicol. Chem.*, **28**(7), 1409–1415. (10.1897/08-434.1.)
- Schaffer, K.K. *and 42 others* (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, G.P. Holder and K. Vanderlinde). 2011. The first public release of South Pole Telescope data: maps of a 95 deg² field from 2008 observations. *Astrophys. J.*, **743**(1), 90. (10.1088/0004-637X/743/1/90.)
- Schall, C., K.G. Heumann, S. de Mora and P.A. Lee. 1996. Biogenic brominated and iodinated organic compounds in ponds on the McMurdo Ice Shelf, Antarctica. *Antarct. Sci.*, **8**(1), 45–48. (10.1017/S0954102096000089.)
- Schandl, E.S. and F.J. Wicks. 1988. Ice-rafted dropstones from the Weddell Sea, Antarctica. *13th Joint Annual Meeting, GAC/MAC/CSPG/CGU, 23–25 May 1988, St. John's, Newfoundland. Program with Abstracts*. St. John's, Nfld, Geological Association of Canada, A109.
- Schandl, E.S., M.E. Gorton and F.J. Wicks. 1988. Mantle derived alkali basalts from the Maud Rise, Weddell Sea, Antarctica. *13th Joint Annual Meeting, GAC/MAC/CSPG/CGU, 23–25 May 1988, St. John's, Newfoundland. Program with Abstracts*. St. John's, Nfld, Geological Association of Canada, A108–A109.
- Schandl, E.S., M.P. Gorton and F.J. Wicks. 1990. Chapter 1. Mineralogy and geochemistry of alkali basalts from Maud Rise, Weddell Sea, Antarctica. In Barker, P.F. *and 24 others* (including C.P.G. Pereira and E. Schandl), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 113. Weddell Sea, Antarctica: sites 689–697*. College Station, TX, Texas A & M University. Ocean Drilling Program, 5–14. (10.2973/odp.proc.sr.113.184.1990.)
- Scheidat, M. *and 7 others* (including R. Williams). 2009. Marine mammal perimeter surveillance (MAPS): visual surveys. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **595**, 12–15. (<http://epic.awi.de/29119/1/Boe2009d.pdf>.)
- Scheidat, M. *and 6 others* (including R. Williams). 2011. Cetacean surveys in the Southern Ocean using icebreaker-supported helicopters. *Polar Biol.*, **34**(10), 1513–1522. (10.1007/s00300-011-1010-5.)

- Scherer, R., D. Winter, C. Sjunneskog, P. Maffioli and the Andrill-MIS Science team (that includes D.R. Schmitt). 2007. The diatom record of the ANDRILL-McMurdo Ice Shelf Project drillcore. In Cooper, A.K., P. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007*. Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (*U.S. Geol. Surv. Open-File Rep.* 2007-1047.) (Extended Abstract 171.) (<http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea171.pdf>.)
- Schilla, A.S., J.W. White, J.L. Kavanaugh, E.J. Steig and K.C. Taylor. 2006. Did ENSO influence regional climate and precipitation isotopes in the Ross Sea region of Antarctica. [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., U34B-06. (www.agu.org/meetings/fm06/waisfm06.html.)
- Schlich, R. and 28 others (the Ocean Drilling Program Leg 120 Shipboard Scientific Party (that includes J.H. Sevigny). 1988. Ocean Drilling Program: that sinking feeling. *Nature*, **334**(6181), 385–386. (10.1038/334385a0.)
- Schlich, R. and 28 others (including F. Heider and J.H. Sevigny), eds. 1989. *Proceedings of the Ocean Drilling Program, Part A: initial reports. Central Kerguelen Plateau: covering Leg 120 of the cruises of the drilling vessel JOIDES Resolution, Fremantle, Australia, to Fremantle, Australia, Sites 747-751, 20 February to 30 April 1988. Vol. 120*. College Station, TX, Texas A & M University. Ocean Drilling Program, November. (10.2973/odp.proc.ir.120.1989.)
- Schloss, I. and D. Dumont. 2012. Plankton dynamics in Potter Cove: a turbulence model assessment. *4th IMCOAST Workshop, 16–20 April, Buenos Aires*. Bremerhaven, Alfred Wegener Institute for Polar and Marine Research (AWI) presentation.
- Schloss, I.R. and 8 others (including G.A. Ferreyra). 2007. Tendencias a largo plazo del material particulado y aspectos físicos de la columna de agua en Caleta Potter (período 1991–2005) [Long term trends in particulate material and hydrographic conditions in Potter Cove (1991–2005)]. *Actas del VI° Simposio Argentino y III° Latinoamericano sobre Investigaciones Antárticas, 10–14 Septiembre 2007, Buenos Aires, Argentina*. Buenos Aires, Dirección Nacional del Antártico. Instituto Antártico Argentino, Extended abstract CFQCO108, CD-ROM. [In Spanish] (<http://tinyurl.com/nsgaxr9>.)
- Schloss, I.R. and 9 others (including G.A. Ferreyra). 2008a. Long-term hydrographic conditions and climate trends in Potter Cove. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **571**, 382–389. (<http://epic.awi.de/28602/1/Wie2008b.pdf>.)
- Schloss, I., F. Momo, G. Ferreyra and S. Demers. 2008b. Modeling the combined effects of UVBR and temperature increase on high-latitude marine microplanktonic food-webs. *Québec–Océan, 7e Assemblée Générale Annuelle, 27–28 novembre 2008, Rivière du Loup. Programme*. Québec, Qué., Université Laval, poster presentation. (www.quebec-ocean.ulaval.ca/aga2008/Programme%20AGA%202008.pdf.)
- Schloss, I.R., F. Momo, G.A. Ferreyra and S. Demers. 2010a. A model for the study of the combined effects of increased ultraviolet-B radiation and temperature on marine microplanktonic food webs. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 695, CD-ROM.
- Schloss, I.R., D. Abele, G.A. Ferreyra, O. González, S. Moreau and S. Demers. 2010b. Response of Potter Cove phytoplankton dynamics to long term climate trends. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 694, CD-ROM.
- Schloss, I.R., M.P. Hernando, G.O. Almandoz, M. Hoffmeier, G. Malanga and G.A. Ferreyra. 2012a. Effect of glacier melting on polar plankton ecology and physiology. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 888, digital media. (http://132.246.11.198/2012-ipy/Abstracts_On_the_Web/pdf/ipy2012arAbstract00888.pdf.)

- Schloss, I.R., C.-A. Michaud-Tremblay and D. Dumont. 2012b. Modelling phytoplankton growth in polar coastal areas. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts.* Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 882, digital media. (http://132.246.11.198/2012-ipy/Abstracts_On_the_Web/pdf/ipy2012arAbstract00882.pdf.)
- Schloss, I.R. and 6 others (including S. Moreau, S. Demers and G.A. Ferreyra). 2012c. Response of phytoplankton dynamics to 19-year (1991–2009) climate trends in Potter Cove (Antarctica). *J. Mar. Syst.*, **92**(1), 53–66. (10.1016/j.jmarsys.2011.10.006.)
- Schmidt, S., W. Moskal, S.J. de Mora, C. Howard-Williams and W.F. Vincent. 1991. Limnological properties of Antarctic ponds during winter freezing. *Antarct. Sci.*, **3**(4), 379–388. (10.1017/S0954102091000482.)
- Schmitt, D.G. 2001. Law of ownership and control of meteorites. [Abstract 5150.] *Meteor. & Planet. Sci.*, **36**(S9), Suppl.: 64th Annual Meteoritical Soc. Meet., A183. (www.lpi.usra.edu/meetings/metsoc2001/pdf/5150.pdf.)
- Schmitt, D.G. 2002. The law of ownership and control of meteorites. *Meteor. & Planet. Sci.*, **37**(S12), Supplement, B5–B11. (10.1111/j.1945-5100.2002.tb00897.x.)
- Schmitt, D. and 7 others (and the ANDRILL-SMS Science Team). 2008a. Hydraulic fracturing stress determinations in the ANDRILL south McMurdo Sound drill hole. *33rd International Geological Congress, 6–14 August 2008, Oslo, Norway. Abstracts.* Oslo, Norway, International Geological Congress, Abstract STN02109L, digital media. (www.cprm.gov.br/33IGC/1347483.html.)
- Schmitt, D.R. and 6 others. 2008b. Quantitative stress determination by wire-line hydraulic fracturing tests in the ANDRILL South McMurdo Sound drillhole. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., C21B-0543. (www.agu.org/meetings/fm08/waisfm08.html.)
- Schmittner, A., O.A. Saenko and A.J. Weaver. 2002a. Coupling of the hemispheres in observations and simulations of glacial climate change. [Abstract PP12C-01.] *Eos, Trans. AGU*, **83**(47), Fall Meet. Suppl., F934. (www.agu.org/meetings/fm02/waisfm02.html.)
- Schmittner, A., O.A. Saenko and A.J. Weaver. 2002b. The influence of sea ice motion on ocean ventilation. [Abstract C11A-0975.] *Eos, Trans. AGU*, **83**(47), Fall Meet. Suppl., F313. (www.agu.org/meetings/fm02/waisfm02.html.)
- Schmittner, A., O.A. Saenko and A.J. Weaver. 2003. Coupling of the hemispheres in observations and simulations of glacial climate change. *Quat. Sci. Rev.*, **22**(5–7), 659–671. (<http://tinyurl.com/nptpy73>.)
- Schmittner, A., O.A. Saenko and A.J. Weaver. 2004. Couplings of the hemispheres in observations and simulations of glacial climate change. Response to the comments by Peter Huybers *Quat. Sci. Rev.*, **23**(1–2), 210–212. (10.1016/j.quascirev.2003.08.002.)
- Schmittner, A., A. Oschlies, X. Giraud, M. Eby and H.L. Simmons. 2005. A global model of the marine ecosystem for long-term simulations: sensitivity to ocean mixing, buoyancy forcing, particle sinking, and dissolved organic matter cycling. *GBC Global Biogeochem. Cycles*, **19**(3), GB3004. (10.1029/2004GB002283.)
- Schmok, J. 1995. *Radar echo sounding, Dry Valleys trip report, November 6–30, 1995.* Burnaby, B.C., Golder Associates Ltd.
- Schnack-Schiel, S.B. and 6 others (including C. Haas). 2008. Copepods in sea ice of the western Weddell Sea during austral spring 2004. *Deep-Sea Res. II*, **55**(8–9), 1056–1067. (10.1016/j.dsr2.2007.12.014.)
- Schoen, D. 1999. Learning from polar ice core research. *ES&T, Environ. Sci. Technol.*, **33**(7), 160A–163A. (Includes interview with L.A. Mysak.) (10.1021/es992771c.)
- Schoof, C. 2002. Basal perturbations under ice streams: form drag and surface expression. *J. Glaciol.*, **48**(162), 407–416. (10.3189/172756502781831269.)

- Schoof, C. 2004a. Bed topography and surges in ice streams. *Geophys. Res. Lett.*, **31**(6), L06401. (10.1029/2003GL018807.)
- Schoof, C. 2004b. On the mechanics of ice-stream shear margins. *J. Glaciol.*, **50**(169), 208–218. (10.3189/172756504781830024.)
- Schoof, C. 2006a. Marine ice sheet instability. *31st Joint Annual Meeting, GAC/MAC, Geological Association of Canada and Mineralogical Association of Canada, 14–17 May 2006, Montreal, QC. Abstracts*. digital media. (<http://tinyurl.com/nns3tu9>.)
- Schoof, C. 2006b. A variational approach to ice stream flow. *J. Fluid Mech.*, **556**, 227–251. (10.1017/S0022112006009591.)
- Schoof, C. 2007a. Ice sheet grounding line dynamics: steady states, stability, and hysteresis. *J. Geophys. Res.*, **112**(F3), Special Section, F03S28. (10.1029/2006JF000664.)
- Schoof, C.G. 2007b. Tipping points: nonlinearity and hysteresis in ice sheets. *Fourteenth Annual WAIS Workshop and 21st International FRISP Workshop, 5–8 September 2007, Algonkian Meeting Center, Sterling, Virginia, U.S.A. Agenda & abstracts*. Boulder, CO, National Snow and Ice Data Center. West Antarctic Ice Sheet Initiative (WAIS), presentation. (<http://tinyurl.com/qbh65sk>.)
- Schoof, C. 2010. Glaciology: Beneath a floating ice shelf. *Nature Geosci.*, **3**(7), 450–451. (10.1038/ngeo895.)
- Schoof, C. 2011. Marine ice sheet dynamics. Part 2. A Stokes flow contact problem. *J. Fluid Mech.*, **679**, 122–155. (10.1017/jfm.2011.129.)
- Schoof, C. 2012a. Marine ice sheet stability. *J. Fluid Mech.*, **698**, 62–72. (10.1017/jfm.2012.43.)
- Schoof, C. 2012b. Thermally driven migration of ice-stream shear margins. *J. Fluid Mech.*, **712**, 552–578. (10.1017/jfm.2012.438.)
- Schoof, C. and M. Haseloff. 2012a. Thermal migration of ice stream shear margins. *Geophys. Res. Abstr.*, **14**, 2012 EGU Gen. Assem., EGU2012-12056. (<http://tinyurl.com/cxjyfb4>.)
- Schoof, C. and M. Haseloff. 2012b. Thermal migration of ice stream shear margins. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, C31B-0601, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Schoof, C. and M. Haseloff. 2012c. Thermal migration of ice stream shear margins. *WAIS 2012, Nineteenth Annual WAIS Workshop, 19–22 September 2012, Eatonville, Washington. Agenda & abstracts*. Boulder, CO, National Snow and Ice Data Center, digital media. (<http://tinyurl.com/oqroltq>.)
- Schoof, C. and I.J. Hewitt. 2012. Hydraulic controls on glacier and ice cap flow. *Geophys. Res. Abstr.*, **14**, 2012 EGU Gen. Assem., EGU2012-11906. (<http://tinyurl.com/cw3d7m5>.)
- Schoof, C.G. and A.W. Rempel. 2007. Ice stream shear margin migration. [Abstract.] *Eos, Trans. AGU*, **88**(52), Fall Meet. Suppl., C51A-0088. (www.agu.org/meetings/fm07/waisfm07.html.)
- Schoof, C., I.J. Hewitt and M.A. Werder. 2012. Flotation and free surface flow in a model for subglacial drainage. Part 1. Distributed drainage. *J. Fluid Mech.*, **702**, 126–156. (10.1017/jfm.2012.165.)
- Schreer, J.F. and K.M. Kovacs. 1997. Allometry of diving capacity in air-breathing vertebrates. *Can. J. Zool.*, **75**(3), 339–358. (10.1139/z97-044.)
- Schreer, J.F. and J.W. Testa. 1996. Classification of Weddell seal diving behavior. *Mar. Mammal Sci.*, **12**(2), 227–250. (10.1111/j.1748-7692.1996.tb00573.x.)
- Schreer, J.F., K.K. Hastings and J.W. Testa. 1996. Prewaning mortality of Weddell seal pups. *Can. J. Zool.*, **74**(9), 1775–1778. (10.1139/z96-195.)
- Schreer, J.F., R.J. O'Hara Hines and K.M. Kovacs. 1998. Classification of dive profiles: a comparison of statistical clustering techniques and unsupervised artificial neural networks. *J. Agric. Biol. Environ. Stats*, **3**(4), 383–404. (www.jstor.org/stable/1400572.)

- Schreer, J.F., K.M. Kovacs and R.J. O'Hara Hines. 2001. Comparative diving patterns of pinnipeds and seabirds. *Ecol. Monogr.*, **71**(1), 137–162. (10.1890/0012-9615(2001)071[0137:CDPOPA]2.0.CO;2.)
- Schröder, H., S. Hoffmann, G. Kuhn, F. Niessen, D. Schmitt and T. Wonik. 2010. Physical properties of sedimentary rocks from the AND-2A borehole, ANDRILL southern McMurdo Sound Project, Antarctica. [Abstract.] *Terra Nostra [Bonn]*, **2010-5**, 24. Int. Polartagung, 90–91. (http://epic.awi.de/35153/14/24-TerraNostra_2010_5.pdf.)
- Schröder-Adams, C.J. 1990. High latitude agglutinated foraminifera; Prydz Bay (Antarctica) vs. Lancaster Sound (Canadian Arctic). In Hemleben, C., M.A. Kaminski, W. Kuhnt and D.B. Scott, eds. *Paleoecology, biostratigraphy, paleoceanography and taxonomy of agglutinated foraminifera*. Dordrecht, etc., Kluwer Academic Publishers, 315–343. (NATO ASI Series C: Mathematical and Physical Sciences 327.)
- Schröder-Adams, C.J. 1991. Chapter 31. Middle Eocene to Holocene benthic foraminifer assemblages from the Kerguelen Plateau (southern Indian Ocean). In Barron, J.A. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, September, 611–630. (10.2973/odp.proc.sr.119.152.1991.)
- Schulz, T.M. and W.D. Bowen. 2004. Pinniped lactation strategies: evaluation of data on maternal and offspring life history traits. *Mar. Mammal Sci.*, **20**(1), 86–114. (10.1111/j.1748-7692.2004.tb01142.x.)
- Schuur, E.A.G. and 18 others (including P.M. Lafleur and C. Tarnocai). 2008. Vulnerability of permafrost carbon to climate change: implications for the global carbon cycle. *BioScience*, **58**(8), 701–714. (www.jstor.org/stable/10.1641/B580807.)
- Schwartz, M.J., G.L. Manney, W.H. Daffer, M.I. Hegglin and K.A. Walker. 2012. UTLS satellite measurements of chemical trace gases in the context of multiple tropopauses and upper-tropospheric jets. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_22.pdf.)
- Schwegmann, S., C. Haas, R. Timmermann, R. Gerdes and P. Lemke. 2009. The importance of large scale sea ice drift and ice type distribution on ice extent in the Weddell Sea. [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., C41C-0476. (www.agu.org/meetings/fm09/waisfm09.html.)
- Schwegmann, S., C. Haas, C. Fowler and R. Gerdes. 2011. A comparison of satellite-derived sea-ice motion with drifting-buoy data in the Weddell Sea, Antarctica. *Ann. Glaciol.*, **52**(57), Part 1, 103–110. (www.igs2010.org/Abstracts/57A164.html.)
- Scoates, J.S. and 7 others (including D. Weis and H. Annell). 2005. The Val gabbro plutonic suite, Kerguelen Archipelago: evolution of a volcanic feeder system in an oceanic island. *Geochim. Cosmochim. Acta*, **69**(10), Supplement, Goldschmidt Conference 2005, A859. (http://goldschmidt.info/2005/Abstract%20Volume/abs_vol.pdf.)
- Scoates, J.S., M. Lo Cascio, D. Weis and D.H. Lindsley. 2006. Experimental constraints on the origin and evolution of mildly alkalic basalts from the Kerguelen Archipelago, southeast Indian Ocean. *Contrib. Mineral. Petrol.*, **151**(5), 582–599. (10.1007/s00410-006-0070-y.)
- Scoates, J.S. and 7 others (including D. Weis and H. Annell). 2008. The Val gabbro plutonic suite: a sub-volcanic intrusion emplaced at the end of flood basalt volcanism on the Kerguelen Archipelago. *J. Petrol.*, **49**(1), 79–105. (10.1093/petrology/egm071.)
- Scolardi, K.M., K.L. Daly, E.A. Pakhomov and J.J. Torres. 2006. Feeding ecology and metabolism of the Antarctic cydippid ctenophore *Callianira antarctica*. *Mar. Ecol. Progr. Ser.*, **317**, 111–126. (10.3354/meps317111.)
- Scott, D.B. 2003. Quaternary deep-sea connections between the western Atlantic, Arctic, Norwegian and Antarctic seas. [Paper 235-9.] *Geol. Soc. Am. Abstr. Progr.*, **35**(6), 2003 Seattle Annual Meeting, 586. (http://gsa.confex.com/gsa/2003AM/finalprogram/abstract_63661.htm.)

- Scott, D.B., T. Schell and A. Rochon. 2005a. Foraminifera and associated organisms on the present Mackenzie Shelf, Canadian Arctic and comparison to the Antarctic faunas. [Paper 239-11] *Geol. Soc. Am. Abstr. Prog.*, **37**(7), 2005 Salt Lake City Annual Meeting, 525. (<http://tinyurl.com/nd4cqs7>.)
- Scott, D.B., T. Schell and A. Rochon. 2005b. Foraminifera and associated organisms on the present Mackenzie Shelf, Canadian Arctic and comparison to the Antarctic faunas. [Abstract.] *PaleoBios*, **25**(2), Supplement, 106.
- Scott, D.B., T. Schell and A. Rochon. 2006a. Foraminifera and associated organisms on the present Mckenzie Shelf/Amundsen Basin, Canadian Arctic and comparison to the Antarctic faunas. *31st Joint Annual Meeting, GAC/MAC, Geological Association of Canada and Mineralogical Association of Canada, 14–17 May 2006, Montreal, QC. Abstracts.* digital media. (<http://tinyurl.com/p3mtuu6>.)
- Scott, D.B., T. Schell and A. Rochon. 2006b. Foraminifers and associated organisms on the present Mackenzie Shelf/Amundsen Basin, Canadian Arctic and comparison to the Antarctic faunas. [Abstract.] *Atl. Geol.*, **42**(1), 112. (<http://journals.hil.unb.ca/index.php/ag/article/view/2157/2543>.)
- Scott, D.J. 2012. Canadian Polar Commission: advancing Canadian polar knowledge. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts.* Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, presentation.
- Scott, P. and 275 others (the IceCube Collaboration that includes D. Grant, S.C. Nowicki and T.R. Wood). 2012. Use of event-level neutrino telescope data in global fits for theories of new physics. *J. Cosmol. Astropart. Phys.*, **2012**(11), Article 057. (10.1088/1475-7516/2012/11/057.)
- Screen, J.A., N.P. Gillett, A.Y.u. Karpechko and D.P. Stevens. 2010. Mixed layer temperature response to the southern annular mode: mechanisms and model representation. *J. Climate*, **23**(3), 664–678. (10.1175/2009JCLI2976.1.)
- Scully, N.M., W.F. Vincent, D.R.S. Lean and W.J. Cooper. 1997. Implications of ozone depletion for surface-water photochemistry: sensitivity of clear lakes. *Aquat. Sci.*, **59**(3), 260–274. (10.1007/BF02523277.)
- Sedláček, J. 2008 Sensitivity of sea-ice cover and ocean properties to wind-stress and radiative forcings from 1500 to 2000. Ph.D. thesis, Department of Atmospheric and Oceanic Sciences, McGill University, Montréal, Que., xxiii + 132 pp. (<http://digitool.library.mcgill.ca/thesisfile22010.pdf>.)
- Šedláček, J. and L.A. Mysak. 2009. A model study of the Little Ice Age and beyond: changes in ocean heat content, hydrography and circulation since 1500. *Climate Dyn.*, **33**(4), 461–475. (10.1007/s00382-008-0503-6.)
- Seitz, H.M. and R.R. Keays. 1997. Platinum group element segregation and mineralization in a noritic ring complex formed from Proterozoic siliceous high magnesium basalt magmas in the Vestfold Hills, Antarctica. *J. Petrol.*, **38**(6), 703–725. (10.1093/ptroj/38.6.703.)
- Semler, D.R. and 78 others (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, L. Shaw, A. van Engelen and K. Vanderlinde). 2012. High-redshift cool-core galaxy clusters detected via the Sunyaev-Zel'dovich effect in the South Pole Telescope survey. *Astrophys. J.*, **761**(2), Article 183. (10.1088/0004-637X/761/2/183.)
- Sestayo, Y. and for the IceCube Collaboration (that includes D. Grant, S.C. Nowicki and T.R. Wood). 2011. Search strategies for discovering extraterrestrial neutrinos with IceCube. *Nucl. Instrum. Meth. Phys. Res. A*, **626–627**, Supplement, S196–S199. (10.1016/j.nima.2010.06.264.)
- Sevigny, J.H., H. Whitechurch, M. Storey and V.J.M. Salters. 1992. Chapter 4. Zeolite-facies metamorphism of central Kerguelen Plateau basalts. In Wise, S.W., Jr and 28 others (including F. Heider and J.H. Sevigny), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 120. Central Kerguelen Plateau.* College Station, TX, Texas A & M University. Ocean Drilling Program, April, 63–69. (10.2973/odp.proc.sr.120.117.1992.)

- Sharp, M. 1991. Interest grows in Antarctic cruises. *Calgary Herald*, D.2.
- Sharp, M. 2005. McMurdo Dry Valleys, October–November 2004. *CARN Newsl.*, **20**, 12–14. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/20.pdf.)
- Sharp, M. and J. Foght. 2001. Microbial activity beneath ice sheets and its influence on the subglacial environment. In Løken, O.H. and N.J. Couture, eds. *Subglacial lake and deep ice exploration: Canadian expertise and international opportunities*. Ottawa, Ont., Canadian Polar Commission, May, 22–23. (http://www.polarcom.gc.ca/english/antarctic/pdf/antarctic_subglacial_en.pdf)
- Sharp, M. and L. Gray. 2004. Ice observations and environmental change. In Loken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research*. Ottawa, Ont., Canadian Polar Commission, February, 45–46. (<http://tinyurl.com/oqmdpbo>.)
- Shatenstein, S. 1995a. Montrealers find Antarctic run a tough one: but beautiful scenery more than compensates for disappointment in marathon. *Gazette [Montréal]*, 13 February, C.1.
- Shatenstein, S. 1995b. Runners take up Antarctic challenge; for Carl Andersen and Colin Kingsford, running in the first-ever Antarctic marathon is "just something to do." *Gazette [Montréal]*, 5 February, A.1.
- Shaw, D.M., M.D. Higgins, R.W. Hinton, M.G. Truscott and T.A. Middleton. 1988a. Boron in chondritic meteorites. *Geochim. Cosmochim. Acta*, **52**(9), 2311–2319. (10.1016/0016-7037(88)90133-0.)
- Shaw, D.M., M.D. Higgins, M.G. Truscott, T.A. Middleton and R.W. Hinton. 1988b. Boron in chondritic meteorites. *Nineteenth Lunar and Planetary Science Conference, 14–18 March 1988, Houston, Texas. Abstracts, Vol. 3*. Houston, TX, Lunar and Planetary Institute, 1067–1068. (LPI Contribution No.1585.) (Abstract 1541.) (www.lpi.usra.edu/meetings/lpsc1988/pdf/1541.pdf.)
- Shaw, D.M., M.D. Higgins, M.G. Truscott and T.A. Middleton. 1988c. Boron/lithium studies of chondritic meteorites. *Geochemistry. Third Chemical Congress of North America. Abstracts*. Washington, DC, American Chemical Society, GEOC 20.
- Shaw, D.M., P.L.C. Smith and M. Zhai. 1992. Boron, samarium, gadolinium, lithium and hydrogen abundances in Antarctic meteorites. [Abstract.] *Meteoritics*, **27**(3), 55th Annual Meteoritical Soc. Meet., 289. (10.1111/j.1945-5100.1992.tb00734.x.)
- Shaw, J. 1977. Till body morphology and structure related to glacier flow. *Boreas*, **6**(2), 189–201. (10.1111/j.1502-3885.1977.tb00348.x.)
- Shaw, J. 1977. Tills deposited in arid polar environments. *Can. J. Earth Sci.*, **14**(6), 1239–1245. (10.1139/e77-113.)
- Shaw, J. 2009. Antarctic subglacial meltwater environments. [Paper 14-9.] *Geol. Soc. Am. Abstr. Prog.*, **41**(5), Cordilleran Section, 105th Annual Meeting, 34. (<http://tinyurl.com/q572cys>.)
- Shaw, J. 2009. Aridity today and floods of yesterday. *CARN Newsl.*, **26**, 2–17. (<http://tinyurl.com/pfoxslw>.)
- Shaw, J. and T.R. Healy. 1977. The formation of the Labyrinth, Wright Valley, Antarctica. *New Zeal. J. Geol. Geophys.*, **20**(5), 933–947. (10.1080/00288306.1977.10420689.)
- Shaw, J. and T.R. Healy. 1977. Rectilinear slope formation in Antarctica. *Ann. Assoc. Am. Geogr.*, **67**(1), 46–54. (10.1111/j.1467-8306.1977.tb01119.x.)
- Shaw, J. and T.R. Healy. 1980. Morphology of the Onyx River system, McMurdo Sound region, Antarctica. *New Zeal. J. Geol. Geophys.*, **23**(2), 223–238. (10.1080/00288306.1980.10424208.)
- Shaw, J. and R.R. Young. 2010. Reply to comment by Ó Cofaigh, Dowdeswell, King, Anderson, Clark, DJA Evans, J. Evans, Hindmarsh, Lardner and Stokes “Comments on Shaw, J., Pugin, A., Young, R., (2009): A meltwater origin for Antarctic Shelf bedforms with special attention to megalineations.” *Geomorphology* **102**, 364–375. *Geomorphology*, **117**(1–2), 199–201. (10.1016/j.geomorph.2009.12.008.)
- Shaw, J., A. Pugin and R.R. Young. 2008. A meltwater origin for Antarctic shelf bedforms with special attention to megalineations. *Geomorphology*, **102**(3–4), 364–375. (10.1016/j.geomorph.2008.04.005.)

- Shearer, C.K. and 18 others (including C. Herd). 2010. Non-basaltic asteroidal magmatism during the earliest stages of solar system evolution: a view from Antarctic achondrites Graves Nunatak 06128 and 06129. *Geochim. Cosmochim. Acta*, **74**(3), 1172–1199. (10.1016/j.gca.2009.10.029.)
- Sheehy, C.D. and 43 others (including M. Amiri, S.J. Benton, B. Burger, M. Halpern, M. Hasselfield and C.B. Netterfield). 2010. The Keck Array: a pulse tube cooled CMB polarimeter. In Holland, W.S. and J. Zmuidzinas, eds. *Millimeter, submillimeter, and far-infrared detectors and instrumentation for astronomy V*. Bellingham, WA, Society of Photo-optical Instrumentation Engineers, 77411R. (SPIE Proceedings 7741.) (10.1117/12.857871.)
- Sheese, P.E., R.L. Gattinger, E.J. Llewellyn, C.D. Boone and K. Strong. 2011. Nighttime nitric oxide densities in the Southern Hemisphere mesosphere-lower thermosphere. *Geophys. Res. Lett.*, **38**(15), L15812. (10.1029/2011GL048054.)
- Shemenski, R. and P. Shemenski. 2001. Family appreciates Antarctic rescue. *Calgary Herald*, A.14.
- Shen Qiang, Chen Gang, E Dong-Chen and Zhou Chun-Xia. 2011. [Recent elevation changes on the Lambert-Amery system in East Antarctica from ICESat crossover analysis.]. [*Chin. J. Geophys.*], **54**(8), 1983–1989. [In Chinese with English summary.] (10.3969/j.issn.0001-5733.2011.08.005.)
- Shennan, I., W.R. Peltier, R. Drummond and B. Horton. 2002. Global to local scale parameters determining relative sea-level changes and the post-glacial isostatic adjustment of Great Britain. *Quat. Sci. Rev.*, **21**(1–3), 397–408. (10.1016/S0277-3791(01)00091-9.)
- Shepherd, A. and 46 others (including G. Milne). 2012a. A reconciled estimate of ice sheet mass balance. *Earth Observation and Cryosphere Science, 13–16 November 2012, Frascati, Italy*. Frascati, Italy, European Space Agency (ESA). European Space Research Institute (ESRIN), digital media. (http://congrexprojects.com/docs/12c20_docs2/1-esa-clic-shepherd.pdf?sfvrsn=2.)
- Shepherd, A. and 46 others (including G. Milne). 2012b. A reconciled estimate of ice-sheet mass balance. *Science*, **338**(6111), 1183–1189. (10.1126/science.1228102.)
- Shepherd, M.G. and S. Alexander. 2009. Longitudinal variations in stratospheric/mesospheric temperature at high latitudes. [Abstract.] *Eos, Trans. AGU*, **90**(22), Jt. Assem. Suppl., SA34A-03. (www.agu.org/meetings/ja09/waisja09.html.)
- Shepherd, M.G. and T. Tsuda. 2008. Large-scale planetary disturbances in stratospheric temperature at high-latitudes in the southern summer hemisphere. *Atmos. Chem. Phys. (ACP)*, **8**(24), 7557–7570. (10.5194/acp-8-7557-2008.)
- Shepherd, T. 2000. Southern Hemisphere circulation in an era of ozone recovery. *SPARC Newsl.*, **14**, digital media. (www.atmos.physics.utoronto.ca/SPARC/News14/14_Shepherd.html.)
- Shepherd, T. 2010. Long memory processes in the stratosphere. *WCRP Workshop on Seasonal to Multi-Decadal Predictability of Polar Climate, 25–29 October 2010, Bergen, Norway*. Toronto, Ont., University of Toronto. Department of Physics, digital media. (<http://tinyurl.com/mqz7qrc>.)
- Shepherd, T.G. 2011. Mechanisms for predictability of polar climate. Workshop on Seasonal to Multi-Decadal Predictability of Polar Climate; Bergen, Norway, 25–29 October 2010. *Eos, Trans. AGU*, **92**(11), 92. (10.1029/2011EO110005.)
- Shepherd, T.G. and 8 others. 2011a. Report on WCRP Workshop on Seasonal to Multi-Decadal Predictability of Polar Climate, 25–29 October 2010, Bergen, Norway. *SPARC Newsl.*, **36**, 11–19. (www.atmos.physics.utoronto.ca/SPARC/newsletter36/sparcnewsletter36.pdf.)
- Shepherd, T.G. and 8 others. 2011b. *WCRP Workshop on Seasonal to Multi-Decadal Predictability of Polar Climate, 25–29 October 2010, Bergen, Norway*. Geneva, World Meteorological Organization. World Climate Research Programme. (www.wcrp-climate.org/documents/Polar_WCRP_Report.pdf.)

