Table S1 Checklist and seasonal distribution of planktonic ostracods in the central and southern part of the South China Sea

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Family | Subfamily | Tribe | Species | Reference | Spring | Summer | Autumn | Winter |
| Cylindroleberididae | Cyclasteropinae |  | *Tetraleberis brevis*  | Brady, 1902 |  | + |  |  |
| Cypridinidae | Cypridininae | Gigantocypridinini | *Gigantocypris agassizi*  | Müller, 1895 |  |  |  | + |
| *Gigantocypris australis*  | Poulsen, 1962 |  | + | + |  |
| Cypridinini | *Cypridina acuminata*  | Müller, 1906  | + |  |  | + |
| *C. dentata*  | Müller, 1906  | + |  |  | + |
| *C. flaveola*  | Claus, 1873 |  | + |  |  |
| *C. nana*  | Poulsen, 1962 |  |  | + |  |
| *C. serrata*  | Müller, 1906  | + |  | + | + |
| *Paravargula hirsuta*  | Müller, 1906  | + |  |  | + |
| *Melavargula japonica*  | Poulsen, 1962 | + |  | + |  |
| Halocyprididae | Archiconchoeciinae |  | *Archiconchoecia falcata*  | Deevey, 1978 | + |  |  |  |
| Bathyconchoeciinae |  | *Bathyconchoecia incisa* | Yin, et al., 2017 |  | + |  |  |
| *B. lacunosa*  | Müller, 1908  |  |  | + |  |
| *B. liui* | Yin, et al., 2014 |  | + |  |  |
| Conchoeciinae | Conchoeciini | *Alacia belgicae*  | Müller, 1906  |  |  | + |  |
| *A. hettacro*  | Müller, 1906  | + |  |  |  |
| *A. leptothrix*  | Müller, 1906  |  | + |  |  |
| *A. valdiviae*  | Müller, 1906  |  |  | + |  |
| *Conchoecetta acuminata*  | Claus, 1890  |  | + | + |  |
| *C. giesbrechti*  | Müller, 1906 |  | + |  |  |
| *Conchoecia hyalophyllum*  | Claus, 1890 |  | + |  |  |
| *C. lophura*  | Müller, 1906 |  |  |  |  |
| *C. macrocheira*  | Müller, 1906 |  | + | + | + |
| *C. magna*  | Claus, 1874 | + | + | + | + |
| *C. magna rhombica*  | Müller, 1906 | + | + |  |  |
| *C. parvidentata*  | Müller, 1906 | + |  |  | + |
| *C. subarcuata*  | Claus, 1890 |  | + |  |  |
| *Conchoecilla daphnoides*  | Claus, 1890 |  |  | + | + |
| *Conchoecissa ametra*  | Müller, 1906 | + |  |  | + |
| *C. imbricata*  | Brady, 1880 |  | + |  |  |
| *C. nigromaculatus* | Xiang, et al., Herein |  |  |  | + |
| *C. plinthina*  | Müller, 1906  |  |  | + |  |
| *C. symmetrica*  | Müller, 1906  |  |  |  | + |
| *Discoconchoecia elegans*  | Sars, 1866 | + | + | + |  |
| *D. pseudodiscophora*  | Rudjakov, 1962  |  |  | + |  |
| *D. tamensis*  | Poulsen, 1973  |  | + |  |  |
| *Gaussicia incisa*  | Müller, 1906 |  |  | + |  |
| *Loricoecia loricata*  | Claus, 1894 |  |  | + |  |
| *L. ctenophora*  | Müller, 1906  |  |  | + |  |
| *Mikroconchoecia curta*  | Lubbock, 1860 | + | + |  | + |
| *Orthoconchoecia bispinosa*  | Claus, 1890 | + | + |  |  |
| *O. striola*  | Müller, 1906 | + |  | + |  |
| *O. atlantica*  | Lubbock, 1856 | + | + |  | + |
| *O. secernenda*  | Vávra, 1906 |  |  |  | + |
| *Paraconchoecia aequiseta*  | Müller, 1906  |  | + |  |  |
| *P. allotherium*  | Müller, 1906  |  | + |  |  |
| *P. brachyaskos*  | Müller, 1906  |  | + | + |  |
| *P. cophopyga*  | Müller, 1906  |  | + |  |  |
| *P. dasyophthalma*  | Müller, 1906  |  |  | + |  |
| *P. decipiens*  | Müller, 1906  |  | + | + |  |
| *P. dentata*  | Müller, 1906  |  |  |  | + |
| *P. echinata*  | Müller, 1906  |  | + |  |  |
| *P. inermis*  | Claus, 1890 |  | + |  |  |
| *P. mamillata*  | Müller, 1906  |  |  | + |  |
| *P. macroprocera*  | Angel, 1971  |  | + |  |  |
| *P. microprocera*  | Angel, 1971  |  | + |  |  |
| *P. oblonga*  | Claus, 1891 | + | + | + | + |
| *P. procera*  | Müller, 1894 | + | + | + | + |
| *P. reticulata*  | Müller, 1906 |  |  | + |  |
| *P. spinifera*  | Claus, 1890 |  | + |  |  |
| *P. vitjazi*  | Rudjakov, 1962  |  | + |  |  |
| *Paramollicia plactolycos*  | Müller, 1906  | + |  |  |  |
| *Porroecia crassispina*  | Chen & Lin, 1987 | + | + |  |  |
| *P. parthenoda*  | Müller, 1906 | + | + |  | + |
| *P. porrecta*  | Claus, 1890 | + | + | + | + |
| *P. pseudoparthenoda*  | Angel, 1972 |  | + |  |  |
| *P. spinirostris*  | Claus, 1874 |  | + |  | + |
| *Pseudoconchoecia concentrica*  | Müller, 1906 | + | + |  | + |
| Metaconchoeciini | *Metaconchoecia abyssalis*  | Rudjakov, 1962  |  |  | + |  |
| *M. Clausoecia*  | Müller, 1906  | + |  |  |  |
| Euconchoeciinae |  | *Euconchoecia aculeata*  | Scott, 1894  | + |  |  | + |
| *E. bifurata*  | Chen & Lin, 1984 | + |  |  |  |
| *E. elongata*  | Müller, 1906 | + |  |  | + |
| *E. maimai*  | Tseng, 1969 | + |  |  | + |
| Halocypridinae |  | *Fellia bicornis*  | Müller, 1906  |  |  | + |  |
| *Halocypria globosa*  | Claus, 1874 | + |  |  |  |
| *Halocypris inflata*  | Dana, 1849  | + | + | + | + |
| *Muelleroecia macromma*  | Müller, 1906  |  |  |  |  |
| Philomedidae | Philomedinae |  | *E. biacutidens* | Xiang, et al., 2017 |  | + |  |  |
| *Philomedes eugeniae*  | Skogsberg, 1920 |  |  | + |  |
| *Euphilomedes interpuncta*  | Baird, 1850  | + |  |  |  |

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