

**Appendix A.** Taxonomic reference list of benthic foraminifera (with authors and dates) identified and cited in the present study. See World Register of Marine Species (WoRMS), online taxonomic database (<https://www.marinespecies.org/foraminifera/>) for additional references and synonymised names.

- Phylum FORAMINIFERA d'Orbigny, 1826
- Class GLOBOTHALAMEA Pawlowski, Holzmann and Tyszka, 2013
  - Subclass TEXTULARIANA Mikhalevich, 1980
    - Order TEXTULARIIDA Delage and Hérouard, 1896
    - Suborder TEXTULARIINA Delage and Hérouard, 1896
    - Superfamily TEXTULARIOIDEA Ehrenberg, 1838
    - Family TEXTULARIIDAE Ehrenberg, 1838
    - Subfamily SIPHOTEXTULARIINAE Loeblich and Tappan, 1985
      - Genus *Siphotextularia* Finlay, 1939
      - Siphotextularia flintii* (Cushman, 1911)
  - Class TUBOTHALAMEA Pawlowski, Holzman and Tyszka, 2013
    - Order MILIOLIDA Delage and Hérouard, 1896
    - Suborder MILIOLINA Williamson, 1858
    - Superfamily MILIOLOIDEA Ehrenberg, 1839
    - Family HAUERINIDAE Schwager, 1876
    - Subfamily HAUERININAE Schwager, 1876
      - Genus *Massilina* Schlumberger, 1893
      - Massilina* sp.
      - Genus *Quinqueloculina* d'Orbigny, 1826
      - Quinqueloculina* sp.
    - Subfamily MILIOLINELLINAE Vella, 1957
      - Genus *Miliolinella* Wiesner, 1931
      - Miliolinella* sp.
      - Miliolinella subrotunda* (Montagu, 1803)
      - Genus *Pyrgo* DeFrance, 1824
      - Pyrgo murrhina* (Schwager, 1866)
      - Pyrgo quadrata* Brady, (1884)
      - Pyrgo* aff. *P. depressa* (d'Orbigny, 1826)
      - Pyrgo lucernula?* (Schwager, 1866)
      - Pyrgo* sp.
      - Genus *Triloculina* d'Orbigny, 1826
      - Triloculina sommeri* Tinoco, 1955
      - Triloculina tricarinata* d'Orbigny, 1826
      - Triloculina* sp.
      - Genus *Triloculinella* Riccio, 1950
      - Triloculinella* sp.
    - Subfamily SIGMOILOPSINAE Vella, 1957
      - Genus *Sigmoilopsis* Finlay, 1947
      - Sigmoilopsis schlumbergeri* (Silvestri, 1904)
- Class NODOSARIATA Mikhalevich, 1992 emend. Rigaud et al. 2015
  - Subclass NODOSARIANA Mikhalevich, 1992
  - Order VAGINULINIDA Mikhalevich, 1993
  - Family VAGINULINIDAE Reuss, 1860
  - Subfamily MARGINULININAE Wedekind, 1937
  - Genus *Amphicoryna* Schlumberger in Milne-Edwards, 1881

*Amphicoryna* sp.

Subfamily LENTICULININAE Chapman, Parr and Collins, 1934

Genus *Lenticulina* Lamarck, 1804

*Lenticulina* sp.

Order NODOSARIIDA Calkins, 1926

Suborder NODOSARIINA Calkins, 1926

Superfamily NODOSARIOIDEA Ehrenberg, 1838

Family NODOSARIIDAE Ehrenberg, 1838

Subfamily NODOSARIINAE Ehrenberg, 1838

Genus *Nodosaria* Lamarck, 1816

*Nodosaria* sp.

Family LAGENIDAE Reuss, 1862

Genus *Lagena* Walker and Jacob, 1798

*Lagena arquata* Buchner, 1940

*Lagena hispidula* Cushman, 1913

*Lagena* sp.

Genus *Pygmaeoseistron* Patterson and Richardson, 1988

*Pygmaeoseistron* sp.

Genus *Reussoolina* Colom, 1956

*Reussoolina apiculate* (Reuss, 1851)

Class GLOBOTHALAMEA Pawlowski, Holzmann and Tyszka, 2013

Subclass ROTALIANA Mikhalevich, 1980

Order ROTALIIDA Delage and Hérouard, 1896

Superfamily CHILOSTOMELLOIDEA Brady, 1881

Family CHILOSTOMELLIDAE Brady, 1881

Subfamily CHILOSTOMELLINAE Brady, 1881

Genus *Chilostomella* Reuss in Czjžek, 1849

*Chilostomella globata* Galloway and Heminway, 1941

Family ANOMALINIDAE Cushman, 1927

Genus *Anomalinoidea* Brotzen, 1942

*Anomalinoidea* sp.

