

## Recent and Quaternary foraminifera collected around New Caledonia

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### Abstract

The compilation of the works carried out on Recent and Quaternary foraminifera collected in the waters surrounding New Caledonia allowed us to identify 574 species. These species are listed according to the classification of Loeblich & Tappan (1988), updated for the Recent species by Debenay *et al.* (1996). Their affinity with microfaunas from other regions is briefly discussed.

### Résumé

La compilation des travaux sur les foraminifères actuels et quaternaires récoltés dans les eaux entourant la Nouvelle-Calédonie nous a permis de répertorier 574 espèces. Ces espèces sont présentées selon la classification de Loeblich & Tappan (1988), mise à jour pour les espèces actuelles par Debenay *et al.* (1996). Leur affinité avec les microfaunes d'autres régions est discutée brièvement.

### Introduction

The first study about foraminifera from the southwestern Pacific near New Caledonia was carried out by Brady (1884) during the voyage of H.M.S. Challenger (1873-1876), updated by Barker (1960). The nearest station was station 177, near Vanuatu (16°45'S-168°5'E). However, studies concerning directly New Caledonia began much later, with partial and local inventories in coastal samples (Gambini, 1958, 1959; Renaud-Debyser, 1965; Toulouse, 1965, 1966). Samples of recent and fossil sediments collected during the Singer-Polignac mission (1960-1965) were further used for several studies of foraminiferal assemblages (Coudray & Margerel, 1974; Coudray, 1976; Margerel, 1981). These samples allowed Margerel (1984) to make the first detailed inventory of the foraminifera of the Baie de Saint-Vincent (southwest of New Caledonia). This inventory, unfortunately still unpublished, describe 289 species from the bay. On the occasion of a sedimentological study carried out by the IRD in the southwestern lagoon of New Caledonia, more than 800 surface sediment samples were collected. This allowed the first exhaustive study of large foraminifera (> 0.5 mm), with the description of 168 species. Most of them are deposited at the Museum d'Histoire Naturelle de Genève (Debenay & Decrouez, 1989). Several papers were published (Debenay, 1985a, 1985b, 1986, 1988a, 1988b, 1988c). During the same period, the foraminifera of Quaternary reefal paleoenvironments were studied (Cabioch *et al.*, 1986; Cabioch, 1988), as well as the benthic (Vincent, 1986; Vincent & Laurin, 1988; Vincent *et al.*, 1991) and planktonic (Lambert *et al.*, 1991) foraminifera of the Loyalty basin. Two PhD theses also provided inventories of foraminifera from New Caledonia and Polynesia (Adjas, 1988), and from New Caledonia and Chesterfield islands (Degauche-Michalski, 1993). Samples have been collected in coastal marshes and mangrove swamps for a more comprehensive study about the foraminifera of paralic environments (Debenay & Guillou, 2002). Finally, an illustrated catalogue of part of the species from the Baie de Saint-Vincent has been prepared by Margerel and is available on the web site of the University of Provence:

<http://194.57.197.66/Collection/Index.htm>.

All the works reported above were used to prepare the following inventory of the foraminifera species that live in the waters surrounding New Caledonia. The 574 species identified are presented according to the classification of Loeblich & Tappan (1988), updated for the Recent species by Debenay *et al.* (1996). Most of the species reported were collected in the shallow lagoonal waters where calcareous species are dominant, with mainly the suborder Miliolina. Marshes and mangrove

swamps microfaunas include a greater variety of agglutinated species belonging to the suborders Haplophragmiina, Trochamminina and textulariina. Species collected in these environments are marked with “o” in the inventory. Agglutinated species are also well represented in the deeper areas of the Loyalty basin, together with calcareous species (suborder Rotaliina) and planktonic species (suborder Globigerinina), which were reported in noticeable quantity only in this environment. Species collected only in the Loyalty basin are marked with “+” in the inventory. Species from Quaternary reefal environments of New Caledonia may be found in Recent sediments from other areas. They are marked with “\*” in the inventory.

The following inventory was made taking into account synonymies, as much as possible. Some species were reported under two or three different names owing to taxonomical changes. For example, *Varidentella neostriatula* (THALMANN) was also reported as *Quinqueloculina neostriatulata* and *Triloculinella (Scutuloris) neostriatula*. Moreover, the interpretation of some species by different authors may be very confusing. It is the case for the genus *Ammonia*, for example. These uncertainties should be removed during further updating of the inventories.

