

Polychaetes of New Caledonia

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This list records 286 species and subspecies of polychaetes recorded from New Caledonian waters. This number is certainly an underestimate with several degrees of magnitudes and more than anything reflects our general lack of knowledge on polychaetes in many tropical areas. In Northern Europe, for example—a better known but presumably much less species-rich area—there are around 1.000 polychaete species known.

The “cosmopolitan species issue” deserves some comments. Many earlier authors, one obvious example being Pierre Fauvel, had a very different view on species delimitations and distributions from most polychaete workers today. Fauvel had no problem to include the same species (and cut and paste the descriptions of them!) from France, India and the Pacific Ocean. Subsequent workers followed him and used his Faune de France volumes to identify New Caledonian polychaetes. In this list there is a fair numbers of species that are described from different regions, for example *Terebellides stroemi* that was originally described from Norway by Sars and is today a classical example of a cosmopolitan species or species complex. Today such distributions are usually regarded with suspicion. As we today observe polychaetes with better means, including electron microscopes and molecular tools, there is a clear tendency to split up previous, widely distributed species into different species with more narrow distributions.

There may also be more theoretical reasons behind these differences, relating to differences in species concepts. Unfortunately, however, these were rarely spelled out explicitly and this situation is actually still very much the same today. Concepts based on apomorphies, on morphological differences, or on genetic communication may all give very different results. A simple species list has both its practical and theoretical problems.

List of taxa

ANNELIDA

POLYCHAETA

ALCIOPIDAE Ehlers, 1864

Vanadis augeneri Benham, 1929

PECTINARIIDAE Quatrefages, 1867

Pectinaria antipoda Schmarda, 1861

Pectinaria australis Ehlers, 1904

Amphictene crassa (Grube, 1870)

AMPHINOMIDAE Lamarck, 1818

Amphinome rostrata (Pallas, 1766)

Chloeia flava (Pallas, 1766)

Chloeia fusca Mc Intosh, 1885

Euphrosyne laureata SavignyLamarck, 1818

Eurythoe complanata (Pallas, 1766)

Hipponoa gaudichaudi Audouin & Milne-Edwards, 1833

Notopygos hispida Potts, 1909

Pseudoeurythoeë acarunculata Monro, 1937

APHRODITIDAE Malmgren, 1867

Aphroditae armifera Moore, 1910 *

ORBINIIDAE Hartman, 1942

Scoloplosia minima Rullier, 1972

CAPITELLIDAE Grube, 1862

Capithellethus dispar (Ehlers, 1907)

Dasybranchus caducus (Grube, 1846)

Leiochrides australis Augener, 1914

Mastobranchnus trinchessii Eisig, 1887

Notomastus latericeus Sars, 1850

Pulliella armata Fauvel, 1929

CHAETOPTERIDAE Audouin & Milne Edwards, 1833

Chaetopterus variopedatus (Renier, 1804)

Phyllochaetopterus major Claparède, 1868

CHRYSOPETALIDAE Ehlers, 1864

Bhawania cryptocephala Gravier, 1902

Bhawania goodei Webster, 1884

Chrysopetalum debile (Grube, 1855)

CIRRATULIDAE Ryckholdt, 1851

Audouinia anchylochaeta (Schmarda, 1861)

Audouinia semicineta (Ehlers, 1905)

Audouinia tentaculata (Montagu, 1808)

Cirratulus africanus Gravier, 1906

Cirratulus chrysoderma Claparède, 1868

Cirratulus dasylophius Marenzeller, 1879

Cirriformia semicineta Ehlers, 1905

Dodecaceria fistulicola Ehlers, 1901

Dodecaceria laddi Hartman, 1954

Heterocirrus bioculatus (Keferstein, 1862)

Tharyx dorsobranchialis (Kirkegaard, 1959)

EUNICIDAE Bertholdt, 1827

Aglaurides fulgida (Savigny, 1818)

Amphiro pacifica Rullier, 1972

Arabella iricolor (Montagu, 1804)

Eunice afra paupera Grube, 1878

Eunice afra punctata Peters, 1854

Eunice antennata (Savigny, 1818)

Eunice aphroditois (Pallas, 1788)

Eunice australis Quatrefages, 1866

Eunice cincta (Kinberg, 1865)