Genus *Parrelloidea* Hofker, 1956

*Parrelloidea hyalinus* (Hofker, 1951)

*Parrelloidea* sp.

Family ALABAMINIDAE Hofker, 1951

Genus *Oridorsalis* Andersen, 1961

*Oridorsalis umbonatu* (Reuss, 1851)

Genus *Osangularia* Brotzen, 1940

*Osangularia culter* (Parker and Jones, 1865)

*Osangularia* sp.

Superfamily CASSIDULINOIDEA d'Orbigny, 1839

Family CASSIDULINIDAE d'Orbigny, 1839

Subfamily CASSIDULININAE d'Orbigny, 1839

Genus *Cassidulina* d'Orbigny, 1826

*Cassidulina* sp.

Genus *Cassidulinoidea* Cushman, 1927

*Cassidulinoidea* sp.

Genus *Globocassidulina* Voloshinova, 1960

*Globocassidulina subglobosa* (Brady, 1881)

*Globocassidulina* sp.

Family BOLIVINITIDAE Cushman, 1927  
 Subfamily BOLIVINITINAE Cushman, 1927  
     Genus *Bolivina* d'Orbigny, 1839  
         *Bolivina brittanica* Macfadyen, 1942  
     *Bolivina inflata* Heron-Allen and Earland, 1913  
         *Bolivina interjuncta* Cushman, 1926  
     Genus *Bolivinita* Cushman, 1927  
         *Bolivinita quadrilateral* (Schwager, 1866)  
             *Bolivinita* sp.  
 Subfamily FURSENKOININAE Loeblich and Tappan, 1961  
     Genus *Fursekiona* Loeblich and Tappan, 1961  
         *Fursekiona* sp.  
 Family GLOBOBULIMINIDAE Hofker, 1956  
     Genus *Globobulimina* Cushman, 1927  
         *Globobulimina affinis* (d'Orbigny, 1839)  
         *Globobulimina* Cushman, 1927  
             *Globobulimina* sp.  
 Family UVIGERINIDAE Haeckel, 1894  
 Subfamily UVIGERININAE Haeckel, 1894  
     Genus *Uvigerina* d'Orbigny, 1826  
         *Uvigerina auberiana* d'Orbigny, 1839  
         *Uvigerina peregrina* Cushman, 1923  
         *Uvigerina proboscidea* Schwager, 1866  
         *Uvigerina* cf. *U. hispida* Schwager, 1866  
             *Uvigerina* spp.  
 Superfamily BULIMINOIDEA Jones, 1875  
     Family BULIMINIDAE Jones, 1875  
         Genus *Bulimina* d'Orbigny, 1826  
             *Bulimina* sp.  
         Genus *Protoglobobulimina* Hofker, 1951  
             *Protoglobobulimina* sp. Hofker, 1951  
 Superfamily DISCORBOIDEA Ehrenberg, 1838  
 Family CANCRISIDAE Chapman, Parr and Collins, 1934  
     Genus *Cancris* Montfort, 1808  
         *Cancris nuttalli* (Palmer and Bermúdez, 1936)  
         Genus *Valvulineria* Cushman, 1926  
             *Valvulineria glabra* Cushman, 1927  
 Superfamily PLANORBULINOIDEA Schwager, 1877  
     Family CIBICIDIDAE Cushman, 1927  
     Subfamily CIBICIDINAE Cushman, 1927  
         Genus *Cibicides* Montfort, 1808  
             *Cibicides* sp.  
         Genus *Cibicidoides* Thalmann, 1939  
             *Cibicidoides cicatricosus* (Schwager, 1866)  
             *Cibicidoides incrassatus* (Fichtel and Moll, 1798)  
             *Cibicidoides lobatulus* (Walker and Jacob, 1798)  
             *Cibicidoides wuellerstorfi* (Schwager, 1866)  
                 *Cibicidoides?* sp.  
             *Cibicidoides* aff. *bradyi* (Trauth, 1918)  
     *Cibicidoides* aff. *C. mundulus* (Brady, Parker and Jones, 1888)