- Sheppard, G. and T. Lauriault. 2005a. *Case Study 06. Cybercartographic Atlas of Antarctica: areas that should be covered validated.* Vancouver, BC, University of British Columbia. School of Library, Archival & Information Studies, International Research on Permanent Authentic Records in Electronic Systems (InterPARES). (InterPARES 2 Project.) (<http://tinyurl.com/nhtejbw>.)
- Sheppard, G. and T. Lauriault. 2005b. *Case Study 06. Cybercartographic Atlas of Antarctica. characterization of case study validated.* Vancouver, BC, University of British Columbia. School of Library, Archival & Information Studies, International Research on Permanent Authentic Records in Electronic Systems (InterPARES). (InterPARES 2 Project.) (<http://tinyurl.com/ndwq5c2>.)
- Sheraton, J.W., J.W. Thomson and K.D. Collerson. 1987. Mafic dyke swarms of Antarctica. In Halls, H.C. and W.F. Fahrig, eds. *Mafic dyke swarms: a collection of papers based on the proceedings of an international conference.* Geological Association of Canada, 419–432. (GAC Special Paper 34.)
- Shi, N., R. Schneider, H.-J. Beug and L.M. Dupont. 2001. Southeast trade wind variations during the last 135 kyr: evidence from pollen spectra in eastern South Atlantic sediments. *Earth Planet. Sci. Lett.*, **187**(3–4), 311–321. (10.1016/S0012-821X(01)00267-9.)
- Shipboard Scientific Party (that includes C.J. Mwenifumbo and D.C. Nobes). 1988a. Chapter 1. Explanatory notes. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 114. Subantarctic South Atlantic.* College Station, TX, Texas A & M University. Ocean Drilling Program, February, 3–22. (10.2973/odp.proc.ir.114.101.1988.)
- Shipboard Scientific Party (that includes C.J. Mwenifumbo and D.C. Nobes). 1988b. Chapter 5. Site 698. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 114. Subantarctic South Atlantic.* College Station, TX, Texas A & M University. Ocean Drilling Program, February, 87–150. (<http://tinyurl.com/p3hns98>.)
- Shipboard Scientific Party (that includes C.J. Mwenifumbo and D.C. Nobes). 1988c. Chapter 6. Site 699. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 114. Subantarctic South Atlantic.* College Station, TX, Texas A & M University. Ocean Drilling Program, February, 151–254. (10.2973/odp.proc.ir.114.106.1988.)
- Shipboard Scientific Party (that includes C.J. Mwenifumbo and D.C. Nobes). 1988d. Chapter 7. Site 700. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 114. Subantarctic South Atlantic.* College Station, TX, Texas A & M University. Ocean Drilling Program, February, 255–361. (<http://tinyurl.com/pdp8kk2>.)
- Shipboard Scientific Party (that includes C.J. Mwenifumbo and D.C. Nobes). 1988e. Chapter 8. Site 701. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 114. Subantarctic South Atlantic.* College Station, TX, Texas A & M University. Ocean Drilling Program, February, 363–482. (<http://tinyurl.com/phs39p6>.)
- Shipboard Scientific Party (that includes C.J. Mwenifumbo and D.C. Nobes). 1988f. Chapter 9. Site 702. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 114. Subantarctic South Atlantic.* College Station, TX, Texas A & M University. Ocean Drilling Program, February, 483–548. (<http://tinyurl.com/o8veukz>.)
- Shipboard Scientific Party (that includes C.J. Mwenifumbo and D.C. Nobes). 1988g. Chapter 10. Site 703. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 114. Subantarctic South Atlantic.* College Station, TX, Texas A & M University. Ocean Drilling Program, February, 549–619. (<http://tinyurl.com/po8dtxe>.)
- Shipboard Scientific Party (that includes C.J. Mwenifumbo and D.C. Nobes). 1988h. Chapter 11. Site 704. In Ciesielski, P.F. and 18 others (including C.J. Mwenifumbo and D.C. Nobes), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 114. Subantarctic South Atlantic.* College Station, TX, Texas A & M University. Ocean Drilling Program, February, 621–795. (<http://tinyurl.com/q8b2vr8>.)

- Shipboard Scientific Party (that includes C.P.G. Pereira and E. Schandl). 1988i. Chapter 1. Introduction and objectives. In Barker, P.F. and 24 others (including C.P.G. Pereira and E. Schandl), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 113. Weddell Sea, Antarctica: sites 689–697*. College Station, TX, Texas A & M University. Ocean Drilling Program, 5–11. (<http://tinyurl.com/neljxzz>.)
- Shipboard Scientific Party (that includes C.P.G. Pereira and E. Schandl). 1988j. Chapter 2. Explanatory notes. In Barker, P.F. and 24 others (including C.P.G. Pereira and E. Schandl), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 113. Weddell Sea, Antarctica: sites 689–697*. College Station, TX, Texas A & M University. Ocean Drilling Program, 13–32. (<http://tinyurl.com/ome2tou>.)
- Shipboard Scientific Party (that includes C.P.G. Pereira and E. Schandl). 1988k. Chapter 5. Site 689. In Barker, P.F. and 24 others (including C.P.G. Pereira and E. Schandl), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 113. Weddell Sea, Antarctica: sites 689–697*. College Station, TX, Texas A & M University. Ocean Drilling Program, 89–181. (10.2973/odp.proc.ir.113.106.1988.)
- Shipboard Scientific Party (that includes C.P.G. Pereira and E. Schandl). 1988l. Chapter 6. Site 690. In Barker, P.F. and 24 others (including C.P.G. Pereira and E. Schandl), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 113. Weddell Sea, Antarctica: sites 689–697*. College Station, TX, Texas A & M University. Ocean Drilling Program, 183–292. (10.2973/odp.proc.ir.113.107.1988.)
- Shipboard Scientific Party (that includes C.P.G. Pereira and E. Schandl). 1988m. Chapter 7. Site 691 and 692. In Barker, P.F. and 24 others (including C.P.G. Pereira and E. Schandl), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 113. Weddell Sea, Antarctica: sites 689–697*. College Station, TX, Texas A & M University. Ocean Drilling Program, 293–328. (<http://tinyurl.com/omxr7zf>.)
- Shipboard Scientific Party (that includes C.P.G. Pereira and E. Schandl). 1988n. Chapter 8. Site 693. In Barker, P.F. and 24 others (including C.P.G. Pereira and E. Schandl), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 113. Weddell Sea, Antarctica: sites 689–697*. College Station, TX, Texas A & M University. Ocean Drilling Program, 329–447. (10.2973/odp.proc.ir.113.109.1988.)
- Shipboard Scientific Party (that includes C.P.G. Pereira and E. Schandl). 1988o. Chapter 9. Site 694. In Barker, P.F. and 24 others (including C.P.G. Pereira and E. Schandl), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 113. Weddell Sea, Antarctica: sites 689–697*. College Station, TX, Texas A & M University. Ocean Drilling Program, 449–525. (10.2973/odp.proc.ir.113.110.1988.)
- Shipboard Scientific Party (that includes C.P.G. Pereira and E. Schandl). 1988p. Chapter 10. Site 695. In Barker, P.F. and 24 others (including C.P.G. Pereira and E. Schandl), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 113. Weddell Sea, Antarctica: sites 689–697*. College Station, TX, Texas A & M University. Ocean Drilling Program, 527–606. (10.2973/odp.proc.ir.113.111.1988.)
- Shipboard Scientific Party (that includes C.P.G. Pereira and E. Schandl). 1988q. Chapter 11. Site 696. In Barker, P.F. and 24 others (including C.P.G. Pereira and E. Schandl), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 113. Weddell Sea, Antarctica: sites 689–697*. College Station, TX, Texas A & M University. Ocean Drilling Program, 607–704. (10.2973/odp.proc.ir.113.112.1988.)
- Shipboard Scientific Party (that includes C.P.G. Pereira and E. Schandl). 1988r. Chapter 12. Site 697. In Barker, P.F. and 24 others (including C.P.G. Pereira and E. Schandl), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 113. Weddell Sea, Antarctica: sites 689–697*. College Station, TX, Texas A & M University. Ocean Drilling Program, 705–774. (10.2973/odp.proc.ir.113.113.1988.)
- Shipboard Scientific Party (that includes R.E. Cranston and C.J. Schröder). 1989a. Chapter 1. Introduction. In Barron, J. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program, Part A: initial reports, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, 5–14. (10.2973/odp.proc.ir.119.102.1989.)
- Shipboard Scientific Party (that includes R.E. Cranston and C.J. Schröder). 1989b. Chapter 2. Explanatory notes. In Barron, J. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program, Part A: initial reports, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, 15–44. (<http://tinyurl.com/nfzsc6b>.)

- Shipboard Scientific Party (that includes R.E. Cranston and C.J. Schröder). 1989c. Chapter 3. Underway geophysics. In Barron, J. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program, Part A: initial reports, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, 45–107. (<http://tinyurl.com/p3gxan4>.)
- Shipboard Scientific Party (that includes R.E. Cranston and C.J. Schröder). 1989d. Chapter 5. Site 736. In Barron, J. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program, Part A: initial reports, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, 123–157. (10.2973/odp.proc.ir.119.104.1989.)
- Shipboard Scientific Party (that includes R.E. Cranston and C.J. Schröder). 1989e. Chapter 6. Site 737. In Barron, J. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program, Part A: initial reports, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, 159–227. (10.2973/odp.proc.ir.119.105.1989.)
- Shipboard Scientific Party (that includes R.E. Cranston and C.J. Schröder). 1989f. Chapter 7. Site 738. In Barron, J. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program, Part A: initial reports, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, 229–288. (10.2973/odp.proc.ir.119.106.1989.)
- Shipboard Scientific Party (that includes R.E. Cranston and C.J. Schröder). 1989g. Chapter 8. Site 739. In Barron, J. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program, Part A: initial reports, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, 289–344. (10.2973/odp.proc.ir.119.107.1989.)
- Shipboard Scientific Party (that includes R.E. Cranston and C.J. Schröder). 1989h. Chapter 9. Site 740. In Barron, J. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program, Part A: initial reports, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, 345–375. (10.2973/odp.proc.ir.119.108.1989.)
- Shipboard Scientific Party (that includes R.E. Cranston and C.J. Schröder). 1989i. Chapter 10. Site 741. In Barron, J. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program, Part A: initial reports, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, 377–395. (10.2973/odp.proc.ir.119.109.1989.)
- Shipboard Scientific Party (that includes R.E. Cranston and C.J. Schröder). 1989j. Chapter 11. Site 742. In Barron, J. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program, Part A: initial reports, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, 397–458. (10.2973/odp.proc.ir.119.110.1989.)
- Shipboard Scientific Party (that includes R.E. Cranston and C.J. Schröder). 1989k. Chapter 12. Site 743. In Barron, J. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program, Part A: initial reports, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, 459–476. (10.2973/odp.proc.ir.119.111.1989.)
- Shipboard Scientific Party (that includes R.E. Cranston and C.J. Schröder). 1989l. Chapter 13. Site 744. In Barron, J. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program, Part A: initial reports, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, 477–504. (10.2973/odp.proc.ir.119.112.1989.)
- Shipboard Scientific Party (that includes R.E. Cranston and C.J. Schröder). 1989m. Chapter 14. Site 745. In Barron, J. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program, Part A: initial reports, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, 505–535. (10.2973/odp.proc.ir.119.113.1989.)
- Shipboard Scientific Party (that includes R.E. Cranston and C.J. Schröder). 1989n. Chapter 15. Site 746. In Barron, J. and 29 others (including R.E. Cranston and C.J. Schröder), eds. *Proceedings of the Ocean Drilling Program, Part A: initial reports, Vol. 119. Kerguelen Plateau–Prydz Basin*. College Station, TX, Texas A & M University. Ocean Drilling Program, 537–553. (10.2973/odp.proc.ir.119.114.1989.)

- Shipboard Scientific Party (that includes [F. Heider](#) and [J.H. Sevigny](#)). 1989o. Chapter 1. Introduction. In Schlich, R. and 28 others (including [F. Heider](#) and [J.H. Sevigny](#)), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, November, 7–23. (10.2973/odp.proc.ir.120.102.1989.)
- Shipboard Scientific Party (that includes [F. Heider](#) and [J.H. Sevigny](#)). 1989p. Chapter 2. Explanatory notes. In Schlich, R. and 28 others (including [F. Heider](#) and [J.H. Sevigny](#)), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, November, 25–56. (10.2973/odp.proc.ir.120.103.1989.)
- Shipboard Scientific Party (that includes [F. Heider](#) and [J.H. Sevigny](#)). 1989q. Chapter 6. Site 747. In Schlich, R. and 28 others (including [F. Heider](#) and [J.H. Sevigny](#)), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, November, 89–156. (10.2973/odp.proc.ir.120.109.1989.)
- Shipboard Scientific Party (that includes [F. Heider](#) and [J.H. Sevigny](#)). 1989r. Chapter 7. Site 748. In Schlich, R. and 28 others (including [F. Heider](#) and [J.H. Sevigny](#)), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, November, 157–235. (10.2973/odp.proc.ir.120.110.1989.)
- Shipboard Scientific Party (that includes [F. Heider](#) and [J.H. Sevigny](#)). 1989s. Chapter 8. Site 749. In Schlich, R. and 28 others (including [F. Heider](#) and [J.H. Sevigny](#)), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, November, 237–275. (10.2973/odp.proc.ir.120.111.1989.)
- Shipboard Scientific Party (that includes [F. Heider](#) and [J.H. Sevigny](#)). 1989t. Chapter 9. Site 750. In Schlich, R. and 28 others (including [F. Heider](#) and [J.H. Sevigny](#)), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, November, 277–337. (10.2973/odp.proc.ir.120.112.1989.)
- Shipboard Scientific Party (that includes [F. Heider](#) and [J.H. Sevigny](#)). 1989u. Chapter 10. Site 751. In Schlich, R. and 28 others (including [F. Heider](#) and [J.H. Sevigny](#)), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, November, 339–373. (10.2973/odp.proc.ir.120.113.1989.)
- Shipboard Scientific Party (that includes [N. Eyles](#)). 1999a. Chapter 1. Leg 178 summary. In Barker, P.F., A. Camerlenghi, G.D. Acton, A.T.S. Ramsay and the Shipboard Scientific Party, eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 178. Antarctic glacial history and sea-level change*. College Station, TX, Texas A & M University. Ocean Drilling Program, digital media. (10.2973/odp.proc.ir.178.101.1999.)
- Shipboard Scientific Party (that includes [N. Eyles](#)). 1999b. Chapter 3. Explanatory notes. In Barker, P.F., A. Camerlenghi, G.D. Acton, A.T.S. Ramsay and the Shipboard Scientific Party, eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 178. Antarctic glacial history and sea-level change*. College Station, TX, Texas A & M University. Ocean Drilling Program, digital media. (10.2973/odp.proc.ir.178.104.1999.)
- Shipboard Scientific Party (that includes [N. Eyles](#)). 1999c. Chapter 4. Site 1095. In Barker, P.F., A. Camerlenghi, G.D. Acton, A.T.S. Ramsay and the Shipboard Scientific Party, eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 178. Antarctic glacial history and sea-level change*. College Station, TX, Texas A & M University. Ocean Drilling Program, digital media. (10.2973/odp.proc.ir.178.105.1999.)
- Shipboard Scientific Party (that includes [N. Eyles](#)). 1999d. Chapter 5. Site 1096. In Barker, P.F., A. Camerlenghi, G.D. Acton, A.T.S. Ramsay and the Shipboard Scientific Party, eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 178. Antarctic glacial history and sea-level change*. College Station, TX, Texas A & M University. Ocean Drilling Program, digital media. (10.2973/odp.proc.ir.178.106.1999.)

- Shipboard Scientific Party (that includes N. Eyles). 1999e. Chapter 6. Site 1097. In Barker, P.F., A. Camerlenghi, G.D. Acton, A.T.S. Ramsay and the Shipboard Scientific Party, eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 178. Antarctic glacial history and sea-level change*. College Station, TX, Texas A & M University. Ocean Drilling Program, digital media. (10.2973/odp.proc.ir.178.107.1999.)
- Shipboard Scientific Party (that includes N. Eyles). 1999f. Chapter 7. Palmer Deep (Sites 1098 and 1099). In Barker, P.F., A. Camerlenghi, G.D. Acton, A.T.S. Ramsay and the Shipboard Scientific Party, eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 178. Antarctic glacial history and sea-level change*. College Station, TX, Texas A & M University. Ocean Drilling Program, digital media. (10.2973/odp.proc.ir.178.108.1999.)
- Shipboard Scientific Party (that includes N. Eyles). 1999g. Chapter 8. Site 1101. In Barker, P.F., A. Camerlenghi, G.D. Acton, A.T.S. Ramsay and the Shipboard Scientific Party, eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 178. Antarctic glacial history and sea-level change*. College Station, TX, Texas A & M University. Ocean Drilling Program, digital media. (<http://tinyurl.com/qxo5oke>.)
- Shipboard Scientific Party (that includes N. Eyles). 1999h. Chapter 9. Shelf Transect (Sites 1100, 1102, and 1103). In Barker, P.F., A. Camerlenghi, G.D. Acton, A.T.S. Ramsay and the Shipboard Scientific Party, eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 178. Antarctic glacial history and sea-level change*. College Station, TX, Texas A & M University. Ocean Drilling Program, digital media. (10.2973/odp.proc.ir.178.110.1999.)
- Shipboard Scientific Party (that includes A.T. Hewitt). 1999i. Chapter 1. Leg 177 summary; Southern Ocean paleoceanography. In Gersonde, R. and 27 others (including A.T. Hewitt), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 177. Southern Ocean paleoceanography*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, digital media. (Data Report.) (10.2973/odp.proc.ir.177.101.1999.)
- Shipboard Scientific Party (that includes A.T. Hewitt). 1999j. Chapter 2. Explanatory notes. In Gersonde, R. and 27 others (including A.T. Hewitt), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 177. Southern Ocean paleoceanography*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, digital media. (Data Report.) (10.2973/odp.proc.ir.177.102.1999.)
- Shipboard Scientific Party (that includes A.T. Hewitt). 1999k. Chapter 3. Site 1088. In Gersonde, R. and 27 others (including A.T. Hewitt), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 177. Southern Ocean paleoceanography*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, digital media. (Data Report.) (10.2973/odp.proc.ir.177.103.1999.)
- Shipboard Scientific Party (that includes A.T. Hewitt). 1999l. Chapter 4. Site 1089. In Gersonde, R. and 27 others (including A.T. Hewitt), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 177. Southern Ocean paleoceanography*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, digital media. (Data Report.) (10.2973/odp.proc.ir.177.104.1999.)
- Shipboard Scientific Party (that includes A.T. Hewitt). 1999m. Chapter 5. Site 1090. In Gersonde, R. and 27 others (including A.T. Hewitt), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 177. Southern Ocean paleoceanography*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, digital media. (Data Report.) (10.2973/odp.proc.ir.177.105.1999.)
- Shipboard Scientific Party (that includes A.T. Hewitt). 1999n. Chapter 6. Site 1091. In Gersonde, R. and 27 others (including A.T. Hewitt), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 177. Southern Ocean paleoceanography*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, digital media. (Data Report.) (10.2973/odp.proc.ir.177.106.1999.)
- Shipboard Scientific Party (that includes A.T. Hewitt). 1999o. Chapter 7. Site 1092. In Gersonde, R. and 27 others (including A.T. Hewitt), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 177. Southern Ocean paleoceanography*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, digital media. (Data Report.) (10.2973/odp.proc.ir.177.107.1999.)

- Shipboard Scientific Party (that includes [A.T. Hewitt](#)). 1999p. Chapter 8. Site 1093. In Gersonde, R. and 27 others (including [A.T. Hewitt](#)), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 177. Southern Ocean paleoceanography*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, digital media. (Data Report.) (10.2973/odp.proc.ir.177.108.1999.)
- Shipboard Scientific Party (that includes [A.T. Hewitt](#)). 1999q. Chapter 9. Site 1094. In Gersonde, R. and 27 others (including [A.T. Hewitt](#)), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 177. Southern Ocean paleoceanography*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, digital media. (Data Report.) (10.2973/odp.proc.ir.177.109.1999.)
- Shipboard Scientific Party (that includes [N. Januszczak](#) and [B. Taylor](#)). 2001a. Chapter 1. Leg 188 summary: Prydz Bay–Cooperation Sea, Antarctica. In O'Brien, P.E. and 26 others (including [N. Januszczak](#) and [B. Taylor](#)), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 188. Prydz Bay–Cooperation Sea, Antarctica: glacial history and paleoceanography*. College Station, TX, Texas A & M University. Ocean Drilling Program, 65 pp., CD-ROM. (10.2973/odp.proc.ir.188.101.2001.)
- Shipboard Scientific Party (that includes [N. Januszczak](#) and [B. Taylor](#)). 2001b. Chapter 2. Explanatory notes. In O'Brien, P.E. and 26 others (including [N. Januszczak](#) and [B. Taylor](#)), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 188. Prydz Bay–Cooperation Sea, Antarctica: glacial history and paleoceanography*. College Station, TX, Texas A & M University. Ocean Drilling Program, 66 pp., CD-ROM. (10.2973/odp.proc.ir.188.102.2001.)
- Shipboard Scientific Party (that includes [N. Januszczak](#) and [B. Taylor](#)). 2001c. Chapter 3. Site 1165. In O'Brien, P.E. and 26 others (including [N. Januszczak](#) and [B. Taylor](#)), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 188. Prydz Bay–Cooperation Sea, Antarctica: glacial history and paleoceanography*. College Station, TX, Texas A & M University. Ocean Drilling Program, 191 pp., CD-ROM. (10.2973/odp.proc.ir.188.103.2001.)
- Shipboard Scientific Party (that includes [N. Januszczak](#) and [B. Taylor](#)). 2001d. Chapter 4. Site 1166. In O'Brien, P.E. and 26 others (including [N. Januszczak](#) and [B. Taylor](#)), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 188. Prydz Bay–Cooperation Sea, Antarctica: glacial history and paleoceanography*. College Station, TX, Texas A & M University. Ocean Drilling Program, 110 pp., CD-ROM. (10.2973/odp.proc.ir.188.104.2001.)
- Shipboard Scientific Party (that includes [N. Januszczak](#) and [B. Taylor](#)). 2001e. Chapter 5. Site 1167. In O'Brien, P.E. and 26 others (including [N. Januszczak](#) and [B. Taylor](#)), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 188. Prydz Bay–Cooperation Sea, Antarctica: glacial history and paleoceanography*. College Station, TX, Texas A & M University. Ocean Drilling Program, 97 pp. CD-ROM. (10.2973/odp.proc.ir.188.105.2001.)
- Shipboard Scientific Party (that includes [F. Heider](#) and [J.H. Sevigny](#)) and Shore-Based Contributors. 1989. Chapter 5. Principal results. In Schlich, R. and 28 others (including [F. Heider](#) and [J.H. Sevigny](#)), eds. *Proceedings of the Ocean Drilling Program: initial reports, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, November, 73–85. (10.2973/odp.proc.ir.120.108.1989.)
- Shirokoff, E. and 14 others (including [M.A. Dobbs](#) and [T.M. Lanting](#)). 2009. The South Pole Telescope SZ-receiver detectors. *IEEE Trans. Appl. Supercond.*, **19**(3), Part 1, 517–519. (10.1109/TASC.2009.2018229.)
- Shirokoff, E. and 45 others (the SPT Collaboration that includes [T. de Haan](#), [M.A. Dobbs](#), [J.P. Dudley](#), [G.P. Holder](#) and [K. Vanderlinde](#)). 2011. Improved constraints on cosmic microwave background secondary anisotropies from the complete 2008 South Pole Telescope data. *Astrophys. J.*, **736**(1), 61. (10.1088/0004-637X/736/1/61.)
- [Shoemaker, E.M.](#) 2003. Effects of bed depressions upon floods from subglacial lakes. *Global Planet. Change*, **35**(3–4), 175–184. (10.1016/S0921-8181(02)00125-X.)

- Short, C.M. and C.A. Suttle. 2005. Nearly identical bacteriophage structural gene sequences are widely distributed in both marine and freshwater environments. *Appl. Environ. Microbiol.*, **71**(1), 480–486. (10.1128/aem.71.1.480-486.2005.)
- Short, H. 2011. Positive feedbacks: using simple systems diagrams, the Himalayas, and ice core oxygen isotope data to introduce first-year college students to the complexities of Earth's climate system. *Geophys. Res. Abstr.*, **13**, 2011 EGU Gen. Assem., EGU2011-9320. (<http://tinyurl.com/ps6dhcc>.)
- Short, N.H. and A.L. Gray. 2004. Potential for RADARSAT-2 interferometry: glacier monitoring using speckle tracking. *Can. J. Rem. Sens.*, **30**(3), 504–509. (10.5589/m03-071.)
- Short, S.M. 2003. The molecular analysis of marine algal virus communities. Ph.D. thesis, Department of Botany, University of British Columbia, Vancouver, B.C., 97 pp. (<http://tinyurl.com/lssp3v2>.)
- Short, S.M. and C.A. Suttle. 2002. Sequence analysis of marine virus communities reveals that groups of related algal viruses are widely distributed in nature. *Appl. Environ. Microbiol.*, **68**(3), 1290–1296. (10.1128/AEM.68.3.1290-1296.2002.)
- Shum, C. and 9 others (including J.G. Cogley). 2010. Role of cryosphere in present-day sea-level rise. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, C41A-0509, digital media. (www.agu.org/cgi-bin/wais?ss=C41A-0509.)
- Sica, R.J. and 37 others (including R.J. Sica, M.R.M. Izawa, K.A. Walker, C. Boone, S.V. Petelina, P.S. Argall, P. Bernath, Z.Y. Fan, B.J. Firanski, T.E. Kerzenmacher, E.J. Llewellyn, K.B. Strawbridge and K. Strong). 2008. Validation of the Atmospheric Chemistry Experiment (ACE) version 2.2 temperature using ground-based and space-borne measurements. *Atmos. Chem. Phys. (ACP)*, **8**(1), Special Issue, 35–62. (10.5194/acp-8-35-2008.)
- Siciliano, S.D., W. Ma and S. Powell. 2007. Evaluation of quantitative polymerase chain reaction to assess *nosZ* gene prevalence in mixed microbial communities. *Can. J. Microbiol.*, **53**(5), 636–642. (10.1139/W07-014.)
- Siciliano, S.D., A.N. Schafer, M.A.M. Forgeron and I. Snape. 2008. Hydrocarbon contamination increases the liquid water content of frozen Antarctic soils. *ES&T, Environ. Sci. Technol.*, **42**(22), 8324–8329. (10.1021/es801731z.)
- Siddall, M., G.A. Milne and V. Masson-Delmotte. 2012. Uncertainties in elevation changes and their impact on Antarctic temperature records since the end of the last glacial period. *Earth Planet. Sci. Lett.*, **315–316**, 12–23. (10.1016/j.epsl.2010.11.028.)
- Sidell, B.D., E.L. Crockett and W.R. Driedziec. 1988. Metabolic characteristics of muscle tissues from Antarctic fishes. *Antarct. J. U.S.*, **23**(5), 1988 Review, 138–140. (<http://tinyurl.com/lclqbwf>.)
- Sidell, B.D., E.L. Crockett and W.R. Driedziec. 1995. Antarctic fish tissues preferentially catabolize monoenoic fatty acids. *J. Exp. Zool.*, **271**(2), 73–81. (10.1002/jez.1402710202.)
- Siegert, M.J. and D.A. Fisher. 2002. A terrestrial analogy for Martian "accumulation zones" revealed by airborne ice-penetrating radar from the East Antarctic Ice Sheet. *Icarus*, **157**(1), 264–267. (10.1006/icar.2001.6803.)
- Siegmund, M. and K. Hall. 2000. A study of valley-side slope asymmetry based on the application of GIS analysis: Alexander Island, Antarctica. *Antarct. Sci.*, **12**(4), 471–476. (10.1017/S0954102000000559.)
- Sievers, J.L. and 16 others (including R. Bond, C.R. Contaldi, U.-L. Pen, D. Pogosyan and S. Prunet). 2003. Cosmological parameters from cosmic background imager observations and comparisons with BOOMERANG, DASI, and MAXIMA. *Astrophys. J.*, **591**(2), 599–622. (10.1086/375510.)
- Sigmon, B.A. 2009. Antarctica and human adaptability. [Abstract.] *HOMO: J. Comp. Human Biol.*, **60**(3), 258–259. (10.1016/j.jchb.2009.02.032.)
- Sigmond, M. and J.C. Fyfe. 2010. Has the ozone hole contributed to increased Antarctic sea ice extent? *Geophys. Res. Lett.*, **37**(18), L18502. (10.1029/2010GL044301.)

- Sigmond, M. and J. Fyfe. 2011. Polar climate predictability seasonal to multi-decadal: has the ozone hole contributed to increased Antarctic sea ice extent? *WCRP OSC, Climate Research in Service to Society, 24–28 October 2011, Denver, CO, USA*. Geneva, World Meteorological Organization. World Climate Research Programme (WCRP), Poster M183B, digital media. (<http://tinyurl.com/pxwsy3o>.)
- Sigmond, M., J.C. Fyfe and J.F. Scinocca. 2010a. Does the ocean impact the atmospheric response to stratospheric ozone depletion? *Geophys. Res. Lett.*, **37**(12), L12706. (10.1029/2010GL043773.)
- Sigmond, M., J. Fyfe, J. Scinocca and C. Reader. 2010b. Stratospheric ozone depletion and Southern Hemisphere atmosphere–ocean coupling. *Our Earth, our air, our water, our future. 44th Annual CMOS Congress, 36th Annual Scientific Meeting of CGU, 3rd Joint CMOS-CGU Congress, 31 May–4 June, Ottawa, Ontario. Congress abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society (CMOS), Abstract 3717, 303. (www.cmos.ca/CongressAbstracts/cong4410.pdf.)
- Sigmond, M., J. Fyfe and J. Scinocca. 2010c. The ozone hole, the Southern Ocean, and Antarctic sea ice trends. *WCRP Workshop on Seasonal to Multi-Decadal Predictability of Polar Climate, 25–29 October 2010, Bergen, Norway*. Toronto, Ont., University of Toronto. Department of Physics, digital media. (www.atmosp.physics.utoronto.ca/SPARC/pdfs/27%20Wed/Session%203/6_3_sigmond.pdf.)
- Sigmond, M., C. Reader, J. Fyfe and N. Gillett. 2011a. Drivers of past and future Southern Ocean change: stratospheric ozone versus greenhouse gas impacts. *WCRP OSC, Climate Research in Service to Society, 24–28 October 2011, Denver, CO, USA*. Geneva, World Meteorological Organization. World Climate Research Programme (WCRP), Poster M89B, digital media. (<http://tinyurl.com/obdfhr6>.)
- Sigmond, M., M.C. Reader, J.C. Fyfe and N.P. Gillett. 2011b. Drivers of past and future Southern Ocean change: stratospheric ozone versus greenhouse gas impacts. *Geophys. Res. Lett.*, **38**(12), L12601. (10.1029/2011GL047120.)
- Silfer, J.A., M.H. Engel and S.A. Macko. 1989. The hydrothermal alteration of amino acids in Recent Antarctic sediments. *Geol. Soc. Am. Abstr. Prog.*, **21**(6), 1989 St. Louis Annual Meeting, A48.
- Silfer, J.A., M.H. Engel and S.A. Macko. 1990. The effect of hydrothermal processes on the distribution and stereochemistry of amino acids in Recent Antarctic sediments. *Appl. Geochem.*, **5**(1–2), 159–167. (10.1016/0883-2927(90)90046-8.)
- Sime, L.C., K.E. Kohfeld, C. Le Quere, E.W. Wolff, A. de Boer and L. Bopp. 2010. Strengthening of the Southern Ocean westerlies during glaciations. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382303, digital media. (www.ipy-osc.no/abstract/382303.)
- Simmons, C.T., L.A. Mysak and D. Matthews. 2010. The natural carbon cycle for the Holocene according to the UVic ESCM 2.9: the role of Southern Ocean ventilation. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, PP33B-1683, digital media. (www.agu.org/cgi-bin/wais?ss=PP33B-1683.)
- Simmons, C.T., L.A. Mysak and D. Matthews. 2011. An investigation of carbon cycle dynamics from the Last Glacial Maximum to the present using an earth system model of intermediate complexity. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA*. Washington, DC, American Geophysical Union, PP54A-03, digital media. (<http://sites.agu.org/fallmeeting/scientific-program/>.)
- Simmons, C.T., L.A. Mysak and D. Matthews. 2012a. The carbon cycle since the LGM in the University of Victoria Earth system climate model: implications of marine ice shelves and late-Holocene deforestation. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, PP51A-2091, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Simmons, C.T., L.A. Mysak and H.D. Mathews. 2012b. An investigation of carbon cycle dynamics from the Last Glacial Maximum to the present using an Earth system model of intermediate complexity. *2012 Ocean Sciences Meeting, 20–24 February 2012, Salt Lake City, Utah, USA. Abstract book*. Waco, TX, American Society of Limnology and Oceanography, 425. (Abstract 9537.) (<http://tinyurl.com/qzk2qt7>.)

- Simmons, C., L.A. Mysak and H.D. Matthews. 2012c. The role of Antarctic ice shelves in Holocene CO₂ concentrations: a study using the University of Victoria Earth System Climate Model. *Geophys. Res. Abstr.*, **14**, 2012 EGU Gen. Assem., EGU2012-12530. (<http://tinyurl.com/ohhhyhk>.)
- Simms, A.R., R. DeWitt, E.R. Ivins, P. Kouremenos and L. Miller. 2010. Reconstructing Late Quaternary sea levels in the Antarctic Peninsula. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, GC43E-1007, digital media. (www.agu.org/cgi-bin/wais?ss=GC43E-1007.)
- Simms, A.R., E.R. Ivins, R. DeWitt, P. Kouremenos and L.M. Simkins. 2012. Timing of the most recent Neoglacial advance and retreat in the South Shetland Islands, Antarctic Peninsula: insights from raised beaches and Holocene uplift rates. *Quat. Sci. Rev.*, **47**, 41–55. (10.1016/j.quascirev.2012.05.013.)
- Simon, K.M., T.S. James, M.J. Willis, T.J. Wilson and E.R. Ivins. 2008a. Effects of regional ocean loading on present-day predicted glacio-isostatic adjustment response in Antarctica. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S1.1/P37, 80.
- Simon, K.M., T.S. James, E.R. Ivins, T.J. Wilson and M. Willis. 2008b. Ocean loading effects on predictions of uplift and gravity changes due to glacial isostatic adjustment in Antarctica. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., G31A-0644. (www.agu.org/meetings/fm08/waisfm08.html.)
- Simon, K.M., T.S. James and E.R. Ivins. 2009. Ocean loading effects on predictions of uplift and gravity change due to glacial isostatic adjustment in Antarctica. [Abstract.] *Eos, Trans. AGU*, **90**(22), Jt. Assem. Suppl., G13A-06. (www.agu.org/meetings/ja09/waisja09.html.)
- Simon, K.M., T.S. James and E.R. Ivins. 2010. Ocean loading effects on the prediction of Antarctic glacial isostatic uplift and gravity rates. *J. Geod.*, **84**(5), 305–317. (10.1007/s00190-010-0368-4.)
- Simon, M.M. 1999. The Arctic and the Antarctic; heritage of humanity. In Lewkowicz, A., ed. *Poles apart, a study in contrasts. Proceedings of an International Symposium on Arctic and Antarctic Issues, 25–27 September 1997, Ottawa, Ontario, Canada*. Ottawa, Ont., University of Ottawa Press, 3–8.
- Simpson, I. and T. Shepherd. 2010. The influence of sea surface temperature variability on the Antarctic stratosphere. *Our Earth, our air, our water, our future. 44th Annual CMOS Congress, 36th Annual Scientific Meeting of CGU, 3rd Joint CMOS-CGU Congress, 31 May–4 June, Ottawa, Ontario. Congress abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 3656, 156. (www.cmos.ca/CongressAbstracts/cong4410.pdf.)
- Simpson-Housley, P. and J.S. Scott. 1993. Poles apart? The Terra Nova and Fram Antarctic Expeditions and Judeo-Christian attitudes towards nature. *Trans. Inst. Br. Geogr.*, **18**(3), New Series, 395–400. (www.jstor.org/stable/622467.)
- Sims, K.W.W. and 8 others (including G. Layne). 2008. A Sr, Nd, Hf, and Pb isotope perspective on the genesis and long-term evolution of alkaline magmas from Erebus volcano, Antarctica. *J. Volcanol. Geotherm. Res.*, **177**(3), 606–618. (10.1016/j.jvolgeores.2007.08.006.)
- Siniff, D.B., I. Stirling, J.L. Bengtson and R.A. Reichle. 1977. Biota of the Antarctic pack ice: R/V *Hero* cruise 76-6. *Antarct. J. U.S.*, **12**(4), 10–11. (<http://tinyurl.com/n9j8gkz>.)
- Siniff, D. and 6 others (including I. Stirling). 1978a. Biota of the Antarctic pack ice: R/V *Hero* cruise 77-5. *Antarct. J. U.S.*, **13**(4), 161–162. (<http://tinyurl.com/o54qecs>.)
- Siniff, D.B., I. Stirling and L.L. Eberhardt. 1978b. Problems in the conservation of polar marine mammals. In McWhinnie, M.A., ed. *Polar research: to the present, and the future*. Boulder, Colo., Westview Press, 161–174.
- Siniff, D.B., I. Stirling, J.L. Bengtson and R.A. Reichle. 1979. Social and reproductive behavior of crabeater seals (*Lobodon carcinophagus*) during the austral spring. *Can. J. Zool.*, **57**(11), 2243–2255. (10.1139/z79-292.)