Foraminiferal assemblages of New Caledonia have noticeable similarities with assemblages reported from other areas in western and central Pacific such as the Great Barrier of Australia (Collins, 1958; Baccaert, 1987; Horton *et al.*, 2003), New Guinea (Haig, 1988; Langer & Lipps, 2003), Solomon Islands (Hughes, 1977), and Society Islands (Le Calvez et Salvat, 1980, Venec-Peyré et Salvat, 1981). Affinities with the Indian Ocean are also noticeable, particularly with the lagoon of Mayotte (Le Calvez in Guilcher *et al.*, 1965), the Glorioso islands (Battistini *et al.*, 1976), the Maldives (Hottinger, 1980), the Mascarene archipelago (Montaggioni, 1981), and the coasts of Kenya (Levy *et al.*, 1982). Some species collected in New Caledonia are typical of Pacific and Indopacific provinces. They are: *Textularia foliacea*, *Clavulina difformis*, *Quinqueloculina kerimbatica*, *Pyrgo striolata*, *Alveolinella quoyi*, *Schlumbergerina alveoliniformis*, *Epistomaroides polystomelloides*, *Amphistegina lessonii*, *Planorbulinella larvata*, *Cymbaloporeta bradyi*, *Cymbaloporella tabellaeformis* and *Anomalinella rostrata*. Other may be found in other geographical provinces: *Marginopora vertebralis*, *Sorites marginalis*, *Amphisorus hemprichii*, *Peneroplis pertusus* and *Planorbulina acervalis*. Some of them may also live in temperate waters: *Triloculina tricarinata*, *Triloculina trigonula*, *Eponides repandus* and *Lobatula lobatulus*.

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## LIST OF THE TAXA

### Ordre Foraminiferida Eichwald, 1830

#### Suborder ALLOGROMIINA Loeblich & Tappan, 1961,

##### Family ALLOGROMIIDAE Rhumbler, 1904

Subfamily ARGILLOTUBINAE Avnimelech, 1952

*Nodellum* Rhumbler, 1913

+*Nodellum membranaceum* (Brady)

#### Suborder ASTRORHIZINA Jivorec, 1953,

Superfamily ASTRORHIZACEA Brady, 1881

##### Family RHABDAMMINIDAE Brady, 1884

Subfamily RHABDAMMININAE Brady, 1884

*Oculosiphon* Avnimelech, 1952

+*Oculosiphon linearis* (Brady)

*Rhabdammina* Sars, 1869

+*Rhabdammina abyssorum* (Sars)

##### Family PSAMMOSPHAERIDAE Haeckel, 1894

Subfamily PSAMMOSPHAERINAE Haeckel, 1894

*Psammosphaera* Schulze, 1875

*Psammosphaera* sp.

##### Family SACCAMMINIDAE Brady, 1884

Subfamily SACCAMMININAE Brady, 1884

*Saccamina* Carpenter, 1869

+*Saccamina sphaerica* (Sars)

Superfamily HIPPOCREPINACEA Rhumbler, 1895

##### Family HIPPOCREPINIDAE Rhumbler, 1895

Subfamily HYPERAMMININAE Eimer & Fickert, 1899

*Hyperamina* Brady, 1878

+*Hyperamina elongata* (Brady)

*Saccorhiza* Eimer & Fickert, 1899

+*Saccorhiza ramosa* (Brady)

#### Suborder HAPLOPHRAGMIINA Wedekind, 1937,

Superfamily AMMODISCACEA Reuss, 1862

- Family AMMODISCIDAE Reuss, 1862**  
 Subfamily AMMODISCINAE Reuss, 1862  
*Ammodiscus* Reuss, 1862  
 °*Ammodiscus* sp.
- Subfamily TOLYPAMMININAE Cushman, 1928  
*Ammolagena* Eimer & Fickert, 1899  
 +*Ammolagena clavata* (Parker & Jones)
- Subfamily AMMOVERTELLININAE Saidova, 1981  
*Glomospira* Rzehak, 1885  
 +*Glomospira charoides* (Jones & Parker)
- Superfamily HORMOSINACEA Haeckel, 1894  
**Family HORMOSINIDAE Haeckel, 1894**  
 Subfamily *Reophacinae* Cushman, 1910  
*Reophax* de Montfort, 1808  
*Reophax agglutinans* Cushman  
 +*Reophax ampullacea* (Brady)  
 +*Reophax distans* (Brady)  
 +*Reophax fusiformis* (Williamson)  
*Reophax irregularis* Parker  
 +*Reophax nodulosus* (Brady)  
*Reophax scorpiurus* de Montfort  
 +*Reophax spiculifer* (Brady)
- Subfamily *Hormosininae* Haeckel, 1894  
*Reophanus* Saidova, 1970  
*Reophanus (Hormosina) ovicula* (Brady)
- Superfamily LITUOLACEA de Blainville, 1827  
**Family HAPLOPHRAGMOIDIDAE Maync, 1952**  
*Haplophragmoides* Cushman, 1910  
*Haplophragmoides canariensis* (d'Orbigny)  
 °*Haplophragmoides wilberti* Andersen
- Family DISCAMMINIDAE Mikhalevich, 1980**  
*Ammoscalaria* Höglund, 1947  
 +*Ammoscalaria pseudospiralis* (Williamson)
- Family LITUOTUBIDAE Loeblich & Tappan, 1984**  
*Lituotuba* Rhumbler, 1895  
 +*Lituotuba lituiformis* (Brady)
- Family LITUOLIDAE de Blainville, 1827**  
 Subfamily AMMOMARGINULININAE Podobina 1978  
*Ammobaculites* Cushman, 1910  
 +*Ammobaculites agglutinans* (d'Orbigny)  
 +*Ammobaculites calcareus* (Brady)  
 °*Ammobaculites exiguus* Cushman & Bronnimann  
*Ammobaculites reophaciformis* Cushman  
 °*Ammobaculites* sp.
- Ammotium* Loeblich & Tappan, 1953  
 °*Ammotium cassis* (Parker)  
 °*Ammotium salsum* (Cushman & Bronnimann)
- Family PLACOPSILINIDAE Rhumbler, 1913**  
 Subfamily PLACOPSILININAE Rhumbler, 1913

