

Checklist of the Fossil Echinoid Species of Australia

Last updated: 25th January 2023

Committee: Kenneth J. McNamara, Chris Ah Yee, Frank Holmes, Janice Krause and Sarah Martin

How to Cite: Kenneth J. McNamara, Chris Ah Yee, Frank Holmes, Janice Krause and Sarah Martin (2023). Checklist of the Fossil Echinoid Species of Australia.

<https://www.australasianpalaeontologists.org/databases>

Class Echinoidea Leske, 1778

Family Lepidocentridae Loven, 1874

Palaeodiscus warreni (Browne, 1967)

Subclass **Perischoechinoidea** M'Coy, 1849

Subclass Cidaroidea Smith, 1984

Order Cidaroida Claus, 1880

Family Archaeocidaridae M'Coy, 1844

Archaeocidaris selwyni Etheridge, 1892

Family Cidaridae Gray, 1825

Subfamily Ctenocidarinae Mortensen, 1928

Austrocidaris operta Philip, 1964

Subfamily Goniocidarinae Mortensen, 1928

Delocidaris prunispinosa (Chapman and Cudmore, 1928)

Goniocidaris comptoni (Glauert, 1923)

Goniocidaris murrayensis Chapman and Cudmore, 1934

Goniocidaris pentaspinosa Chapman and Cudmore, 1928

Goniocidaris praecipua Philip, 1964

Goniocidaris prunispinosa (Chapman and Cudmore, 1928)

Goniocidaris tubaria hallettensis Philip, 1964

Subfamily Stereocidarinae Lambert, 1900

Temnocidaris (Stereocidaris) australiae (Duncan, 1877)

Temnocidaris (Stereocidaris) cudmorei Philip, 1964

Temnocidaris (Stereocidaris) fosteri Philip, 1964

Temnocidaris (Stereocidaris) (?) hispida Philip, 1964

Temnocidaris (Stereocidaris) (?) intricata Philip, 1964

Temnocidaris (Stereocidaris) inermis Philip, 1964

Subfamily Cidarinae Gray, 1825

Eucidaris (?) strombilata felli Philip, 1963

Menocidaris compta Philip, 1964

Phyllacanthus clarkii clarkii (Chapman and Cudmore), 1934

Phyllacanthus clarkii impensus Philip, 1963

Phyllacanthus duncani duncani Chapman and Cudmore, 1934

Phyllacanthus duncani gambierensis Philip, 1963

Phyllacanthus irregularis Mortensen, 1928

Phyllacanthus serratus Philip, 1963

Stylocidaris chapmani Philip, 1963

Stylocidaris scoparia (Chapman and Cudmore, 1934)

Order Arbacioida Gregory, 1900

Family Arbaciidae Gray, 1855

Coelopleurus (Murravechinus) paucituberculatus (Gregory, 1890)

Order Camarodonta Jackson, 1912

Family Temnopleuridae A. Agassiz, 1872

Amblypneustes formosus Valenciennes, 1846

Asaphechinus murrayensis Philip, 1969

Asaphechinus princeps Philip, 1969

Asaphechinus singletoni Philip, 1969

Asaphechinus tasmanensis Philip, 1969

Grammechinus meridionalis Philip, 1969

Microcyphus annulatus Mortensen, 1904

Ortholophus bittneri Philip, 1969

Ortholophus lineatus (Duncan, 1877)

Ortholophus morganensis Philip, 1969

Ortholophus pulchellus (Bittner, 1892)

Ortholophus venustus Philip, 1969

Ortholophus woodsi (Laube, 1869)

Paradoxechinus granulosus Philip and Foster, 1971

Paradoxechinus novus Laube, 1869

Paradoxechinus profundus Philip and Foster, 1971

Paradoxechinus stellatus Philip and Foster, 1971

Pentechinus mirabilis Philip and Foster, 1971

Pseudechinus cf. *albocinctus* (Hutton, 1873)

Family Trigonocidaridae Mortensen, 1903

Cryptechinus humilior (Bittner, 1892)

Tatechinus nudus Philip, 1969

Family Toxopneustidae Troschel, 1872

Tripneustes pregratilla McNamara and Kendrick, 1994

Family Strongylocentrotidae Gregory, 1900

Strongylocentrotus antiquus Philip, 1965

Family Echinometridae Gray, 1855

Echinometra mathaei (Blainville, 1825)

Evechinus palatus Philip, 1969

Heliocidaris ludbrookae Philip, 1965

Zenocentrotus peregrinus Philip, 1965

Order Salenioida Delage and Herouard, 1903

Family Saleniidae L. Agassiz, 1838

Pleurosalenia tertiaria (Tate, 1877)