- Siniff, D., S. Stone, D. Reichle and T. Smith. 1980. Aspects of leopard seals (*Hydrurga leptonyx*) in the Antarctic Peninsula pack ice. *Antarct. J. U.S.*, **15**(5), 1980 Review, 160. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXVn5/AJUSvXVn5p160.pdf>.)
- Sioris, C.E. and 7 others (S. Chabrilat, C.A. McLinden, C.S. Haley, Y.J. Rochon, R. Ménard, M. Charron and C.T. McElroy). 2007. OSIRIS observations of a tongue of NO_x in the lower stratosphere at the Antarctic vortex edge: comparison with a high-resolution simulation from the Global Environmental Multiscale (GEM) model. *Can. J. Phys.*, **85**(11), 1195–1207. (10.1139/P07-123.)
- Sivak, J.G. 1978. Corneal curvature and amphibious vision in penguins. *Antarct. J. U.S.*, **13**(4), 150–151. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXIIIIn4/AJUSvXIIIIn4p79.pdf>.)
- Skidmore, M.L., M. Tranter, S.M. Tulaczyk and B.D. Lanoil. 2009. Hydrochemistry of ice stream beds – evaporitic or microbial effects? [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., U53C-08. (www.agu.org/meetings/fm09/waisfm09.html.)
- Skidmore, M., M. Tranter, S. Tulaczyk and B. Lanoil. 2010. Hydrochemistry of ice stream beds - evaporitic or microbial effects? *Hydrol. Processes*, **24**(4), 517–523. (10.1002/hyp.7580.)
- Skinner, D.N.B. and J. Ricker. 1968a. The geology of the region between the Mawson and Priestley Glaciers, north Victoria Land, Antarctica. Part I. Basement meta-sedimentary and igneous rocks. *New Zeal. J. Geol. Geophys.*, **11**(4), 1009–1040. (10.1080/00288306.1968.10420767.)
- Skinner, D.N.B. and J. Ricker. 1968b. The geology of the region between the Mawson and Priestley Glaciers, north Victoria Land, Antarctica. Part II. Upper Paleozoic to Quaternary geology. *New Zeal. J. Geol. Geophys.*, **11**(4), 1041–1075. (10.1080/00288306.1968.10420768.)
- Slater, S. and H. Basch. 1991. Antarctic tourism growing. *Toronto Star*, 14 September, E.3.
- Slemr, F. and 8 others (including W. Schroeder and A. Steffen). 2003. Worldwide trend of atmospheric mercury since 1977. *Geophys. Res. Lett.*, **30**(10), 1516. (10.1029/2003GL016954.)
- Sloan, G. 2004. Last place on Earth to chill out: a handful of hardy souls go to the Antarctic for winter. *Province [Vancouver]*, 20 January, A.21.Fr.
- Slobodian, L. 2001. Local Antarctic rescuers to receive medals. *Calgary Herald*, B.3.
- Smirnov, A. and 44 others (including N.T. O'Neill, P. Larouche, S. Belanger and E. Horne). 2011. Maritime aerosol network as a component of AERONET – first results and comparison with global aerosol models and satellite retrievals. *Atmos. Meas. Tech. (AMT)*, **4**(3), 583–597. (10.5194/amt-4-583-2011.)
- Smith, C. 2006. Ozone problem shows the folly of messing with nature; Hole in the ozone layer has preserved Antarctic ice. *Toronto Star*, 4 November, F.5.
- Smith, C.M., H. Harada, H.L. MacIntyre, D.J. Kieber and R.P. Kiene. 2012. The relationship between phytoplankton pigment concentrations and DMSP, DMS, and DMSO in a diatom-dominated bloom in the Ross Sea, Antarctic. *2012 Ocean Sciences Meeting, 20–24 February 2012, Salt Lake City, Utah, USA. Abstract book*. Waco, TX, American Society of Limnology and Oceanography, 431. (Abstract 12477.) (www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=12477.)
- Smith, D.G.W., Y. Miura and S. Launspach. 1993. Fe, Ni and Co variations in the metals of some Antarctic chondrites. *Earth Planet. Sci. Lett.*, **120**(3–4), 487–498. (10.1016/0012-821X(93)90259-C.)
- Smith, F. 2001. Calgary pilots are 'risking their lives' to save doctor: Antarctic rescue. *Natl. Post [Don Mills]*, A.3.
- Smith, J.E., H.P. Schwarcz, M.J. Risk, T.A. McConnaughey and N. Keller. 2000. Paleotemperatures from deep-sea corals: overcoming "vital effects". *Palaios*, **15**(1), 25–32. (<http://tinyurl.com/nvmsvuc>.)
- Smith, K.L. and P.J. Kushner. 2012. Linear interference and the initiation of extratropical stratosphere-troposphere interactions. *J. Geophys. Res.*, **D13**(D13), D13107. (10.1029/2012JD017587.)

- Smith, L. 2007. Drifting icebergs a magnet for wildlife: Antarctic waters act as carbon sink, say scientists. *Calgary Herald*, A.19.
- Smith, N., W. Hammer and P. Currie. 2005. Osteology and phylogenetic relationships of *Cryolophosaurus ellioti* (Dinosauria: Theropoda); implications for basal theropod evolution. [Abstract.] *J. Vertebr. Paleontol.*, **25**(3), Supplement, 116–117.
- Smith, N.D., P.J. Makovicky, D. Pol, W. Hammer and P.J. Currie. 2007a. The dinosaurs of the Early Jurassic Hanson Formation of the central Transantarctic Mountains: phylogenetic review and synthesis. In Cooper, A.K., P. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007*. Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (*U.S. Geol. Surv. Open-File Rep.* 2007-1047.) (Short Research Paper 003.) (<http://tinyurl.com/phur3kn>.)
- Smith, N.D., P.J. Makovicky, W.R. Hammer and P.J. Currie. 2007b. Osteology of *Cryolophosaurus ellioti* (Dinosauria: Theropoda) from the Early Jurassic of Antarctica and implications for early theropod evolution. *Zool. J. Linnean Soc.*, **151**(2), 377–421. (10.1111/j.1096-3642.2007.00325.x.)
- Smith, P.J., D. Steinke, S.M. Mcveagh, A.L. Stewart, C.D. Struthers and C.D. Roberts. 2008. Molecular analysis of Southern Ocean skates (*Bathyraja*) reveals a new species of Antarctic skate. *J. Fish Biol.*, **73**(5), 1170–1182. (10.1111/j.1095-8649.2008.01957.x.)
- Smith, P.J. and 7 others (including D. Steinke). 2011a. DNA barcoding highlights a cryptic species of grenadier *Macrourus* in the Southern Ocean. *J. Fish Biol.*, **78**(1), 355–365. (*Corrigendum*: **78**(3), March 2011, p.983–984.) (10.1111/j.1095-8649.2010.02846.x; 10.1111/j.1095-8649.2011.02948.x.)
- Smith, P.J., D. Steinke, P. McMillan, A. Stewart and R.D. Ward. 2011b. DNA barcoding of morid cods reveals deep divergence in the antitropical *Halargyreus johnsoni* but little distinction between *Antimora rostrata* and *Antimora microlepis*. *MtDNA*, **22**(S1), 21–26. (10.3109/19401736.2010.532329.)
- Smith, P.J. and 6 others (including D. Steinke). 2012. DNA barcodes and species identifications in Ross Sea and Southern Ocean fishes. *Polar Biol.*, **35**(9), 1297–1310. (10.1007/s00300-012-1173-8.)
- Smith, R.C. and J.J. Cullen. 1995. Effects of UV radiation on phytoplankton. *Rev. Geophys.*, **33**(S2), Supplement, 1211–1223. (10.1029/95RG00801.)
- Smith, W.O., Jr and W.G. Harrison. 1991. New production in polar regions: the role of environmental controls. *Deep-Sea Res. A*, **38**(12), 1463–1479. (10.1016/0198-0149(91)90085-T.)
- Smith, W.O., Jr and D.G. Barber. 2007a. Chapter 13. Polynyas and climate change: a view to the future. In Smith, W., Jr and D. Barber, eds. *Polynyas: windows to the world*. Amsterdam, Elsevier, 411–419. (Oceanography Series 74.) (10.1016/S0422-9894(06)74013-2.)
- Smith, W., Jr and D. Barber, eds. 2007b. *Polynyas: windows to the world*. Amsterdam, Elsevier. (Oceanography Series 74.) (www.sciencedirect.com/science/bookseries/04229894.)
- Snape, I., S. Siciliano, A. Schafer, J.L. Rayner and M.J. Riddle. 2006. Development of fuel spill remediation guidelines for Antarctica. *Second SCAR Open Science Conference, Antarctica in the Earth System, 12–14 July 2006, Hobart, Tasmania*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 143, digital media. (www.scarcomnap2006.org/abstract/pdf/SCARXXIX_0143.PDF.)
- Snape, I. and 15 others (including N. Plato, J.S. Poland, A. Rutter, A.N. Schafer and S.D. Siciliano). 2008. Chapter 1. Contamination, regulation, and remediation: an introduction to bioremediation of petroleum hydrocarbons in cold regions. In Filler, D., I. Snape and D. Barnes, eds. *Bioremediation of petroleum hydrocarbons in cold regions*. Cambridge, U.K., Cambridge University Press, 1–37.
- Snyder, G.T., C.B. Dowling, A. Harbert, H. Lu, W.B. Lyons and K.A. Welch. 2006. Halogens in the Dry Valleys lakes, Antarctica: dynamic cycling between water, sediment, and cryogenic evaporites. [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., U33A-0025. (www.agu.org/meetings/fm06/waisfm06.html.)

- Snyder, G.T., A. Hubbard, Y. Muramatsu and H. Lu. 2008. Radiogenic halogen isotopes in cold places: deep seeps or recent salt dissolution? [Paper 330-12.] *Geol. Soc. Am. Abstr. Prog.*, **40**(6), 2008 Houston Joint Annual Meeting, 528. (http://gsa.confex.com/gsa/2008AM/finalprogram/abstract_150231.htm.)
- Soare, R., W. Pollard and D. Green. 2001. Deductive model proposed for evaluating terrestrial analogues. *Eos, Trans. AGU*, **82**(43), 501. (www.agu.org/meetings/fm01/waisfm01.html.)
- Soerensen, A.L. and 9 others (including A. Steffen). 2008. Shipborne measurements of mercury in the marine boundary layer. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., A53D-0312. (www.agu.org/meetings/fm08/waisfm08.html.)
- Somes, C.J. and 9 others (including E.D. Galbraith and M. Eby). 2010. Simulating the global distribution of nitrogen isotopes in the ocean. *Global Biogeochem. Cycles*, **24**(4), GB4019. (10.1029/2009GB003767.)
- Sømme, L., R.A. Ring, W. Block and M.R. Worland. 1989a. Feeding in the two phytophagous beetles *Hydromedion sparsutum* and *Perimylops antarcticus* from South Georgia. *Polar Biol.*, **10**(2), 141–143. (10.1007/BF00239159.)
- Sømme, L., R.A. Ring, W. Block and M.R. Worland. 1989b. Respiratory metabolism of *Hydromedion sparsutum* and *Perimylops antarcticus* (Col., Perimylopidae) from South Georgia. *Polar Biol.*, **10**(2), 135–139. (10.1007/BF00239158.)
- Son, S.-W. 2011. Ozone hole and Southern Hemisphere climate change. *WCRP OSC, Climate Research in Service to Society, 24–28 October 2011, Denver, CO, USA*. Geneva, World Meteorological Organization. World Climate Research Programme (WCRP), digital media. (http://conference2011.wcrp-climate.org/orals/B9/Son_B9.pdf.)
- Son, S.-W. and 9 others (including T.G. Shepherd). 2008. The impact of stratospheric ozone recovery on the Southern Hemisphere westerly jet. *Science*, **320**(5882), 1486–1489. (10.1126/science.1155939.)
- Son, S.-W., N.F. Tandon, L.M. Polvani and D.W. Waugh. 2009a. Ozone hole and Southern Hemisphere climate change. *Geophys. Res. Lett.*, **36**(15), L15705. (10.1029/2009GL038671.)
- Son, S., N. Tandon, L. Polvani and D. Waugh. 2009b. The ozone hole and Southern Hemisphere climate change. [Abstract.] *Eos, Trans. AGU*, **90**(22), Jt. Assem. Suppl., A14A-04. (www.agu.org/meetings/ja09/waisja09.html.)
- Son, S.-W. and 40 others (including N.P. Gillett, T.G. Shepherd, D.A. Plummer and J.F. Scinocca). 2010a. Impact of stratospheric ozone on Southern Hemisphere circulation change: a multimodel assessment. *J. Geophys. Res.*, **115**(D3), Special Section, D00M07. (10.1029/2010JD014271.)
- Son, S.-W., E. Gerber, J. Perlwitz, L. Polvani, N. Gillett and the SPARC CCMVal2 PI's. 2010b. The impact of stratospheric ozone on tropospheric circulation changes in the Southern Hemisphere: multimodel assessment. *Our Earth, our air, our water, our future. 44th Annual CMOS Congress, 36th Annual Scientific Meeting of CGU, 3rd Joint CMOS-CGU Congress, 31 May–4 June, Ottawa, Ontario. Congress abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society (CMOS), Abstract 3573, 24–25. (www.cmos.ca/CongressAbstracts/cong4410.pdf.)
- Son, S. and the CCMVal2 team. 2010c. The ozone hole and Southern Hemisphere climate change: a multimodel assessment. [Abstract.] *Eos, Trans. AGU*, **91**(26), Meet. Americas Suppl., A42A-01. (www.agu.org/meetings/ja10/program/abstract-database.php?sel=1.)
- Son, S.W., A. Purich, H. Hendon and B. Kim. 2012. Weather from the ozone hole. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, A110-06, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Song, J. and 76 others (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, L. Shaw, A. van Engelen and K. Vanderlinde). 2012. Redshifts, sample purity, and BCG positions for the galaxy cluster catalog from the first 720 square degrees of the South Pole Telescope survey. *Astrophys. J.*, **761**(1), Article 22. (10.1088/0004-637X/761/1/22.)

- Soreng, R.J. and L.J. Gillespie. 2007. *Nicoraepoa* (Poaceae, Poaeae), a new South American genus based on *Poa* subg. *Andinae*, and emendation of *Poa* sect. *Parodiochloa* of the sub-Antarctic islands. *Ann. Missouri Bot. Gard.*, **94**(4), 821–849. (10.3417/0026-6493(2007)94[821:NPPANS]2.0.CO;2.)
- Sorlia, E. 2007. An adventure like no other: the quietness of the Antarctic is overwhelming. *Province [Vancouver]*, 14 January, D.4.
- Souad, A., G. Ferreyra and É. Pelletier. 2008. Cinétique de production d'exopolymères (TEP) par les assemblages microbiens et impact des facteurs environnementaux. *Québec–Océan, 7e Assemblée Générale Annuelle, 27–28 novembre 2008, Rivière du Loup. Programme*. Québec, Qué., Université Laval, poster presentation. (www.quebec-ocean.ulaval.ca/aga2008/Programme%20AGA%202008.pdf.)
- Southwell, C., B. de La Mare, D. Borchers and L. Burt. 2004. Shipboard line transect surveys of crabeater seal abundance in the pack-ice off East Antarctica: evaluation of assumptions. *Mar. Mammal Sci.*, **20**(3), 602–620. (10.1111/j.1748-7692.2004.tb01182.x.)
- Southwell, C., D. Borchers, C.G.M. Paxton, L. Burt and W. de la Mare. 2007. Estimation of detection probability in aerial surveys of Antarctic pack-ice seals. *J. Agric. Biol. Environ. Stats*, **12**(1), 41–54. (10.1198/108571107X162920.)
- Southwell, C., C.G.M. Paxton, D. Borchers, P. Boveng and W. de la Mare. 2008. Taking account of dependent species in management of the Southern Ocean krill fishery: estimating crabeater seal abundance off east Antarctica. *J. Appl. Ecol.*, **45**(2), 622–631. (10.1111/j.1365-2664.2007.01399.x.)
- Sparrow, A.D., E.G. Gregorich, D.W. Hopkins, P. Novis, B. Elberling and L.G. Greenfield. 2011. Resource limitations on soil microbial activity in an Antarctic Dry Valley. *Soil Sci. Soc. Am. J.*, **75**(6), 2188–2197. (10.2136/sssaj2010.0303.)
- Spears, T. 2003. Massive Antarctic melting ended Ice Age, scientists say. *Ottawa Citizen*, 14 March, A.3.
- Spears, T. 2006a. Antarctic river found under ice: flow nearly as powerful as the Thames. *Calgary Herald*, A.13.
- Spears, T. 2006b. Mighty river flows beneath Antarctic ice. *Ottawa Citizen*, 20 April, A.14.
- Spears, T. 2009. Different places, similar species: identical creatures in Antarctic, Arctic areas but nowhere else. *Nanaimo Daily News*, 16 February, A.12.
- Spears, T. 2011. Carleton climate course puts students on Antarctic ice. *Ottawa Citizen*, 2 February, B.4.
- Specht, R.L., M.E. Dettmann and D.M. Jarzen. 1992. Community associations and structure in the Late Cretaceous vegetation of southeast Australasia and Antarctica. *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, **94**(1–4), 283–309. (10.1016/0031-0182(92)90124-N.)
- Speece, M. and 9 others (including D.R. Schmitt and the ANDRILL-SMS Science Team). 2008. Over-sea-ice seismic reflection surveys in Antarctica using a GI air gun. *33rd International Geological Congress, 6–14 August 2008, Oslo, Norway. Abstracts*. Oslo, Norway, International Geological Congress, Abstract EIE01607L, digital media. (www.cprm.gov.br/33IGC/1342076.html.)
- Spence, P., J. Fyfe and O. Saenko. 2007. The Southern Ocean response to poleward intensifying winds: a model resolution sensitivity study. [Abstract.] *Eos, Trans. AGU*, **88**(52), Fall Meet. Suppl., GC12A-07. (www.agu.org/meetings/fm07/waisfm07.html.)
- Spence, J.P., O. Saenko, M. Eby and A. Weaver. 2008. The Southern Ocean overturning: parameterized versus permitted eddies. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., OS13C-1207. (www.agu.org/meetings/fm08/waisfm08.html.)
- Spence, P., O.A. Saenko, M. Eby and A.J. Weaver. 2009. The Southern Ocean overturning: parameterized versus permitted eddies. *J. Phys. Oceanogr.*, **39**(7), 1634–1651. (10.1175/2009JPO4120.1.)
- Spence, P., J.C. Fyfe, A. Montenegro and A.J. Weaver. 2010. Southern Ocean response to strengthening winds in an eddy-permitting global climate model. *J. Climate*, **23**(19), 5332–5343. (<http://tinyurl.com/ox37abq>.)

- Spence, P., O.A. Saenko, C.O. Dufour, J. Le Sommer and M.H. England. 2012. Mechanisms maintaining Southern Ocean meridional heat transport under projected wind forcing. *J. Phys. Oceanogr.*, **42**(11), 1923–1931. (10.1175/JPO-D-12-03.1.)
- Spencer, M.K., R.B. Alley and T.T. Creyts. 2001. Preliminary firn-densification model with 38-site dataset. *J. Glaciol.*, **47**(159), 671–676. (10.3189/172756501781831765.)
- Spitz, A.L. and M.D. Watson. 1972. Auroral photometric observations at geomagnetically conjugate points. *Planet. Space Sci.*, **20**(8), 1337–1343. (10.1016/0032-0633(72)90020-7.)
- Spletstoesser, J., P. Toomey and J.P. Harris. 2003. Antarctic Circle crossed by large cruise vessel. *Polar Geogr.*, **27**(3), 272–275. (10.1080/789610183.)
- Squires, H. 1992. *S.S. Eagle: the secret mission, 1944–45*. St John's, Nfld, Jespersion Press Ltd.
- Squires, N. 2006. Massive cruise ship to sail Antarctic seas: Prompts safety worries. *Natl. Post [Don Mills]*, A.2.
- Srikanthan, T. 2007. Nearing the southern grail: explorers using kites to pull sleds could reach remote Antarctic site this week. *Toronto Star*, 16 January, A.4.
- Srivastava, S.K., B.T. Banik, M. Adamovic, R.K. Hawkins, T.I. Lukowski, K.P. Murnaghan and W.C. Jefferies. 1998. RADARSAT image quality and calibration performance: update. In Stein, T.I., ed. *IGARSS '98, Sensing and managing the environment, 18th International Geoscience and Remote Sensing Symposium, 6–10 July 1998, Seattle, Washington. Proceedings, Vol. 5*. New York, NY, Institute of Electrical and Electronics Engineers, 2454–2458. (10.1109/IGARSS.1998.702244)
- Srivastava, S.K., R.K. Hawkins, T.I. Lukowski, B.T. Banik, M. Adamovic and W.C. Jefferies. 1999. RADARSAT image quality and calibration – update. *Adv. Space Res.*, **23**(8), 1487–1496. (10.1016/S0273-1177(99)00302-6.)
- Srivastava, S.K., B.T. Banik, P. Le Dantec, R.K. Hawkins, T.I. Lukowski and K.P. Murnaghan. 2001. RADARSAT-1 image quality/five years of achievement. *IGARSS 2001, Scanning the present and resolving the future, 21st International Geoscience and Remote Sensing Symposium, 9–13 July 2001, Sydney, Australia. Proceedings, Vol. 1*. Piscataway, NJ, Institute of Electrical and Electronics Engineers, 465–467. (10.1109/IGARSS.2001.976191.)
- St. Clair, C.C. and M.S. Boyce. 2009. Icy insights from emperor penguins. *Proc. Natl. Acad. Sci. USA (PNAS)*, **106**(6), 1691–1692. (Correction: **106**(13), 31 March 2009, 5449.) (10.1073/pnas.0812940106; 10.1073/pnas.0901386106.)
- Stacey, J.E. 2004. Warm memories of a cold land: when artist Linda Coles heard the stories of St. Lunaire native Jack Bursey and his Antarctic expeditions, she knew she had to paint a tribute on canvas. *Telegram [St John's]*, 10 March, B.1.
- Stager, J., ed. 1994. *Canada and polar science. Proceedings of a conference sponsored by the Canadian Polar Commission, Yellowknife, N.W.T., May 17–19, 1994*. Ottawa, Ont., Canadian Polar Commission.
- Standard [St Catharines]. 2000. Man from St. Catharines dies at Antarctic station. *Standard [St Catharines]*, 8 January, A.2.
- Standard [St Catharines]. 2001. Blowing snow stalls Antarctic rescue bid. *Standard [St Catharines]*, 20 April, A.10.
- Staniforth, A. 1969. A remote data-recording station. *Can. J. Phys.*, **47**(21), 2303–2307. (10.1139/p69-280.)
- Staniszewski, Z. and 43 others (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, G.P. Holder, T.M. Lanting and L. Shaw). 2009. Galaxy clusters discovered with a Sunyaev-Zel'dovich effect survey. *Astrophys. J.*, **701**(1), 32–41. (10.1088/0004-637X/701/1/32.)
- Staniszewski, Z. and 39 others (including M. Amiri, S.J. Benton, B. Burger, M. Halpern, M. Hasselfield and D. Wiebe). 2012. The Keck Array: a multi camera CMB polarimeter at the South Pole. *J. Low Temp. Phys.*, **167**(5–6), 827–833. (10.1007/s10909-012-0510-1.)

- Stanley, G.J. and O. Saenko. 2012. On the energetics of oceanic mesoscale eddies and their parameterization modified to induce diapycnal mixing. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, OS33D-1870, digital media. ([http://fallmeeting.agu.org/2012/.](http://fallmeeting.agu.org/2012/))
- Starnes, R. 2002. Canadian satellite used to fill in huge gap in Antarctic mapping: Images from Radarsat-1: Photographs help uncover 3 million square kilometres. *Natl. Post [Don Mills]*, A.7.
- StarPhoenix. 1988. Canada signs Antarctic Treaty. *StarPhoenix [Saskatoon]*, 5 May, B9.
- StarPhoenix. 2003a. Calgary-based planes bound for Antarctic rescue mission. *StarPhoenix [Saskatoon]*, 12 September, B.8.
- StarPhoenix. 2003b. Planes, crews poised for Antarctic rescue. *StarPhoenix [Saskatoon]*, 13 September, A.12.
- Steel, G.D. 2000. Polar bonds: environmental relationships in the polar regions. *Environ. Behav.*, **32**(6), 796–816. (10.1177/00139160021972801)
- Steel, G.D., P. Suedfeld and L. Palinkas. 1993. People and place: the Antarctic environmental relationship. *Antarct. J. U.S.*, **28**(5), 1993 Review, 341. ([http://tinyurl.com/lahqoy7.](http://tinyurl.com/lahqoy7))
- Steel, G.D., P. Suedfeld, A. Peri and L.A. Palinkas. 1997. People in high latitudes: the "Big five" personality characteristics of the circumpolar sojourner. *Environ. Behav.*, **29**(3), 324–347. (10.1177/001391659702900302.)
- Stefaniuk, W. 1991. Ozone's hole in Antarctic. *Toronto Star*, 24 March, A.7.
- Steffen, A. and 20 others (including M. Amyot, P. Ariya, J. Bottenheim, F. Cobbett, A. Dastoor, D. Lean, A. Poulain and C. Scherz). 2008. A synthesis of atmospheric mercury depletion event chemistry in the atmosphere and snow. *Atmos. Chem. Phys. (ACP)*, **8**(6), Special Issue, 1445–1482. (10.5194/acp-8-1445-2008.)
- Steffen, H. 2009. Can we use GRACE to understand GIA? In Poutanen, M. and H. Suurmäki, eds. *Understanding glacial isostatic adjustment: a Joint DynaQlim/GGOS Workshop, June 23–26, 2009, Espoo, Finland. Programme and abstracts*. Espoo, Geological Survey of Finland, digital media. ([http://dynaqlim.fgi.fi/texts/GGOS_DynaQlim2009/abstract_030.pdf.](http://dynaqlim.fgi.fi/texts/GGOS_DynaQlim2009/abstract_030.pdf))
- Steffen, K. and 7 others (including J.G. Cogley). 2010. Chapter 7. Cryospheric contributions to sea-level rise and variability. In Church, J.A., P.L. Woodworth, T. Aarup and W.S. Wilson, eds. *Understanding sea-level rise and variability*. Chichester, etc., John Wiley & Sons Ltd, Wiley-Blackwell, 177–225. (10.1002/9781444323276.ch7.)
- Steig, E. and 7 others (including D. Fisher). 2005. *IPICS 2k array; a network of ice core climate records for the last two millennia*. Bern, PAGES (Past Global Changes). International Partnerships in Ice Core Sciences. (IPICS White Paper.) ([www.pages-igbp.org/ipics/data/IPICS_2kArray.pdf.](http://www.pages-igbp.org/ipics/data/IPICS_2kArray.pdf))
- Steven, B., T.D. Niederberger and L.G. Whyte. 2009. Bacterial and archaeal diversity in permafrost. In Margesin, R., ed. *Permafrost soils*. Berlin, etc., Springer, 59–72. (Soil Biology 16.) (10.1007/978-3-540-69371-0_5.)
- Stevens, C. and 6 others (including A. Hamilton). 2011. Flow, stratification and mixing next to the Erebus Glacier Tongue: an overview of preliminary results. *Earth on the Edge: Science for a Sustainable Planet, XXV IUGG General Assembly, 28 June – 7 July 2011, Melbourne, Australia*. Melbourne, Vic., International Union of Geodesy and Geophysics. Monash University School of Geosciences, Abstract 2208, digital media. ([www.iugg2011.com/abstracts/pdf/abstracts/81106015_STEVENS02237.pdf.](http://www.iugg2011.com/abstracts/pdf/abstracts/81106015_STEVENS02237.pdf))
- Stevens, M.H. and 9 others (including P.E. Sheese, E.J. Llewellyn and R.L. Gattinger). 2012. Validation of upper mesospheric and lower thermospheric temperatures measured by the Solar Occultation for Ice Experiment. *J. Geophys. Res.*, **117**(D16), D16304. (10.1029/2012JD017689.)
- Stevens, W.K. 1996. Antarctic ice sheet is melting, but no one knows what that means. *Gazette [Montréal]*, 4 February, B.4.

- Stewart, A. and R. Brandenberger. 2009. Edge detection, cosmic strings and the South Pole telescope *J. Cosmol. Astropart. Phys.*, **2009**(2), 009. (10.1088/1475-7516/2009/02/009.)
- Stewart, E.J. 2001. Simple lessons from Antarctica: interpretation. *Interp. J.*, **6**(3), 5–7.
- Stewart, E.J. 2007. Book reviews. Extreme tourism: lessons from the world's cold water islands (Godfrey Baldacchino, editor). *Tourism Mar. Environ.*, **4**(2–3), Polar Tourism, 239–240.
- Stewart, E.J. and D. Draper. 2008. The sinking of the MS *Explorer*: implications for cruise tourism in Arctic Canada. *Arctic*, **61**(2), 224–228. (<http://arctic.synergiesprairies.ca/arctic/index.php/arctic/article/view/68/89>.)
- Stewart, E.J. and V.G. Kirby. 2002. Perceptions of Antarctic tourism. *Tourism research 2002. An International Interdisciplinary Conference in Wales, 4–7 September 2002, Cardiff, Wales. Proceedings*. Cardiff, Wales, University of Wales. Welsh School of Hospitality, Tourism and Leisure Management, extended abstract.
- Stewart, E.J., D. Draper and M.E. Johnston. 2005. A review of tourism research in the polar regions. *Arctic*, **58**(4), 383–394. (<http://arctic.synergiesprairies.ca/arctic/index.php/arctic/article/view/452/484>.)
- Stewart, E.J., V.G. Kirby and G.D. Steel. 2006. Perceptions of Antarctic tourism: a question of tolerance. *Landscape Res.*, **31**(3), 193–214. (10.1080/01426390600783111.)
- Stewart, K.J., I. Snape and S.D. Siciliano. 2012. Physical, chemical and microbial soil properties of frost boils at Browning Peninsula, Antarctica. *Polar Biol.*, **35**(3), 463–468. (10.1007/s00300-011-1076-0.)
- Stewart Johnson, S. and 13 others (including D. Froese). 2007. Ancient bacteria show evidence of DNA repair. *Proc. Natl. Acad. Sci. USA (PNAS)*, **104**(36), 14,401–14,405. (10.1073/pnas.0706787104.)
- Stibal, M. and 6 others (including A. Dubnick and M.J. Sharp). 2009. Diversity, abundance and activity of methanogenic archaea beneath the Antarctic and Greenland ice sheets. [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., B23C-0379. (www.agu.org/meetings/fm09/waisfm09.html.)
- Stibal, M. and 11 others (including A. Dubnick and M.J. Sharp). 2012a. Methanogenic potential of Arctic and Antarctic subglacial environments with contrasting organic carbon sources. *Global Change Biol.*, **18**(11), 3332–3345. (10.1111/j.1365-2486.2012.02763.x.)
- Stibal, M., F. Hasan, J.L. Wadham, M.J. Sharp and A.M. Anesio. 2012b. Prokaryotic diversity in sediments beneath two polar glaciers with contrasting organic carbon substrates. *Extremophiles*, **16**(2), 255–265. (10.1007/s00792-011-0426-8.)
- Stickley, C.E. and 9 others (including G.L. Williams). 2004a. Timing and nature of the deepening of the Tasmanian Gateway. *Paleoceanography*, **19**(4), PA4027. (10.1029/2004PA001022.)
- Stickley, C.E. and 9 others (including G.L. Williams). 2004b. Timing and nature of the deepening of the Tasmanian gateway. [Abstract.] *Eos, Trans. AGU*, **85**(47), Fall Meet. Suppl., PP54B-02. (www.agu.org/meetings/fm04/waisfm04.html.) (http://www.agu.org/meetings/fm04/fm04-sessions/fm04_PP54B.html)
- Stirling, I. 1971a. *Leptonychotes weddelli*. *Mamm. Spec.*, **6**, 1–5.
- Stirling, I. 1971b. Population aspects of Weddell seal harvesting at McMurdo Sound, Antarctica. *Polar Rec.*, **15**(98), 653–667. (10.1017/S0032247400061763.)
- Stirling, I. 1971c. Variation in sex ratio of newborn Weddell seals during the pupping season. *J. Mamm.*, **52**(4), 842–844. (www.jstor.org/stable/1378943.)
- Stirling, I. 1972. Regulation of numbers of an apparently isolated population of Weddell seals (*Leptonychotes weddellii*). *J. Mamm.*, **53**(1), 107–115. (www.jstor.org/stable/1378831.)
- Stirling, I. 1974. Movements of Weddell seals in McMurdo Sound, Antarctica. *Austral. J. Zool.*, **22**(1), 39–43. (10.1071/ZO9740039.)