- Placopsilina* d'Orbigny, 1850  
*Placopsilina bradyi* Cushman et MC Culloch
- Superfamily HAPLOPHRAGMIACEA Eimer & Fickert, 1899  
**Family AMMOSPHAEROIDINIDAE Cushman, 1927**  
 Subfamily AMMOSPHAEROIDININAE Cushman, 1927  
*Cystammina* Neumayr, 1889  
 +*Cystammina galeata* (Brady)
- Superfamily LOFTUSIACEA Brady, 1884  
**Family CYCLAMMINIDAE Marie, 1941**  
 Subfamily ALVEOLOPHRAGMIINAE Saidova, 1981  
*Alveolophragmium* Shchedrina, 1936  
 +*Alveolophragmium subglobosum* (Sars)  
 +*Alveolophragmium zealandicum* (Vella)
- Subfamily CYCLAMMININAE Marie, 1941  
*Cyclammina* Brady, 1879  
 +*Cyclammina cancellata* (Brady)  
 +*Cyclammina trullissatz* (Brady)
- Superfamily SPIROPECTAMMINACEA Cushman, 1927  
**Family SPIROPECTAMMINIDAE Cushman, 1927**  
 Subfamily SPIROTEXTULARIINAE Saidova, 1975  
*Spirotextularia* Saidova, 1975  
*Spirotextularia fistulosa* (Brady)
- Family NOURIIDAE Chapman & Parr, 1936**  
*Nouria* Heron-Allen & Earland, 1914  
*Nouria polymorphinoides* Heron-Allen et Earland
- Superfamily VERNEULINACEA Cushman, 1911  
**Family VERNEULINIDAE Cushman, 1911**  
 Subfamily VERNEULININAE Cushman, 1911  
*Gaudryina* d'Orbigny, 1839  
*Gaudryina* (*Pseudogaudryina*) *concava* Collins  
 °*Gaudryina exilis* Cushman & Bronnimann  
*Gaudryina quadrangularis* Bagg  
 +*Gaudryina robusta* (Cushman)  
 +*Gaudryina rudis* (Wright)  
*Siphogaudryina* Cushman, 1935  
*Siphogaudryina rugulosa* (Cushman)  
 +*Siphogaudryina siphonifera* (Brady)
- Superfamily ATAXOPHRAGMIACEA Schwager, 1877  
**Family GLOBOTEXTULARIIDAE Cushman, 1927**  
 Subfamily LIEBUSELLINAE Saidova, 1981  
*Liebusella* Cushman, 1933  
 +*Liebusella soldanii* (Jones & Parker)
- Suborder TROCHAMMININA Schwager, 1877**  
**Family TROCHAMMINIDAE Schwager, 1877**  
 Subfamily TROCHAMMININAE Schwager, 1877  
*Trochammina* Parker & Jones, 1859  
 °*Trochammina inflata* (Montagu)
- Subfamily ROTALIAMMININAE Saidova, 1981  
*Siphotrochammina* Saunders, 1957