Eunice filamentosa Grube, 1856

Eunice gracilis Crossland, 1904

Eunice grubei Gravier, 1900

Eunice indica Kinberg, 1865

Eunice plessisi Rullier, 1972

Eunice siciliensis Grube, 1840

Eunice tentaculata Quatrefages, 1866

Eunice vittata delle Chiaje, 1828

Lunbrinereis impatiens Claparède, 1868

Lunbrinereis inflata Moore, 1911

Lunbrinereis latreilli Audouin & H. Milne Edwards, 1834

Lunbrinereis lynnei Knox, 1951

Lunbrinereis sphaerocephala (Schmarda, 1861)

Lysidice collaris Grube, 1870

Marphysa bernardi Rullier, 1972

Marphysa capensis (Schmarda, 1861)

Marphysa mossambica (Peters, 1854)

Marphysa sanguinea (Montagu, 1815)
Nematonereis unicornis Schmarda, 1861
Protodorvillea biarticulata Day, 1963
Staurocephalus angolana Augener, 1918
Staurocephalus australiensis Benham, 1915
Staurocephalus gardineri Crossland, 1924

FLABELLIGERIDAE Saint-Joseph, 1894

Flabelligera pruvoti Fauvel, 1930
Pherusa swakopiana (Augener, 1918)

GLYCERIDAE Grube, 1850

Eone salvati Rullier, 1972
Glycera gigantea Quatrefages, 1866
Glycera lancadivae Schmarda, 1861
Glycera siphonostoma delle Chiaje,
Glycera tessellata Grube, 1863
Goniada brunnea Treadwell, 1906
Goniada emerita Audouin & H. Milne Edwards, 1833

HESIONIDAE Grube, 1850

Ancistrosyllis constricta Southern, 1921
Hesione intertexta Grube, 1878
Hesione pantherina Risso, 1826
Heteropodarke heteromorpha Hartmann-Schröder, 1962
Leocrates claparedii (Claparède, 1868)
Leocratides filamentosus Ehlers, 1908
Ophiodromus tigrinus Rullier, 1972
Ophiodromus latifrons (Grube, 1878)

MALDANIDAE Malmgren, 1867

Chaponella heterochaeta Rullier, 1972
Euclymene insecta (Ehlers, 1904)

NEPHTHYIDAE Grube, 1850

Nephtys sphaerocirrata Wesenberg, 1949

NEREIDIDAE Johnston, 1865

Ceratonereis pachychaeta Fauvel, 1919
Leonnates crosnieri León-González & Salazar-Vallejo, 2003
Leonnates jousseaumei Gravier, 1899
Leptonereis foli Fauvel, 1930
Neanthes pleijeli Leon-Gonzalez & Salazar-Vallejo, 2003
Nereis costae (Grube, 1840)
Nereis cricognatha Ehlers, 1904
Nereis denhamensis Augener, 1913
Nereis dubia Rullier, 1972
Nereis homogompha Rullier, 1972
Nereis jacksoni Kinberg, 1866
Nereis kauderni Fauvel, 1921
Nereis mirabilis Kinberg, 1866
Nereis trifasciata Grube, 1878
Nereis unifasciata Willey, 1905
Nereis zonata persica Fauvel, 1911
Perinereis amblyodonta Schmarda, 1861
Perinereis cultrifera var. *floridana* (Ehlers, 1868)
Perinereis cultrifera var. *helleri* Grube, 1878
Perinereis cultrifera var. *striolata* Grube, 1878
Perinereis cultrifera var. *typica* Grube, 1840
Perinereis neocaledonica Pruvot, 1930
Perinereis nigropunctata (Horst, 1889)