- Stirling, I. 1977. Adaptations of Weddell and ringed seals to exploit the polar fast ice habitat in the absence or presence of surface predators. In Llano, G.A., ed. *Adaptations within Antarctic ecosystems*. Washington, DC, Smithsonian Institution, 741–748. (Proceedings of the 3rd SCAR Symposium on Antarctic Biology, 26–30 August 1974, Washington, DC.)
- Stirling, I. 2004. Forty years of polar research / Quarante années de recherches polaires. *Meridian/Méridien*, **2004**, 11–14. (<http://tinyurl.com/q8pzz5d>.)
- Stirling, I. and D.J. Greenwood. 1972. Observations on a stabilizing population of Weddell seals. *Austral. J. Zool.*, **20**(1), 23–25. (10.1071/ZO9720023.)
- Stirling, I. and G.L. Kooyman. 1971. The crabeater seal (*Lobodon carcinophagus*) in McMurdo Sound, Antarctica, and the origin of mummified seals. *J. Mamm.*, **52**(1), 175–180. (www.jstor.org/stable/1378440.)
- Stirling, I. and D.B. Siniff. 1979. Underwater vocalizations of leopard seals (*Hydrurga leptonyx*) and crabeater seals (*Lobodon carcinophagus*) near the South Shetland Islands, Antarctica. *Can. J. Zool.*, **57**(6), 1244–1248. (10.1139/z79-160.)
- Stirling, I. and J.A. Thomas. 2003. Relationships between underwater vocalizations and mating system in phocid seals. *Aquat. Mamm.*, **29**(2), 227–246.
- Stirling, I., R.L. Gentry and T.S. McCann. 1993. Behaviour. In Laws, R.M., ed. *Antarctic seals, research methods and techniques*. Cambridge, U.K., Cambridge, University Press, 140–154.
- Stocker, T.F. and D.G. Wright. 1996. Rapid changes in ocean circulation and atmospheric radiocarbon. *Paleoceanography*, **11**(6), 773–795. (10.1029/96PA02640.)
- Stocker, T.F., D.G. Wright and W.S. Broecker. 1992. The influence of high-latitude surface forcing on the global thermohaline circulation. *Paleoceanography*, **7**(5), 529–541. (Correction: *Paleoceanography*, **7**(6), 1992, 863–864.) (10.1029/92PA01695; 10.1029/93PA00337.)
- Stocker, T.F., W.S. Broecker and D.G. Wright. 1994. Carbon uptake experiments with a zonally-averaged global ocean circulation model. *Tellus B*, **46**(2), 103–122. (10.1034/j.1600-0889.1994.t01-1-00003.x.)
- Stockey, R.A. 1989. Antarctic and Gondwana conifers. In Taylor, T.N. and E.L. Taylor, eds. *Antarctic paleobiology: it role in the reconstruction of Gondwana*. New York, NY, Springer-Verlag, A21.
- Stolle, D.F.E. and F.A. Mirza. 1986. Finite-element simulation of the thermal regime of the Erebus Glacier tongue, Antarctica. *J. Glaciol.*, **32**(112), 530–534.
- Stone, D.A. and J.C. Fyfe. 2005. The effect of ocean mixing parametrisation on the enhanced CO₂ response of the Southern Hemisphere midlatitude jet. *Geophys. Res. Lett.*, **32**(6), L06811. (10.1029/2004GL022007.)
- Stone, I.R. 1994. Book reviews. Silas: The Antarctic Diaries and Memoir of Charles S. Wright. Edited by Colin Bull and Pat F. Wright. Columbus: Ohio State University Press, 1993. 418 p., illus. Hardbound. US\$59.50. *Arctic*, **47**(3), 312–313.
- Stonehouse, B. 1970a. Geographic variation in Gentoo penguins *Pygoscelis papua*. *Ibis*, **112**(1), 52–57. (10.1111/j.1474-919X.1970.tb00075.x.)
- Stonehouse, B. 1970b. Recent climatic change in Antarctica suggested from ¹⁴C dating of penguin remains. *Palaeogeogr., Palaeoclimatol., Palaeoecol.*, **7**(4), 341–343. (10.1016/0031-0182(70)90100-8.)
- Stoner, J.S., J.E.T. Channell, C. Hillaire-Marcel and C. Kissel. 2000. Geomagnetic paleointensity and environmental record from Labrador Sea core MD95-2024: global marine sediment and ice core chronostratigraphy for the last 110 kyr. *Earth Planet. Sci. Lett.*, **183**(1–2), 161–177. (10.1016/S0012-821X(00)00272-7.)

- Storey, M. *and 10 others* (including J.H. Sevigny). 1992. Chapter 2. Lower Cretaceous volcanic rocks on continental margins and their relationship to the Kerguelen Plateau. In Wise, S.W., Jr *and 28 others* (including F. Heider and J.H. Sevigny), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, 33–53. (10.2973/odp.proc.sr.120.118.1992.)
- Storey, K.B. 2004. Adventures in oxygen metabolism. *Comp. Biochem. Physiol. B*, **139**(3), 359–369. (10.1016/j.cbpc.2004.02.018.)
- Story, K. *and 62 others* (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder and K. Vanderlinde). 2011. South Pole Telescope detections of the previously unconfirmed *Planck* early Sunyaev–Zel'dovich clusters in the Southern Hemisphere. *Astrophys. J. Lett.*, **735**(2), L36. (10.1088/2041-8205/735/2/L36.)
- Story, K. *and 66 others* (the SPT Collaboration that includes A. Bender, T. de Haan, M.A. Dobbs, J. Kennedy, G. Smecher and K. Vanderlinde). 2012. South Pole Telescope software systems: control, monitoring, and data acquisition. In Radziwill, N.M. and G. Chiozzi, eds. *Software and cyberinfrastructure for astronomy II*. Bellingham, WA, International Society for Optical Engineering, 84510T. (SPIE Proceedings 8451, Part One.) (10.1117/12.925808.)
- Stossel, D.L. 1988a. *Report on SCAR XX/COMNAP meetings in Hobart*. Downsview, Ont., Environment Canada. Atmospheric Environment Service.
- Stossel, D.L. 1988b. *Report on transpolar research opportunities survey*. Downsview, Ont., Environment Canada. Atmospheric Environment Service.
- Stossel, D.L. 1990. *Report on SCAR XXI/COMNAP meetings in Sao Paulo, Brazil*. Downsview, Ont., Environment Canada. Atmospheric Environment Service.
- Stossel, D.L. 1993. *Report on COMNAP/SCALOP meetings in Christchurch, N.Z.* Downsview, Ont., Environment Canada. Atmospheric Environment Service.
- Stössel, A. and S.-J. Kim. 2001. Decadal deep-water variability in the subtropical Atlantic and convection in the Weddell Sea. *J. Geophys. Res.*, **106**(C10), 22,425–22,440. (10.1029/2000JC000335.)
- Stössel, A., K. Yang and S.-J. Kim. 2000. On the role of sea ice and convection in a global ocean model. [Abstract OS11D-06.] *Eos, Trans. AGU*, **81**(48), Fall Meet. Suppl., F712. (www.agu.org/meetings/fm00/waisfm00.html.)
- Stössel, A., K. Yang and S.-J. Kim. 2002. On the role of sea ice and convection in a global ocean model. *J. Phys. Oceanogr.*, **32**(4), 1194–1208. (10.1175/1520-0485(2002)032<1194:OTROSI>2.0.CO;2.)
- Stott, P.A. *and 6 others* (including N.P. Gillett and F. Zwiers). 2010. Detection and attribution of climate change: a regional perspective. *WIREs Clim. Change*, **1**(2), 192–211. (10.1002/wcc.34.)
- Strachan, A. 2008a. Eco-warriors brave a wild, Antarctic frontier; Animal Planet's Whale Wars tracks struggle on the high seas. *Ottawa Citizen*, 8 November, J.5.
- Strachan, A. 2008b. Whale Wars series brings eco-warriors to small screen; Paul Watson takes on Japanese whalers in the Antarctic. *Vancouver Sun*, 8 November, F.20.
- Strahan, S.E. *and 31 others* (including D.A. Plummer, J.F. Scinocca and T.G. Shepherd). 2011. Using transport diagnostics to understand chemistry climate model ozone simulations. *J. Geophys. Res.*, **116**(D17), D17302. (10.1029/2010JD015360.)
- Straka, T. and N. Trudeau. 2010. IPY youth expeditions to the Arctic & Antarctica (IPY Project 343). *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 383308, digital media. (www.ipy-osc.no/abstract/383308.)

- Straka, T., I. du Four, G. Green, N. Trudeau and S. Vanhove. 2012a. Educators strengthening the IPY legacy: testimonials from the IPY 2010 PolarTEACHERS Conference and IPY 2012 PolarEDUCATORS Workshop. *IPY 2012 From Knowledge to Action Conference, 22–27 April 201, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 1674, digital media. (<http://tinyurl.com/p3wlyyu>.)
- Straka, T., G. Green and N. Trudeau. 2012b. IPY youth expeditions to the Arctic and Antarctica (IPY Project 343). *IPY 2012 From Knowledge to Action Conference, 22–27 April 201, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 1666, digital media. (<http://tinyurl.com/p2qtltd>.)
- Straka, T., G. Green and N. Trudeau. 2012c. Knowing, understanding and appreciating the polar regions: The Students on Ice approach. *IPY 2012 From Knowledge to Action Conference, 22–27 April 201, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 1657, digital media. (<http://tinyurl.com/pbneqvf>.)
- Strickland, P. 2000. UNBC student going on rare Antarctic excursion: She will also be able to swim in volcanic hot springs. *Prince George Citizen*, 1 December, 13N.
- Strini, A., M. Guglielmin and K. Hall. 2008. Tafoni development in a cryotic environment: an example from Northern Victoria Land. *Earth Surf. Process. Landf.*, **33**(10), 1502–1519. (10.1002/esp.1620.)
- Strong, A.L., J.J. Cullen and S.W. Chisholm. 2009. Ocean fertilization: science, policy, and commerce. *Oceanography*, **22**(3), 236–261. (10.5670/oceanog.2009.83.)
- Strong, K. and 44 others (including M.A. Wolff, T.E. Kerzenmacher, K.A. Walker, P.F. Bernath, C.D. Boone, E. Dupuy, J. Jin, J.C. McConnell, K. Semeniuk, J.R. Taylor and M. Toohey). 2008. Validation of ACE-FTS N₂O measurements. *Atmos. Chem. Phys. (ACP)*, **8**(16), Special Issue, 4759–4786. (10.5194/acp-8-4759-2008.)
- Strzepek, R. and 6 others (including M.T. Maldonado). 2005. Spinning the “Ferrous Wheel”: the importance of the microbial community in an iron budget during the FeCycle experiment. *GBC Global Biogeochem. Cycles*, **19**(4), GB4S26. (10.1029/2005GB002490.)
- Strzepek, R.F., M.T. Maldonado, K.A. Hunter, R.D. Frew and P.W. Boyd. 2011. Adaptive strategies by Southern Ocean phytoplankton to lessen iron limitation: uptake of organically complexed iron and reduced cellular iron requirements. *Limnol. Oceanogr.*, **56**(6), 1983–2002. (10.4319/lo.2011.56.6.1983.)
- Strzepek, R.F., K.A. Hunter, R.D. Frew, P.J. Harrison and P.W. Boyd. 2012a. Absence of iron-light co-limitation in Southern Ocean phytoplankton. *2012 Ocean Sciences Meeting, 20–24 February 2012, Salt Lake City, Utah, USA. Abstract book*. Waco, TX, American Society of Limnology and Oceanography, 445. (Abstract 9441.) (www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=9441.)
- Strzepek, R.F., K.A. Hunter, R.D. Frew, P.J. Harrison and P.W. Boyd. 2012b. Iron–light interactions differ in Southern Ocean phytoplankton. *Limnol. Oceanogr.*, **57**(4), 1182–1200. (10.4319/lo.2012.57.4.1182.)
- Students on Ice. 2001a. Canadian high school students in Antarctica. *CARN Newsl.*, **12**, 7–8. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/12.pdf.)
- Students on Ice. 2001b. Canadian youth statement on Antarctica / Exposé des jeunes canadiens sur l'Antarctique. *CARN Newsl.*, **12**, 7–8. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/12.pdf.)
- Studinger, M., R.E. Bell, E. Curchitser, G.K.C. Clarke and A.A. Tikku. 2004. Bathymetry, water circulation, and melting and freezing in Lake Vostok. *XXVIII SCAR Open Science Conference, 26–28 July 2004, Bremen, Germany. Abstracts*. Cambridge, U.K., Scientific Committee on Antarctic Research, S19/O01.
- Studinger, M. and 18 others (including S. Elieff, D. Geue and M. Bates). 2009a. AGAP: exploring the Gamburtsev Subglacial Mountains with aerogeophysical surveys during the IPY. *2009 WAIS/FRISP Workshop, 16th Annual WAIS Workshop, September 27–29, 2009, Pack Forest Conference Center, Eatonville, Washington. Agenda & abstracts*. Greenbelt, MD, NASA/Goddard Space Flight Center, digital media. (www.waisworkshop.org/pastmeetings/PPT09/Studinger.pdf.)

- Studinger, M. and 18 others (including S. Elieff, D. Geue and M. Bates). 2009b. AGAP: exploring the Gamburtsev Subglacial Mountains with aerogeophysical surveys during the IPY. [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., C53B-08. (www.agu.org/meetings/fm09/waisfm09.html.)
- Studinger, M. and 18 others (including S. Elieff, D. Geue and M. Bates). 2009c. AGAP: exploring the Gamburtsev Subglacial Mountains with aerogeophysical surveys during the IPY. *Glaciology in the International Polar Year, 27–31 July 2009, Northumbria University, Newcastle, UK*. Cambridge, U.K., International Glaciological Society, presentation.
- Studinger, M. and 10 others (including S. Elieff). 2010. Mapping Pine Island Glacier's sub-ice cavity with airborne gravimetry. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, C11A-0528, digital media. (www.agu.org/cgi-bin/wais?ss=C11A-0528.)
- Studinger, M. and 16 others (including S. Elieff). 2011. Mapping Pine Island Glacier's sub-ice cavity with airborne gravimetry. *International Symposium on Interaction of Ice Sheets and Glaciers with the Ocean, 5–10 June 2011, La Jolla, California. Program and abstracts*. La Jolla, CA, Scripps Institution of Oceanography. International Glaciological Society, Abstract 016. (<http://tinyurl.com/nbdhe3w>.)
- Stump, E., J.R. Holloway, S.G. Borg and R.L. Armstrong. 1983. Discovery of a Tertiary granite pluton, northern Victoria Land. *Antarct. J. U.S.*, **18**(5), 1983 Review, 17–18. (<http://tinyurl.com/koo5flt>.)
- Stuster, J., C. Bachelard and P. Suedfeld. 1999. *In the wake of the astrolabe: review and analysis of diaries maintained by the leaders and physicians of French remote duty stations*. Santa Barbara, CA, ANACAPA Sciences Ltd. (<http://www.anacapasciences.com/publications/Astrolabe.pdf>)
- Stuster, J., C. Bachelard and P. Suedfeld. 2000. The relative importance of behavioural issues during long-duration ICE missions. *Aviation Space Env. Med.*, **71**(9), Section II, Supplement, A17–A25.
- Sudbury Star. 2000. Trip to Antarctic chills Oppositions' demands. *Sudbury Star*, 7 February, A.8.
- Suedfeld, P. 1987. Extreme and unusual environments. In Stokols, D. and I. Altman, eds. *Handbook of environmental psychology*. New York, NY, etc., John Wiley & Sons, 863–886.
- Suedfeld, P. 1990. Groups in isolation and confinement: environments and experiences. In Harrison, A.A., Y.A. Clearwater and C.P. McKay, eds. *From Antarctica to outer space: life in isolation and confinement*. New York, Springer-Verlag, 135–146.
- Suedfeld, P. 1991a. Book reviews. *Antarctic Psychology*. By A.J.W. Taylor. Wellington, New Zealand: Science Information Publishing Centre, 1987, xiv and 145 pp. figures, tables, photographs, references, appendices, \$41.00, paper. *Man in the Antarctic*. Edited by J. Rivolier, R. Goldsmith, D.J. Lugg, & A.J.W. Taylor. Taylor & Francis, 1988, xxv and 223 pp., figures, tables, photographs, references, appendices, \$58.00, cloth. *Environ. Behav.*, **23**(6), 800–804. (10.1177/0013916591236009.)
- Suedfeld, P., ed. 1991b. Polar psychology. *Environ. Behav.*, **23**(6), Special Issue, 653–799. (<http://eab.sagepub.com/content/23/6.toc>.)
- Suedfeld, P. 1991c. Polar psychology: an overview. *Environ. Behav.*, **23**(6), 653–665. (10.1177/0013916591236001.)
- Suedfeld, P. 1991d. Stimulus restriction in the field and laboratory: the search for analogies. In Taylor, A.J.W., ed. *Symposium on Human Factors in Polar Psychology with some Implications for Space. 24th International Congress of Psychology, August 1988, Sydney, Australia*. Cambridge, U.K., University of Cambridge. Scott Polar Research Institute, 35–38. (SPRI Polar Symposia 1.)
- Suedfeld, P. 1998a. Book review. Living in the highest latitudes and the highest altitudes. Bold endeavors: lessons from polar and space exploration, by Jack Shuster. Annapolis, MD: Naval Institute Press, 1996. L'homme dans l'espace; une approche psycho-écologique des vols habités [Man in space: a psychoecological approach to manned flight], by Jean Rivolier. Paris: Presses Universitaires de France, 1997. *Environ. Behav.*, **30**(2), 247–251. (10.1177/0013916598302007.)

- Suedfeld, P. 1998b. What can abnormal environments tell us about normal people? Polar stations as natural psychology laboratories. *J. Environ. Psych.*, **18**(1), 95–102. (10.1006/jevps.1998.0090.)
- Suedfeld, P. 1999a. Book review. Women in the Antarctic, edited by E. D. Rothblum, J. S. Weinstock, and J. F. Morris. New York: Hawington Park Press, 1998. Pp. 268. \$24 (paperback). *Environ. Behav.*, **31**(4), 577–579. (10.1177/00139169921972245.)
- Suedfeld, P. 1999b. Current psychological studies in Antarctica. *CARN Newsl.*, **8–9**, 6–7. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/8-9.pdf.)
- Suedfeld, P. 2001. Reports on SCAR Working Groups meetings, Tokyo, July 2000. Working Group on Human Biology and Medicine. *CARN Newsl.*, **12**, 12–13. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/12.pdf.)
- Suedfeld, P. 2002. Ten years of Canadian Antarctic organization 1993–2003: a historical summary. *CARN Newsl.*, **15**, 12–14. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/15.pdf.)
- Suedfeld, P. 2004. Human biology and medicine. In Loken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research*. Ottawa, Ont., Canadian Polar Commission, February, 16–17. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/Polar%20Connections.pdf.)
- Suedfeld, P. 2005. SCAR Life Sciences Standing Scientific Group (LSSSG). Expert Group on Human Biology and Medicine activities during SCAR XXVIII, Bremen, 25–30 July 2004. *CARN Newsl.*, **19**, 10–11. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/19.pdf.)
- Suedfeld, P. 2010. Historical space psychology: early terrestrial explorations as Mars analogues. *Planet. Space Sci.*, **58**(4), 639–645. (10.1016/j.pss.2009.05.010.)
- Suedfeld, P. and M. Barbarito. 1994. Proyecto de Psicología Polar (Version PPPB). *Terceras Jornadas de Comunicaciones sobre Investigaciones Antárticas*. Buenos Aires, Argentina, Dirección Nacional del Antártico, 443–444.
- Suedfeld, P. and J.S.P. Mocellin. 1987. The "sensed presence" in unusual environments. *Environ. Behav.*, **19**(1), 33–52. (10.1177/0013916587191002.)
- Suedfeld, P. and G.D. Steel. 2000. The environmental psychology of capsule habitats. *Annu. Rev. Psych.*, **51**, 227–253. (10.1146/annurev.psych.51.1.227.)
- Suedfeld, P. and K. Weiss. 2000a. Antarctica: natural laboratory and space analogue for psychological research. *Environ. Behav.*, **32**(1), 7–17. (10.1177/00139160021972405.)
- Suedfeld, P. and K. Weiss, eds. 2000b. International research in Antarctic psychology. *Environ. Behav.*, **32**(1), 156 pp.
- Suedfeld, P. and K. Weiss. 2000c. International research in Antarctic psychology. Guest editors' comments. *Environ. Behav.*, **32**(1), 5–6. (10.1177/00139160021972397.)
- Suedfeld, P., J.P. Bernaldez and D.L. Stossel. 1989. The Polar Psychology Project (PPP): a cross-national investigation of polar adaptation. *Arct. Med. Res.*, **48**(2), 91–94. (http://tinyurl.com/o6e5gzu.)
- Suedfeld, P., G.D. Steel and L.A. Palinkas. 1992. Psychological aspects of polar living. *Antarct. J. U.S.*, **27**(5), 1992 Review, 327. (http://tinyurl.com/pcqudof.)
- Suedfeld, P., G.D. Steel and J. Brcic. 2012. Personality and the positive psychological impact of polar sojourns. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_27.pdf.)
- Sugiura, N. and D.W. Strangway. 1982. Magnetic properties of low-petrologic grade non-carbonaceous chondrites. [*Mem. Natl. Inst. Polar Res.*], **25**, Special Issue, 260–280. (http://tinyurl.com/pqvapv.)
- Sugiura, N., T. Matsui and D.W. Strangway. 1986. Gas permeability of some Antarctic chondrites. [*Mem. Natl. Inst. Polar Res.*], **41**, Special Issue, 358–363. (http://ci.nii.ac.jp/naid/110000010124.)

- Sugiura, N., J. Arkani-Hamed and D.W. Strangway. 1987. Possible transport of volatile trace elements in meteorite parent bodies. [*Mem. Natl. Inst. Polar Res.*], **46**, Special Issue, 216–225. (<http://ci.nii.ac.jp/naid/110000010254>.)
- Sugiyama, K. *and 7 others* (including D.A. Fisher and R.M. Koerner). 2000. Measurement of electrical conductance in ice cores by AC-ECM method. In Hondoh, T., *ed. Physics of ice core records*. Sapporo, Hokkaido University Press, 173–184.
- Summerhayes, C. and P. Beeching. 2007. Hitler's Antarctic base: the myth and the reality. *Polar Rec.*, **43**(1), 1–21. (10.1017/S003224740600578X.)
- Suplee, C. 1999. Taking measure of our future: scientists try to determine the extent of glacier melting in the Antarctic; their findings could ascertain global survival. *Vancouver Sun*, 11 March, A.15.
- Suttle, C. 2000. Chapter 20. Cyanophage and their role in the ecology of cyanobacteria. In Whitton, B. and M. Potts, *eds. The ecology of cyanobacteria: their diversity in time and space*. Dordrecht, Netherlands, Kluwer Academic Publishers, 563–589. (10.1007/0-306-46855-7_20.)
- Suttle, C. 2001. Virus indicators in deep ice and sub-glacial lakes as indicators of global change. In Löken, O.H. and N.J. Couture, *eds. Subglacial lake and deep ice exploration: Canadian expertise and international opportunities*. Ottawa, Ont., Canadian Polar Commission, May, 24. (http://www.polarcom.gc.ca/english/antarctic/pdf/antarctic_subglacial_en.pdf)
- Swadling, K.M., H.J.G. Dartnall, J.A.E. Gibson, É. Saulnier-Talbot and W.F. Vincent. 2001. Fossil rotifers and the early colonization of an Antarctic lake. *Quat. Res.*, **55**(3), 380–384. (10.1006/qres.2001.2222.)
- Swart, N.C. and J.C. Fyfe. 2012a. The consequences of climate models Southern Hemisphere wind-stress biases and their time-evolution for climate simulation. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, GC43C-1031, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Swart, N.C. and J.C. Fyfe. 2012b. Observed and simulated changes in the Southern Hemisphere surface westerly wind-stress. *Geophys. Res. Lett.*, **39**(16), L16711. (10.1029/2012GL052810.)
- Swart, N.C. and J.C. Fyfe. 2012c. Ocean carbon uptake and storage influenced by wind bias in global climate models. *Nature Clim. Change*, **2**(1), 47–52. (10.1038/nclimate1289.)
- Swift, C.T. *and 7 others* (including S. Peteherych). 1985. Observations of the polar regions from satellites using active and passive microwave techniques. *Adv. Geophys.*, **27**, 335–392. (10.1016/S0065-2687(08)60409-4.)
- Swithinbank, C. 1989. Non-government aircraft in the Antarctic 1988/89. *Polar Rec.*, **25**(154), 254. (Report on activities of Adventure Network International (ANI) of Vancouver.) (10.1017/S0032247400010901.)
- Swithinbank, C. 1990. Non-government aircraft in the Antarctic 1989/90. *Polar Rec.*, **26**(159), 316. (Report on activities of Adventure Network International (ANI) of Vancouver.) (10.1017/S0032247400011864.)
- Swithinbank, C. 1992a. Non-government aircraft in the Antarctic 1990/91. *Polar Rec.*, **28**(164), 66. (Report on activities of Adventure Network International (ANI) of Vancouver.) (10.1017/S0032247400020337.)
- Swithinbank, C. 1992b. Non-government aircraft in the Antarctic 1991/92. *Polar Rec.*, **28**(166), 232. (Report on activities of Adventure Network International (ANI) of Vancouver.) (10.1017/S0032247400020702.)
- Swithinbank, C. 1993. Non-government aircraft in the Antarctic 1992/93. *Polar Rec.*, **29**(170), 244–245. (Report on activities of Adventure Network International (ANI) of Vancouver.) (10.1017/S0032247400018593.)
- Swithinbank, C. 1994. Non-government aircraft in the Antarctic 1993/94. *Polar Rec.*, **30**(174), 221. (Report on activities of Adventure Network International (ANI) of Vancouver.) (10.1017/S0032247400024281.)
- Swithinbank, C. 1995. Non-government aircraft in the Antarctic 1994/95. *Polar Rec.*, **31**(178), 346. (Report on activities of Adventure Network International (ANI) of Vancouver.) (10.1017/S0032247400013905.)

- Swithinbank, C. 1996. Non-government aircraft in the Antarctic 1995/96. *Polar Rec.*, **32**(183), 355–356. (Report on activities of Adventure Network International (ANI) of Vancouver.) (<http://tinyurl.com/pea666e>.)
- Sydeman, W.J. and 7 others (including J.M. Hipfner). 2007. Planktivorous predators as indicators of changes in zooplankton: importance of time series on trophic ecology. *Human and climate forcing of zooplankton populations. 4th International Zooplankton Production Symposium, 28 May–1 June 2007, Hiroshima, Japan. Abstracts and program*. Sidney, B.C., North Pacific Marine Science Organization (PICES), 61. (Poster S1-3646.) (<http://tinyurl.com/npxhssso>.)
- Symons, T.H.B. 1994. Canada and polar science. *Polar Rec.*, **30**(175), 311–313. (<http://tinyurl.com/p8sbzvh>.)
- Syvitski, J.P.M. and E.W.H. Hutton. 1996. *In situ* characteristics of suspended particles as determined by the floc camera assembly FCA. *J. Sea Res.*, **36**(1–2), 131–142. (10.1016/S1385-1101(96)90783-2.)
- Tahirkheli, S.N., R. Goodwin and H. Lane. 2006. Tracking the publications of the International Polar Year. [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., ED13B-06. (<http://tinyurl.com/qb927su>.)
- Tai, V., S.C. Lindstrom and G.W. Saunders. 2001. Phylogeny of the Dumontiaceae (Gigartinales, Rhodophyta) and associated families based on SSU rDNA and internal transcribed spacer sequence data. *J. Phycol.*, **37**(1), 184–196. (10.1046/j.1529-8817.2001.037001184.x.)
- Takahashi, T. and 30 others (including C.S. Wong). 2009. Climatological mean and decadal change in surface ocean pCO₂, and net sea–air CO₂ flux over the global oceans. *Deep-Sea Res. II*, **56**(8–10), 554–577. (10.1016/j.dsr2.2008.12.009.)
- Takizawa, K., S. Takahashi, N.P.A. Hüner and J. Minagawa. 2009. Salinity affects the photoacclimation of *Chlamydomonas raudensis* Ettl UWO241. *Photosyn. Res.*, **99**(3), 195–203. (10.1007/s11220-008-9397-8.)
- Talarico, F., S. Sandroni and the Andrill-MIS Science team (that includes D.R. Schmitt). 2007. Clast provenance and variability in MIS (AND-1B) core and their implications for the paleoclimatic evolution recorded in the Windless Bight-southern McMurdo Sound area (Antarctica). In Cooper, A.K., P. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007*. Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (*U.S. Geol. Surv. Open-File Rep.* 2007-1047.) (Extended Abstract 118.) (<http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea118.pdf>.)
- Talkington, R.W., P.A. Mayewski and H.E. Gaudette. 1982. Geochemical and glacio-geomorphic implications of basalt weathering in the Queen Maud Mountains, Antarctica. *Geol. Mag.*, **119**(6), 553–566.
- Tamisiea, M.E., J.X. Mitrovica, G. Milne, J. Tromp and J. Davis. 2000. Glacial isostatic adjustment and the Earth's gravity field; a new generation of model predictions for the interpretation of CHAMP and GRACE data. [Abstract G52A-10.] *Eos, Trans. AGU*, **81**(48), Fall Meet. Suppl., F308. (<http://tinyurl.com/q52cg7d>.)
- Tamisiea, M.E., J.X. Mitrovica, G.A. Milne and J.L. Davis. 2001. Global geoid and sea level changes due to present-day ice mass fluctuations. *J. Geophys. Res.*, **106**(B12), 30,849–30,863. (10.1029/2000JB000011.)
- Tamisiea, M.E., J.X. Mitrovica, R.S. Nerem, E.W. Leuliette and G.A. Milne. 2004. Past and present deglaciation effects on ongoing sea level changes. [Abstract G33A-07.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA122. (www.agu.org/meetings/sm04/waissm04.html.)
- Tamisiea, M.E., J.L. Davis, J.X. Mitrovica and J.W. Crowley. 2006. Extracting information on GIA from GRACE data. [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., G12A-05. (www.agu.org/meetings/fm06/waisfm06.html.)
- Tamuly, A. 1974. Dispersal of tritium in Southern Ocean waters. *Arctic*, **27**(1), 27–40. (www.jstor.org/stable/40508475.)
- Tan, D., R. Harvey, M. Caffee and G. Osinski. 2008. Surface exposure ages in the Miller Range, Transantarctic Mountains, Antarctica. [Abstract 4021.] *Meteor. & Planet. Sci.*, **43**(S7), Workshop on Antarctic Meteorites, A190. (10.1111/j.1945-5100.2008.tb00712.x.)

- Tan, D., R.P. Harvey, M.W. Caffee and G. Osinski. 2010. Limited fluctuations of East Antarctic interior in late Pliocene, and influences on meteorite concentrations. *Forty-First Lunar and Planetary Science Conference, 1–5 March 2010, The Woodlands, Texas. Program with abstracts*. Houston, TX, Lunar and Planetary Institute, digital media, 2416. (LPI Contribution No.1533.) (<http://tinyurl.com/pvn83rs>.)
- Tan, B., Z.-j. Li, P. Lu, C. Haas and M. Nicolaus. 2012. Morphology of sea ice pressure ridges in the northwestern Weddell Sea in winter. *J. Geophys. Res.*, **117**(C6), C06024. (10.1029/2011JC007800.)
- Tang, C., M.T. Madigan and B. Lanoil. 2012. Bacterial and archaeal diversity in sediments of west Lake Bonney, McMurdo Dry Valleys, Antarctica. *Appl. Environ. Microbiol.*, **79**(3), 1034–1038. (10.1128/AEM.02336-12.)
- Tang, E.P.Y. and W.F. Vincent. 1999. Strategies of thermal adaptation by high-latitude cyanobacteria. *New Phytol.*, **142**(2), 315–323. (10.1046/j.1469-8137.1999.00385.x.)
- Tang, E.P.Y., R. Tremblay and W.F. Vincent. 1997a. Cyanobacterial dominance of polar freshwater ecosystems: are high latitude mat-formers adapted to the low temperature environment? *J. Phycol.*, **33**(2), 171–181. (10.1111/j.0022-3646.1997.00171.x.)
- Tang, E.P.Y., W.F. Vincent, D. Proulx, P. Lessard and J. de la Noüe. 1997b. Polar cyanobacteria versus green algae for tertiary waste-water treatment in cool climates. *J. Appl. Phycol.*, **9**(4), 371–381. (10.1023/A:1007987127526.)
- Tankard, A.J. and 11 others. 1993. Tectonic controls of basin evolution in Southwest Gondwana. In Beauchamp, B., A. Embry and D. Glass, eds. *Carboniferous to Jurassic Pangea, first international symposium*. Calgary, Alta, Canadian Society of Petroleum Geologists, 304.
- Tankard, A. 1996. Book review. Ross Orogen of the Antarctic Mountains. *AAPG Bull.*, **80**(7), 1155.
- Tarasick, D.W. and J.W. Bottenheim. 2002. Surface ozone depletion episodes in the Arctic and Antarctic from historical ozonesonde records. *Atmos. Chem. Phys. (ACP)*, **2**(3), 197–205. (<http://tinyurl.com/pg5scyq>.)
- Tarasov, L. 2012. A global meltwater deglaciation chronology. [Abstract.] *Quat. Int.*, **279–280**, XVIII INQUA Congress, 485. (10.1016/j.quaint.2012.08.1643.)
- Tarling, G. and 9 others (including E. Pakhomov). 2008. *Krill population trends*. Hobart, Tasmania, Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR). (CCAMLR Meeting Document: CCAMLR-IWC-WS-08/11.) (www.ccamlr.org.)
- Tarnocai, C. 2005. Ground ice and permafrost characteristics for permafrost mapping. In Bockheim, J.G., comp. *International Workshop on Antarctic Permafrost and Soils, 14–18 November 2004, Madison, WI. Final report*. Washington, DC, National Science Foundation. Office of Polar Programs, Antarctic Section, Abstract, 48. (http://earth.waikato.ac.nz/antpas/pdf/FIN_REP_Ant_Wk3.pdf.)
- Tarnocai, C. and I. Campbell. 2006. Chapter 1.1. Soils of the polar region. In Lal, R., ed. *Encyclopedia of soil science, Second edition*. London, Taylor & Francis, 1330–1333.
- Tarves, T. 1996. South sea study: Albertan collects elephant seal data on wild, rugged Antarctic island. *Calgary Herald*, B.6.
- Taylor, F. 2001. Cybercartographic atlas of Antarctica. *Seventh Continent [Montréal]*, **12**, 15–18.
- Taylor, D.R.F. 2003. Chapter 26. The concept of cybercartography. In Peterson, M.P., ed. *Maps and the internet*. Amsterdam, etc., Elsevier. International Cartographic Association, 405–420. (10.1016/B978-008044201-3/50028-1.)
- Taylor, D.R.F., ed. 2005. *Cybercartography: theory and practice*. Amsterdam, Elsevier. (Modern Cartography Series 4.) (www.sciencedirect.com/science/bookseries/13630814/4.)
- Taylor, D.R.F. 2006. Cybercartographic atlases, society and government: new directions for the future, mapping for the future. *Celebrating history and innovation. GEOTEC 2006, 18–21 June 2006, Ottawa, Ontario*. Los Angeles, CA, GEOTEC and Canadian Cartographic Association, presentation.