- °*Siphotrochammina lobata* Saunders
- Subfamily JADAMMININAE Saidova, 1981
  - Jadammina* Bartenstein & Brand, 1938
  - °*Jadammina macrescens* (Brady)
- Subfamily ARENOPARRELLINAE Saidova, 1981
  - Arenoparrella* Andersen, 1951
  - °*Arenoparrella mexicana* (Kornfeld)
- Suborder TEXTULARIINA Delage et Herouard, 1986**
- Superfamily TEXTULARIACEA Ehrenberg, 1838
- Family EGGERELLIDAE Cushman, 1937**
  - Subfamily DOROTHIINAE Balakhmatova, 1972
    - Dorothia* Plummer, 1931
    - +*Dorothia scabra* (Brady)
  - Subfamily EGGERELLINAE Cushman, 1937
    - Eggerella* Cushman, 1935
    - +*Eggerella bradyi* (Cushman)
    - +*Eggerella ghumboldtii* (Todd & Bronnimann)
    - Karrieriella* Cushman, 1933
    - +*Karrieriella bradyi* (Cushman)
    - Martinottiella* Cushman, 1933
    - +*Martinottiella bradyana* (Cushman)
    - +*Martinottiella nodulosa* (Cushman)
- Family TEXTULARIIDAE Ehrenberg, 1838**
  - Subfamily TEXTULARIINAE Ehrenberg, 1838
    - Bigenerina* d'Orbigny, 1826
    - +*Bigenerina nodosaria* (d'Orbigny)
    - Sahulia* Loeblich & Tappan, 1985
    - Sahulia barkeri* (Hofker)
    - Sahulia conica* (d'Orbigny)
    - Sahulia kerimbaensis* (Said)
    - Textularia* Defrance, 1824
      - Textularia agglutinans* d'Orbigny
      - Textularia baretii* Jones and Parker
      - Textularia candeiana* d'Orbigny
      - Textularia conica* d'Orbigny
      - \**Textularia* aff. *conica corrugata* Heron-Allen et Earland
      - Textularia fistulosa* Brady
      - Textularia foliacea* Heron-Allen & Earland *foliacea* Heron-Allen & Earland
      - Textularia foliacea* Heron-Allen & Earland *occidentalis* Cushman
      - Textularia foliacea* Heron-Allen et Earland *oceanica* Cushman
      - Textularia goesii* Cushman
      - Textularia kerimbaensis* Said
      - \**Textularia lateralis* Lalicker
      - Textularia orbica* Lalicker et Mc Culloch
      - Textularia pseudogramen* Chapman et Parr
      - \**Textularia pseudoturris* Cushman
      - Textularia rugulosa* Cushman
      - Textularia semialata* Cushman

- Subfamily SIPHOTEXTULARIINAE Loeblich & Tappan, 1985  
*Siphotextularia* Finlay, 1939  
*Siphotextularia heterostoma* (Brady)  
*Siphotextularia* sp.
- Subfamily Planctostomatinae L. & Tappan, 1984  
*Planctostoma* Loeblich & Tappan, 1955  
*Planctostoma luculenta* (Brady)
- Subfamily SEPTOTEXTULARIINAE Loeblich & Tappan, 1985  
*Septotextularia* Cheng & Zheng, 1978  
*Septotextularia rugosa* Cheng & Zheng
- Family PSEUDOGAUDRYINIDAE Loeblich & Tappan, 1985**  
Subfamily SIPHONIFEROIDINAE Loeblich & Tappan, 1985  
*Plotnikovina* Mikhalevich, 1981  
*Plotnikovina transversaria* (Brady)  
*Siphoniferoides* Saidova, 1981  
*Siphoniferoides siphoniferus* (Brady)
- Family VALVULINIDAE Berthelin, 1880**  
Subfamily VALVULININAE Berthelin, 1880  
*Clavulina* d'Orbigny, 1826  
*Clavulina difformis* Brady  
*Clavulina multicamerata* Chapman  
*Clavulina nodosaria* d'Orbigny  
*Clavulina pacifica* Cushman  
*Clavulina tricarinata* d'Orbigny  
*Cylindroclavulina* Bermudez & Key, 1952  
+*Cylindroclavulina bradyi* (Cushman)
- Suborder INVOLUTININA Hohenegger & Piller, 1977**  
**Family INVOLUTINIDAE Bütschli, 1880**  
Subfamily INVOLUTININAE Bütschli, 1880  
*Involutina* Terquem, 1862  
+*Involutina tenuis* (Brady)
- Suborder SPIRILLININA Hohenegger & Piller, 1975**  
**Family SPIRILLINIDAE Reuss & Fritsch, 1861**  
*Mychostomina* Berthelin, 1881  
*Mychostomina revertens* (Rhumbler)  
*Spirillina* Ehrenberg, 1843  
*Spirillina denticulata* Brady  
\**Spirillina inaequalis* Brady  
*Spirillina spinigera* Chapman  
+*Spirillina tuberculata* (Brady)  
*Spirillina vivipara* Ehrenberg
- Family PATELLINIDAE Rhumbler, 1906**  
Subfamily PATELLININAE Rhumbler, 1906  
*Patellina* Williamson, 1858  
*Patellina advena* Cushman *altiformis* Cushman  
*Patellina corrugata* Williamson
- Suborder CARTERININA Loeblich & Tappan, 1981**  
**Family CARTERINIDAE Loeblich & Tappan, 1955**  
*Carterina* Brady, 1884



