

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

AMPHICTENIDAE, PECTINARIIDAE Quatrefages, 1866 MalmgrenQuatrefages, 1867

Amphictene crassa (Grube, 1870)

Pectinaria antipoda Schmarda, 1861

Pectinaria australis Ehlers, 1904

AMPHINOMIDAE Savigny 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 *

ARICIIDAE ORBINIIDAE Audouin & A. Milne, 1867, Hartman Edwards, 1942

Scoloplosia minima Rullier, 1972

CAPITELLIDAE Grube, 1862

Capithellethus dispar (Ehlers, 1907)

Dasybranchus caducus (Grube, 1846)

Leiochrides australis Augener, 1914

Mastobranchus trinchessii Eisig, 1887

Notomastus latericeus Sars, 1850

Pulliella armata Fauvel, 1929

CHAETOPTERIDAE Malmgren, 1867 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 Carus Rychholdt, 1851, 1863

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 Savigny 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, 1865

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, 1865

Eunice vittata delle Chiaje, 1828

Lumbrinereis impatiens Claparède, 1868

Lumbrinereis inflata Moore, 1911

Lumbrinereis latreilli Audouin & H. Milne Edwards, 1834

Lumbrinereis lynnei Knox, 1951

Lumbrinereis 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 & 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
- Podarke 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 (Sakai)
- 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

Ammotrypane 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 WilliamsØrsted, 18511843

Eteonides Hesionura laubieri (Hartmann-Schröder, 1963)
Eulalia magalaensis Kinberg, 1866
Eulalia viridis (Linné, 1758)
Iospilus phalacroïdes 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 tenuisetosus (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**
- Amphiglena 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)
Vinaria koehleri (Caullery & Mesnil, 1897)

SYLLIDAE Grube, 1850

Atelesyllis rubrofasciata Pruvot,*
Autolytus bicolor Rullier, 1972
Eurysyllis brevipes Hartmann-SchröderGidholm, 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

Eupolymnia nebulosa (Montagu, 1818)

Euthelepus kisembaensis Augener,
Loimia medusa (Savigny, 1818)
Lysilla pacifica Hesse, 1917
Nicolea chilensis (Schmarda, 1861)
Nicolea gracilibranchis (Grube, 1878)
Pista macrolobata Hesse, 1917
Polymnia 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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of marine species from
New Caledonia



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