- Taylor, D.R.F. 2011. Global Map: international cooperation in the mapping sciences. In Sinha, A.K., D. Arctur, I. Jackson and L.C. Gundersen, eds. *Societal challenges and geoinformatics*. Boulder, CO, Geological Society of America, 183–191. (GSA Special Paper 482.) (10.1130/2011.2482(14).)
- Taylor, D.R.F. and S. Caquard. 2006. Cybercartography: maps and mapping in the information era. *Cartographica*, **41**(1), 1–5. (10.3138/U631-37K3-3NL6-4136.)
- Taylor, D.R.F. and T.P. Lauriault. 2003. L'atlante Cibercartografico di Antartica: un esempio di documento scientifico [The Cybercartographic Atlas of Antarctica: an example of a scientific document]. *Lost in migration? La conservazione dell'identità, integrità e accessibilità dei documenti prodotti dalle arti, le scienze ed e-governments in sistemi digitali dinamici, 5 December 2003, Bologna, Italy*. Bologna, Interpares. Centro Italiano di Documentazione sulla Cooperazione e l'Economia Sociale, presentation. [In Italian]
- Taylor, D.R.F. and T.P. Lauriault. 2004. The Cybercartographic Atlas of Antarctica and related archival issues. *The information society: new horizons for science. 19th International CODATA Conference, 7–10 November 2004, Berlin, Germany*. Paris, International Council for Science. Committee on Data for Science and Technology (CODATA), digital media. (<http://tinyurl.com/poca7t6>.)
- Taylor, D.R.F. and S. Pyne. 2010. The history and development of the theory and practice of cybercartography. *Int. J. Digital Earth*, **3**(1), 2–15. (10.1080/17538940903155119.)
- Taylor, D.R.F. and P.L. Pulsifer. 2004. Cybercartographic Atlas of Antarctica. *Cartographic theory and SDI in Antarctic science. GIM Int.*, **18**(1), 35–37.
- Taylor, D.R.F., P. Pulsifer and T.P. Lauriault. 2002. *Cybercartography and the new economy: project launch*. Ottawa, Ont., Department of Geography and Environmental Studies, Geomatics and Cartographic Research Centre, November.
- Taylor, D.R.F., P. Pulsifer and T. Lauriault. 2002. Preserving and adding value to scientific data: the Cybercartographic Atlas of Antarctica. *PV2005 - Ensuring Long-term Preservation and Adding Value to Scientific and Technical Data, 21–23 November 2005, Edinburgh, Scotland. Abstracts*. Edinburgh, UK, Digital Curation Centre. The Royal Society, digital media. (<http://tinyurl.com/njgdm9>.)
- Taylor, D.R.F., B. Eddy, P. Pulsifer and T. Lauriault. 2005. Cybercartography: theory and practice. *Mapping approaches into a changing world, 22nd International Cartographic Conference, 9–16 July 2005, A Coruña, Spain*. A Coruña, Spain, International Cartographic Association (ICA), Abstract, digital media. (www.cartesia.org/geodoc/icc2005/pdf/oral/TEMA11/Session%207/D.R.F.%20TAYLOR.pdf.)
- Taylor, D.R.F., T.P. Lauriault and P.L. Pulsifer. 2006. A case study in geospatial e-science: the Cybercartographic Atlas of Antarctica. *ANAI Seminario Internazionale InterPARES 2 e Seminari Nazionali sul Digitale, Archive e Digitale: Quale Futuro? December 2006, Milan, Italy*. Ottawa, Ont., Department of Geography and Environmental Studies, Geomatics and Cartographic Research Centre, digital media. (<http://tinyurl.com/ot5ugnz>.)
- Taylor, D.R.F., T.P. Lauriault and P.L. Pulsifer. 2007. Archiving and preserving cartographic data: the Cybercartographic Atlas of Antarctica. *ICC 2007, XXIII International Cartographic Conference, 4–10 August 2007, Moscow. Proceedings*. Moscow, Russian Geodesy, Cartography and Land Management Society. International Cartographic Association, digital media. (<http://tinyurl.com/o3kdhfl>.)
- Taylor, L.C. 2010. 'Gruelling times full of tragedy'; collection of Canadian Sir Charles Wright tells story of Scott's ill-fated Antarctic expedition. *Toronto Star*, 28 August, A.3.
- Tazaki, K., J. Webster and W.S. Fyfe. 1997. [Transformation processes of microbial barite to sediments in Antarctica.]. [*Jpn Mag. Mineral. Petrol. Sci.*], **26**(2), 63–68. [In Japanese with English summary.]
- Teixeira, L.C.R.S. and 6 others (including E. Yergeau and C.W. Greer). 2012. Plant and bird presence strongly influences the microbial communities in soils of Admiralty Bay, King George Island, maritime Antarctica. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 1257, digital media. (<http://tinyurl.com/pcvsksy>.)

- Telegraph-Journal [St John]. 2006. Canadian activist falls into Antarctic waters in clash with Japanese whalers. *Telegraph-J. [Saint John]*, A.7.
- Telegraph-Journal [St John]. 2007. Shipwreck victims ask to 'continue adventure'; Accident Canadian cruise liner hits ice, sinks in Antarctic. *Telegraph-J. [Saint John]*, A.4.
- Temme, C., J.W. Einax, R. Ebinghaus and W.H. Schroeder. 2003a. Measurements of atmospheric mercury species at a coastal site in the Antarctic and over the South Atlantic Ocean during polar summer. *ES&T, Environ. Sci. Technol.*, **37**(1), 22–31. (10.1021/es025884w.)
- Temme, C., R. Ebinghaus, J.W. Einax and W.H. Schroeder. 2003b. Response to comment on “Measurements of atmospheric mercury species at a coastal site in the Antarctic and over the South Atlantic Ocean during polar summer”. *ES&T, Environ. Sci. Technol.*, **37**(14), 3241–3242. (10.1021/es030462n.)
- Terhune, J.M. 2004. Through-ice communication by Weddell seals may not be practicable. *Polar Biol.*, **27**(12), 810–812. (10.1007/s00300-004-0659-4.)
- Terhune, J. 2005. Call of the Weddell. *Austral. Antarct. Mag.*, **8**, Supporting big picture science, prefaced by T. Press, 14. (<http://tinyurl.com/qge8449>.)
- Terhune, J. 2005. Loquacious Weddell seals. *CARN Newsl.*, **19**, 1–3. (<http://tinyurl.com/7j6zrpo>.)
- Terhune, J. 2011. From switches to menus and students to HQPs – the evolving world of marine mammal bioacoustics. *Aquat. Mamm.*, **37**(1), 95–100.
- Terhune, J. 2011. Why do Weddell seals shout? [Abstract.] *J. Acoust. Soc. Am.*, **129**(4), 2505. (10.1121/1.3588272.)
- Terhune, J.M., H.R. Burton and K. Green. 1993. Classification of diverse call types using cluster analysis techniques. *Bioacoustics*, **4**(4), 245–258. (www.bioacoustics.info/article/classification-diverse-call-types-using-cluster-analysis-techniques.)
- Terhune, J.M., H. Burton and K. Green. 1994. Weddell seal in-air call sequences made with closed mouths. *Polar Biol.*, **14**(2), 117–122. (10.1007/BF00234973.)
- Terhune, J.M., N.C. Grandmaitre, H.R. Burton and K. Green. 1994. Weddell seals lengthen many underwater calls in response to conspecific vocalizations. *Bioacoustics*, **5**(3), 223–226. (<http://tinyurl.com/knkym9b>.)
- Terhune, J.M., S.R. Healey and H.R. Burton. 2001. Easily measured call attributes can detect vocal differences between Weddell seals from two areas. *Bioacoustics*, **11**(3), 211–222. (<http://tinyurl.com/lo5yom9>.)
- Terhune, J.M., T.C. Addy, T.A.M. Jones and H.R. Burton. 2001. Underwater calling rates of harp and Weddell seals as a function of hydrophone location. *Polar Biol.*, **24**(2), 144–146. (10.1007/s003000000194.)
- Terhune, J.M. and A. Dell'Apa. 2005. Stereotyped calling patterns of a male Weddell seal. *J. Acoust. Soc. Am.*, **118**(3), 1938–1939. (10.1121/1.1763956.)
- Terhune, J.M. and 6 others. 2008. Geographic variations in underwater male Weddell seal trills suggest breeding area fidelity. *Polar Biol.*, **31**(6), 671–680. (10.1007/s00300-008-0405-4.)
- The MEOP Partners. 2010. The MEOP project: marine mammals exploring the oceans pole to pole. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382838, digital media. (J.M. Andersen is a MEOP Consortium member) (www.ipy-osc.no/abstract/382838.)
- The Polar Group (includes E.F. Roots). 1980. Polar atmosphere–ice–ocean processes: a review of polar problems in climate research. *Rev. Geophys.*, **18**(2), 525–543. (10.1029/RG018i002p00525.)
- The Times. 2008. Fritz Koerner: member of the British Transarctic Expedition. *Times [London]*, 29 May, digital media. (www.timesonline.co.uk/tol/comment/obituaries/article4059829.ece#at.)

- Thomalla, S.J., H.N. Waldron, M.I. Lucas, J.F. Read, I.J. Ansorge and E. Pakhomov. 2011. Phytoplankton distribution and nitrogen dynamics in the southwest Indian subtropical gyre and Southern Ocean waters. *Ocean Sci. (OS)*, **7**(21), 113–127. (10.5194/os-7-113-2011.)
- Thomas, J., D. DeMaster, S. Stone and D. Andriashek. 1980. Observations of a newborn Ross seal pup (*Ommatophoca rossi*) near the Antarctic Peninsula. *Can. J. Zool.*, **58**(11), 2156–2158. (10.1139/z80-296.)
- Thomas, J.A. and I. Stirling. 1983. Geographic variation in the underwater vocalizations of Weddell seals (*Leptonychotes weddelli*) from Palmer Peninsula and McMurdo Sound, Antarctica. *Can. J. Zool.*, **61**(10), 2203–2212. (10.1139/z83-291.)
- Thomas, D.N., S. Papadimitriou and C. Michel. 2010. Chapter 12. Biogeochemistry of sea ice. In Thomas, D.N. and G.S. Dieckmann, eds. *Sea ice, Second edition*. Chichester, etc., Wiley-Blackwell, 425–467. (10.1002/9781444317145.ch12.)
- Thomas-Keprta, K.L. and 7 others (including H. Vali). 2000a. Biogenic Martian magnetite crystals? A comparison of prismatic magnetite crystals in the Allan Hills 84001 carbonate globules with those from magnetotactic bacteria strain MV-1. [Abstract 5146.] *Meteor. & Planet. Sci.*, **35**(S5), Suppl.: 63rd Annual Meteoritical Soc. Meet., A156. (www.lpi.usra.edu/meetings/metsoc2000/pdf/5146.pdf.)
- Thomas-Keprta, K.L. and 7 others (including H. Vali). 2000b. Statistical analyses comparing prismatic magnetite crystals in ALH 84001 carbonate globules with those from the terrestrial magnetotactic bacteria strain MV-1. *Thirty-first Lunar and Planetary Science Conference, 13–17 March 2000, Houston, Texas. Abstracts*. Houston, TX, Lunar and Planetary Institute, Abstract 1683, CD-ROM. (LPI Contribution No.1000) (www.lpi.usra.edu/meetings/lpsc2000/pdf/1683.pdf.)
- Thomas-Keprta, K.L. and 7 others (including H. Vali). 2001. Truncated hexa-octahedral magnetites: biosignatures in terrestrial samples and Martian meteorite ALH84001. *Thirty-second Lunar and Planetary Science Conference, 12–16 March 2001, Houston, Texas. Abstracts*. Houston, TX, Lunar and Planetary Institute, Abstract 2017, CD-ROM. (LPI Contribution No.1080.) (<http://tinyurl.com/ov2lawp>.)
- Thompson, D.W.J., S. Solomon, P.J. Kushner, M.H. England, K.M. Grise and D.J. Karoly. 2011. Signatures of the Antarctic ozone hole in Southern Hemisphere surface climate change. *Nature Geosci.*, **4**(11), 741–749. (10.1038/ngeo1296.)
- Thompson, K. 2007. Sea level and tidal science in the polar oceans. *International Polar Year Day: ice sheets*. Edmonton, Alta., Canadian IPY Secretariat, 4. (IPY Day 2.) (<http://tinyurl.com/njz46ud>.)
- Thomson, A. 2007. Couple has no regrets about adventure even though Antarctic cruise ship sank: Ottawa pair says there was 'no real panic' during hours in lifeboat in frigid water. *Ottawa Citizen*, 21 December, F.9.
- Thorn, C. and K. Hall. 2002. Nivation and cryoplanation: the case for scrutiny and integration. *Prog. Phys. Geogr.*, **26**(4), 533–550. (10.1191/0309133302pp351ra.)
- Thresher, R.E., H. Neil, C. MacRae, N. Wilson, S.J. Fallon and O. Sherwood. 2010. Paleo-climate reconstruction of Southern Hemisphere Intermediate Water Formation over the last millennium from analysis of the skeletal composition of deep-water isidids. [Abstract.] *Eos, Trans. AGU*, **91**(26), Meet. Americas Suppl., IT45K-18. (www.agu.org/meetings/ja10/program/abstract-database.php?sel=1.)
- Tikku, A.A., R.E. Bell, M. Studinger and G.K.C. Clarke. 2004. Ice flow field over Lake Vostok, East Antarctica inferred by structure tracking. *Earth Planet. Sci. Lett.*, **227**(3–4), 249–261. (10.1016/j.epsl.2004.09.021.)
- Tikku, A.A., R.E. Bell, M. Studinger, G.K.C. Clarke, I. Tabacco and F. Ferraccioli. 2005. Influx of meltwater to subglacial Lake Concordia, East Antarctica. *J. Glaciol.*, **51**(172), 96–104. (10.3189/172756505781829494.)
- Times & Transcript [Moncton]. 2003. Cdn. rescue plane leaves South Pole; ailing American worker successfully evacuated from Antarctic research station. *Times & Transcript [Moncton]*, 22 September.

- Times & Transcript [Moncton]. 2008. Royal Navy finds sunken Canadian ship in Antarctic: MS Explorer struck iceberg Nov. 23; all passengers crew removed safely. *Times & Transcript [Moncton]*, 1 February, C.3.
- Times & Transcript [Moncton]. 2010. Christie's to sell Antarctic expedition relics; Memorabilia from Capt. Robert Falcon Scott's ill-fated trip on sale tomorrow. *Times & Transcript [Moncton]*, 21 September, C.9.
- Tin, T., K. Bastmeijer, J. O'Reilly and P. Maher. 2011. Public perception of the Antarctic wilderness: surveys from an educated, environmentally knowledgeable European community. In Watson, A., J. Murrieta-Saldivar and B. McBride, eds. *Science and stewardship to protect and sustain wilderness values. Ninth World Wilderness Congress Symposium, 6–13 November 2009, Meridá, Yucatán, Mexico*. Fort Collins, CO, U.S. Department of Agriculture. Forest Service. Rocky Mountain Research Station, 109–117. (Proceedings RMRS-P-64.) (Editors are compilers.) (www.fs.fed.us/rm/pubs/rmrs_p064.pdf.)
- Tin, T., D. Liggett and P.T. Maher. 2012. Foreword: The complex business of managing human activities and protecting the environment of the polar regions. *Polar Res.*, **31**, 20228. (10.3402/polar.v31i0.20228.)
- Tinto, K.J., R.E. Bell, J.R. Cochran, M. Studinger, N. Frearson and S. Elieff. 2010a. Bathymetry in front of Thwaites Glacier from airborne gravity (Operation IceBridge). *WAIS 2010, Seventeenth Annual WAIS Workshop, 22–25 September 2010, Raystown, PA. Agenda & abstracts*. Greenbelt, MD, NASA/Goddard Space Flight Center, digital media, 42–43. (<http://tinyurl.com/pc88uwu>.)
- Tinto, K.J., R.E. Bell, J.R. Cochran, S. Elieff and N. Frearson. 2010b. Insights into the Thwaites Glacier grounding zone from Operation IceBridge aerogravity. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, C11A-0529, digital media. (www.agu.org/cgi-bin/wais?ss=C11A-0529.)
- Tison, J.L., J.R. Petit, J.M. Barnola and W.C. Mahaney. 1993. Debris entrainment at the ice–bedrock interface in sub-freezing temperature conditions (Terre Adélie, Antarctica). *J. Glaciol.*, **39**(132), 303–315.
- Tison, J.-L. and 8 others (including C. Haas). 2008. Temporal evolution of decaying summer first-year sea ice in the Western Weddell Sea, Antarctica. *Deep-Sea Res. II*, **55**(8–9), 975–987. (10.1016/j.dsr2.2007.12.021.)
- Tison, J., B. Delille, T.N. Papakyriakou, M. Vancoppenolle, G. Carnat and N. Geilfus. 2009. $p\text{CO}_2$ in sea ice and CO_2 fluxes estimates: where do we stand today? [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., C52B-04. (www.agu.org/meetings/fm09/waisfm09.html.)
- Tobin, C. 2009. Yukoner feels 'blessed' by Antarctic excursion. *Whitehorse Star*, 16 December, 3.
- Tobin, C. 2010. Students experience Antarctic adventure. *Whitehorse Star*, 22 January, 6.
- Tokarczyk, R., K. Goodwin and E.S. Saltzman. 2002. Methyl bromide and methyl chloride degradation in the Southern Ocean. *Eos, Trans. AGU*, **83**(47), Fall Meet. Suppl., Abstract A72C-0182. (www.agu.org/meetings/fm02/waisfm02.html.)
- Tomasi, C. and 30 others (including S. Sharma). 2007. Aerosols in polar regions: a historical overview based on optical depth and in situ observations. *J. Geophys. Res.*, **112**(D16), D16205. (10.1029/2007JD008432.)
- Tonboe, R.T., L.T. Pedersen and C. Haas. 2009. Simulation of the satellite radar altimeter sea ice thickness retrieval uncertainty. *Cryos. Discuss. (TCD)*, **3**(2), 513–559. (<http://tinyurl.com/nsfetgk>.)
- Toomey, P.R.M., Capt. 1998. Canada should sign Antarctic treaty. *Kingston Whig-Standard*, A.6.
- Toro, M. and 11 others (including W.F. Vincent). 2007. Limnological characteristics of the freshwater ecosystems of Byers Peninsula, Livingston Island, in maritime Antarctica. *Polar Biol.*, **30**(5), 635–649. (10.1007/s00300-006-0223-5.)
- Toronto Star. 1986. Antarctic ice traps Canadian for 9 months. *Toronto Star*, 15 January, A.23.
- Toronto Star. 1988. Canada signs treaty protecting Antarctic region. *Toronto Star*, 5 May, A.9.
- Toronto Star. 2000. Photo. In pole position: Uiloq Slettemark of Greenland, left, and Canadian Sunniva Sorby train in Toronto yesterday for upcoming 100-day Antarctic ski trek... *Toronto Star*, 9 March, 1.

- Toronto Star. 2001. Canadian plane completes first leg of daring Antarctic rescue mission. *Toronto Star*, 26 April, A.02.
- Toronto Star. 2002. Canada in row over Antarctic. *Toronto Star*, 14 January, A.06.
- Torsvik, T.H. and 12 others (including P.J.A. McCausland). 2012. Phanerozoic polar wander, palaeogeography and dynamics. *Earth-Sci. Rev.*, **114**(3-4), 325–368. (10.1016/j.earscirev.2012.06.007.)
- Tortell, P.D. and M.C. Long. 2009. Spatial and temporal variability of biogenic gases during the Southern Ocean spring bloom. *Geophys. Res. Lett.*, **36**(1), L01603. (10.1029/2008GL035819.)
- Tortell, P.D. and 9 others (including C.D. Payne and Y. Li). 2008a. CO₂ sensitivity of Southern Ocean phytoplankton. *Geophys. Res. Lett.*, **35**(4), L04605. (10.1029/2007GL032583.)
- Tortell, P.D., C. Payne, C. Gueguen, R.F. Strzepek, P.W. Boyd and B. Rost. 2008b. Inorganic carbon uptake by Southern Ocean phytoplankton. *Limnol. Oceanogr.*, **53**(4), 1266–1278. (10.4319/lo.2008.53.4.1266.)
- Tortell, P.D. and 7 others (including C. Gueguen and C.D. Payne). 2010a. Biogenic gas distributions in Antarctic coastal waters: biophysical driving forces and ecophysiological implications. [Abstract.] *Eos, Trans. AGU*, **91**(26), Ocean Sci. Meet. Suppl., IT53D-08. (www.agu.org/meetings/os10/waisos10.html.)
- Tortell, P.D., S. Trimborn, Y. Li, B. Rost and C.D. Payne. 2010b. Inorganic carbon utilization by Ross Sea phytoplankton across natural and experimental CO₂ gradients. *J. Phycol.*, **46**(3), 433–443. (10.1111/j.1529-8817.2010.00839.x.)
- Tortell, P.D., C. Guéguen, M.C. Long, C.D. Payne, P. Lee and G.R. DiTullio. 2011. Spatial variability and temporal dynamics of surface water pCO₂, ΔO₂/Ar and dimethylsulfide in the Ross Sea, Antarctica. *Deep-Sea Res. A*, **58**(3), 241–259. (Erratum: **58**(7), July 2011, p.776–777.) (10.1016/j.dsr.2010.12.006; 10.1016/j.dsr.2011.03.005.)
- Tortell, P.D., M.C. Long, C.D. Payne, A.C. Alderkamp and K.R. Arrigo. 2012a. Spatial distribution of pCO₂, ΔO₂/Ar and dimethylsulfide (DMS) in polynya waters and the sea ice zone of the Amundsen Sea, Antarctic. *2012 Ocean Sciences Meeting, 20–24 February 2012, Salt Lake City, Utah, USA. Abstract book*. Waco, TX, American Society of Limnology and Oceanography, 466–467. (Abstract 12309.) (www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=12309.)
- Tortell, P.D., M.C. Long, C.D. Payne, A.-C. Alderkamp, P. Dutrieux and K.R. Arrigo. 2012b. Spatial distribution of pCO₂, ΔO₂/Ar and dimethylsulfide (DMS) in polynya waters and the sea ice zone of the Amundsen Sea, Antarctica. *Deep-Sea Res. II*, **71–76**, 77–93. (10.1016/j.dsr2.2012.03.010.)
- Toscano, S. and for the IceCube Collaboration (that includes D. Grant, S.C. Nowicki and T.R. Wood). 2012. Observation of anisotropy in the arrival direction distribution of cosmic rays above TeV energies with IceCube. *Nucl. Instrum. Meth. Phys. Res. A*, **692**, 165–169. (10.1016/j.nima.2012.01.040.)
- Tosi, D., R. Bay, B.P. Price and the IceCube Collaboration (that includes D. Grant). 2010. Antarctic glaciology and climatology in boreholes. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 774, CD-ROM.
- Toyota, T., C. Haas and T. Tamura. 2011. Size distribution and shape properties of relatively small sea-ice floes in the Antarctic marginal ice zone in late winter. *Deep-Sea Res. II*, **58**(9–10), 1182–1193. (10.1016/j.dsr2.2010.10.034.)
- Traber, C. 2008. Antarctic trip described as 'pure rapture'. *Liberal [Richmond Hill]*, 13 February, 1.
- Tréguer, P., L. Legendre, R.B. Rivkin, O. Ragueneau and N. Dittert. 2003. Water column biogeochemistry below the euphotic zone. In Fasham, M.J.R., ed. *Ocean biogeochemistry: the role of the ocean carbon cycle in global change*. Berlin, Federal Republic of Germany, Springer-Verlag, 145–156. (10.1007/978-3-642-55844-3_7.)
- Treloar, L. 2008. Antarctic odyssey takes travellers where few have gone before; fewer people have walked on Zavadovski Island than have landed on the moon. *Vancouver Sun*, 23 February, G.11.

- Tremblay, J.-E. and W.O. Smith, Jr. 2007. Chapter 8. Primary production and nutrient dynamics in polynyas. In Smith, W., Jr. and D. Barber, eds. *Polynyas: windows to the world*. Amsterdam, Elsevier, 239–269. (Oceanography Series 74.) (10.1016/S0422-9894(06)74008-9.)
- Tremblay, J.E. and 6 others. 2002. Significance of the Polar Frontal Zone for large-sized diatoms and new production during summer in the Atlantic sector of the Southern Ocean. *Deep-Sea Res. II*, **49**(18), 3793–3811. (10.1016/S0967-0645(02)00111-X.)
- Trevelyan, M. 1997. Place on the Antarctic food chain makes penguins barometer of health. *Vancouver Sun*, 22 March, H.9.
- Trevors, J.T., A.K. Bej, N. Mojib, J.D. van Elsas and L. van Overbeek. 2012. Bacterial gene expression at low temperatures. *Extremophiles*, **16**(2), 167–176. (10.1007/s00792-011-0423-y.)
- Trites, A.W., A.P. Coombs and E.L. Bredesen. 2004. Whales, whaling and ecosystem change in the Antarctic and eastern Bering Sea: insights from ecosystem models. *CIESM Workshop Monogr.*, **25**, 85–92.
- Truch, M.D.P. and 27 others (including E.L. Chapin, M. Halpern, G. Marsden, P.G. Martin, C.B. Netterfield, D. Scott, M.P. Viero and D.V. Wiebe). 2009. The balloon-borne large aperture submillimeter telescope (BLAST) 2006: calibration and flight performance. *Astrophys. J.*, **707**(2), 1723–1728. (<http://tinyurl.com/nbjfxdw>.)
- Trumble, S.J., S.R. Noren, L.A. Cornick, T.J. Hawke and S.B. Kanatous. 2010. Age-related differences in skeletal muscle lipid profiles of Weddell seals: clues to developmental changes. *J. Exp. Biol.*, **213**(10), 1676–1684. (10.1242/jeb.040923.)
- Truro Daily News. 2006. Firefighter joins team heading to Antarctic on \$1M fundraising trek. *Truro Daily News*, 29 November, 13.
- Tryland, M. and 12 others (including O. Nielsen). 2012. Serum chemistry and antibodies against pathogens in Antarctic fur seals, Weddell seals, crabeater seals, and Ross seals. *J. Wildlife Dis.*, **48**(3), 632–645. (10.7589/0090-3558-48.3.632.)
- Tsang, G. 1987. Polar Institute for Canada? Canada and polar science. W.P. Adams, P.F. Burnet, M.R. Gordon and E. F. Roots 1987. Ottawa, Circumpolar and Scientific Affairs Directorate. 129 p, softback. ISBN 0-662-15414-2. Obtainable from the Circumpolar and Scientific Affairs Directorate, DIAND, Ottawa K1A 0H4, Canada. *Polar Rec.*, **23**(147), 732–734. (10.1017/S0032247400008536.)
- Tsuboi, S., E.R. Ivins, T.S. James and M. Kanao. 2003. Lithospheric stress due to ice mass change and its implication to the March 25, 1998 Balleny Island earthquake. [Abstract.] *Terra Nostra [Bonn]*, **2003-4**, 9th Int. Symp. on Ant. Earth Sci., 324.
- Tufts, B., M. Gervais, M. Staebler and J. Weaver. 2002. Subcellular distribution and characterization of gill carbonic anhydrase and evidence for a plasma carbonic anhydrase inhibitor in Antarctic fish. *J. Comp. Physiol. B*, **172**(4), 287–295. (10.1007/s00360-002-0253-4.)
- Tulaczyk, S., L. Gray, I. Joughin, K. Jezek, V.B. Spikes and R. Bindschadler. 2005. Elevation change anomalies in West Antarctica – new windows into dynamics of subglacial water flow. *Twelfth Annual WAIS Workshop, 28 September – 1 October 2005, Algonkian Meeting Center, Sterling, Virginia, U.S.A. Agenda & abstracts*. Boulder, CO, National Snow and Ice Data Center. West Antarctic Ice Sheet Initiative (WAIS), digital media. (www.waisworkshop.org/pastmeetings/abstracts05/TulaczykOral.pdf.)
- Turner, D.R., S. Bertilsson, A. Fransson and E. Pakhomov. 2004. The SWEDARP 1997/98 marine expedition: overview. *Deep-Sea Res. II*, **51**(22–24), 2543–2556. (10.1016/j.dsr2.2003.08.006.)
- Tynan, C.T., D.G. Ainley and I. Stirling. 2010. Chapter 11. Sea ice: a critical habitat for polar marine mammals and birds. In Thomas, D.N. and G.S. Dieckmann, eds. *Sea ice, Second edition*. Chichester, etc., Wiley-Blackwell, 395–423. (10.1002/9781444317145.ch11.)
- Uchino, O., R.D. Bojkov, D.S. Balis, K. Akagi, M. Hayashi and R. Kajihara. 1999. Essential characteristics of the Antarctic-spring ozone decline: update to 1998. *Geophys. Res. Lett.*, **26**(10), 1377–1380. (10.1029/1999GL900277.)

- University of British Columbia (UBC). 2010. UBC underwater robot to explore ice-covered ocean and Antarctic ice shelf. *environmentalresearchweb*, digital media. (Report on work of B.E. Laval, A. Hamilton and A.L. Forrest.) (<http://environmentalresearchweb.org/cws/article/yournews/44047>.)
- University of British Columbia (UBC). 2011. Mountain glacier melt to contribute 12 cm to world sea-level increases by 2100. *environmentalresearchweb*, digital media. (Report on work of V. Radić.) (<http://environmentalresearchweb.org/cws/article/yournews/44765>.)
- University of Calgary. 2011. Climate change to continue to year 3000 in best case scenarios, research predicts. *ScienceDaily*, 10 January, digital media. (<http://tinyurl.com/4wde7py>.)
- University of Toronto. 2007. Antarctic ice yields student research discovery. *ScienceDaily*, 3 April, digital media. (www.sciencedaily.com/releases/2007/04/070403085901.htm.)
- Valiante, E. and 28 others (including F. Braglia, E. Chapin, M. Halpern, G. Marsden, C. Netterfield, D. Scott, M. Viero and D. Wiebe). 2010. BLAST observations of the South Ecliptic Pole field: number counts and source catalogs. *Astrophys. J. Suppl.*, **191**(2), Article 222. (10.1088/0067-0049/191/2/222.)
- Valsecchi, E. and 12 others (including R. Sears). 1997. Microsatellite genetic distances between oceanic populations of the humpback whale (*Megaptera novaeangiae*). *Mol. Biol. Evol.*, **14**(4), 355–362.
- Van de Flierdt, T., S.L. Goldstein, S.R. Hemming, M. Roy, M. Frank and A.N. Halliday. 2007a. A global perspective on Nd-Hf isotope systematics in the ocean from marine sediments and ferromanganese precipitates around Antarctica. [Abstract.] *Eos, Trans. AGU*, **88**(23), Jt. Assem. Suppl., H33E-04. (www.agu.org/meetings/ja07/waissm07.html.)
- Van de Flierdt, T., S.L. Goldstein, S.R. Hemming, M. Roy, M. Frank and A.N. Halliday. 2007b. Global neodymium-hafnium isotope systematics – revisited. *Earth Planet. Sci. Lett.*, **259**(3–4), 432–441. (10.1016/j.epsl.2007.05.003.)
- Van de Poll, W.H., M. Lagunas, T. de Vries, R.J.W. Visser and A.G.J. Buma. 2011. Non-photochemical quenching of chlorophyll fluorescence and xanthophyll cycle responses after excess PAR and UVR in *Chaetoceros brevis*, *Phaeocystis antarctica* and coastal Antarctic phytoplankton. *Mar. Ecol. Progr. Ser.*, **426**, 119–131. (10.3354/meps09000.)
- Van de Putte, A.P., G.D. Jackson, E. Pakhomov, H. Flores and F.A.M. Volckaert. 2010a. Distribution of squid and fish in the pelagic zone of the Cosmonaut Sea and Prydz Bay region during the BROKE-West campaign. *Deep-Sea Res. II*, **57**(9–10), 956–967. (10.1016/j.dsr2.2008.02.015.)
- Van de Putte, A.P., H. Flores, E.A. Pakhomov, J.A. van Franeker, F.A.M. Volckaert and K.U. Leuven. 2010b. *Electrona antarctica*: an energy transmitter in the Southern Ocean. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 382532, digital media. (<http://tinyurl.com/ousv75k>.)
- Van den Belt, M. and 8 others (including S. Demers and G.A. Ferreyra). 2006. Mediated modeling of the impacts of enhanced UV-B radiation on ecosystem services. *Photochem. Photobiol.*, **82**(4), 865–877. (10.1562/2005-10-19-IR-722.)
- Van der Meer, J.J.M., J. Menzies and J. Rose. 2003. Subglacial till: the deforming glacier bed. *Quat. Sci. Rev.*, **22**(15–17), 1659–1685. (10.1016/S0277-3791(03)00141-0.)
- Van der Meer, J.J.M. and J. Menzies. 2011. The micromorphology of unconsolidated sediments. *Sediment. Geol.*, **238**(3–4), 213–232. (10.1016/j.sedgeo.2011.04.013.)
- Van Dijken, G. and 10 others (including C.D. Payne and P. Tortell). 2010. The big bloom of 2009. [Abstract.] *Eos, Trans. AGU*, **91**(26), Meet. Americas Suppl., IT45I-03. (<http://tinyurl.com/poref53>.)
- Van Engelen, A. and 49 others (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder and K. Vanderlinde). 2012. A measurement of gravitational lensing of the microwave background using South Pole Telescope data. *Astrophys. J.*, **756**(2), Article 756. (10.1088/0004-637X/756/2/142.)

- Van Hove, P. 2005. Limnologie du Nord de l'Île d'Ellesmere: réponse et sensibilité aux changements de climat dans les environnements extrêmes. Thèse de doctorat, Département de biologie, Université Laval, Québec, Qué., 132 pp. (www.theses.ulaval.ca/2005/23082/23082.html.)
- Van Hove, P., D.R. Mueller and W.F. Vincent. 2004. Limnological responses to landscape evolution in the High Arctic. [Abstract H34A-04.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA228. (www.agu.org/meetings/sm04/waissm04.html.)
- Van Opzeeland, I. 2010. Acoustic ecology of marine mammals in polar oceans. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **619**, 332 pp. (Includes paper co-authored by G.B. Stenson.) (<http://epic.awi.de/29698/1/van2010i.pdf>.)
- Van Polanen Petel, T.D., J.M. Terhune, M.A. Hindell and M.A. Giese. 2006. An assessment of the audibility of sound from human transport by breeding Weddell seals (*Leptonychotes weddellii*). *Wildlife Res.*, **33**(4), 275–291. (10.1071/WR05001.)
- Van Simaey, S., H. Brinkhuis, J. Pross and G.L. Williams. 2004. Arctic dinoflagellate migration marks the Oligocene glacial maximum: implications for the Rupelian–Chattian boundary. [Abstract.] *Eos, Trans. AGU*, **85**(47), Fall Meet. Suppl., PP54B-06. (www.agu.org/meetings/fm04/waisfm04.html.)
- Vancoppenolle, M., H. Goosse, A. de Montety, T. Fichefet, B. Tremblay and J. Tison. 2009. Modeling brine and nutrient dynamics in Antarctic sea ice: the case of dissolved silica. [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., C41C-0467. (www.agu.org/meetings/fm09/waisfm09.html.)
- Vancoppenolle, M., H. Goosse, A. de Montety, T. Fichefet, B. Tremblay and J.-L. Tison. 2010. Modeling brine and nutrient dynamics in Antarctic sea ice: the case of dissolved silica. *J. Geophys. Res.*, **115**(C2), C02005. (10.1029/2009JC005369.)
- Vancoppenolle, M. and 10 others (including T. Papakyriakou). 2011. Assessment of radiation forcing data sets for large-scale sea ice models in the Southern Ocean. *Deep-Sea Res. II*, **58**(9–10), 1237–1249. (10.1016/j.dsr2.2010.10.039.)
- Vancouver Sun. 1988a. Canada signs Antarctic Treaty. *Vancouver Sun*, 5 May, A.14.
- Vancouver Sun. 1988b. Diaries bare fear of Antarctic year Series: In the footsteps of Scott. *Vancouver Sun*, 14 January, A.1.
- Vancouver Sun. 1988c. Diaries detail Antarctic odyssey series: in the footsteps of Scott. *Vancouver Sun*, 11 January, A.2.
- Vancouver Sun. 1988d. Wood's Antarctic diaries to be bared in Sun series. *Vancouver Sun*, 9 January, A.2.
- Vancouver Sun. 1989. Yukon company gets Antarctic job. *Vancouver Sun*, 25 August, B.7.
- Vancouver Sun. 1996. Antarctic adventurers home from 'white hell'. *Vancouver Sun*, 1 February, A.6.
- Vancouver Sun. 1997. U.K. sailor recounts four-day Antarctic ordeal: Canadian yachtsman Gerry Roufs is still missing. *Vancouver Sun*, 10 January, A.13.
- Vancouver Sun. 2001. Calgary pilots set for Antarctic rescue. *Vancouver Sun*, 16 April, A.2.
- Vancouver Sun. 2003. Antarctic medical rescues are grounds for Canadian pride. *Vancouver Sun*, 24 September, A.18.
- Vandenbroucke, J. and the IceCube Collaboration (that includes D. Grant). 2010. Measurement of acoustic properties of South Pole ice. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 790, CD-ROM.
- Vanderlinde, K. and 58 others (the SPT Collaboration that includes K. Vanderlinde, T. de Haan, J.P. Dudley, L. Shaw, M.A. Dobbs, G.P. Holder and A. van Engelen). 2010. Galaxy clusters selected with the Sunyaev-Zel'dovich effect from 2008 South Pole Telescope observations. *Astrophys. J.*, **722**(2), 1180–1196. (10.1088/0004-637X/722/2/1180.)