- Carterina spiculotesta* (Carter)
- Suborder MILIOLINA Delage & Herouard, 1896,**
- Superfamily CORNUSPIRACEA Schultze, 1854
- Family CORNUSPIRIDAE Schultze, 1854**
- Subfamily CORNUSPIRINAE Schultze, 1854
- Cornuspira* Schultze, 1854
- \**Cornuspira involvens* (Reuss)
- Cornuspira planorbis* Schultze
- Family FISCHERINIDAE Millett, 1898**
- Subfamily FISCHERININAE Millett, 1898
- Planispirinella* Wiesner, 1931
- Planispirinella exigua* (Brady)
- Subfamily FISCHERINELLINAE Saidova, 1981
- Fischerinella* Loeblich & Tappan, 1962
- Fisherinella pellucida* (Millett)
- Subfamily NODOBACULARIELLINAE Bogdanovich, 1981
- Nodobaculariella* Cushman & Hanzawa, 1937
- \**Nodobaculariella convexiuscula* (Brady)
- Nodobaculariella japonica* Cushman & Ozawa
- Nodobaculariella rustica* Cushman et Todd
- Vertebralina* d'Orbigny, 1826
- Vertebralina insignis* Brady
- Vertebralina striata* d'Orbigny
- Wiesnerella* Cushman, 1933
- Wiesnerella auriculata* (Egger)
- Family NUBECULARIIDAE Jones, 1875**
- Subfamily NODOPHTHALMIDIINAE Cushman, 1940
- Nodophthalmidium* Macfadyen, 1939
- Nodophthalmidium antillarum* (Cushman)
- Subfamily NODOBACULARIINAE Cushman, 1927
- Nodobacularia* Rhumbler, 1895
- Nodobacularia antillarum* Cushman var. *pacifica* Cushman, 1932
- Nodobacularia sageninaeformis* Hofker, 1976
- Nubeculina* Cushman, 1924
- Nubeculina divaricata* (Brady) var. *advena* Cushman
- Subfamily NUBECULARIINAE Jones, 1875
- Nubecularia* Defrance, 1825
- Nubecularia lucifuga* Defrance
- Family OPHTHALMIDIIDAE Wiesner, 1920**
- Cornuloculina* Burbach, 1886
- +*Cornuloculina (Hauerinella) inconstans* (Brady)
- Edentostomina* Collins, 1958
- Edentostomina cultrata* (Brady)
- Superfamily MILIOLACEA Ehrenberg, 1839
- Family SPIROLOCULINIDAE Wiesner, 1920**
- Inaequalina* Luckzkowska, 1971
- Inaequalina affixa* (Terquem)
- Spiroloculina* d'Orbigny, 1826
- Spiroloculina acescata* Cushman

*Spiroloculina angulata* Cushman  
*Spiroloculina antillarum* d'Orbigny  
*Spiroloculina caduca* Cushman  
*Spiroloculina clara* Cushman  
*Spiroloculina communis* Cushman et Todd  
*Spiroloculina convexa* Said  
*Spiroloculina corrugata* Cushman et Todd  
 \**Spiroloculina depressa* d'Orbigny  
*Spiroloculina disparilis* Terquem  
*Spiroloculina foveolata* Egger  
*Spiroloculina nummiformis* Said  
*Spiroloculina ornata* d'Orbigny  
*Spiroloculina samoensis* Cushman  
 \**Spiroloculina scita* Cushman et Todd

**Family HAUERINIDAE Schwager, 1876**

Subfamily SIPHONAPERTINAE Saidova, 1975

*Ammomassilina* Cushman, 1933  
*Ammomassilina alveoliniformis* (Millett)  
*Schlumbergerina* Munier-Chalmas, 1882  
*Schlumbergerina alveoliniformis* (Brady)  
*Siphonaperta* Vella, 1957  
*Siphonaperta agglutinans* (d'Orbigny)  
*Siphonaperta anguina* (Terquem) arenata (Said)  
*Siphonaperta distorta* (Cushman)  
*Siphonaperta enoplostoma* (d'Orbigny)  
*Siphonaperta pittensis* (Albani)

Subfamily HAUERININAE Schwager, 1876

*Cycloforina* Luczkowska, 1972  
*Cycloforina crassicarinata* (Collins)  
*Cycloforina ? littoralis* (Collins)  
*Cycloforina philippinensis* (Cushman)  
*Cycloforina quinquecarinata* (Collins)  
*Cycloforina sulcata* (d'Orbigny)  
*Hauerina* d'Orbigny, 1839  
 \**Hauerina bradyi* Cushman  
*Hauerina diversa* Cushman  
 \**Hauerina involuta* Cushman  
*Hauerina ornatissima* (Karrer)  
*Hauerina pacifica* Cushman