Irregularia

Order Echinoneoida Clark, 1925

Family Echinoneidae L. Agassiz and Desor, 1847

Echinoneus dennanti Hall, 1907

Order Cassiduloida Claus, 1880

Family Apatopygidae Kier, 1962

Apatopygus mannumensis Holmes, 1999

Apatopygus vincentinus (Tate, 1891)

Porterpygus devlinensis Holmes, 1999

Family Cassidulidae L. Agassiz and Desor, 1847

Eurhodia australiae (Duncan, 1877)

Eurhodia westaustraliae McNamara and Martin, 2022

Family Faujasiidae Lambert, 1905

Australanthus floescens (Gregory, 1892)

Australanthus longianus (Gregory, 1890)

Rhynchopygus? janchrisorum Holmes, 2004

Order Neolampadoida Philip, 1963

Family Neolampadidae Lambert, 1918

Actapericulum bicarinatum Holmes, 1995

Aphanophora (?) *bassoris* Holmes, 1995

Notolampas flosculus Philip, 1963

Pisolampas concinna Philip, 1963

Studeria elegans Laube, 1869

- *Pygorhynchus vassali* Duncan (*non* Wright), 1877

Order Echinolampadoida Kroh and Smith, 2010

Family Echinolampadidae Gray, 1851

Echinolampas gambierensis Tenison Woods, 1867

Echinolampas gregoryi gregoryi McNamara and Philip, 1980

Echinolampas gregoryi corrugata McNamara and Philip, 1980

Echinolampas laubei McNamara, 1989

- *Echinolampas duncani* McNamara, 1987

Echinolampas morgani Cotteau, 1889

Echinolampas ovulum Laube, 1869

Echinolampas posterocrassa posterocrassa Gregory, 1891
Echinolampas posterocrassa curtata McNamara and Philip, 1980

Echinolampas tatei Lambert, 1898

- *Conoclypus rostratus* Tate, 1893

Echinolampas aff. *tatei* McNamara and Philip, 1980

Echinolampas tumulus McNamara and Kendrick, 1994

Echinolampas westraliensis (Crespin, 1943)

Order Clypeasteroida A. Agassiz, 1872

Family Clypeasteridae L. Agassiz, 1835

Clypeaster butleri McNamara and Kendrick, 1994

Clypeaster gippslandicus McCoy, 1879

Family Clypeidae Lambert, 1898

Auloclypeus cf. *melchiorini* (Wright, 1854)

Family Arachnoididae A. Agassiz, 1872

Fellaster incisa Tate, 1893

Monostychia alanruxi Sadler, Martin and Gallagher, 2017

Monostychia australis Laube, 1869

Monostychia etheridgei (Woods, 1877)

Monostychia glenelgensis Sadler, Holmes and Gallagher, 2019

Monostychia macnamarai Sadler, Martin and Gallagher, 2017

Monostychia merrimanensis Sadler, Holmes and Gallagher, 2019

Monostychia robertirwini Sadler, Martin and Gallagher, 2017

Family Fossulasteridae Philip and Foster, 1971

Fossulaster exiguus Philip and Foster, 1971

- *Scutella marsupiata* Tate, 1898
- *Echinocyamus patella* Chapman, 1916

Fossulaster halli Lambert and Thiéry, 1925

Fossulaster susae McNamara and Martin, 2022

Philipaster morgani (Cotteau, 1891)

Philipaster occultoforma (Irwin, 1995)

Scutellinoides patella (Tate, 1891)

Willungaster major Wang, 1994

Willungaster minor Wang, 1994

Willungaster scutellaris Philip and Foster, 1971

Family Laganidae A. Agassiz, 1872

Peronella lesueuri augusta Pledge and Sadler, 1990

Peronella orbicularis (Leske, 1778)

Peronella ova McNamara, 1996

Peronella playmodes (Tate, 1893)

Peronella ricta (Gregory, 1892)

Family Fibulariidae Gray, 1855

Fibularia gregata Tate, 1885

Fibularia tatei Bittner, 1892

Lenicyamidia compta Brunnschweiler, 1962

- *Cyamidia paucipora* Brunnschweiler, 1962

Family Echinocyamidae Lambert and Thiery, 1914

Echinocyamus planissimus Clark, 1938

Order Holasteroida Durham and Melville, 1957

Family Corystidae Foster and Philip, 1978

Corystus dysasteroides (Duncan, 1877)

- *Holaster australiae* Duncan, 1877
- *Holaster difficilis* Duncan, 1887

Cardabia bullarensis Foster and Philip, 1978

Family Holasteridae Pictet, 1857

Echinocorys australis Foster and Philip, 1978

Echinocorys stomias McNamara, 1987

Giraliaster bellissae Foster and Philip, 1978

Giraliaster jubileensis Foster and Philip, 1978

Giraliaster sulcatus (Hutton, 1873)