Superfamily TURRILINOIDEA Cushman, 1927  
   Family TURRILINIDAE Cushman, 1927  
     Genus *Floresina* Revets, 1990  
     *Floresina spicata* (Cushman and Parker, 1942)  
 Superfamily NONIONOIDEA Schultze, 1854  
   Family NONIONIDAE Schultze, 1854  
     Subfamily NONIONINAE Schultze, 1854  
       Genus *Nonion* Montfort, 1808  
         *Nonion* sp.  
         Genus *Nonionella* Cushman, 1926  
         *Nonionella auris* (d'Orbigny, 1839)  
         *Nonionella turgida* (Williamson, 1858)  
 Family MELONIDAE Holzmann and Pawlowski, 2017  
   Genus *Melonis* Montfort, 1808  
     *Melonis barleeanum* (Williamson, 1858)  
     *Melonis pompilioides* (Fichtel and Moll, 1798)  
   Family PULLENIIDAE Schwager, 1877  
     Subfamily PULLENIINAE Schwager, 1877  
 Genus *Pullenia* Parker and Jones in Carpenter et al. 1862  
   *Pullenia bulloides* (d'Orbigny, 1846)  
 Superfamily DISCORBOIDEA Ehrenberg, 1838  
   Family ROSALINIDAE Reiss, 1963  
     Genus *Rosalina* d'Orbigny, 1826  
     *Rosalina bradyi* (Cushman, 1915)  
   Order POLYMORPHINIDA Mikhalevich, 1980  
   Suborder POLYMORPHININA Mikhalevich, 1980  
 Superfamily POLYMORPHINOIDEA d'Orbigny, 1839  
   Family ELLIPSOLAGENIDAE Silvestri, 1923  
     Subfamily ELLIPSOLAGENINAE Silvestri, 1923  
       Genus *Fissurina* Reuss, 1850  
       *Fissurina circularis* Todd, 1954  
       *Fissurina laevigata* Reuss, 1850  
       *Fissurina orbignyana* Seguenza, 1862  
     Genus *Lagenosolenia* McCulloch, 1977  
       *Lagenosolenia* sp.  
   Subfamily SIPHOLAGENINAE Patterson and Richardson, 1987  
     Genus *Pytine* Moncharmont Zei and Sgarrella, 1978  
       *Pytine paradoxa* Sidebottom, 1912  
   Order SPIRILLINIDA Hohenegger and Piller, 1975  
   Suborder SPIRILLININA Hohenegger and Piller, 1975  
     Family SPIRILLINIDAE Reuss and Fritsch, 1861  
       Genus *Spirillina* Ehrenberg, 1843  
       *Spirillina decorate* Brady, 1884

**Appendix B.** Taxonomic reference list of Ostracoda (with authors and dates) identified and cited in the present study. The suprageneric taxonomy of ostracods follows Liebau (2005).

Subclass OSTRACODA Latreille, 1806  
Order PODOCOPIDA Sars, 1866  
Suborder CYPRIDOCOPINA Jones, 1901  
Superfamily MACROCYPRIDOIDEA Müller, 1912  
Family MACROCYPRIDIDAE Müller, 1912  
Genus *Macromckenziea* Maddocks, 1990  
*Macromckenziea* sp.  
*Macropyxis bathyalensis* (Hulings, 1967)  
Superfamily PONTOCYPRIDOIDEA Müller, 1894  
Family PONTOCYPRIDIDAE Müller, 1894  
Genus *Argilloecia* Sars, 1866  
*Argilloecia labri* Yasuhara and Okahashi, 2015  
*Argilloecia* sp.  
Suborder CYTHEROCOPINA Gründel, 1967  
Superfamily BYTHOCYTHEROIDEA Sars, 1866  
Family BYTHOCYTHERIDAE Sars, 1866  
Genus *Bythoceratina* Hornibrook, 1952  
*Bythoceratina scaberrima* (Brady, 1886)  
Superfamily CYTHEROIDEA Baird, 1850  
Family CYTHERURIDAE Müller, 1894  
Genus *Cytheropteron* Sars, 1866  
*Cytheropteron* sp.  
Superfamily TRACHYLEBERIDOIDEA Sylvester-Bradley, 1948  
Family TRACHYLEBERIDIDAE Sylvester-Bradley, 1948  
Genus *Ambocythere* van den Bold, 1957  
*Ambocythere* sp. cf. *A. circumporus* Bergue et al. 2017  
*Ambocythere* sp.  
Gen. et sp. indet.  
Genus *Rugocythereis* Dingle, Lord and Boomer, 1990  
*Rugocythereis* sp.  
Superfamily CYTHERIDEOIDEA Sars, 1925  
Family KRITHIDAE Mandelstam, 1958  
Genus *Krithe* Brady, Crosskey and Robertson, 1874  
*Krithe sinuosa* Ciampo, 1986  
*Krithe morkhoveni* van den Bold, 196