

POSTERS

Posters will be displayed all days starting at 09:00 am on November 3 to 12:30 pm on November 6 in the Emerald Room of the Cape Codder Resort and Spa

A. SEA ICE

- A1. **Withdrawn:** Zhongxiang Tian
"Sea ice Observation and Forecast"
- A2. David Babb
"A changing Beaufort ice pack: replacement of multiyear sea ice, changes in the open water season duration and an ice free Beaufort Sea in September 2012"
- A3. Linghan Li
"Sea Ice Variability in the Bering Sea: Cause and Impact"
- A4. Will Perrie
"Wave-ice interactions in the Marginal Ice Zone"
- A5. **Withdrawn:** Louis Renaud-Desjardins
"Impact of North Atlantic waters on the Arctic Sea-Ice in the CCSM version 3 and 4"
- A6. Michael Steele
"Loitering of the Retreating Sea Ice Edge in the Arctic Seas"
- A7. Melinda Webster
"Melt pond evolution on drifting Arctic sea ice"
- A8. Jie Su
"Study on the melt pond fraction of Arctic using CICE model"
- A9. Miae Kim
"Detection of melt ponds on sea ice in the Chukchi Sea in summer season using TerraSAR-X dual-polarization data"
- A10. Minghong Zhang
"Coupling of summer sea ice and interannual variations in the winter atmospheric circulation"
- A11. Sanggyun Lee
"Estimating Arctic sea ice thickness in melting season using microwave satellite sensors"

POSTERS

A. Sea ice, *cont.*

- A12. Annu Oikkonen
"Sea ice dynamics from coastal radar image sequences in the Baltic Sea"
- A13. Alek Petty
"Characterizing Arctic sea ice surface topography and atmospheric form drag using high-resolution IceBridge data"
- A14. Rachel Tilling
"Near Real Time estimates of Arctic sea ice thickness from CryoSat-2"
- A15. Harold Heorton, Daniel Feltham Alexander Wilchinsky
"A New Parameterisation of Frazil and Grease Ice Formation in a Climate Sea Ice Model"
- A16. Harold Heorton, Daniel Feltham, David Schroeder
"The impact of Anisotropy in the Force Balance of the Arctic Sea-Ice cover in a numerical model"
- A17. **Withdrawn:** Amélie Bouchat and Bruno Tremblay
"Reproducing sea-ice deformation distributions with viscous-plastic sea-ice models"
- A18. James Williams, Bruno Tremblay, Jean-Francois Lemieux
"Numerical Instability in a viscous plastic sea-ice model arising from unresolved plastic deformation"
- A19. Ratnaksha Lele and John Toole
"An Investigation into Arctic Sea-Ice Dynamics and Energetics"
- A20. Yukie Hata
"Seasonal dependence in the sea-ice compressive strength"
- A21. Mathieu Plante
"Large scale material properties of land-fast ice"
- A22. Mathilde Jutras
"Impact of sea ice Inertial Oscillations on Sea Ice Mass Balance"
- A23. Jamie Rae
"Arctic cyclones and sea ice in HadGEM3"
- A24. Jiechen Zhao
"The Improvement of Arctic Sea Ice Concentration Forecasting by Nudging Assimilation"
- A25. **Withdrawn:** Qinghua Yang
"Sensitivity of SMOS sea ice thickness data assimilation on atmospheric uncertainty"

POSTERS

A. Sea ice, *cont.*

- A26. Marcel Nicolaus
"Spatial variability and seasonality of light transmission through Arctic sea ice"
- A27. Arnold Song
"Incorporating small-scale heterogeneities into a high-resolution sea ice model"
- A28. Matthew Druckenmiller
"Sea Ice Matters: Science Communication through the SEARCH Sea Ice Action Team"
- A29. Natalia Shakhova
"Methane release from the East Siberian Arctic shelf: issues addressed and questions raised"
- A30. Mischa Ungermann
"The impact of an ITD parameterisation on the quality of model results"
- A31. Bruno Tremblay
"Regional forecast of minimum sea ice extent: a Lagrangian approach"

POSTERS

B. OCEAN MODELING AND OBSERVATIONS #1 (Small- and meso-scale processes)

- B1. Sylvia Cole
"Internal waves and mixing in the Marginal Ice Zone from Ice-Tethered Profilers with Velocity"
- B2. Elizabeth C. Fine
"Microstructure observations of upward turbulent heat fluxes in the Beaufort"
- B3. Yana Bebieva and Mary-Louise Timmermans
"An examination of double-diffusive processes in a mesoscale eddy in the Arctic Ocean"
- B4. Mengnan Zhao
"Vertical scales and dynamics of eddies in the Arctic Ocean's Canada Basin"
- B5. Hayley Dosser
"Arctic Ocean Internal Waves—Connecting Wind, Sea Ice, and Mixing"
- B6. Gordon Zhang
"Internal-tide Generation and Beam-like Onshore Propagation in the Vicinity of Shelfbreak Canyons"
- B7. Sarah Dewey
"A Surface Fresh Layer in the Seasonal Ice Zone"
- B8. Alice Bradley
"Temperature evolution of the upper Arctic Ocean mixed layer prior to the onset of freeze-up"
- B9. Andrey Pnyushkov,
"Mesoscale eddies in the Eurasian Basin of the Arctic Ocean: a view from observations"
- B10. Frederic Dupont
"Dynamic ice embedding in coupled NEMO-CICE"
- B11. Kofan Lu
"Numerical Investigations of the Hydrographic Observations of Chukchi Sea Shelf Using ROMS Model Integrations"