- Perinereis nuntia* Savigny, 1818
Perinereis pseudocavifrons Fauvel, 1930
Perinereis singaporiensis Grube, 1878
Perinereis vancaurica (Ehlers, 1868)
Platynereis australis (Schmarda, 1861)
Platynereis dumerilii (Audouin & Milne Edwards, 1833)
Platynereis dumerilii var. *ocellata* Pruvot,*
Platynereis hugonis Rullier, 1972
Platynereis pulchella Gravier, 1902
Pseudonereis anomala Gravier, 1901
Pseudonereis gallapagensis Kinberg, 1866
Pseudonereis malasacensis Fauvel,
- NERILLIDAE Levinsen, 1882**
Mesonerilla biantennata pacifica Jouin, 1970
- OPHELIIDAE Malmgren, 1867**
Ammotrypaue aulogaster Rathke, 1843
Armandia intermedia Fauvel, 1902
Armandia lanceolata Willey, 1905
Armandia leptocirris (Grube, 1878)
Polyophthalmus pictus (Dujardin, 1839)
- OWENIIDAE Rioja, 1917**
Owenia fusiformis Delle Chiaje, 1844
- PARAONIDAE Cerruti, 1909**
Aricidea cerrutii Laubier, 1967
- PHYLLODOCIDAE Ørsted, 18511843**
Eteonides Hesionura laubieri (Hartmann-Schröder, 1963)
Eulalia magalaensis Kinberg, 1866
Eulalia viridis (Linné, 1758)
Iospilus phalacroïides Viguiet, 1886
Mystides angolaensis Augener, 1918
Notophyllum splendens (Schmarda,)
Phyllodoce castanea (Marenzeller, 1879)
Phyllodoce fristedti Bergstrom, 1914
Phyllodoce lamelligera (Linné, 1788)
Phyllodoce macrophthalma Schmarda, 1861
Phyllodoce madeirensis Langerhans, 1880
Phyllodoce pruvoti Fauvel, 1930
Phyllodoce quadraticeps Grube, 1878
- PILARGIDAE Saint-Joseph, 1899**
Ancistrosyllis constricta Southern, 1921
- POLYGORDIIDAE Czerniavsky, 1881**
Polygordius triestinus Woltereck, Hempelmann, 1906
- POLYNOIDAE Malmgren, 1867**
Eulepis geayi Fauvel, 1918
Eupolyodontes gulo (Grube, 1855)
Gastrolepidia clavigera Schmarda, 1861
Harmothoe ampullifera (Grube, 1878)
Harmothoe imbricata Linné, 1767
Harmothoe lunulata nigra Aleyos & Sanz, 1905
Harmothoe macrolepidota (Schmarda, 1861)
Harmothoe propinqua (Malmgren, 1867)
Harmothoe turbinata Hanley & Burke, 1991
Harmothoe vesicudenta Hanley & Burke, 1991
Hermenia acantholepis (Grube, 1876)
Heteralentia ptycholepis (Grube, 1878)

Hololepidella nigropunctata (Horst, 1915)
Hyperhalosydna striata (Kinberg, 1856)
Iphione coriolis Hanley & Burke, 1991
Iphione muricata (Savigny, 1818)
Iphione ovata Kinberg, 1856
Iphione treadwelli Pettibone, 1986
Lepidasthenia alba Hartman, 1942
Lepidasthenia elegans Grube, 1840
Lepidasthenia hirsuta Rullier, 1972
Lepidasthenia microlepis Potts, 1910
Lepidonotus arenosus Ehlers, 1901
Lepidonotus carinulatus (Grube, 1870)
Lepidonotus dictyolepis Haswell, 1883
Lepidonotus glaucus (Peters, 1854)
Lepidonotus hedleyi Benham, 1915
Lepidonotus hupferi Augener, 1918
Lepidonotus jukesii Baird, 1865
Lepidonotus permixturus Hanley & Burke, 1991
Lepidonotus salvati Rullier, 1972
Lepidonotus scanlandi Hanley & Burke, 1991
Lepidonotus spinosus Hanley & Burke, 1991
Lepidonotus taeniata Ehlers, 1881
Lepidonotus temisetosus (Gravier, 1902)
Paradyte crinoidicola (Potts, 1910)
Paralepidonotus indicus (Kinberg, 1856)
Scalisetosus levis Marenzeller, 1902
Scalisetosus pellucidus (Ehlers, 1864)
Subadyte chesterfieldensis Hanley & Burke, 1991
Subadyte papillifera (Horst, 1915)
Thormora jukesii Baird, 1865
Verrucapelma nigricans (Horst, 1915)
Verrucapelma retusa Hanley & Burke, 1991

POLYGORDIIDAE Czerniavsky, 1881

Polygordius triestinus (Woltereck & Hempelmann, 1906)

PROTODRILIDAE Czerniavsky, 1881

Protodrilus indicus Aiyar & Alikunhi, 1944

SABELLIDAE Malmgren, 1867

Amphiglana mediterranea (Leydig, 1851)
Dasychone cingulata Grube, 1870
Hypsicomus phaeotaenia (Schmarda, 1861)
Megalomma suscipiens (Ehlers, 1904)
Oridia pacifica Rullier, 1972
Potamilla laciniosa Ehlers, 1904
Potamilla torelli Malmgren, 1866
Sabella melanostigma Schmarda,
Sabella nudicollis (Krøyer, 1856)
Sabella penicillus Linné, 1767
Sabellastarte indica (Savigny, 1818)
Sabellastarte sanctijosephi (Gravier, 1906)