- VanderZwaag, D. 2009. Ocean dumping and the Antarctic: tangled legal currents, sea of challenges. *Antarctic Treaty Summit 2009, 30 November – 3 December 2009, Washington, DC*. Buenos Aires, Antarctic Treaty Secretariat, presentation. (www.atsummit50.aq/media/plenary6-1.ppt.)
- VanderZwaag, D.L. 2011. Ocean dumping and fertilization in the Antarctic: tangled legal currents, sea of challenges. In Berkman, P.A., M.A. Lang, D.W.H. Walton and O.R. Young, eds. *Science diplomacy: Antarctica, science and the governance of international spaces*. Washington, DC, Smithsonian Institution Scholarly Press, 245–251. (www.atsummit50.org/media/book-30.pdf.)
- Vanhellemont, F. and 11 others (including A. Bourassa, K.L. Gilbert, D.N. Turnbull, P. Bernath, C. Boone and K.A. Walker). 2008. Aerosol extinction profiles at 525 nm and 1020 nm derived from ACE imager data: comparisons with GOMOS, SAGE II, SAGE III, POAM III, and OSIRIS. *Atmos. Chem. Phys. (ACP)*, **8**(7), Special Issue, 2027–2037. (10.5194/acp-8-2027-2008.)
- Vanney, J.R., R.K.H. Falconer and G.L. Johnson. 1981. Geomorphology of the Ross Sea and adjacent oceanic provinces. *Mar. Geol.*, **41**(1–2), 73–102. (10.1016/0025-3227(81)90105-5.)
- Varela, D.E., C.J. Pride and M.A. Brzezinski. 2004. Biological fractionation of silicon isotopes in Southern Ocean surface waters. *GBC Global Biogeochem. Cycles*, **18**(1), GB1047. (10.1029/2003GB002140.)
- Varin, T., C. Lovejoy, A.D. Jungblut, W.F. Vincent and J. Corbeil. 2012. Metagenomic analysis of stress genes in microbial mat communities from Antarctica and the High Arctic. *Appl. Environ. Microbiol.*, **78**(2), 549–559. (10.1128/AEM.06354-11.)
- Vasil, C.A., M.J. Polito, W.P. Patterson and S.D. Emslie. 2012. Wanted: dead or alive? Isotopic analysis ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) of *Pygoscelis* penguin chick tissues supports opportunistic sampling. *Rapid Commun. Mass Spectrom.*, **26**(5), 487–493. (10.1002/rcm.5340.)
- Vaughan, D.G., A.P.R. Cooper, J.L. Bamber, M. Giovinetto and J. Russell. 1998. Surface mass balance of Antarctica: delineation of drainage basins by ERS-1 satellite altimetry combined with an updated compilation of field data. *International Symposium on Antarctica and Global Change: Interactions and Impacts, 13–18 July 1997, Hobart, Tasmania, Australia, Vol. 27*. Cambridge, UK, International Glaciological Society, presentation.
- Vaughan, D.G., J.L. Bamber, M. Giovinetto, J. Russell and A.P.R. Cooper. 1999. Reassessment of net surface mass balance in Antarctica. *J. Climate*, **12**(4), 933–946. (10.1175/1520-0442(1999)012<0933:RONSMB>2.0.CO;2.)
- Venegas, S.A., L.A. Mysak and D.N. Straub. 1998. An interdecadal climate cycle in the South Atlantic and its links to other ocean basins. *J. Geophys. Res.*, **103**(C11), 24,723–24,736. (10.1029/98JC02443.)
- Vergani, D.F., J.C. Benedetti, Z.B. Stanganelli, A.L. Jaume, P. Pulsifer and X. Liu. 2004. Desarrollo de sistemas de información geográfica (SIG) y SIG orientado a objetos (SIGOO) para el modelado del impacto de El Niño en la región del Mar de Bellingshausen [Development of geographic information systems (GIS) and object-oriented GIS (GISOO) for modeling the impact of El Niño in the Bellingshausen Sea region]. *Actas del V° Simposio Argentino y I° Latinoamericano sobre Investigaciones Antárticas, 30 Agosto - 3 Septiembre 2004, Buenos Aires, Argentina*. Buenos Aires, Dirección Nacional del Antártico. Instituto Antártico Argentino, CD-ROM, 203BM. [In Spanish] (<http://tinyurl.com/nako83p>.)
- Vergani, D.F., P.L. Pulsifer and A. Fabiana. 2005. Puerto Madryn Workshop 2004: Analysis of El Niño–Southern Oscillation impact in the Southern Ocean: applying digital cartography. *GLOBEC Int. Newsl.*, **11**(2), 24–25. (www.globec.org/downloader.php?id=90.)
- Vergani, D.F., J.C. Labraga, Z.B. Stanganelli and M. Dunn. 2008. The effects of El Niño–La Niña on reproductive parameters of elephant seals feeding in the Bellingshausen Sea. *J. Biogeogr.*, **35**(2), 248–256. (10.1111/j.1365-2699.2007.01780.x.)
- Verleyen, E., D.A. Hodgson, P.R. Leavitt, K. Sabbe and W. Vyerman. 2004. Quantifying habitat-specific diatom production: a critical assessment using morphological and biogeochemical markers in Antarctic marine and lake sediments. *Limnol. Oceanogr.*, **49**(5), 1528–1539. (10.4319/lo.2004.49.5.1528.)

- Vettoretti, G., W.R. Peltier and N.A. McFarlane. 1998. Simulations of Mid-Holocene climate using an atmospheric general circulation model. *J. Climate*, **11**(10), 2607–2627. (10.1175/1520-0442(1998)011<2607:SOMHCU>2.0.CO;2.)
- Viblanç, V.A., A. Mathien, C. Sarau, V.M. Viera and R. Groscolas. 2011. It costs to be clean and fit: energetics of comfort behavior in breeding-fasting penguins *PLoS ONE*, **6**(7), e21110. (10.1371/journal.pone.0021110.)
- Vieira, J.D. and 54 others (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, G.P. Holder, L. Shaw and K. Vanderlinde). 2010. Extragalactic millimeter-wave sources in South Pole Telescope survey data: source counts, catalog, and statistics for an 87 square-degree field. *Astrophys. J.*, **719**(1), 763–783. (10.1088/0004-637X/719/1/763.)
- Viera, V.M., C. le Bohec, S.D. Côté and R. Groscolas. 2006. Massive breeding failures following a tsunami in a colonial seabird. *Polar Biol.*, **29**(8), 713–716. (10.1007/s00300-006-0128-3.)
- Vieregg, A.G. and 39 others (including M. Halpern and C.B. Netterfield). 2012. Optical characterization of the Keck array polarimeter at the South Pole. In Holland, W.S. and J. Zmuidzinas, eds. *Millimeter, submillimeter, and far-infrared detectors and instrumentation for astronomy VI*. Bellingham, WA, International Society for Optical Engineering, 845226. (SPIE Proceedings 8452, Part Two.) (10.1117/12.926639.)
- Villeneuve, V. and D. Mueller. 2000. Life on ice. *CARN Newsl.*, **11**, 1–3. (<http://tinyurl.com/qj2znxp>.)
- Vincent, W.F. 1993. Guest editorial. Poles together. *Antarct. Sci.*, **5**(4), 333. (10.1017/S0954102093000446.)
- Vincent, W.F., ed. 1994. *Newsletter for the Canadian Antarctic Research Program / Bulletin pour le Programme de Recherches Antarctiques du Canada. Vol. 1*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/o9thozo>.)
- Vincent, W.F. 1995. Coldwater limnology; insights from the Arctic and Antarctic. *American Society of Limnology & Oceanography 1995 meeting, Reno, NV, United States, June 11–15, 1995. Program/book of abstracts*. Waco, TX, American Society of Limnology and Oceanography, A-61.
- Vincent, W.F. 1996a. *Environmental management of a cold desert ecosystem: the McMurdo Dry Valleys. Report of a National Science Foundation Workshop held at Santa Fe, New Mexico, 14–17 March 1995*. Reno, NV, University of Nevada. Desert Research Institute. (Special Publication.)
- Vincent, W.F., ed. 1996b. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 2*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/pskf6ro>.)
- Vincent, W.F., ed. 1996c. *Newsletter for the Canadian Antarctic Research Network / Bulletin pour le Réseau Canadien de Recherches Antarctiques. Vol. 3*. Ottawa, Ontario, Canadian Polar Commission. Canadian Committee on Antarctic Research. (<http://tinyurl.com/py49d8l>.)
- Vincent, W.F. 1997. Polar desert ecosystems in a changing climate: a north–south perspective. In Lyons, W.B., C. Howard-Williams and I. Hawes, eds. *Ecosystem processes in Antarctic ice-free landscapes. International Workshop on Polar Desert Ecosystems, 1-4 July 1996, Christchurch, New Zealand*. Rotterdam, A.A. Balkema, 3–14.
- Vincent, W.F., pref. 1999a. *Antarctic and bipolar science: a strategic plan for Canada; a discussion paper / Science antarctique et bipolaire: plan stratégique pour le Canada; document de travail*. Ottawa, Ont., Canadian Polar Commission. Canadian Committee for Antarctic Research, August.
- Vincent, W.F. 1999b. Antarctic biogeochemistry: icy life on a hidden lake. *Science*, **286**(5447), 2094–2095. (10.1126/science.286.5447.2094.)
- Vincent, W. 1999c. Message from the CCAR Chair: working in partnership for Antarctic and bipolar science. *CARN Newsl.*, **8–9**, 3–4. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/8-9.pdf.)

- Vincent, W.F. 2000a. Book reviews. Priscu, John C. [ed.]. 1998. Ecosystem dynamics in a polar desert: the McMurdo Dry Valleys, Antarctica. Antarctic Research Series v. 72. American Geophysical Union. xi + 369 p. US\$70. ISBN 0-87590-884-5. *Limnol. Oceanogr.*, **45**(8), 1888. (<http://tinyurl.com/o25x8aw>.)
- Vincent, W.F. 2000b. Chapter 12. Cyanobacterial dominance in the polar regions. In Whitton, B.A. and M. Potts, eds. *The ecology of cyanobacteria: their diversity in time and space*. Dordrecht, Netherlands, Kluwer Academic Publishers, 321–340. (10.1007/0-306-46855-7_12.)
- Vincent, W.F. 2000c. De la vie dans le lac Vostok? *Recherche*, **2000**, 14–16.
- Vincent, W.F. 2000d. Evolutionary origins of Antarctic microbiota: invasion, selection and endemism. *Antarct. Sci.*, **12**(3), 374–385. (10.1017/S0954102000000420.)
- Vincent, W. 2000e. Letter from the Chair of CCAR. *CARN Newsl.*, **10**, 3. (<http://tinyurl.com/762xo8f>.)
- Vincent, W.F. 2001. Polar microbial ecology. In Löken, O.H. and N.J. Couture, eds. *Subglacial lake and deep ice exploration: Canadian expertise and international opportunities*. Ottawa, Ont., Canadian Polar Commission, May, 25. (http://www.polarcom.gc.ca/english/antarctic/pdf/antarctic_subglacial_en.pdf)
- Vincent, W. 2004a. Life sciences. In Loken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research*. Ottawa, Ont., Canadian Polar Commission, February, 39–41. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/Polar%20Connections.pdf.)
- Vincent, W.F. 2004b. *Microbial ecosystems of Antarctica*. Cambridge, U.K., Cambridge University Press. (Studies in Polar Research.) (10.2277/0521544130.)
- Vincent, W.F. 2007a. Cold tolerance in cyanobacteria and life in the cryosphere. In Seckbach, J., ed. *Algae and cyanobacteria in extreme environments*. Berlin, etc., Springer-Verlag, 287–301. (Cellular Origin, Life in Extreme Habitats and Astrobiology 11.) (10.1007/978-1-4020-6112-7.)
- Vincent, W.F. 2007b. Streams and lakes. In Riffenburgh, B., ed. *Encyclopedia of the Antarctic, Vol. 2*. New York, NY, Routledge. Taylor and Francis Group, 964–964.
- Vincent, W.F. 2009a. Cyanobacteria. In Likens, G.F., ed. *Encyclopedia of inland waters, Vol. 3*. Amsterdam, Elsevier Science Publishers, 226–232. (10.1016/B978-012370626-3.00127-7.)
- Vincent, W.F. 2009b. Effects of climate change on lakes. In Likens, G.F., ed. *Encyclopedia of inland waters, Vol. 3*. Amsterdam, Elsevier Science Publishers, 55–60. (10.1016/B978-012370626-3.00233-7.)
- Vincent, W. 2010. Our melting poles: where life on Earth is changing. *Our Earth, our air, our water, our future. 44th Annual CMOS Congress, 36th Annual Scientific Meeting of CGU, 3rd Joint CMOS-CGU Congress, 31 May–4 June, Ottawa, Ontario. Congress abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 4478, 272. (www_cmos.ca/CongressAbstracts/cong4410.pdf.)
- Vincent, W.F. and C. Belzile. 2003. Biological UV exposure in the polar oceans: Arctic–Antarctic comparisons. In Huiskes, A.H.L., W.W.C. Gieskes, J. Rozema, R.M.L. Schorno, S.M. van der Vies and W.J. Wolff, eds. *VIIIth SCAR International Biology Symposium, 27 August–1 September 2001, Amsterdam, Netherlands. Proceedings*. Leiden, The Netherlands, Backhuys Publishers, 176–181.
- Vincent, W.F. and C. Howard-Williams. 1994. Nitrate-rich inland waters of the Ross Ice Shelf region, Antarctica. *Antarct. Sci.*, **6**(3), 339–346. (10.1017/S0954102094000519.)
- Vincent, W.F. and C. Howard-Williams. 2000. Letters: Life on Snowball Earth. *Science*, **287**(5462), 2421. (10.1126/science.287.5462.2421b.)
- Vincent, W.F. and C. Howard-Williams. 2001. Algae in environments with extreme temperatures. *Nova Hedwigia Beihefte*, **123**, 2001, 33–36.
- Vincent, W.F. and M.R. James. 1996. Biodiversity in extreme aquatic environments: lakes, ponds, and streams of the Ross Sea sector, Antarctica. *Biodivers. Conserv.*, **5**(11), 1451–1471. (<http://tinyurl.com/q7z2vsvy>.)
- Vincent, W.F. and J. Laybourn-Parry, eds. 2008. *Polar lakes and rivers: limnology of Arctic and Antarctic aquatic ecosystems*. Oxford, Oxford University Press.

- Vincent, W. and C. Lovejoy. 2012. Antarctic analogues: microbial ecosystems and comparative biodiversity in the Canadian High Arctic. *Open Science Conference, XXXII SCAR, 16–19 July 2012, Portland, Oregon*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract, digital media. (http://scar2012.geol.pdx.edu/doc/abstracts/Session_26.pdf.)
- Vincent, W.F. and P.J. Neale. 2000. Chapter 6. Mechanisms of UV damage to aquatic organisms. In De Mora, S., S. Demers and M. Vernet, eds. *The effects of UV radiation in the marine environment*. Cambridge, U.K., Cambridge University Press, 149–176. (Environmental Chemistry Series 10.) (10.1017/CBO9780511535444.007.)
- Vincent, W.F. and A. Quesada. 1994. Ultraviolet radiation effects on cyanobacteria: implications for antarctic microbial ecosystems. In Weiler, C.S. and P.A. Penhale, eds. *Ultraviolet radiation in Antarctica: measurements and biological effects*. Washington, DC, American Geophysical Union, 111–124. (Antarctic Research Series 62.)
- Vincent, W.F. and A. Quesada. 1997. Microbial niches in the polar environment and the escape of UV radiation in non-marine habitats. In Battaglia, B., J. Valencia and D. Walton, eds. *Antarctic communities: species, structure and survival*. Cambridge, U.K., Cambridge University Press, 388–396.
- Vincent, W.F. and A. Quesada. 2012. Cyanobacteria in high latitude lakes rivers and seas. In Whitton, B.A., ed. *Ecology of cyanobacteria II: their diversity in space and time*. Dordrecht, etc., Springer, 371–385. (10.1007/978-94-007-3855-3_13.)
- Vincent, W.F. and S. Roy. 1993. Solar ultraviolet-B radiation and aquatic primary production: damage, protection, and recovery. *Environ. Rev.*, **1**(1), 1–12. (10.1139/a93-001.)
- Vincent, A.P. and B.J.S. Tranchant. 1999. Anisotropic turbulent diffusion for ozone transport at 520 K. *J. Geophys. Res.*, **104**(D22), Special Section, 27,209–27,215. (10.1029/1999JD900794.)
- Vincent, W.F., R.W. Castenholz, M.T. Downes and C. Howard-Williams. 1993a. Antarctic cyanobacteria: light, nutrients, and photosynthesis in the microbial mat environment. *J. Phycol.*, **29**(6), 745–755. (10.1111/j.0022-3646.1993.00745.x.)
- Vincent, W.F., M.T. Downes, R.W. Castenholz and C. Howard-Williams. 1993b. Community structure and pigment organisation of cyanobacteria-dominated microbial mats in Antarctica. *Eur. J. Phycol.*, **28**(4), 213–221. (10.1080/09670269300650321.)
- Vincent, W.F., C. Howard-Williams and P.A. Broady. 1993c. Microbial communities and processes in Antarctic flowing waters. In Friedmann, E.I., ed. *Antarctic microbiology*. New York, NY, Wiley-Liss Inc, 543–569.
- Vincent, W.F., I. Laurion and R. Pienitz. 1998a. Arctic and Antarctic lakes as optical indicators of global change. *Ann. Glaciol.*, **27**, 691–696.
- Vincent, W.F., R. Rae, I. Laurion, C. Howard-Williams and J.C. Priscu. 1998b. Transparency of Antarctic ice-covered lakes to solar UV radiation. *Limnol. Oceanogr.*, **43**(4), 618–624. (10.4319/lo.1998.43.4.0618.)
- Vincent, W.F. and 6 others (including R. Pienitz, V. Villeneuve and P.B. Hamilton). 2000a. Ice shelf microbial ecosystems in the High Arctic and implications for life on Snowball Earth. *Naturwiss.*, **87**(3), 137–141. (10.1007/s001140050692.)
- Vincent, W.F., J. Bowman, L. Powell and T. McMeekin. 2000b. Phylogenetic diversity of picocyanobacteria in Arctic and Antarctic ecosystems. In Bell, C.R., M. Brylinsky and P. Johnson-Green, eds. *Microbial biosystems: new frontiers. Proceedings of the 8th International Symposium on Microbial Ecology, 9–14 August 1998, Halifax, Nova Scotia, Canada*. Kentville, N.S., Atlantic Canada Society for Microbial Ecology, 317–322.
- Vincent, W.F., J.A.E. Gibson and M.O. Jeffries. 2001. Ice-shelf collapse, climate change and habitat loss in the Canadian High Arctic. *Polar Rec.*, **37**(201), 133–142. (10.1017/S0032247400026954.)

- Vincent, W., L. Whyte and C. Greer. 2004a. Antarctic microbial ecosystems. In Loken, O.H., N.J. Couture and W.H. Pollard, eds. *Polar connections: planning Canadian Antarctic research*. Ottawa, Ont., Canadian Polar Commission, February, 10–11. (<http://tinyurl.com/oqmdpbo>.)
- Vincent, W.F., D. Mueller, P. van Hove and C. Howard-Williams. 2004b. Glacial periods on early Earth and implications for the evolution of life. In Seckbach, J., ed. *Origins: genesis, evolution and diversity of life*. Dordrecht, The Netherlands, Kluwer Academic Publications, 481–501.
- Vincent, W.F., M. Rautio and R. Pienitz. 2007. Chapter 14. Climate control of underwater UV exposure in polar and alpine aquatic ecosystems. In Ørbæk, J.B., R. Kallenborn, I. Tombre, E.N. Hegseth, S. Falk-Petersen and A.H. Hoel, eds. *Arctic Alpine ecosystems and people in a changing environment*. Berlin, etc., Springer-Verlag, 227–249.
- Vincent, W.F. and 12 others (including G. Clarke). 2008a. Exploration of Antarctic subglacial aquatic environments: environmental and scientific stewardship. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S3.1/O02, 327. (www.nap.edu/catalog.php?record_id=11886.)
- Vincent, W.F., J.E. Hobbie and J. Laybourn-Parry. 2008b. Chapter 1. Introduction to the limnology of high latitude lake and river ecosystems. In Vincent, W.F. and J. Laybourn-Parry, eds. *Polar lakes and rivers: limnology of Arctic and Antarctic aquatic ecosystems*. Oxford, Oxford University Press, 1–24.
- Vincent, W.F., S. MacIntyre, R.H. Spigel and I. Laurion. 2008c. Chapter 4. The physical limnology of high latitude lakes. In Vincent, W.F. and J. Laybourn-Parry, eds. *Polar lakes and rivers: limnology of Arctic and Antarctic aquatic ecosystems*. Oxford, Oxford University Press, 65–82.
- Visser, I.N., T.G. Smith, I.D. Bullock, G.D. Green, O.G.L. Carlsson and S. Imberti. 2008. Antarctic Peninsula killer whales (*Orcinus orca*) hunt seals and a penguin on floating ice. *Mar. Mammal Sci.*, **24**(1), 225–234. (10.1111/j.1748-7692.2007.00163.x.)
- Vodopivec, C., W.P. Mac Cormack, E. Villaamil, A. Curtosi, É. Pelletier and P. Smichowski. 2008. Evidence of pollution with hydrocarbons and heavy metals in the surrounding of Jubany Station. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **571**, 357–364. (<http://epic.awi.de/28602/1/Wie2008b.pdf>.)
- Vogel, S.W. and 7 others (including M. Bouchard). 2005. AITI and GELATI - initiatives to promote education and training for the next generation of educators and scientists during the IPY 2007/08 and beyond. [Abstract.] *Eos, Trans. AGU*, **86**(18), Jt. Assem. Suppl., C42A-04. (www.agu.org/meetings/sm05/waissm05.html.)
- Von den Steinen, K. and W. Barr. 1984. Zoological observations, Royal Bay, South Georgia 1882–1883. Part 2. Penguins. *Polar Rec.*, **22**(137), 145–158. (10.1017/S0032247400005088.)
- Von Frese, R.R.B. and 8 others (including J.W. Kim). 2009. GRACE gravity evidence for an impact basin in Wilkes Land, Antarctica. *Geochem. Geophys. Geosyst.* **G³**, **10**(2), Q02014. (10.1029/2008GC002149.)
- Von Harbou, L., E.A. Pakhomov, C.D. Dubischar, W. Hagen, I. Peeken and U. Bathmann. 2010a. New insights into salp ecology in the Lazarev Sea, Southern Ocean. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 381880, digital media. (<http://tinyurl.com/pp9hws9>.)
- Von Harbou, L., I. Peeken, E.A. Pakhomov, C.D. Dubischar and U. Bathmann. 2010b. The role of salps for carbon export in the Southern Ocean. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 383061, digital media. (www.ipy-osc.no/abstract/383061.)
- Von Harbou, L., C.D. Dubischar, E.A. Pakhomov, B.P.V. Hunt, W. Hagen and U.V. Bathmann. 2011. Salps in the Lazarev Sea, Southern Ocean: I. Feeding dynamics. *Mar. Biol.*, **158**(9), 2009–2026. (10.1007/s00227-011-1709-4)

- Von Savigny, C. 2002. Retrieval of stratospheric ozone density profiles from OSIRIS scattered sunlight observations. Ph.D. thesis, Department of Earth and Space Science, York University, Toronto, Ont., xvi + 168 pp. (www.collectionscanada.gc.ca/obj/s4/f2/dsk4/etd/NQ72017.PDF.)
- Vowinckel, E. 1966. Some estimates about the size and variation of the Antarctic pack ice belt. *Inst. Polar Stud. Rep.*, **19**, 24 pp. (http://kb.osu.edu/dspace/bitstream/handle/1811/38705/IPS_Report_19.pdf.)
- Vowinckel, E. and S. Orvig. 1971. Synoptic heat budget at three polar stations. *J. Appl. Meteorol.*, **10**(3), 387–396. (10.1175/1520-0450(1971)010<0387:SHB ATP>2.0.CO;2.)
- Wadham, J.L. and 12 others (including M.J. Sharp). 2010a. The Antarctic ice sheet as a source of biogenic methane to the atmosphere. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 816, CD-ROM.
- Wadham, J.L. and 8 others (including M. Sharp). 2010b. Biogeochemical weathering under ice: size matters. *GBC Global Biogeochem. Cycles*, **24**(3), GB3025. (10.1029/2009GB003688.)
- Wadham, J.L. and 10 others (including A. Dubnick and M.J. Sharp). 2010c. Examining the potential for methanogenesis in Antarctic subglacial aquatic environments. *Chapman Conference on the Exploration and Study of Antarctic Subglacial Aquatic Environments (SAE), 15–17 March 2010, Baltimore, Maryland, USA*. Washington, DC, American Geophysical Union, Abstract, 34. (www.agu.org/meetings/chapman/2010/ccall/pdf/Program_Book.pdf.)
- Wadham, J.L. and 10 others (including M.J. Sharp). 2010d. Large methane reserves beneath Antarctica? *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, B54D-03, digital media. (www.agu.org/cgi-bin/wais?ss=B54D-03.)
- Wadham, J.L. and 12 others (including A. Dubnick and M.J. Sharp). 2012. Potential methane reservoirs beneath Antarctica. *Nature*, **488**(7413), 633–637. (10.1038/nature11374.)
- Waechter, B.F. and C.J. Williams. 1999. Snowdrift design guidance for the new South Pole station. In Zufelt, J.E., ed. *Cold regions engineering: putting research into practice. 10th International Conference on Cold Regions Engineering, 16–19 August 1999, Lincoln, NH. Proceedings*. Reston, VA, American Society of Civil Engineers, 57–68. (<http://tinyurl.com/og45g97>; <http://tinyurl.com/nvussxu>.)
- Waechter, B.F., R.J. Sinclair, G.D. Schuyler and C.J. Williams. 1997. Snowdrift control design: application of CFD simulation techniques. In Izumi, M., T. Nakamura and R.L. Sack, eds. *Snow engineering: recent advances*. Rotterdam, A.A. Balkema, 511–516.
- Wählin, A.K., H. Alsén, G. Björk, C. Nohr and X. Yuan. 2010. Flow of Circumpolar Deep Water and glacier melt water in the Amundsen Sea. *Polar Science - Global Impact, International Polar Year Oslo Science Conference, 8–12 June 2010, Oslo, Norway*. Oslo, Research Council of Norway. IPY-OSC Secretariat, Abstract 379392, digital media. (www.ipy-osc.no/abstract/379392.)
- Walker, K., C. Boone, R. Skelton, S. McLeod, P. Bernath, K. Strong and T. McElroy. 2006. The Atmospheric Chemistry Experiment (ACE): recent validation results. *40th CMOS Congress, Weather, Oceans and Climate, Exploring the Connections, 29 May–1 June 2006, Toronto, Ontario. Abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, 1DPA2.24. (www.cmos.ca/CongressAbstracts/cong4006.pdf.)
- Walker, T.R. 2005a. Distribution of oxygen, sulfides and optimum temperature for sulfate reduction in Antarctic marine sediments. *Pol. Polar Res.*, **26**(3), 215–230. (www.polish.polar.pan.pl/ppr26-3.htm.)
- Walker, T.R. 2005b. Vertical organic inputs and bio-availability of carbon in an Antarctic coastal sediment. *Pol. Polar Res.*, **26**(2), 91–106. (www.polish.polar.pan.pl/ppr26/ppr26-091.pdf.)
- Walker, R.T. and D.M. Holland. 2007. A two-dimensional coupled model for ice shelf–ocean interaction. *Ocean Model.*, **17**(2), 123–139. (10.1016/j.ocemod.2007.01.001.)
- Wall, D.H. and 6 others (including W.F. Vincent). 2011. Editorial. Long-term ecosystem networks to record change: an international imperative. *Antarct. Sci.*, **23**(3), 209. (10.1017/S0954102011000319.)

- Walton, D.W.H. 2008. Book reviews. South of sixty: life on an Antarctic base, M. Warr. Antarctic Memories Publishing, Prince George, Canada, 2006. ISBN 13 978-0-9738504-0-6, 188 pp, CA\$24.95. *Antarct. Sci.*, **20**(2), 208. (10.1017/S0954102008001077.)
- Walton, D.W.H., W.F. Vincent, M.H. Timperley, I. Hawes and C. Howard-Williams. 1997. Synthesis: polar deserts as indicators of change. In Lyons, W.B., C. Howard-Williams and I. Hawes, eds. *Ecosystem processes in Antarctic ice-free landscapes*. Rotterdam, A.A. Balkema, 275–279.
- Walton, E.L. and C.D.K. Herd. 2007a. Dynamic crystallization of shock melts in Allan Hills 77005: Implications for melt pocket formation in Martian meteorites. *Geochim. Cosmochim. Acta*, **71**(21), 5267–5285. (10.1016/j.gca.2007.09.002.)
- Walton, E.L. and C.D.K. Herd. 2007b. Localized shock melting in lherzolitic shergottite Northwest Africa 1950: comparison with Allan Hills 77005. *Meteor. & Planet. Sci.*, **42**(1), 63–80. (<http://tinyurl.com/o3kxwoa>.)
- Walton, E.L., P.J. Jugo, C.D.K. Herd and M. Wilke. 2010. Martian regolith in Elephant Moraine 79001 shock melts? Evidence from major element composition and sulfur speciation. *Geochim. Cosmochim. Acta*, **74**(16), 4829–4843. (10.1016/j.gca.2010.04.065.)
- Wang, H. and P. Wu. 2006. Effects of lateral variations in lithospheric thickness and mantle viscosity on glacially induced surface motion on a spherical, self-gravitating Maxwell Earth. *Earth Planet. Sci. Lett.*, **244**(3–4), 576–589. (10.1016/j.epsl.2006.02.026.)
- Wang, Y., L.A. Mysak and N.T. Roulet. 2005. Holocene climate and carbon cycle dynamics: experiments with the “green” McGill Paleoclimate Model. *GBC Global Biogeochem. Cycles*, **19**(3), GB3022. (10.1029/2005GB002484.)
- Wang, X.L., V.R. Swail and F.W. Zwiers. 2005. Climatology and changes of extra-tropical storm tracks and cyclone activity: comparison of ERA-40 with NCEP/NCAR Reanalysis for 1958–2001. In Dunkley, R., ed. *Sea to sky/Entre ciel et mer. 39th CMOS Congress/39ième Congrès de la SCMO, 31 May–03 June/31 mai–03 juin, 2005, Vancouver/Richmond, British Columbia. Program and Abstracts/Programme et résumés*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 4B2.3, 150–151. (www.cmos.ca/CongressAbstracts/cong3905.pdf.)
- Wang, X., H. Xie, G. Ferreyra and G. Yang. 2009. Mesocosm-simulated effects of increasing temperature and ultraviolet-B radiation on the CO₂ system in sub-Arctic coastal water. *CMOS Congress 2009, Sea and Sky Come to Life, Canadian Meteorological and Oceanographical Society, 31 May – 4 June 2009, Halifax, Nova Scotia. Program and abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 2883, digital media. (<http://tinyurl.com/npvzmyyp>.)
- Wang, X., G.-P. Yang, D. López, G. Ferreyra, K. Lemarchand and H. Xie. 2010. Late autumn to spring evolutions of water-column dissolved organic and inorganic carbon in the Scholaert Channel, West Antarctic. *Antarct. Sci.*, **22**(2), 145–156. (10.1017/S0954102009990666.)
- Wang, X. and D.V. Michelangeli. 2006. A review of polar stratospheric cloud formation. *China Particuol.*, **4**(6), 261–271. (10.1016/S1672-2515(07)60275-9.)
- Wang, Z. and L.A. Mysak. 1998. A simple coupled atmosphere–ocean–sea ice–land surface model for climate and paleoclimate studies. [Abstract.] *Eos, Trans. AGU*, **79**(45), Fall Meet. Suppl., F260. (www.agu.org/meetings/fmarchive/waisfm98.html.)
- Wang, Z. and L.A. Mysak. 2000. A simple coupled atmosphere–ocean–sea ice–land surface model for climate and paleoclimate studies. *J. Climate*, **13**(6), 1150–1172. (<http://tinyurl.com/qgofnva>.)
- Ward, B.B., J. Granger, M.T. Maldonado and M.L. Wells. 2003. What limits bacterial production in the suboxic region of permanently ice-covered Lake Bonney, Antarctica? *Aquat. Microbial Ecol.*, **31**(1), 33–47. (www.int-res.com/articles/ame2003/31/a031p033.pdf.)
- Ward, B.B., J. Granger, M.T. Maldonado, K.L. Casciotti, S. Harris and M.L. Wells. 2005. Denitrification in the hypolimnion of permanently ice-covered Lake Bonney, Antarctica. *Aquat. Microbial Ecol.*, **38**(3), 295–307. (www.int-res.com/articles/ame2004/38/a038p295.pdf.)

- Wardell, L.J., P.R. Kyle and C. Chaffin. 2004. Carbon dioxide and carbon monoxide emission rates from an alkaline intra-plate volcano: Mt. Erebus, Antarctica. *J. Volcanol. Geotherm. Res.*, **131**(1–2), 109–121. (10.1016/S0377-0273(03)00320-2.)
- Warr, M. 2005. *South of Sixty: life on an Antarctic base*. Prince George, B.C., Antarctic Memories Publishing.
- Wasilowska, A., I. Schloss and M. Rzepecki. 2012. A tale of two bays: first attempts to compare Admiralty Bay and Potter Cove. *4th IMCOAST Workshop, 16–20 April, Buenos Aires*. Bremerhaven, Alfred Wegener Institute for Polar and Marine Research (AWI), presentation. (<http://tinyurl.com/bu5x19z>.)
- Watanabe, M. and 6 others (including D.J. McEwen). 2000. The ionospheric response to interplanetary magnetic field variations: evidence for rapid global change and the role of preconditioning in the magnetosphere. *J. Geophys. Res.*, **105**(A10), 22,955–22,977. (10.1029/1999JA000433.)
- Watanabe, M., A. Kadokura, N. Sato and T. Saemundsson. 2007. Absence of geomagnetic conjugacy in pulsating auroras. *Geophys. Res. Lett.*, **34**(15), L15107. (10.1029/2007GL030469.)
- Watanabe, M., A. Kadokura, N. Sato and T. Saemundsson. 2009. Absence of geomagnetic conjugacy in pulsating auroras. [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., SM24A-01. (www.agu.org/meetings/fm09/waisfm09.html.)
- Watanabe, W. 2005a. *Multimedia object design: Cybercartographic Atlas of Antarctica user interface*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies. Geomatics and Cartographic Research Centre.
- Watanabe, W. 2005b. *Multimedia object: logo design. Cybercartographic Atlas of Antarctica, Cybercartographic Atlas of Canada's Trade with the World, and the Cybercartography and the New Economy Project*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies. Geomatics and Cartographic Research Centre.
- Watkins, N.D. and B.M. Gunn. 1971. Petrology, geochemistry, and magnetic properties of some rocks dredged from the Macquarie Ridge. *New Zeal. J. Geol. Geophys.*, **14**(1), 153–168. (10.1080/00288306.1971.10422468.)
- Watters, B.R., J.R. Krynauw and D.R. Hunter. 1991. Volcanic rocks of the Proterozoic Jutulstraumen Group in western Dronning Maud Land, Antarctica. In Thomson, M.R.A., J.A. Crame and J.W. Thomson, eds. *Geological evolution of Antarctica*. Cambridge, U.K., etc., Cambridge University Press, 41–46. (World and Regional Geology 1.)
- Watts, R. 2007. Explorer uncovered Antarctic's mysteries. *Times Colonist [Victoria]*, 19 February, C.2.
- Weatherwax, A.T. and 6 others (including H.B. Vo). 1999. A dayside ionospheric absorption perturbation in response to a large deformation of the magnetopause. *Geophys. Res. Lett.*, **26**(4), 517–520. (10.1029/1999GL900017.)
- Weaver, A. 2002. Next collapse of Antarctic ice is coming soon. *Times Colonist [Victoria]*, 3 April, A.11.
- Weaver, A.J. 2005. Climate change associated with melting events in the Northern and Southern Hemispheres. *Suki Manabe Symposium, Building the Earth Information System, 85th AMS Annual Meeting, 9–13 January 2005, San Diego, CA*. Boston, MA, American Meteorological Society, abstract,J1.2. (http://ams.confex.com/ams/Annual2005/techprogram/paper_83504.htm)
- Weaver, A.J. and P.U. Clark. 2004. Climate change associated with melting events in the Northern and Southern Hemisphere. [Abstract GC11A-01.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA135. (www.agu.org/meetings/sm04/waissm04.html.)
- Weaver, A.J. and 14 others (including M. Eby, E.C. Wiebe, T.L. Ewen, A.F. Fanning, A. MacFadyen, H.D. Matthews, K.J. Meissner, O. Saenko, A. Schmittner and M. Yoshimori). 2001. The UVic earth system climate model: model description, climatology, and applications to past, present and future climates. *Atmos.–Ocean*, **39**(4), North Waters/Eau du nord, 361–428. (10.1080/07055900.2001.9649686.)