POSTERS

- B. Ocean modeling and observations #1, *cont.* (Small- and meso-scale processes)
- B12. Myers P., X. Hu, A. Holdsworth, C. Pennelly, L. Gillard and J. Marson
"Shelf-Basin exchange in the Labrador Sea and Baffin Bay"
- B13. **Withdrawn:** Tachanat Bhatrasataponkul
"Variability of Freshwater Exports through Fram and Davis Straits from Ocean Reanalyses"
- B14. Cristian Florindo-López
"Changes in Arctic fresh water export: a new proxy from 50 years of hydrographic surveys in the Labrador Sea"
- B15a. Vera Fofonova
"The simulations of the Lena River estuary dynamics"
- B15b. Alexey Fofonov
"Visualization Tools for Analysis of Spatio-temporal Climate Simulation Data"
- B16. Elena Golubeva
"Impact of atmospheric forcing and river discharge on the variability in the East Siberian Arctic shelf hydrography"
- B17. Céline Heuzé
"Pathways of Petermann glacier's meltwaters, Greenland"
- B18. Matthew Asplin
"Wind-forced Propagation of Ocean Waves into the Periphery of the Pack Ice in the Southern Beaufort Sea"
- B19. Amelie Meyer, Arild Sundfjord, Lars H. Smedsrud and Paul A. Dodd
"From winter to summer: oceanographic observations collected during the Norwegian young sea ice cruise (N-ICE2015)"
- B20. Julianne Yip
"Knowledge Infrastructure at 90 Degrees North: The Sustaining Arctic Observing Networks (SAON) Initiative"
- B21. **Withdrawn:** YT Lin TBD
- B22. Annalise Pearson "Observations of thermohaline sound speed structure in the Beaufort Sea in the summer of 2015"
- B23. Mario Hoppmann, et al.
"Ice-Tethered Observatories in the central Arctic: a contribution by the FRAM project (2015-2019)"

POSTERS

C. OCEAN FORM MODELS AND OBSERVATIONS # 2 (Large-scale processes)

- C1. Igor Ashik
"Oceanographic changes in the Arctic Ocean since the 1990s"
- C2. Estanislao Gavilan Pascual Ahuir
"Source-sink driven planetary flows in a polar basin"
- C3. Andrey Proshutinsky, Dmitry Dukhovskoy, Mary-Louise Timmemans,
Richard Krishfield and Johnathan Barber
"Arctic circulation regime changes in the 21st century"
- C4. Dmitry Dukhovskoy
"Greenland freshwater pathways in the sub-Arctic seas: Results from
model experiments with a passive tracer"
- C5. **Withdrawn:** Leon Chafik
"On the Flow of Atlantic Water and Temperature Anomalies in the Nordic
Seas Towards the Arctic Ocean"
- C6. Minghong Zhang
"A future climate change projection of the Arctic atmosphere using the
high-resolution regional atmospheric model PWRP"
- C7. Arash Bigdeli
"Surface ocean properties in MITgcm Arctic regional model"
- C8. James A. Carton, Gennady A. Chepurin, Michael Steele, Sirpa Hakkinen,
and Jinlun Zhang
"Unusual Surface Conditions in Summer, 2015"
- C9. Dominic DiMaggio
"Evaluation of climate model skill in representing upper Arctic Ocean
hydrography for its potential effect on sea ice"
- C10. Maria Luneva
"Effects of tides on the upwelling-downwelling regimes and cross-shelf
exchange in the Arctic shelf Seas"
- C11. Tom Armitage
"Sea level in the Arctic Ocean from satellite radar altimetry"

POSTERS

C. Ocean form models and observations # 2 , cont. (Large-scale processes)

- C12. S. Howard, L. Padman, A. Nguyen, I. Polyakov and A. Pnyushkov
"High-resolution modeling of Arctic baroclinic tides"
- C13. Mi Ok Kwon
"Tidal effect on the sea-ice volume in the Arctic Ocean"
- C14. Subong Lee
"Sensitivity of an ice-ocean coupled model to COREv2 atmospheric forcing over the Arctic Ocean"
- C15. Longjiang Mu, Jinping Zhao
"Analysis on the response of an Arctic ice-ocean coupled model to two different atmospheric reanalysis datasets"
- C16. Paquin, Jean-Philippe
"Estimates of water mass transformation rate in subpolar North Atlantic using different atmospheric forcing data"
- C17. Victor Estella-Perez
"Initial value problem for superficial salinity fields and their impact on the AMOC on decadal timescales"
- C18. Sam Thomas, Andy Ridout
"Time-Varying Arctic Surface Currents from Cryosat-2"
- C19. Myriel Horn
"Link between multidecadal freshwater anomalies in the AO and SPNA"

POSTERS

D. ECOSYSTEM AND BIOGEOCHEMICAL MODELING

- D1. Laura Castro de la Guardia
"Preliminary analysis of a Biogeochemical model (BLING) coupled to the physical ocean sea ice model (NEMO-LIM2)"
- D2. Stephen Elliott
"Physical Control of Distributions of a Key Arctic Copepod in the Northeast Chukchi Sea"
- D3. Zhixuan Feng
"Early ice retreat and ocean warming may shift copepod biogeographic boundary in the Arctic Ocean"
- D4. Brenda Ji
"Quantifying Rates of Biological Production to Better Understand the Carbon Cycle in the Canada Basin"
- D5. Youngjoo Lee
"An assessment of net primary productivity estimates using coupled physical-biogeochemical models in the Arctic Ocean"
- D6. Vibe Schourup-Kristensen
"Arctic primary production in a multi-resolution model"
- D7. Igor Semiletov
"Extreme natural acidification in the East Siberian Arctic Shelf: where modeling is required"
- D8. Zhen Li et al.
"Using a Coupled Ice-Ocean Model Output to Conduct Oil Spill Risk Analysis in the Chukchi Sea Planning Area"