SERPULIDAE Savigny, 1818

Filograna implexa Berkeley, 1828
Galeolaria cespitosa Lamarck,
Hydroides albiceps (Grube, 1870)
Hydroides bifurcata (Pixell, 1913)
Hydroides elegans (Haswell, 1883)

Hydroides exaltata (Marenzeller, 1884)
Hydroides heteroceros (Grube, 1868)
Hydroides longispinosa Imajima, 1976
Hydroides novaepommeraniae Augener, 1925
Hydroides tuberculata Imajima, 1976
Hydroides ralumianus Augener.*
Pomatoceros caeruleus (Schmarda, 1861)
Pomatoleios kraussii (Baird, 1865)
Protula tubularia (Montagu, 1803)
Salmacina incrustans Claparède, 1868
Serpula hartmanae Reish, 1968
Serpula tetratropica Imajima & ten Hove, 1984
Spirobranchus giganteus (Pallas, 1766)
Spirobranchus giganteus var. *tricornis* Morch, 1863
Spirobranchus polytrema (Philippi, 1844)
Spirobranchus tetraceros (Schmarda, 1861)
Vermiliopsis glandigerus Gravier, 1908
Vermiliopsis infundibulum ten Hove, 1975

SPIONIDAE Grube, 1850

Microspio mecznikowianus (Claparède, 1868)
Nerine cirratulus (delle Chiaje, 1828)
Polydora socialis (Schmarda, 1861)
Prionospio capensis Mc Intosh, 1885
Prionospio casperi Laubier, 1962
Scolelepis indica Fauvel,
Spio aequalis Ehlers, 1904
Spio multioculata (Rioja, 1918)

SPIROBIDAE Chamberlin, 1919

Neodexiospira foraminosa (Moore & Bush, 1904)
Neodexiospira pseudocorrugata (Bush, 1904)
Simplicaria pseudomilitaris (Thiriot-Qie'vreux, 1965)
Vinearia koehleri (Caullery & Mesnil, 1897)

SYLLIDAE Grube, 1850

Atelesyllis rubrofasciata Pruvot,*
Autolytus bicolor Rullier, 1972
Eurysyllis brevipes Hartmann-Schröder, 1956
Eusyllis assimilis Marenzeller, 1875
Eusyllis ceylonica Augener,
Exogone longicornis Westheide, 1974
Opisthosyllis ankylochaeta Fauvel, 1921
Opisthosyllis australis Fauvel, 1921
Parasphaerosyllis indica Monro, 1937
Plakosyllis brevipes Hartmann-Schröder, 1956
Sphaerosyllis bulbosa Southern, 1914
Sphaerosyllis claperedii Ehlers, 1864
Syllis armillaris Malmgren, 1867
Syllis closterbranchia Schmarda,
Syllis cornuta Rathke, 1843
Syllis exilis Gravier, 1900
Syllis ferrugina Langerhans, 1881
Syllis filiformis Rullier, 1972
Syllis gracilis Grube, 1840
Syllis hyalina Grube, 1863
Syllis kinbergiana Haswell, 1886
Syllis krohnii Ehlers, 1864

Syllis nepiotoca Caullery & Mesnil, 1916
Syllis plessisi Rullier, 1972
Syllis prolifera Krohn, 1852
Syllis spongicola Grube, 1855
Syllis variegata Grube, 1860
Trypanosyllis zebra Grube, 1860

TEREBELLIDAE Grube, 1851

Eupolyinnia nebulosa (Montagu, 1818)
Euthelepus kisémbaensis Augener,
Loimia medusa (Savigny, 1818)
Lysilla pacifica Hessle, 1917
Nicolea chilensis (Schmarda, 1861)
Nicolea gracilibranchis (Grube, 1878)
Pista macrolobata Hessle, 1917
Polynnina nebulosa (Montagu, 1818)
Terebella ehrenbergi Grube, 1870
Terebella pterochaeta Schmarda,
Terebellides stroemi Sars, 1835
Terebellobranchia hugonis Rullier, 1972
Thelepus plagiostoma Schmarda, 1861
Thelepus setosus (Quatrefages, 1865)
Trichobranchus bibranchiatus Moore, 1903

TRIGONOSTOMIDAE Graff, 1905

Trigonostomum armatum (Jensen, 1878)
Trigonostomum denhartogi (Karling, 1978)
Trigonostomum franki Willems, 2004
Trigonostomum spinigerum Willems, 2004
Trigonostomum watsoni Willems, 2004

ECHIURA

ECHIURIDAE Quatrefages, 1847

Pseudobonellia biuterina Johnson & Tiegs, 1919

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