- Weaver, A.J., O.A. Saenko, P.U. Clark and J.X. Mitrovica. 2003. Meltwater pulse 1A from Antarctica as a trigger of the Bølling–Allerød warm interval. *Science*, **299**(5613), 1709–1713. (10.1126/science.1081002.)
- Weaver, S.D., C.J. Adams, R.J. Pankhurst and I.L. Gibson. 1992. Granites of Edward VII Peninsula, Marie Byrd Land: anorogenic magmatism related to Antarctic–New Zealand rifting. *Trans. R. Soc. Edinb.*, **83**(1–2), Earth Sci., 281–290. (GSA Special Paper 272.) (10.1017/S0263593300007963.)
- Webb, S.J. and M.E. Zolensky. 1987. Characterization of interplanetary dust particles from Antarctic ice samples. *Eighteenth Lunar and Planetary Science Conference, 16–20 March 1987, Houston, Texas. Abstracts.* Houston, TX, Lunar and Planetary Institute, 1066–1067. (LPI Contribution No.624.) (Abstract 1544.) (www.lpi.usra.edu/meetings/lpsc1987/pdf/1544.pdf.)
- Webster, J.G., K.L. Brown and W.F. Vincent. 1994. Geochemical processes affecting meltwater chemistry and the formation of saline ponds in the Victoria Valley and Bull Pass region, Antarctica. *Hydrobiologia*, **281**(3), 171–186. (10.1007/BF00028680.)
- Webster, N. 2007. In the footsteps of Shackleton - one of the great ones: famous Antarctic explorer exhibited extreme coolness under pressure. *Gazette [Montréal]*, 9 September, A.17.
- Wehrle, V.A., H.C. Webster and A.A. Fratpietro. 2002. A systematic methodology for selecting the science-optimized orbit for the Atmospheric Chemistry Experiment Mission. *Can. Aeronaut. Space J.*, **48**(1), 25–29. (10.5589/q02-005.)
- Weis, D. 2006. Geochemical constraints on the 120 myr history of the Kerguelen plume; new insights from high-precision Pb isotopes. [Abstract.] *Geochim. Cosmochim. Acta*, **70**(18), Supplement, Goldschmidt Conference 2006, A694. (10.1016/j.gca.2006.06.1510.)
- Weis, D. and 8 others (including J.S. Scoates). 2002. Trace of the Kerguelen mantle plume: evidence from seamounts between the Kerguelen Archipelago and Heard Island, Indian Ocean. *Geochem. Geophys. Geosyst. G³*, **3**(6), 1–27. (10.1029/2001GC000251.)
- Weis, D., S. Doucet, A. Giret, J. Scoates and F. Frey. 2003. Géochimie des îles et du plateau des Kerguelen [Geochemistry of the Kerguelen Islands and Plateau]. *Géologues*, **137**, Spécial DOM-TOM, Océan Indien, 40–51.
- Weis, D., J. de Jong and C. Maerschalk. 2004. High-precision Pb isotope systematics of basalts from the Kerguelen Archipelago: new insights on the Kerguelen plume components. [Abstract, 5.2.46.] *Geochim. Cosmochim. Acta*, **68**(11), Supplement, Goldschmidt Conference 2004, A581. (<http://tinyurl.com/owb4llx>.)
- Weisberg, M.K. and 8 others (including C.D.K. Herd). 2009. The Meteoritical Bulletin, No.96. *Meteor. & Planet. Sci.*, **44**(9), 1355–1397. (10.1111/j.1945-5100.2009.tb01227.x.)
- Weisberg, M.K. and 8 others (including C.D.K. Herd). 2010a. The Meteoritical Bulletin, No.97. *Meteor. & Planet. Sci.*, **45**(3), 449–493. (10.1111/j.1945-5100.2010.01036.x.)
- Weisberg, M.K. and 7 others (including C.D.K. Herd). 2010b. The Meteoritical Bulletin, No.98. *Meteor. & Planet. Sci.*, **45**(9), 1530–1551. (10.1111/j.1945-5100.2010.01119.x.)
- Weiss, B.P. and 6 others (including H. Vali). 1999. Evidence for a low-temperature transfer of ALH84001 from Mars to Earth: support for the panspermia hypothesis. [Abstract B42F-06.] *Eos, Trans. AGU*, **80**(46), Fall Meet. Suppl., F94. (www.agu.org/meetings/fm99/waisfm99.html.)
- Weiss, B.P. and 6 others (including H. Vali). 2000. Reconciliation of magnetic and petrographic constraints on ALH 84001? Panspermia lives on! *Thirty-first Lunar and Planetary Science Conference, 13–17 March 2000, Houston, Texas. Abstracts.* Houston, TX, Lunar and Planetary Institute, Abstract 2078, CD-ROM. (LPI Contribution No.1000) (www.lpi.usra.edu/meetings/lpsc2000/pdf/2078.pdf.)
- Weiss, B.P., H. Vali, F.J. Baudenbacher, S.T. Stewart and J.L. Kirschvink. 2001. Records of an ancient Martian magnetic field in ALH84001. *Thirty-second Lunar and Planetary Science Conference, 12–16 March 2001, Houston, Texas. Abstracts.* Houston, TX, Lunar and Planetary Institute, Abstract 1244, CD-ROM. (LPI Contribution No.1080.) (www.lpi.usra.edu/meetings/lpsc2001/pdf/1244.pdf.)

- Weiss, K., P. Suedfeld, G.D. Steel and M. Tanaka. 2000. Psychological adjustment during three Japanese Antarctic Research Expeditions. *Environ. Behav.*, **32**(1), 142–156. (10.1177/00139160021972478.)
- Welland Tribune. 2000. Arctic and Antarctic eyed possible goldmines for dinosaurs. *Welland Tribune*, A.2.
- Wells, C. 2006. Antarctic hero has western Newfoundland connection. *Western Star [Corner Brook]*, 12 April, 2.
- Welsh, M. and E. Mathieu. 2007. 'Now she is lost'; Toronto-based G.A.P. Adventures' Explorer, which has crossed the Antarctic Ocean for four decades, has become the first ship to sink there. All 154 passengers and crew were rescued after several hours. *Toronto Star*, 24 November, A.1.
- Westerhoff, S. and the IceCube Collaboration. 2010. Observations of cosmic rays and gamma rays with Icecube. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 831, CD-ROM. (the IceCube Collaboration (that includes D. Grant.)
- Westermann, G.E.G., ed. 1993. *The Jurassic of the circum-Pacific*. Cambridge, UK, Cambridge University Press. (World and Regional Geology 3.)
- Western Star [Corner Brook]. 2000. Paper company supports Antarctic trip. *Western Star [Corner Brook]*, 15 December, 4.
- Whiffen, B. 1999. One big pan of ice: the Antarctic ice sheet. *Telegram [St John's]*, 29 November, 9.
- White, J.D.L. and P.-S. Ross. 2011. Maar-diatreme volcanoes: a review. *J. Volcanol. Geotherm. Res.*, **201**(1–4), 1–29. (10.1016/j.jvolgeores.2011.01.010.)
- White, J.D.L., S.E. Bryan, P.-S. Ross, S. Self and T. Thordarson. 2009. Physical volcanology of continental large igneous provinces: update and review. In Thordarson, T., S. Self, G. Larsen, S.K. Rowland and A. Hoskuldsson, eds. *Studies in volcanology: the legacy of George Walker*. London, Geological Society. International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI), 291–321. (Special Publication IAV 2.) (www.mantleplumes.org/WebDocuments/2009IAVCEI_2_Ch16.pdf.)
- White, J.W. and 12 others (including G. Clarke and W. Vincent). 2007. Exploration of Antarctic subglacial aquatic environments: environmental and scientific stewardship. [Abstract.] *Eos, Trans. AGU*, **88**(52), Fall Meet. Suppl., U23B-06. (www.agu.org/meetings/fm07/waisfm07.html.)
- White, K.J. 1986. Book reviews. Australia's Antarctic Policy Options edited by Stuart Harris. CRES Monograph 11, Centre for Resource and Environmental Studies, Australian National University, 1984, pp. xxi, 412. Paper, \$15.95. *Ann. Reg. Sci.*, **20**(2), 98–99. (10.1007/BF01287243.)
- White, K.J. 1994a. Reviews of books. Antarctica: An Economic History of the Last Continent. By Martijn Wilder. Sydney: University of Sydney, 1992. Pp. viii, 155. \$20.00. *J. Econ. Hist.*, **54**(1), 245–246. (10.1017/S002205070001442X.)
- White, K.J. 1994b. Tourism and the Antarctic economy. *Ann. Tourism Res.*, **21**(2), 245–268. (10.1016/0160-7383(94)90043-4.)
- White, N.J., J.A. Church, J.X. Mitrovica, J.G. Cogley, N.A. Gomez and E. Morrow. 2009. Estimates of ice sheet and glacier mass losses and their contributions to sea level from a fingerprinting analysis. [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., G51C-04. (www.agu.org/meetings/fm09/waisfm09.html.)
- White, N. and 14 others (including J.G. Cogley). 2012. Twentieth-century global-mean sea-level rise: is the whole greater than the sum of the parts? *20 years of Progress in Radar Altimetry, 24–29 September 2012, Venice-Lido, Italy. Programme and abstracts*. Noordwijk, European Space Agency, digital media. (www.congrexprojects.com/docs/12c01_docs/20ypra_programme_260712.pdf.)
- White, T.L. 2011. *Hydrocarbon contaminants in freezing ground and permafrost terrain*. Ottawa, Ont., Permafrost Environmental Consulting.

- Whitechurch, H., R. Montigny, J. Sevigny, M. Storey and V.J.M. Salters. 1992. Chapter 5. K-Ar and $^{40}\text{Ar}/^{39}\text{Ar}$ Ages of central Kerguelen Plateau basalts *In* Wise, S.W., Jr and 28 others (including F. Heider and J.H. Sevigny), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, 71–77. (10.2973/odp.proc.sr.120.119.1992.)
- Whitehead, H. and R. Reeves. 2005. Killer whales and whaling; the scavenging hypothesis. *Biol. Lett.*, **1**(4), 415–418. (10.1098/rsbl.2005.0348.)
- Whitehead, H., C.D. MacLeod and P. Rodhouse. 2003. Differences in niche breadth among some teuthivorous mesopelagic marine mammals. *Mar. Mammal Sci.*, **19**(2), 400–406. (10.1111/j.1748-7692.2003.tb01118.x.)
- Whitehead, R.F., S.J. de Mora and S. Demers. 2000. Chapter 1. Enhanced UV radiation – a new problem for the marine environment. *In* De Mora, S., S. Demers and M. Vernet, eds. *The effects of UV radiation in the marine environment*. Cambridge, U.K., Cambridge University Press, 1–33. (Environmental Chemistry Series 10.) (10.1017/CBO9780511535444.002.)
- Whitehorse Star. 2002. Canada under fire for failing to ratify Antarctic deal after 10 years. *Whitehorse Star*, 14 January, 15.
- Whitehorse Star. 2010. Canadian Antarctic artifacts bring in \$600,000 at auction, double what expected. *Whitehorse Star*, 23 September, 13.
- Whitehouse, M. 2010. A six-metre-deep crevasse could easily have ended Antarctic trek: Meagan McGrath. *Sudbury Star*, 19 January.
- Whitehouse, P., M. Bentley, G.A. Milne, A.M. Le Brocq, M. King and I. Thomas. 2010. A new glacial isostatic adjustment model for Antarctica. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, G34A-05, digital media. (www.agu.org/cgi-bin/wais?ss=G34A-05.)
- Whitehouse, P., M. Bentley, A. le Brocq and G. Milne. 2011a. A new deglacial model for Antarctica. *11th International Symposium on Antarctic Earth Sciences, 10–15 July 2011, Edinburgh. Programme and abstracts*. Edinburgh, U.K., University of Edinburgh. School of GeoSciences, 243. (www.isaes2011.org.uk/abstracts_v4_20_07_2011.pdf.)
- Whitehouse, P., M. Bentley, A. le Brocq, G. Milne, M. King and I. Thomas. 2011b. A new glacial Isostatic adjustment model for Antarctica. *Geophys. Res. Abstr.*, **13**, 2011 EGU Gen. Assem., EGU2011-9062. (<http://meetingorganizer.copernicus.org/EGU2011/EGU2011-9062.pdf>.)
- Whitehouse, P., G. Milne, I. Thomas, M. King and M. Bentley. 2011c. Using GPS data to constrain GIA models in Antarctica. *11th International Symposium on Antarctic Earth Sciences, 10–15 July 2011, Edinburgh. Programme and abstracts*. Edinburgh, U.K., University of Edinburgh. School of GeoSciences, 193. (www.isaes2011.org.uk/abstracts_v4_20_07_2011.pdf.)
- Whitehouse, P., M.J. Bentley, G.A. Milne, M.A. King and I.D. Thomas. 2012a. A new glacial isostatic adjustment model for Antarctica: calibrated and tested using observations of relative sea-level change and present-day uplift rates. *The Geophysics of the Cryosphere and Glacial Products: Properties, Processes and Technical Advances, 9–10 February 2012, Burlington House, London, UK. Abstract booklet*. Swansea, Swansea University. British Geophysical Association, Royal Astronomical Society, International Glaciological Society and The Geological Society, Abstract 64A105, digital media. (www.swan.ac.uk/media/BGA-NAG-Booklet-2012.pdf.)
- Whitehouse, P.L., M.J. Bentley, G.A. Milne, M.A. King and I.D. Thomas. 2012b. A new glacial isostatic adjustment model for Antarctica: calibrated and tested using observations of relative sea-level change and present-day uplift rates. *Geophys. J. Int.*, **190**(3), 1464–1482. (10.1111/j.1365-246X.2012.05557.x.)

- Whitehouse, P.L., M.J. Bentley, G.A. Milne, M.A. King and I.D. Thomas. 2012c. A new glacial isostatic adjustment model for Antarctica: calibrated and tested using observations of relative sea-level change and present-day uplift rates. *Moving plates and melting icecaps: processes and forcing factors in geology*, 4th International Geological Belgica Meeting 2012 (GB2012), 11–14 September 2012, Brussels, Belgium. Brussels, Geologica Belgica, Abstract P_S1_1. (<http://tinyurl.com/mdbhcho>.)
- Whiticar, M.J. and E. Suess. 1998. The cold carbonate connection between Mono Lake, California and the Bransfield Strait, Antarctica. *Aquat. Geochem.*, **4**(3–4), 429–454. (10.1023/A:1009696617671.)
- Whiticar, M.J., J.R. Melton, J.O. Kaplan and H. Schaefer. 2008. Stable isotope constraints of atmospheric methane budgets. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., B24A-03. (www.agu.org/meetings/fm08/waisfm08.html.)
- Whitworth, E. and 7 others (C. Dormann, J.P. Fiset, S. Caquard, B. Woods, A. Hadziomerovic, A. Hayes and R. Biddle). 2005. *Multimedia object: ice core quest video*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies. Geomatics and Cartographic Research Centre.
- Whyte, L.G. and 6 others (including A. Schultz, D. Labbé and C.W. Greer). 2002. Prevalence of alkane monooxygenase genes in Arctic and Antarctic hydrocarbon- contaminated and pristine soils. *FEMS Microbiol. Ecol.*, **41**(2), 141–150. (10.1111/j.1574-6941.2002.tb00975.x.)
- Wiebe, D.V. and 26 others (including E.L. Chapin, M. Halpern, G. Marsden, P.G. Martin, C.B. Netterfield, D. Scott and M.P. Viero). 2009. BLAST observations of resolved galaxies: temperature profiles and the effect of active galactic nuclei on far to submillimeter emission. *Astrophys. J.*, **707**(2), 1809–1823. (10.1088/0004-637X/707/2/1809.)
- Wiencke, C., G.A. Ferreyra, D. Abele and S. Marensi, eds. 2008. The Antarctic ecosystem of Potter Cove, King-George Island (Isla 25 de Mayo): synopsis of research performed 1999–2006 at the Dallmann Laboratory and Jubany Station. *Ber. Polar Meeresforsch./Rep. Pol. Mar. Res.*, **571**, 411 pp. (<http://epic.awi.de/28602/1/Wie2008b.pdf>.)
- Wiggins, G.B. 2002. Biogeography of amphipolar caddisflies in the subfamily Dicosmoecinae (Trichoptera, Limnephilidae). *Dtsch. Entomol. Z.*, **49**(2), 227–259. (10.1002/mmnd.20020490208.)
- Willan, R.C.R. and 6 others (including W.W. Gardiner). 1992. Polymetallic hydrothermal deposits. *Appl. Earth Sci.*, **101**, 169–170.
- Williams, F.M., J. Everard and S. Butt. 1992. *Ice and snow measurements in support of the operational evaluation of the Nathaniel B. Palmer in the Antarctic winter environment*. St. John's, Nfld, National Research Council of Canada, December. (IMD Test Report TR-1992-14.) (prepared for Canadian Coast Guard and Transportation Development Centre by the Institute for Marine Dynamics.)
- Williams, G.L., H. Brinkhuis, M.A. Pearce, R.A. Fensome and J.W. Weegink. 2004. Chapter 5. Southern Ocean and global dinoflagellate cyst events compared; index events for the Late Cretaceous–Neogene. In Exon, N.F., J.P. Kennett and M.J. Malone, eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 189. The Tasmanian gateway: Cenozoic climatic and oceanographic development*. College Station, TX, Texas A & M University. Ocean Drilling Program, 98 pp., CD-ROM. (10.2973/odp.proc.sr.189.107.2004.)
- Williams, P.J. and M.W. Smith. 1989. *The frozen Earth: fundamentals of geocryology. Reprint edition*. Cambridge, U.K., Cambridge University Press.
- Williams, P.J. and M.W. Smith. 1991. *The frozen Earth: fundamentals of geocryology. First paperback edition*. Cambridge, U.K., etc., Cambridge University Press. (Studies in Polar Research.)
- Williams, P.J. 2001. Reviews/comptes rendus. On floating ice. Two years on an Antarctic ice shelf south of 75°S by Joe MacDowall, with a foreword by HRH the Duke of Edinburgh, Edinburgh, Pentland Press, 1999, 314 pp. £20.00 (ISBN 1-85821-720-2). *Can. Geogr.*, **45**(4), 563–565. (10.1111/j.1541-0064.2001.tb01502.x.)
- Williams, P.J. 2002. Contaminants in Freezing Ground Conference: April 14–18, 2002, Hobart, Tasmania. *CARN Newsl.*, **14**, 6–7. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/14.pdf.)

- Williams, R., B.P.V. Hunt, S.R. Davenport and T.D. Lamb. 2011. Population structure, feeding biology and predation impact of midwater fishes in predator feeding areas around Heard and McDonald Islands, Southern Indian Ocean. In Duhamel, G. and D. Welsford, eds. *The Kerguelen Plateau: marine ecosystem and fisheries*. Paris, Société Française d'Ichtyologie, In press.
- Williams, T.D. and S. Rodwell. 1992. Annual variation in return rate, mate and nest-site fidelity in breeding gentoo and macaroni penguins. *Condor*, **94**(3), 636–645. (10.2307/1369249.)
- Williams, T.D., R.P. Wilson, P.D. Boersma and D.L. Stokes. 1995. Penguins: *Spheniscidae*. In Perrins, C.M., W.J. Bock and J. Kikkawa, eds. *Bird families of the world*. Oxford, UK, Oxford University Press, 295 pp.
- Williams, T. and 7 others (including M. Roy, M. Abrahamowicz and B. Tremblay). 2007. Insights into the East Antarctic ice sheet 3.5 to 19 Ma inferred from iceberg provenance. In Cooper, A.K., P. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007*. Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (*U.S. Geol. Surv. Open-File Rep.* 2007-1047.) (Extended Abstract 037.) (<http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea037.pdf>.)
- Williams, T. and 6 others (including M. Roy). 2008. Provenance of ice-rafted debris offshore of East Antarctica and delimitation of source areas. *33rd International Geological Congress, 6–14 August 2008, Oslo, Norway. Abstracts*. Oslo, Norway, International Geological Congress, Abstract AAN01804L, digital media. (6 others) (www.cprm.gov.br/33IGC/1349944.html.)
- Williams, T., T. van de Flierdt, S.R. Hemming, E. Chung, M. Roy and S.L. Goldstein. 2010. Evidence for iceberg armadas from East Antarctica in the Southern Ocean during the late Miocene and early Pliocene. *Earth Planet. Sci. Lett.*, **290**(3–4), 351–361. (10.1016/j.epsl.2009.12.031.)
- Williams, T. and 8 others (including R. Martin). 2011. Isotope geochemistry of circum-Antarctic marine core tops for sub-glacial geology and sediment provenance. *11th International Symposium on Antarctic Earth Sciences, 10–15 July 2011, Edinburgh. Programme and abstracts*. Edinburgh, U.K., University of Edinburgh. School of GeoSciences, 483. (www.isaes2011.org.uk/abstracts_v4_20_07_2011.pdf.)
- Williams, W.J., E.C. Carmack and R.G. Ingram. 2007. Chapter 2. Physical oceanography of polynyas. In Smith, W., Jr. and D. Barber, eds. *Polynyas: windows to the world*. Amsterdam, Elsevier, 55–85. (Oceanography Series 74.) (10.1016/S0422-9894(06)74002-8.)
- Williamson, K. 2003a. Antarctic rescue an adventure for Calgary pilot. *Kingston Whig-Standard*, 23 September, 10.
- Williamson, K. 2003b. Calgary planes take off on daring Antarctic rescue. *Gazette [Montréal]*, 11 September, A.12.
- Williamson, K. 2003c. On a mission of mercy: Calgary pilots launch risky Antarctic rescue. *Calgary Herald*, A.1.
- Williamson, K. 2003d. Pilot reflects on Antarctic rescue. *Leader-Post [Regina]*, A.6.
- Williamson, K. 2003e. Weather grounds Antarctic rescue. *Ottawa Citizen*, 15 September, A.4.
- Williamson, K. and E. Ferguson. 2003. Mission at mercy of brutal weather: Antarctic rescue flight held up for fourth day. *Calgary Herald*, A.6.
- Williamson, P. and 9 others (including D.W.R. Wallace and K. Denman). 2012. Ocean fertilization for geoengineering: a review of effectiveness, environmental impacts and emerging governance. *Process Safe. Environ. Protect.*, **90**(6), 475–488. (10.1016/j.psep.2012.10.007.)
- Williamson, R. and 74 others (the SPT Collaboration that includes K. Vanderlinde, T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder and L. Shaw). 2011. A Sunyaev-Zel'dovich-selected sample of the most massive galaxy clusters in the 2500 deg² South Pole Telescope survey. *Astrophys. J.*, **738**(2), 139. (10.1088/0004-637X/738/2/139.)

- Willis, M., T. Wilson and T. James. 2003a. Horizontal crustal motions in the Antarctic interior; comparison of GPS measurements and post-glacial rebound model predictions. [Abstract.] *Terra Nostra [Bonn]*, **2003-4**, 9th Int. Symp. on Ant. Earth Sci., 340–341.
- Willis, M.J., T.S. James and T.J. Wilson. 2003b. Horizontal crustal motions in the Antarctic interior: comparison of GPS measurements and post-glacial rebound model predictions. *Geophys. Res. Abstr.*, **5**, EAE03-A-02988. (www.cosis.net/abstracts/EAE03/02988/EAE03-J-02988.pdf)
- Willis, M.J., T.J. Wilson and T. James. 2004a. GPS measurement of neotectonic motions in the Antarctic interior. [Abstract.] *Eos, Trans. AGU*, **85**(47), Fall Meet. Suppl., G41A-07. (www.agu.org/meetings/fm04/waisfm04.html.)
- Willis, M., T. Wilson and T. James. 2004b. Horizontal crustal motions in the Antarctic interior: comparison of GPS measurements and post-glacial rebound model predictions. *XXVIII SCAR Open Science Conference, 26–28 July 2004, Bremen, Germany. Abstracts*. Cambridge, U.K., Scientific Committee on Antarctic Research, S12/O15. (http://dna.gov.ar/mararg/pictr2002/Publicaciones/Bremen_S_12_oral.pdf.)
- Willis, M.J., T.J. Wilson and T. James. 2004c. Neotectonic crustal motions in the Antarctic interior measured by the TAMDEF GPS network. [Abstract G33A-11.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA123. (www.agu.org/meetings/sm04/waism04.html.)
- Willis, M.J., T.J. Wilson and T.S. James. 2006. Bedrock motions from a decade of GPS measurements in southern Victoria Land, Antarctica. [Abstract.] *Eos, Trans. AGU*, **87**(52), Fall Meet. Suppl., G33B-0059. (www.agu.org/meetings/fm06/waisfm06.html.)
- Willis, M.J., T.J. Wilson and T.S. James. 2008a. Constraints on the mantle viscosity of West Antarctica from GPS measurements. In Klepikov, A., ed. *Polar Research: Arctic and Antarctic Perspective in the International Polar Year. SCAR/IASC IPY Open Science Conference, 8–11 July 2008, St. Petersburg, Russia. Abstract volume*. Saint Petersburg, Elektronstandart-Print Joint-Stock Company. Arctic and Antarctic Research Institute, Abstract S4.1/P27, 399.
- Willis, M.J., T.J. Wilson and T.S. James. 2008b. GPS-constrained glacial isostatic adjustment models for West Antarctica: implications for ice sheet mass balance measurements. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., G31A-0642. (www.agu.org/meetings/fm08/waisfm08.html.)
- Willis, M.J., T.J. Wilson, T.S. James and S. Mazzotti. 2009. GPS constraints on glacial isostatic adjustment models and implications for ice sheet mass balance in West Antarctica. [Abstract.] *Eos, Trans. AGU*, **90**(52), Fall Meet. Suppl., G53B-0672. (www.agu.org/meetings/fm09/waisfm09.html.)
- Willis, M.J. and 6 others (including T.S. James and S. Mazzotti). 2010a. Geodetically-constrained glacial isostatic adjustment models of Antarctica: implications for the mass balance of the West Antarctic ice sheet. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, G34A-03, digital media. (www.agu.org/cgi-bin/wais?ss=G34A-03.)
- Willis, M., T. Wilson, T. James, S. Mazzotti, A. Brown and M. Bevis. 2010b. GPS observations in the Antarctic interior: implications for GIA models and ice sheet mass change. *Open Science Conference, XXXI SCAR, 3–6 August 2010, Buenos Aires, Argentina*. Cambridge, U.K., Scientific Committee on Antarctic Research, Abstract 835, CD-ROM.
- Willis, M. and 6 others (including T. James and S. Mazzotti). 2011. GPS constrained glacial isostatic adjustment models of West Antarctica: implications for the analysis of GRACE mass change measurements. *11th International Symposium on Antarctic Earth Sciences, 10–15 July 2011, Edinburgh. Programme and abstracts*. Edinburgh, U.K., University of Edinburgh. School of GeoSciences, 468. (www.isaes2011.org.uk/abstracts_v4_20_07_2011.pdf.)
- Willmes, S., C. Haas and M. Nicolaus. 2008a. Hemispheric contrasts in the trait of snowmelt on sea ice as indicated through microwave satellite data. [Abstract.] *Eos, Trans. AGU*, **89**(53), Fall Meet. Suppl., C31A-0480. (www.agu.org/meetings/fm08/waisfm08.html.)

- Willmes, S., C. Haas and J. Bareiss. 2008b. MeDAntS – a longterm data set on the onset of snowmelt on Antarctic sea ice. *Geophys. Res. Abstr.*, **10**, 2008 EGU Gen. Assem., EGU2008-A-01857. (www.cosis.net/abstracts/EGU2008/01857/EGU2008-A-01857.pdf.)
- Willmes, S., C. Haas and M. Nicolaus. 2009a. The influence of snow properties and meteorological conditions on sea-ice radar backscatter in the Southern Ocean. *Geophys. Res. Abstr.*, **11**, 2009 EGU Gen. Assem., EGU2009-1820. (<http://meetingorganizer.copernicus.org/EGU2009/-1820.pdf>.)
- Willmes, S., C. Haas, M. Nicolaus and J. Bareiss. 2009b. Satellite microwave observations of the interannual variability of snowmelt on sea ice in the Southern Ocean. *J. Geophys. Res.*, **114**(C3), C03006. (10.1029/2008JC004919.)
- Willmes, S., C. Haas, M. Nicolaus and J. Bareiss. 2009c. Satellite microwave observations of the interannual variability of snowmelt on sea ice in the Southern Ocean. *Geophys. Res. Abstr.*, **11**, 2009 EGU Gen. Assem., EGU2009-1821. (<http://meetingorganizer.copernicus.org/EGU2009/-1821.pdf>.)
- Willmes, S., C. Haas and M. Nicolaus. 2010. Hemisphärische Unterschiede im Verlauf der Schneeschmelze auf Meereis. Eine Analyse kombinierter Modell- und Fernerkundungsstudien [Hemispheric differences in snow melt on sea ice: an analysis of combined model and remote sensing studies]. [Abstract.] *Terra Nostra [Bonn]*, **2010-5**, 24. Int. Polartagung, 64. (http://epic.awi.de/35153/14/24-TerraNostra_2010_5.pdf.)
- Willmes, S., C. Haas and M. Nicolaus. 2011. High radar-backscatter regions on Antarctic sea-ice and their relation to sea-ice and snow properties and meteorological conditions. *Int. J. Rem. Sens.*, **32**(14), 3967–3984. (10.1080/01431161003801344.)
- Wilson, C., K. Swadling and J. Gibson. 2002. Understanding the origins of Antarctic freshwater crustaceans. *CARN Newsl.*, **14**, 4–5. (www.polarcom.gc.ca/uploads/Antarctic%20Publications/14.pdf.)
- Wilson, G.S. and 17 others (and the ANDRILL-MIS Science Team that includes D.R. Schmitt). 2007. Preliminary chronostratigraphy for the upper 700 m (upper Miocene–Pleistocene) of the AND-1B drillcore Recovered from beneath the McMurdo Ice Shelf, Antarctica. In Cooper, A.K., P. Barrett, H. Stagg, B. Storey, E. Stump, W. Wise, eds. *Antarctica: a keystone in a changing world. Proceedings of the 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 26 to September 1, 2007*. Washington, DC, National Academies Press. Polar Research Board, National Research Council, U.S. Geological Survey, digital media. (*U.S. Geol. Surv. Open-File Rep.* 2007-1047.) (Extended Abstract 092.) (<http://pubs.usgs.gov/of/2007/1047/ea/of2007-1047ea092.pdf>.)
- Wilson, G. and 6 others (and the ANDRILL-MIS Science Team that includes D.R. Schmitt). 2009. Neogene tectonic and climatic evolution of the western Ross Sea – chronology of events from the AND-1B drill holes. *First Antarctic Climate Evolution Symposium, 7–11 September 2009, Parque de las Ciencias, Granada, Spain*. Granada, Universidad de Granada (UGR). Consejo Superior de Investigaciones Científicas (CSIC). Instituto Andaluz de Ciencias de la Tierra (IACT), Abstract 3504, digital media. (www.apcongress.es/misc/webantartic/docs/resumen/J10-3.00.pdf.)
- Wilson, G.S. and 69 others (including D.R. Schmitt). 2012. Neogene tectonic and climatic evolution of the western Ross Sea, Antarctica - chronology of events from the AND-1B drill hole. *Global Planet. Change*, **96–97**, 189–203. (10.1016/j.gloplacha.2012.05.019.)
- Wilson, J.T. 1961. *IGY: the year of the new moons*. New York, NY, Alfred A. Knopf. (www.archive.org/stream/igytheyearofthen012772mbp/igytheyearofthen012772mbp_djvu.txt.)
- Wilson, J.T. 1966. Are the structures of the Caribbean and Scotia arc regions analogous to ice rafting? *Earth Planet. Sci. Lett.*, **1**(5), 335–338. (10.1016/0012-821X(66)90019-7.)
- Wilson, S.R., K.R. Solomon and X. Tang. 2007. Changes in tropospheric composition and air quality due to stratospheric ozone depletion and climate change. *Photochem. & Photobiol. Sci.*, **6**(3), 301–310. (10.1039/B700022G.)

