

# Checklist of the Fossil Echinoid Species of Australia

**Last updated:** 11th February 2022

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**How to Cite:** Kenneth J. McNamara, Chris Ah Yee, Frank Holmes, Janice Krause and Sarah Martin (2021). 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 Cidaroida** 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)

**Family Faujasiidae** Lambert, 1905

*Australanthus florescens* (Gregory, 1892)

*Australanthus longianus* (Gregory, 1890)

*Rhynchopygus? janchrisorum* Holmes, 2004

**Order Neolampadoidea** 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 Echinolampadoidea** 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

*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 Holasteroidea** 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)

**Family Hemiasteridae** Clark, 1917

*Bolbaster callidus* McNamara, 1987

*Bolbaster dolosus* McNamara, 1987

*Bolbaster planedclivis* 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

*Apoxypetalum 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 paragrapus* 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

*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)