*Lachlanella* Vella, 1957  
*Lachlanella bidentata* (d'Orbigny)  
*Lachlanella parkeri* (Brady)  
*Lachlanella subpolygona* (Parr)  
*Lachlanella subrugosa* (Collins)

*Massilina* Schlumberger, 1893

*Massilina crenata* (Karrer)  
*Massilina inaequalis* Cushman

*Quinqueloculina* d'Orbigny, 1826

*Quinqueloculina agglutinans* d'Orbigny

*Quinqueloculina anguina* Terquem var. *arenata* Said  
*Quinqueloculina barnardi* Rasheed  
*Quinqueloculina* cf. *berthelotiana* d'Orbigny  
*Quinqueloculina bicarinata* d'Orbigny  
*Quinqueloculina bicostata* d'Orbigny  
*Quinqueloculina bidentata* d'Orbigny  
*Quinqueloculina boschiana* d'Orbigny  
+ *Quinqueloculina* cf. *bradyana* (Barker)  
*Quinqueloculina crassa* Heron-Allen et Earland  
*Quinqueloculina crassicarinata* Collins  
\* *Quinqueloculina crenulata* Cushman  
*Quinqueloculina cuvieriarana* d'Orbigny var. *queenslandica* Collins  
*Quinqueloculina disparilis* d'Orbigny var. *curta* Cushman  
*Quinqueloculina funafutiensis* (Chapman)  
*Quinqueloculina granulocostata* Germeraad  
*Quinqueloculina hadaii* Rasheed  
*Quinqueloculina* cf. *irregularis* d'Orbigny  
*Quinqueloculina kerimbatica* Heron-Allen et Earland var. *philippinensis* Cushman  
*Quinqueloculina lamarckiana* d'Orbigny in de la Sagra  
+ *Quinqueloculina limbata* (d'Orbigny)  
*Quinqueloculina milletti* (Weisner)  
*Quinqueloculina oblonga* (Montagu)  
*Quinqueloculina parkeri* (Brady)  
*Quinqueloculina pittensis* Albani  
*Quinqueloculina polygona* d'Orbigny  
*Quinqueloculina pseudoreticulata* Parr  
*Quinqueloculina samoensis* Cushman  
° *Quinqueloculina seminula* (Linné)  
*Quinqueloculina striatula* Cushman  
+ *Quinqueloculina subcuneata* (Cushman)  
*Quinqueloculina sulcata* d'Orbigny  
*Quinqueloculina tropicalis* Cushman,  
*Quinqueloculina tubus* Todd  
\* *Quinqueloculina variolata* d'Orbigny

Subfamily MILIOLINELLINAE Vella, 1957

*Affinetrina* Luczkowska, 1972  
*Affinetrina bicarinata* (d'Orbigny)  
*Affinetrina quadrilateralis* (d'Orbigny)  
*Flintina* Cushman, 1921  
*Flintina bradyana* Cushman  
*Flintinoides* Cherif, 1970  
*Flintinoides labiosa* (d'Orbigny)  
*Miliolinella* Wiesner, 1931  
*Miliolinella albatrossi* Baccaert  
*Miliolinella australis* (Parr)  
*Miliolinella baragwanathi* (Parr)  
+ *Miliolinella subrotunda* (Montagu)  
\* *Miliolinella webbiana* (d'Orbigny)  
*Pseudomassilina* Lacroix, 1938

*Pseudomassilina australis* (Cushman)  
*Pseudomassilina macilenta* (Brady)  
*Pseudomassilina pacificensis* Cushman  
*Pseudotriloculina* Cherif, 1970  
*Pseudotriloculina* ? *eburnea* (d'Orbigny)  
*Pseudotriloculina linneiana* (d'Orbigny)  
*Pseudotriloculina subgranulata* (Cushman)  
*Pyrgo* Defrance, 1824  
*Pyrgo denticulata* (Brady)  
+*Pyrgo depressa* (d'Orbigny)  
+*Pyrgo lucernula* (Schwager)  
+*Pyrgo murrhyna* (Schwager)  
*Pyrgo oblonga* (d'Orbigny)  
+*Pyrgo serrata* (Bailey)  
*Pyrgo striolata* (Brady)  
*Pyrgo subglobulus* Parr  
+*Pyrgo vespertilio* (Schlumberger)  
*Triloculina* d'Orbigny, 1826  
*Triloculina austriaca* d'Orbigny  
*Triloculina bassensis* Parr  
*Triloculina bertheliniana* (Brady)  
*Triloculina cuneata* Karrer  
*Triloculina earlandi* Cushman, Todd & Post  
*Triloculina fichteliana* d'Orbigny  
*Triloculina* cf. *gracilis* d'Orbigny  
+*Triloculina irregularis* (d'Orbigny)  
*Triloculina labiosa* d'Orbigny  
*Triloculina laevigata* d'Orbigny  
\**Triloculina linneiana* d'Orbigny  
*Triloculina linneiana* d'Orbigny var. *gomis* Bandy  
*Triloculina littoralis* Collins  
*Triloculina marshallana* Todd  
*Triloculina oblonga* (Montagu)  
*Triloculina oceanica* Cushman  
*Triloculina planciana* d'Orbigny in de la Sagra  
*Triloculina reticulata* d'Orbigny var. *sagra* (d'Orbigny)  
*Triloculina rotunda* d'Orbigny  
*Triloculina sabulosa* Collins  
*Triloculina terquemiana* (Brady)  
*Triloculina transversestriata* Brady  
*Triloculina tricarinata* d'Orbigny  
*Triloculina trigonula* (Lamarck)  
*Triloculinella* Riccio, 1950  
*Triloculinella (Scutuloris) baragwanathi* (Parr)  
\**Triloculinella (Scutuloris) circularis* (Bornemann)  
*Varidentella* Luczkowska, 1972  
*Varidentella neostriatula* (Thalmann)  
Subfamily SIGMOILINITINAE Luczkowska, 1974  
*Nummoloculina* Steinmann, 1881