- Wilson, T.J., T. Paulsen, R. Jarrard, D. Schmitt, S. Henrys and M. Willis. 2008. Stress regime and neotectonic deformation in a glaciated rift system, Antarctica. *33rd International Geological Congress, 6–14 August 2008, Oslo, Norway. Abstracts*. Oslo, Norway, International Geological Congress, Abstract STN02110L, digital media. (www.cprm.gov.br/33IGC/1353009.html.)
- Wilson, T.J. and 8 others (including D.R. Schmitt). 2010. Recent to contemporary stress of the West Antarctic Rift from drill core and volcanic alignment studies. *Abstract of presentation at Fall Meeting, 13–17 December 2010, San Francisco, CA*. Washington, DC, American Geophysical Union, T13F-04, digital media. (www.agu.org/cgi-bin/wais?ss=T13F-04.)
- Windsor Star. 2007. Antarctic wreck survivors flown to Chile. *Windsor Star*, 26 November, D.8.
- Wintle, A.G. and D.J. Huntley. 1979. Thermoluminescence dating of a deep-sea sediment core. *Nature*, **279**(5715), 710–712. (10.1038/279710a0.)
- Winwood, D. 2008a. Doctor leads by example with adventurous fitness: Peace Country doctor on quest to climb continents' highest peaks scales Antarctic mountain. *Times & Transcript [Moncton]*, 14 January, D.2.
- Winwood, D. 2008b. Peace Country doctor on quest to climb continents' highest peaks scales Antarctic mountain. *Whitehorse Star*, 10 January, 12.
- Wise, S.W. and 21 others (including C.P.G. Pereira and E. Schandl). 1987. Early Oligocene ice on the Antarctic continent. *Geol. Soc. Am. Abstr. Prog.*, **19**(7), GSA Annual Meeting and Exposition, 893.
- Wise, S.W. and 22 others (including C.P.G. Pereira and E. Schandl). 1988. Evidence of volcanic ash at a K/T boundary section: Ocean Drilling Program Hole 690C, Maud Rise, Weddell Sea off East Antarctica. *Global catastrophes in Earth history: an interdisciplinary conference on impacts, volcanism, and mass mortality, 20–23 October 1988, Snowbird, UT. Abstracts*. Houston, TX, Lunar and Planetary Institute, 217–218. (LPI Contribution 673.)
- Wise, S.W., Jr and 28 others (including F. Heider and J.H. Sevigny), eds. 1992. *Proceedings of the Ocean Drilling Program: scientific results. Central Kerguelen Plateau: covering Leg 120 of the cruises of the drilling vessel JOIDES Resolution, Fremantle, Australia, to Fremantle, Australia, sites 747–751, 20 February to 30 April 1988; Part 1. Vol. 120*. College Station, TX, Texas A & M University. Ocean Drilling Program, April. (10.2973/odp.proc.sr.120.1992.)
- Withall, R.D. and G.W. Saunders. 2006. Combining small and large subunit ribosomal DNA genes to resolve relationships among orders of the Rhodymeniophycidae (Rhodophyta): recognition of the Acrosymphytales ord. nov. and Sebdeniales ord. nov. *Eur. J. Phycol.*, **41**(4), 379–394. (10.1080/09670260600914097.)
- Witteck, S. 1998. Dreams on ice. Antarctica: one man's wild journey. *Seventh Continent [Montréal]*, **5**, 8–9. (Report on trip by Mike Douglas.)
- Witze, A. 2002. Antarctic ice shelf existed for 9,000 years. *Calgary Herald*, A.3.
- Woehler, E.J., L. Blight and I.D. Bullock. 2010. Ornithological observations at Eckener Point, Antarctic Peninsula. *Polar Rec.*, **46**(3), 279–281. (10.1017/S003224740999012X.)
- Wolf-Welling, T.C.W., E.A. Cowan, J. Daniels, N. Eyles, A. Maldonado and C.J. Pudsey. 2002. Chapter 21. Diffuse spectral reflectance data from rise sites 1095, 1096, and 1101 and Palmer Deep sites 1098 and 1099 (Leg 178, western Antarctic Peninsula). In Barker, P.F., A. Camerlenghi, G.D. Acton, A.T.S. Ramsay and the Shipboard Scientific Party, eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 178. Antarctic glacial history and sea-level change*. College Station, TX, Texas A & M University. Ocean Drilling Program, December, digital media. (10.2973/odp.proc.sr.178.225.2001.)
- Wolfe, A., D. Venkatesan, R. Slawinski, C.G. Maclennan and L.J. Lanzerotti. 1989. Hydromagnetic-band magnetic variations observed in conjugate regions – South Pole and Iqaluit. *Antarct. J. U.S.*, **24**(5), 1989 Review, 258–260. (<http://tinyurl.com/q3q5x6f>.)

- Wolfe, A., D. Venkatesan, R. Slawinski and C.G. MacLennan. 1990. A conjugate area study of Pc 3 pulsations near cusp latitudes. *J. Geophys. Res.*, **95**(A7), 10,695–10,698. (10.1029/JA095iA07p10695.)
- Wolfe, A.P., G.H. Miller, C.A. Olsen, S.L. Forman, P.T. Doran and S.U. Holmgren. 2004. Geochronology of high latitude lake sediments. In Pienitz, R., M.S.V. Douglas and J.P. Smol, eds. *Long-term environmental change in Arctic and Antarctic lakes*. Berlin, etc., Springer-Verlag, 19–52. (Developments in Paleoenvironmental Research 8.) (10.1007/978-1-4020-2126-8_2.)
- Wolfe, S.A. 2007. Dune fields: high latitudes. In Elias, S.A., ed. *Encyclopedia of Quaternary science, Vol. 1*. Amsterdam, Elsevier, 599–607. (10.1016/B0-44-452747-8/00159-9.)
- Wolff, M.A. and 43 others (including M.A. Wolff, T.E. Kerzenmacher, K. Strong, K.A. Walker, M. Toohey, E. Dupuy, P.F. Bernath, C.D. Boone and C.A. McLinden). 2008. Validation of HNO₃, ClONO₂, and N₂O₅ from the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS). *Atmos. Chem. Phys. (ACP)*, **8**(13), Special Issue, 3529–3562. (10.5194/acp-8-3529-2008.)
- Wonik, T. and 12 others (including D.R. Schmitt). 2008. Downhole measurements in the AND-2A Borehole, ANDRILL Southern McMurdo Sound Project, Antarctica. *Terra Ant.*, **15**(1), 57–68. (www.mna.it/english/Publications/TAP/TA_abstracts/TA_15_01_57_ANDRILL_SMS_Downhole_measure.pdf.)
- Wood, G. and E. Jamieson. 1996. *South Pole : 900 miles on foot*. Victoria, B.C., Horsdal & Schubart.
- Woods, B.A. 2004. *M.A. thesis proposal. Terrain rendering analysis for earth science research: using LIDAR data of the Ross Ice Shelf, Antarctica, as a case study*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies. (www.docstoc.com/docs/4245619/M-Sc-Thesis-Proposal-Terrain-Rendering-Analysis-for-Earth.)
- Woods, B.A. 2005. Geo-visualization for geo-science education. M.Sc. thesis, Department of Geography and Environmental Studies, Carleton University, Ottawa, Ont., xiii + 151 pp. (www.collectionscanada.gc.ca/obj/thesescanada/vol2/002/mr10159.pdf.)
- Woods, B.A. and P.L. Pulsifer. 2004. *Multimedia object: multimedia concept slide. Cybercartographic Atlas of Antarctica w/flythrough video and sounds*. Ottawa, Ont., Carleton University. Department of Geography and Environmental Studies. Geomatics and Cartographic Research Centre.
- Woods, B., R. Biddle, S. Caquard, C. Dormann, J.P. Fiset and A. Hayes. 2004a. Neverwinter nights in Antarctica: developing a video game for affective learning. *CAGONT 2004, Canadian Association of Geographers, Ontario Division, 29–30 October 2004, University of Waterloo. Book of abstracts*. Waterloo, Ont., University of Waterloo. Department of Geography and Environmental Management, presentation.
- Woods, B.A., P.L. Pulsifer and D.R.F. Taylor. 2004b. Visualization of earth science spatial data for Antarctic research as part of the Cybercartographic Atlas of Antarctica Project. *XXVIII SCAR Open Science Conference, 26–28 July 2004, Bremen, Germany. Abstracts*. Cambridge, U.K., Scientific Committee on Antarctic Research, S15/O20.
- Woods, B. and 7 others (E. Whitworth, A. Hadziomerovic, J.-P. Fiset, C. Dormann, S. Caquard, A. Hayes and R. Biddle). 2005. Repurposing a computer role playing game for engaging learning. In Kommers, P. and G. Richards, eds. *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2005, 27 June 2005, Montreal, Canada*. Chesapeake, VA, Association for the Advancement of Computing in Education (AACE), 4430–4435.
- Woodward, J., E.C. King and L. Gray. 2007. Radar surveys of the Rutford Ice Stream onset zone, West Antarctica: indications of flow stability and intermittent storminess. *Geophys. Res. Abstr.*, **9**, 2007 EGU Gen. Assem., EGU2007-A-03962. (www.cosis.net/abstracts/EGU2007/03962/EGU2007-J-03962.pdf.)
- Woodwell, G.M., F.T. Mackenzie, R.A. Houghton, M. Apps, E. Gorham and E. Davidson. 1998. Biotic feedbacks in the warming of the Earth. *Climatic Change*, **40**(3–4), 495–518. (10.1023/A:1005345429236.)

- Worby, A.P., C. Fritsen, C. Geiger, P. Heil, K. Meiners and L. Miller, eds. 2011. Antarctic sea ice research during the International Polar Year 2007–2009. *Deep-Sea Res. II*, **58**(9–10), 993–1276. (10.1016/j.dsr2.2010.10.039.)
- Wordie, J.M. 1925. Review. Polar regions. British ("Terra Nova") Antarctic Expedition, 1910–1913. Physiography. (i.) Ross Archipelago, by F. Debenham ; pp. xiii. + 40. (ii.) Beardmore Glacier Region, by C. S. Wright; pp. vii. + 25. (iii.) Robertson Bay and Terra Nova Bay Regions, by R. E. Priestley; pp. x. + 87. London: Harrison & Sons. 1923. 12½ X 9½, pp. xiii.-f 40, vii. + 25, x. + 87. 5s., 5s., 7s. 6d. net. *Geogr. J.*, **65**(4), 361–362. (www.jstor.org/stable/1782535.)
- Wright, C.S. 1913. Notes on ice physics. In Scott, R.F., ed. *Scott's last expedition*. London Smith, Elder & Co, 441–451.
- Wright, C.S. 1921a. *British (Terra Nova) Antarctic Expedition 1910–13. Determinations of gravity*. London, Harrison and Sons Ltd.
- Wright, C.S. 1921b. *British (Terra Nova) Antarctic Expedition 1910–13. Observations on the aurora*. London, Harrison and Sons Ltd.
- Wright, C.S. 1922. Correspondence: Gravity variations *Nature*, **110**(2774), 875. (10.1038/110875a0.)
- Wright, C.S. 1923. *British (Terra Nova) Antarctic Expedition 1910–13. Physiography of the Beardmore Glacier region*. London, Harrison and Sons Ltd.
- Wright, C.S. 1926a. Antarctic weather. *Nature*, **118**(2970), 488–490. (10.1038/118488a0.)
- Wright, C.S. 1926b. Cosmic rays. *Nature*, **117**(2932), 54–56. (10.1038/117054a0.)
- Wright, C.S. 1928. Radio communication and magnetic disturbances. *Nature*, **122**(3086), 961. (10.1038/122961b0.)
- Wright, C.S. 1939. Geophysical research in polar regions. *J. Sci. Instrum. (J. Phys. E)*, **16**(2), 44–46. (10.1088/0950-7671/16/2/303.)
- Wright, C.S. 1940. Terrestrial magnetism and related observations. Part 4. The transmission of wireless signals in relation to magnetic and auroral disturbances. *Australasian Antarctic Expedition 1911–14, Scientific Reports, Series B, Vol. 2*. Sydney, N.S.W., Government Printer, 451–534.
- Wright, C., Sir 1974. Sir Raymond Priestley: an appreciation. *Polar Rec.*, **17**(108), 215–220. (10.1017/S0032247400031880.)
- Wright, C.S. 1993. *Silas: the Antarctic diaries and memoirs of Charles S. Wright*. Columbus, OH, Ohio State University Press. (Edited by Colin Bull and Pat F. Wright.)
- Wright, C.S. and R.E. Priestley. 1922. *British (Terra Nova) Antarctic Expedition 1910–13. Glaciology*. London, Harrison and Sons Ltd.
- Wright, C.S. and R.E. Priestley. 1925. The Ross Barrier and the mechanism of ice movement. *Geogr. J.*, **65**(3), 198–213. (www.jstor.org/stable/1782887.)
- Wright, C.S. and R.E. Priestley. 1931. Antarctic meteorology: review. British Antarctic Expedition 1907-09, under command of Sir Ernest Shackleton. Reports on the scientific investigations. Meteorology. By Edward Kidson. *Geogr. J.*, **77**(1), 61–64. (www.jstor.org/stable/1785125.)
- Wright, C.S. and J.E. Lokken. 1965. Geomagnetic micropulsations in the auroral zones. *Can. J. Phys.*, **43**(7), 1373–1387. (10.1139/p65-131.)
- Wright, D.G. and T.F. Stocker. 1991. A zonally averaged ocean model for the thermohaline circulation. Part I. Model development and flow dynamics. *J. Phys. Oceanogr.*, **21**(12), 1713–1724. (10.1175/1520-0485(1991)021<1713:AZAOMF>2.0.CO;2.)
- Wu, P. 2002. Effects of nonlinear rheology on degree 2 harmonic deformation in a spherical shelf-gravitating earth. *Geophys. Res. Lett.*, **29**(8), 1198. (10.1029/2001GL014109.)

- Wu, P. 2006. Sensitivity of deglaciation induced crustal velocities to radial and lateral viscosity variations in the mantle. *32nd Annual Meeting of the Canadian Geophysical Union, 14–17 May 2006, Banff, Alberta. Program and abstracts.* Calgary, Alta, Canadian Geophysical Union, CD-ROM, 143.
- Wu, P. and H. Wang. 2006. Effects of lateral variations in lithospheric thickness and mantle viscosity on glacially induced surface motion and gravity on a spherical, self-gravitating Maxwell Earth. *Geophys. Res. Abstr.*, **8**, 2006 EGU Gen. Assem., EGU06-A-09973. (<http://tinyurl.com/pn4txn9>.)
- Wu, P.P., G. Kaufmann and E.R. Ivins. 2004. Lateral viscosity variations beneath Antarctica and their implications on regional rebound motions and seismotectonics. [Abstract G33A-13.] *Eos, Trans. AGU*, **85**(17), Jt. Assem. Suppl., JA123. (www.agu.org/meetings/sm04/waissm04.html.)
- Wu, Q. and 6 others (including D. McEwen and W. Guo). 2002. Observation of the mesospheric and lower thermospheric 10-hour wave in the northern polar region. *J. Geophys. Res.*, **107**(A6), 1082. (10.1029/2001JA000192.)
- Wüest, A. and E. Carmack. 2000. A priori estimates of mixing and circulation in the hard-to-reach water body of Lake Vostok. *Ocean Model.*, **2**(1–2), 29–43. (10.1016/S1463-5003(00)00007-X.)
- Xiao Cunde and 6 others (including Y. Cheng). 2005. Signals of Antarctic Circum-polar Wave over the southern Indian Ocean as recorded in an Antarctica ice core. *Chin. Sci. Bull.*, **50**(4), 347–355. (10.1007/BF02897576.)
- Xiao, J. 2001. A model of the transport and sublimation of blowing snow in the atmospheric boundary layer Ph.D. thesis, Department of Earth and Space Science, York University, Toronto, Ont., xxix + 227 pp. (www.collectionscanada.gc.ca/obj/s4/f2/dsk4/etd/NQ67894.PDF.)
- Xie, S. 2006a. *Case Study 06. Cybercartographic Atlas of Antarctica: Domain 1 research questions.* Vancouver, BC, University of British Columbia. School of Library, Archival & Information Studies, International Research on Permanent Authentic Records in Electronic Systems (InterPARES). (InterPARES 2 Project.) (www.interpares.org/display_file.cfm?doc=ip2_cs06_d1_questions.pdf.)
- Xie, S. 2006b. *Case Study 06. Cybercartographic Atlas of Antarctica: Domain 3 research questions.* Vancouver, BC, University of British Columbia. School of Library, Archival & Information Studies, International Research on Permanent Authentic Records in Electronic Systems (InterPARES). (InterPARES 2 Project.) (www.interpares.org/display_file.cfm?doc=ip2_cs06_d3_analysis.pdf.)
- Xie, S. 2007. *Case Study 06. Cybercartographic Atlas of Antarctica: diplomatic analysis. Revised edition.* Vancouver, BC, University of British Columbia. School of Library, Archival & Information Studies, International Research on Permanent Authentic Records in Electronic Systems (InterPARES). (InterPARES 2 Project.) (www.interpares.org/display_file.cfm?doc=ip2_cs06_diplomatic_analysis.pdf.)
- Xu, G., F.A. Frey, D. Weis, J.S. Scoates and A. Giret. 2007. Flood basalts from Mt. Capitole in the central Kerguelen Archipelago: Insights into the growth of the archipelago and source components contributing to plume-related volcanism. *Geochem. Geophys. Geosyst.* **G³**, **8**(6), Q06007. (10.1029/2007GC001608.)
- Xu, X. and 8 others (including A.H. Manson, C.E. Meek, T. Chshyolkova and J.R. Drummond). 2009a. Asymmetry in the interhemispheric planetary wave-tide link between the two hemispheres *J. Atmos. Solar–Terres. Phys.*, **71**(17–18), 1899–1903. (10.1016/j.jastp.2009.07.011.)
- Xu, X. and 7 others (including A.H. Manson, C.E. Meek, T. Chshyolkova and J.R. Drummond). 2009b. Vertical and interhemispheric links in the stratosphere-mesosphere as revealed by the day-to-day variability of Aura-MLS temperature data. *Ann. Geophys. (ANGEO)*, **27**(9), 3387–3409. (<http://tinyurl.com/qerr5th>.)
- Yamashita, C., X. Chu, G.J. Nott and P.J. Espy. 2007. Gravity wave seasonal variations and their influences on polar mesospheric clouds in Antarctica. [Abstract.] *Eos, Trans. AGU*, **88**(23), Jt. Assem. Suppl., SA53A-05. (www.agu.org/meetings/ja07/waissm07.html.)
- Yamashita, C., X. Chu, W.T. Huang, G.J. Nott and P.J. Espy. 2007. Seasonal variations of stratospheric gravity waves in Antarctica and correlations to polar mesospheric cloud brightness in summer. [Abstract.] *Eos, Trans. AGU*, **88**(52), Fall Meet. Suppl., SA21A-0268. (<http://tinyurl.com/l9efobc>.)

- Yamashita, C., X. Chu, H.-L. Liu, P.J. Espy, G.J. Nott and W. Huang. 2009. Stratospheric gravity wave characteristics and seasonal variations observed by lidar at the South Pole and Rothera, Antarctica. *J. Geophys. Res.*, **114**(D12), D12101. (10.1029/2008JD011472.)
- Yang, C., D. Nebert and D.R.F. Taylor. 2011. Establishing a sustainable and cross-boundary geospatial cyber-infrastructure to enable polar research. *Comput. Geosci.*, **37**(11), 1721–1726. (<http://tinyurl.com/plxdt7z>.)
- Yang, D. and O.A. Saenko. 2012. Ocean heat transport and its projected change in CanESM2. *J. Climate*, **25**(23), 8148–8163. (10.1175/JCLI-D-11-00715.1.)
- Yang, J., W.R. Peltier and Y. Hu. 2012. The initiation of modern soft and hard Snowball Earth climates in CCSM4. *Climate Past (CP)*, **8**(3), 907–918. (10.5194/cp-8-907-2012.)
- Yang, S. 2012. Global impacts of the Drake Passage on ocean circulation and climate as modulated by the Isthmus of Panama. M.Sc. thesis, Department of Earth and Planetary Sciences, McGill University, Montréal, Que., xiv + 57 pp. (<http://tinyurl.com/p8cbhsf>.)
- Yang, S. and E.D. Galbraith. 2012a. The Drake Passage opening causes stronger Southern Hemisphere cooling with the presence of a Panama Seaway. *Abstract of presentation at Fall Meeting, 3–7 December 2012, San Francisco, CA*. Washington, DC, American Geophysical Union, PP23C-2061, digital media. (<http://fallmeeting.agu.org/2012/>.)
- Yang, S. and E. Galbraith. 2012b. Global impacts of the Antarctic Circumpolar Current appearance on nutrient distributions and biogeochemistry. *2012 Ocean Sciences Meeting, 20–24 February 2012, Salt Lake City, Utah, USA. Abstract book*. Waco, TX, American Society of Limnology and Oceanography, 426. (Abstract 10258.) (www.sgmeet.com/osm2012/viewabstract2.asp?AbstractID=10258.)
- Yang, S. and E. Galbraith. 2012c. Global impacts of the Antarctic Circumpolar Current appearance on nutrient distributions and biogeochemistry. [Abstract.] *Mineral. Mag.*, **76**(6), Goldschmidt Abstracts 2012, 2566. (<http://goldschmidtabstracts.info/2012/2566.pdf>.)
- Yau, A.W. and H.G. James. 2009. CASSIOPE Enhanced Polar Outflow Probe (e-POP) small satellite mission: space plasma observations and international collaborations. In Miyoshi, Y., N. Terada, I. Shinohara, T. Mukai and M. Hirahara, eds. *Future perspectives of space plasma and particle instrumentation and international collaborations. Proceedings of the International Conference, 1–3 November 2006, Tokyo, Japan*. New York, NY, etc., Springer. American Institute of Physics, 192–195. (AIP Conference Proceedings 1144.) (10.1063/1.3169287.)
- Yeates, G.W., M.B. Scott, S.L. Chown and B.J. Sinclair. 2009. Changes in soil nematode populations indicate an annual life cycle at Cape Hallett, Antarctica. *Pedobiol.*, **52**(6), 375–386. (10.1016/j.pedobi.2009.01.001.)
- Yergeau, É. and C.W. Greer. 2012. Soil microbes in polar environments under climate change. *IPY 2012 From Knowledge to Action Conference, 22–27 April 2012, Montréal, Canada. Program and abstracts*. Ottawa, Ont., Aboriginal Affairs and Northern Development Canada. IPY 2012 Conference Secretariat, Abstract 1479, digital media. (<http://tinyurl.com/pcypeaq>.)
- Yergeau, E. and 8 others. 2009. Environmental microarray analyses of Antarctic soil microbial communities. *ISME J.*, **3**(3), 340–351. (10.1038/ismej.2008.111.)
- Yergeau, E. and 6 others (including C.W. Greer). 2012. Shifts in soil microorganisms in response to warming are consistent across a range of Antarctic environments. *ISME J.*, **6**(3), 692–702. (10.1038/ismej.2011.124.)
- Yokouchi, Y. and 10 others (including P. Fraser). 2008. Global distribution and seasonal concentration change of methyl iodide in the atmosphere. *J. Geophys. Res.*, **113**(D18), D18311. (10.1029/2008JD009861.)
- Yoshimura, Y., Y. Motoyoshi, T. Miyamoto, E.S. Grew, C.J. Carson and D.J. Dunkley. 2004. High-grade metamorphic rocks from Skallevikshalsen in the Lutzow-Holm Complex, East Antarctica: metamorphic conditions and possibility of partial melting. *Polar Geosci.*, **17**, 57–87. (<http://tinyurl.com/ou3dxet>.)

- Youds, M. 2006. 'It's a totally different planet': TRU microbiologist retired to fulfil lifelong dream of Antarctic visit. *Daily News [Kamloops]*, 7 January, A.1.
- Young, B.S. 1993. Reviews/Comptes rendus. Antarctica: Exploration, Perception and Metaphor by PAUL SIMPSON-HOUSLEY, Routledge, London, 1992, xviii + 131 pp, cloth \$68.95 (ISBN 0-41 5-08225-0). *Can. Geogr.*, **37**(4), 379–380 (10.1111/j.1541-0064.1993.tb00395.x.)
- Young, B. 2008. Reviews/Comptes rendus. Arctic Hell-Ship: The Voyage of HMS Enterprise 1850–1855 by William Barr, The University of Alberta Press, Edmonton, 2007, xiv + 318 pp., paper \$34.95 (ISBN 978-0-88864-472-5). Footsteps on the Ice: The Antarctic Diaries of Stuart D. Paine, Second Byrd Expedition edited by M. L. Paine, University of Missouri Press, Columbia, 2007, xxvii + 368 p. cloth US\$34.95 (ISBN 978-0-8262-1741-7). *Can. Geogr.*, **52**(1), 127–129. (10.1111/j.1541-0064.2008.00204_6.x.)
- Young, D. 1998. *Inexpressible Island*. Winnipeg, Man., J.G. Shillingford Publishing. Scirocco Drama.
- Yvon-Lewis, S.A., D.B. King, R. Tokarczyk, K.D. Goodwin, E.S. Saltzman and J.H. Butler. 2004. Methyl bromide and methyl chloride in the Southern Ocean. *J. Geophys. Res.*, **109**(C2), C02008. (10.1029/2003JC001809.)
- Zabarenko, D. 2007. Antarctic's 'full sink' alarms scientists: Southern Ocean so full of carbon dioxide it would speed up global warming. *Toronto Star*, 18 May, A.4.
- Zacharias, Y. 2009a. Canadians break record for trans-Antarctic trip; trio travelled on foot to South Pole in just 33 days. *Nanaimo Daily News*, 8 January, A.12.
- Zacharias, Y. 2009b. Record-setting in trans-Antarctic; three Canadians slash six days off the standard for fastest unassisted journey to the South Pole. *Vancouver Sun*, 8 January, B.1.
- Zachos, J.C., M.-P. Aubry, W.A. Berggren, T. Ehrendorfer, F. Heider and K.C. Lohmann. 1992. Chapter 54. Chemobiostratigraphy of the Cretaceous/Paleocene boundary at site 750, southern Kerguelen Plateau. In Wise, S.W., Jr and 28 others (including F. Heider and J.H. Sevigny), eds. *Proceedings of the Ocean Drilling Program: scientific results, Vol. 120. Central Kerguelen Plateau*. College Station, TX, Texas A & M University. Ocean Drilling Program, April, 961–977. (10.2973/odp.proc.sr.120.188.1992.)
- Zacny, K. and 7 others (including W.H. Pollard). 2011. Testing of the prototype Mars drill and sample acquisition system in the Mars analog site of the Antarctica's Dry Valleys. *Abstract of presentation at Fall Meeting, 5–9 December 2011, San Francisco, CA*. Washington, DC, American Geophysical Union, P42B-02, digital media. (<http://sites.agu.org/fallmeeting/scientific-program/>)
- Zahn, O. and 50 others (the SPT Collaboration that includes T. de Haan, M.A. Dobbs, J.P. Dudley, G.P. Holder, A. van Engelen and K. Vanderlinde). 2012. Cosmic microwave background constraints on the duration and timing of reionization from the South Pole Telescope. *Astrophys. J.*, **756**(1), Article 65. (10.1088/0004-637X/756/1/65.)
- Zakhia, F., A.-D. Jungblut, A. Taton, W.F. Vincent and A. Wilmotte. 2007. Chapter 8. Cyanobacteria in cold environments. In Margesin, R., F. Schinner, J.-C. Marx and C. Gerday, eds. *Psychrophiles: from biodiversity to biotechnology*. Dordrecht, etc., Springer-Verlag, 121–135. (10.1007/978-3-540-74335-4.)
- Zamprelli, P. 2008. Dark, cold and spectacular. *McGill Rep.*, digital media. (<http://reporter.mcgill.ca/2008/09/dark-cold-and-spectacular/>.)
- Zaniewski, K. and J.J.M. van der Meer. 2005. Quantification of plasmic fabric through image analysis. *Catena*, **63**(1), 109–127. (10.1016/j.catena.2005.07.001.)
- Zapol, W.M. and 6 others (including P.W. Hochachka). 1977. Awake breath-hold diving in the Weddell seal. *Antarct. J. U.S.*, **12**(4), 7. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXIIIn4/AJUSvXIIIn4p7.pdf>)
- Zavala, K. 2007. Investigation of silic segregations in the Ferrar dolerite sills using fluid dynamic experiments *Geological Association of Canada Newfoundland Section 2007 Spring Technical Meeting, 19–21 February 2007, St. John's Newfoundland. Abstracts*. digital media. (www.gac-nl.ca/)

- Zavala, K. and G.W. Fisher. 2006. Differentiation of silicic segregations in the Ferrar dolerites, Antarctica. [Abstract.] *Atl. Geol.*, **42**(2–3), 198. (<http://journals.hil.unb.ca/index.php/ag/article/view/2788/3285>.)
- Zavala, K. and G.W. Fisher. 2008. Using melts and least square methods to evaluate differentiation in the Ferrar dolerite sills, Antarctica. *400 years of discoveries, Joint Annual Meeting Québec 2008, AGC/GAC-AMC/MAC-SEG-SGA, 26–28 May 2008, Québec City. Abstracts*. St John's, Nfld, Geological Association of Canada. Memorial University of Newfoundland, Department of Earth Sciences, 187–188. (www.gac.ca/activities/abstracts/2973_Abst...pdf.)
- Zavala, K. and A.M. Leitch. 2008. Formation of silicic segregations of the Ferrar dolerite sills, Antarctica. *400 years of discoveries, Joint Annual Meeting Québec 2008, AGC/GAC-AMC/MAC-SEG-SGA, 26–28 May 2008, Québec City. Abstracts*. St John's, Nfld, Geological Association of Canada. Memorial University of Newfoundland, Department of Earth Sciences, 187. (www.gac.ca/activities/abstracts/2973_Abst...pdf.)
- Zavala, K., G.W. Fisher and A.M. Leitch. 2006. Analysis of silicic segregations in the Ferrar dolerite sills using MELTS-SVD and fluid dynamics experiments. [Abstract.] *Eos, Trans. AGU*, **87**(36), Jt. Assem. Suppl., V41A-24. (www.agu.org/meetings/ja06/waissm06.html.)
- Zavala, K., A.M. Leitch and G.W. Fisher. 2011. Silicic segregations of the Ferrar dolerite sills, Antarctica. *J. Petrol.*, **52**(10), 1927–1964. (10.1093/petrology/egr035.)
- Zhai, X., R.J. Greatbatch and J. Zhao. 2005. Enhanced vertical propagation of storm-induced near-inertial energy in an eddying ocean channel model. *Geophys. Res. Lett.*, **32**(18), L18602. (10.1029/2005GL023643.)
- Zhai, X., H.L. Johnson, D.P. Marshall and O.A. Saenko. 2012. Significant sink of ocean eddy energy near western boundaries and its potential influence on the large scale ocean circulation. *Geophys. Res. Abstr.*, **14**, 2012 EGU Gen. Assem., EGU2012-2117. (<http://tinyurl.com/nc4ebnt>.)
- Zhang, S.P. and G.G. Shepherd. 1999. WINDII thermospheric winds during the April and September 1993 storms. [Abstract SA51B-06.] *Eos, Trans. AGU*, **80**(17), Spring Meet. Suppl., S248. (www.agu.org/meetings/sm99/waissm99.html.)
- Zhao, Z., K. Jezek, L. Gray and R. Forster. 2000. East Antarctic ice streams. [Abstract H62D-18.] *Eos, Trans. AGU*, **81**(48), Fall Meet. Suppl., F438. (www.agu.org/meetings/fm00/waisfm00.html.)
- Zhou, Y. 2005. Profiling and visualizing metadata for multimedia in a geospatial portal. A case study for the cybercartography and the new economy project. M.A. thesis, Department of Geography and Environmental Studies, Carleton University, Ottawa, Ont., xii + 135 pp. (<http://tinyurl.com/mk4fvfv>.)
- Zickfeld, K., J.C. Fyfe, O.A. Saenko, M. Eby and A.J. Weaver. 2007. Response of the global carbon cycle to human-induced changes in Southern Hemisphere winds. *Geophys. Res. Lett.*, **34**(12), L12712. (10.1029/2006GL028797.)
- Zickfeld, K., J.C. Fyfe, M. Eby and A.J. Weaver. 2008a. Comment on "Saturation of the Southern Ocean CO₂ sink due to recent climate change" *Science*, **319**(5863), 570. (10.1126/science.1146886.)
- Zickfeld, K., J.C. Fyfe, M. Eby and A. Weaver. 2008b. Negative feedback of poleward intensifying Southern Hemisphere winds on atmospheric CO₂ in the 21st century. *CMOS 2008 Congress, Water, Weather, Climate: Science Informing Decisions, Canadian Meteorological and Oceanographical Society, 25–29 May 2008, Kelowna, British Columbia. Program and abstracts*. Ottawa, Ont., Canadian Meteorological and Oceanographic Society, Abstract 2430, digital media. (<http://tinyurl.com/ozh42hv>.)
- Zickfeld, K., J.C. Fyfe, M. Eby and A.J. Weaver. 2008c. Negative feedback of poleward intensifying Southern Hemisphere winds on atmospheric CO₂ in the 21st century. *Effects of climate change on the world's oceans: International Symposium, International Council for the Exploration of the Sea (ICES), North Pacific Marine Science Organization (PICES) and Intergovernmental Oceanographic Commission (IOC), Gijón, Spain, 19–23 May 2008. Book of abstracts*. Sidney, B.C., North Pacific Marine Science Organization (PICES), Abstract S2.1-4701, 79. (<http://tinyurl.com/o65ycbm>.)

- Zicus, S. and 10 others (including K. Edwards and D. Hik). 2011. Chapter 4.1. IPY education activities. In Krupnik, I. and 8 others (including D. Hik), eds. *Understanding Earth's polar challenges: International Polar Year 2007–2008*. Edmonton, Alta, CCI Press with University of the Arctic, Rovaniemi, Finland, and ICSU/WMO Joint Committee for International Polar Year 2007–2008, 481–496. (CCI Occasional Publication 69.) (http://library.arcticportal.org/1211/1/IPY_Summary.pdf.)
- Zolensky, M.E., S.J. Webb and K. Thomas. 1987. The search for refractory interplanetary dust particles from preindustrial aged Antarctic ice. *Eighteenth Lunar and Planetary Science Conference, 16–20 March 1987, Houston, Texas. Proceedings*. Houston, TX, Lunar and Planetary Institute, 599–605. (LPI Proceedings A89-10851 01-91.) (www.lpi.usra.edu/meetings/lpsc1987/pdf/1544.pdf.)
- Zucchi, S. and 6 others (including S.M. Bard, R. Richards and C.S. Paetzold). 2008. Gene expression of multixenobiotic resistance transporters P-glycoprotein and MPR2 in the Antarctic emerald rockcod (*Trematomus bernacchii*). [Abstract.] *Mar. Environ. Res.*, **66**(1), 82. (10.1016/j.marenvres.2008.02.029.)
- Zucchi, S., I. Corsi, T. Luckenbach, S.M. Bard, F. Regoli and S. Focardi. 2010. Identification of five partial ABC genes in the liver of the Antarctic fish *Trematomus bernacchii* and sensitivity of ABCB1 and ABCC2 to Cd exposure. *Environ. Pollut.*, **158**(8), 2746–2756. (10.1016/j.envpol.2010.04.012.)
- Zwally, H.J. and M.B. Giovinetto. 1995. Accumulation in Antarctica and Greenland derived from passive-microwave data: a comparison with contoured compilations. *Ann. Glaciol.*, **21**, 123–130.
- Zwally, H.J. and M.B. Giovinetto. 1997. Annual sea level variability induced by changes in sea ice extent and accumulation on ice sheets: an assessment based on remotely sensed data. *Surv. Geophys.*, **18**(2–3), 327–340. (10.1023/A:1006504530582.)
- Zwally, H.J., P. Gloersen, W.J. Campbell and R.O. Ramseier. 1977. Analysis of Antarctic Ice Sheet and sea ice by sequential microwave imagery. [Abstract.] *Eos, Trans. AGU*, **58**(8), 812.
- Zwally, H.J., C.L. Parkinson, F. Carsey, P. Gloersen, W.J. Campbell and R.O. Ramseier. 1979a. Antarctic sea ice variations 1973–75. *NASA Conf. Publ.* CP-2076, 335–340.
- Zwally, H.J., C.L. Parkinson, F.D. Carsey, P. Gloersen, W.J. Campbell and R.O. Ramseier. 1979b. Seasonal variation of total Antarctic sea ice area, 1973–75. *Antarct. J. U.S.*, **14**(5), 102–103. (<https://s3.amazonaws.com/Antarctica/AJUS/AJUSvXIVn5/AJUSvXIVn5p102.pdf>.)
- Zwally, H.J., M. Giovinetto, M. Craven, V. Morgan and I. Goodwin. 1998. Areal distribution of the oxygen-isotope ratio in Antarctica: comparison of results based on field and remotely sensed data. *Ann. Glaciol.*, **27**, 583–590.