- *Cardiaster latecordatus* Tate, 1891

Giraliaster tertiaris (Gregory, 1890)

Order Spatangoida L. Agassiz, 1840

Family Micrasteridae Lambert, 1920

Cyclaster archeri (Tenison Woods, 1867)

Cyclaster jamiei McNamara and Martin, 2022

Family Hemiasteridae Clark, 1917

Bolbaster callidus McNamara, 1987

Bolbaster dolosus McNamara, 1987

Bolbaster planedeclivis Gregory, 1890

Bolbaster subidus McNamara, 1987

Bolbaster verecundus McNamara, 1987

Hemiaster sweeti Etheridge, 1892

Psephoaster apokryphos McNamara, 1987

Psephoaster klydonos McNamara, 1987

Psephoaster lissos McNamara, 1987

Family Periasteridae Lambert, 1920

Peribrissus janiceae Holmes, 2011

Family Schizasteridae Lambert, 1905

Hemifaorina (?) *rex* McNamara, 1993a

Linthia pulchra McNamara, 1985a

Prenaster aldingensis Hall, 1907

Protenaster antiaustralis (Tate, 1885)

Protenaster australis (Gray, 1851)

Protenaster philipi McNamara, 1985b

Protenaster preaustralis McNamara, 1985b

Schizaster (Dipneustes) fosteri McNamara and Philip, 1980

Schizaster (Paraster) carinatus McNamara and Philip, 1980

Schizaster (Paraster) tatei McNamara and Philip, 1980

Schizaster (Schizaster) abductus Tate, 1891

Schizaster (Schizaster) aff. compactus Koehler, 1914

Schizaster (Schizaster) halli McNamara and Philip, 1980

Schizaster (Schizaster) sphenoides Hall, 1907

Family Pericosmidae Lambert, 1905

Pericosmus celsus McNamara and Philip, 1984

Pericosmus compressus (Duncan, 1877)

Pericosmus maccoyi Gregory, 1890

Pericosmus quasimodo McNamara and Philip, 1984

Pericosmus torus McNamara and Philip, 1984

Victoriaster gigas (McCoy, 1882)

- *Linthia mooraboolensis* Pritchard, 1908

Waurnia nelsoni (McCoy, 1882)

Family Brissidae Gray, 1855

Amoraster paucituberculata McNamara and Ah Yee, 1989

Amoraster tuberculata McNamara and Ah Yee, 1989

Apoxyetalum chenjafra McNamara, 1993b

Brissus fosteri McNamara, Philip and Kruse, 1986

Eupatagus anomalus (Duncan, 1877)

Eupatagus cetus Kruse and Philip, 1985

Eupatagus collabus Kruse and Philip, 1985

Eupatagus ludbrookae Kruse and Philip, 1985

Eupatagus murrayensis Laube, 1869

Eupatagus planulatus Kruse and Philip, 1985

Eupatagus rotundus Duncan, 1877

Eupatagus wrighti Laube, 1869

Hysteraster paragrapsimus McNamara and Barrie, 1993

Meoma tuberculata Hutton, 1873

- *Eupatagus decipiens* Tate, 1891

Family Spatangidae Gray, 1825

Peraspatangus brevis Philip and Foster, 1971

Peraspatangus depressus Philip and Foster, 1971

Family Maretidae Lambert, 1905

Amoraster paucituberculata McNamara and Ah Yee, 1989

Amoraster tuberculata McNamara and Ah Yee, 1989

Gillechinus cudmorei Fell, 1964a

Gillechinus kaitae McNamara and Martin, 2022

Granobrissoides australiae (Cotteau, 1889)

Maretia aff. *planulatus* Holmes, 2014

Murraypneustes biannulatus Holmes, Ah Yee and Krause, 2005

Spatagobrissus dermodyorum Holmes, Ah Yee and Krause, 2005

Spatagobrissus laubei Duncan, 1877

Family Brissopsidae Lambert, 1905

Brissopsis australis McNamara, Philip and Kruse, 1986

Brissopsis praeluzonica Fell, 1964

Brissopsis tatei Hall, 1907

Family Loveniidae Lambert, 1905

Breynia aff. *carinata* d'Archaic and Haime, 1853

Breynia desorii (Leach, 1815)

Lovenia bagheerae Irwin in Irwin and Archbold, 1994

Lovenia forbesii (Tenison Woods, 1862)

- *Spatangus hoffmanni* Sturt non Goldfuss, 1833

Lovenia woodsii (Etheridge, 1875)