- +*Nummoloculina contraria* (d'Orbigny)
- Sigmoilina* Schlumberger, 1887
- +*Sigmoilina carinata* (Hofker)
- \**Sigmoilina* cf. *porcellana* Germeraad
- Spirosigmoilina* Parr, 1942
- Spirosigmoilina bradyi* Collins
- Spirosigmoilina parri* Collins
- Subfamily SIGMOILOPSINAE Vella, 1957
- Sigmoilopsis* Finlay, 1947
- +*Sigmoilopsis schlumbergeri* (Silvestri)
- Subfamily TUBINELLINAE Rhumbler, 1906
- Articulina* d'Orbigny, 1826
- Articulina alticostata* Cushman
- Articulina mucronata* (d'Orbigny)
- Articulina pacifica* Cushman
- Articulina sagra* d'Orbigny
- Articulina scrobiculata* (Brady)
- Parrina* Cushman, 1931
- Parrina bradyi* (Millett)
- Tubinella* Rhumbler, 1906
- Tubinella funalis* (Brady)
- Family RIVEROINIDAE Saidova, 1981**
- Pseudohauerina* Ponder, 1972
- Pseudohauerina occidentalis* var. *involuta* (Cushman)
- Pseudohauerina orientalis* (Cushman)
- Superfamily ALVEOLINACEA Ehrenberg, 1839
- Family ALVEOLINIDAE Ehrenberg, 1839**
- Alveolinella* Douvillé, 1907
- Alveolinella boscii* Defrance
- Alveolinella quoyi* (d'Orbigny)
- Borelis* de Monfort, 1808
- Borelis pulchra* d'Orbigny
- Superfamily SORITACEA Ehrenberg, 1839
- Family Peneroplidae Schultze, 1854**
- Monalysidium* Chapman, 1900
- Monalysidium acicularis* (Batsch)
- Monalysidium politum* Chapman
- Peneroplis* de Monfort, 1808
- Peneroplis pertusus* (Forskal)
- Peneroplis planatus* (Fichtel et Moll)
- Spirolina* Lamarck, 1804
- Spirolina arietina* (Batsch)
- Family SORITIDAE Ehrenberg, 1839**
- Subfamily SORITINAE Ehrenberg, 1839
- Amphisorus* Ehrenberg, 1839
- Amphisorus hemprichii* Ehrenberg
- Marginopora* Quoy & Gaimard, 1830
- Marginopora vertebralis* Quoy et Gaimard
- Sorites* Ehrenberg, 1839

*Sorites marginalis* (Lamarck)

*Sorites orbitolitoides* (Hofker)

**Suborder LAGENINA Delage & Herouard, 1896**

Superfamily NODOSARIACEA Ehrenberg, 1838

**Family NODOSARIIDAE Ehrenberg, 1838**

Subfamily NODOSARIINAE Ehrenberg, 1838

*Dentalina* Risso, 1826

+*Dentalina communis* (d'Orbigny)

*Dentalina filiformis* (d'Orbigny)

+*Dentalina guttifera* (d'Orbigny)

*Laevidentalina* Loeblich & Tappan, 1986

*Laevidentalina* sp.

*Nodosaria* Lamarck, 1812

*Nodosaria proxima* Silvestri

*Pyramidulina* Fornasini, 1894

*Pyramidulina catesbyi* (d'Orbigny)

Subfamily LINGULININAE Loeblich & Tappan, 1961

*Lingulina* d'Orbigny, 1826

*Lingulina carinata* d'Orbigny

**Family VAGINULINIDAE Reuss, 1860**

Subfamily LENTICULININAE Chapman, Parr & Collins, 1934

*Lenticulina* Lamarck, 1804

+*Lenticulina asterizans* (Parr)

+*Lenticulina calcar* (Linné)

*Lenticulina gibba* (d'Orbigny)

+*Lenticulina subconvergens* (Saidova)

*Lenticulina vortex* (Fichtel et Moll)

Subfamily PALMULININAE Saidova 1981

*Frondivaginulina* Schubert, 1912

*Frondivaginulina ? robusta* (Brady)

Subfamily MARGINULININAE Wedekind, 1937

*Amphicoryna* Schlumberger, 1881

+*Amphicoryna hirsuta* (d'Orbigny)

+*Amphicoryna scalaris* (Batsch)

*Amphicoryna separans* (Brady)

*Astacolus* de Monfort, 1808

+*Astacolus crepidulus* (Fichtel & Moll)

*Vaginulinopsis* Silvestri, 1904

+*Vaginulinopsis pacifica* (Cushman & Ozawa)

**Family LAGENIDAE Reuss, 1862**

*Lagena* Walker & Jacob, 1798

*Lagena desmophora* Rymer-Jones

*Lagena gracilis* Williamson

+*Lagena hispida* (Reuss)

*Lagena laevis* (Montagu)

*Lagena perlucida* (Montagu)

*Lagena spiralis* Brady

*Lagena striata* d'Orbigny

*Lagena strumosa* REUSS

*Lagena sulcata* Walker & Jacob var. *spicata* Cushman et Mc Culloch

**Family POLYMORPHINIDAE d'Orbigny, 1839**

Subfamily POLYMORPHININAE d'Orbigny, 1839

*Globulina* d'Orbigny, 1839

*Globulina gibba tuberculata* d'Orbigny

*Guttulina* d'Orbigny, 1839

*Guttulina problema* d'Orbigny

*Guttulina regina* (Brady, Parker et Jones)

*Pseudopolymorphina* Cushman & Ozawa, 1928

\**Pseudopolymorphina ligua* (Roemer)

*Pseudopolymorphina ovalis* Cushman et Ozawa

Subfamily RAMULININAE Brady, 1884

*Ramulina* Jones, 1875

+*Ramulina globulifera* (Brady)

**Family ELLIPSOLAGENIDAE Silvestri, 1923**

Subfamily OOLININAE Loeblich & Tappan, 1961

*Favulina* Patterson & Richardson, 1987

*Favulina hexagona* (Williamson)

*Favulina squamosa* (Montagu)

*Oolina* d'Orbigny, 1839

\**Oolina globosa* (Montagu)

Subfamily ELLIPSOLAGENINAE Silvestri, 1923

*Fissurina* Reuss, 1850

*Fissurina circularis* Todd

*Fissurina clathrata* (Brady)

+*Fissurina kerguelenensis* (Parr)

*Fissurina lacunata* (Burrows & Holland)

*Fissurina lagenoides* (Williamson)

°*Fissurina lucida* (Williamson)

*Fissurina milletti* Todd

*Fissurina perforata* (Möbius)

*Fissurina radiato-marginata* (Parker et Jones)

\**Fissurina squamoso-marginata* (Parker et Jones)

**Family GLANDULINIDAE Reuss, 1860**

Subfamily GLANDULININAE Reuss, 1860

*Glandulina* d'Orbigny, 1839

*Glandulina laevigata* d'Orbigny

**Suborder ROBERTININA Loeblich & Tappan, 1984**

Superfamily CERATOBULIMINACEA Cushman, 1927

**Family CERATOBULIMINIDAE Cushman, 1927**

Subfamily CERATOBULIMININAE Cushman, 1927

*Ceratobulimina* Toulou, 1915

+*Ceratobulimina pacifica* (Cushman & Harris)

*Lamarckina* Berthelin, 1881

*Lamarckina scabra* (Brady)

**Family EPISTOMINIDAE Wedekind, 1937**

Subfamily EPISTOMININAE Wedekind, 1937

*Hoeglundina* Brotzen, 1948

+*Hoeglundina elegans* (d'Orbigny)

Superfamily ROBERTINACEA Reuss, 1850

**Family ROBERTINIDAE Reuss, 1850**

Subfamily ALLIATININAE McGowran, 1966

*Alliatina* Troelsen, 1954

*Alliatina translucens* (Cushman)

*Geminospira* Makiyama & Nakagawa, 1941

*Geminospira brady* (Williamson)

*Geminospira* sp.

**Suborder GLOBIGERININA Delage & Hérouard, 1896,**

Superfamily GLOBOROTALIACEA Cush., 1927

**Family GLOBOROTALIIDAE Cushman, 1927**

*Globorotalia* Cushman, 1927

*Globorotalia anfracta* Parker

*Globorotalia bermudezi* Rogl & Bolli

*Globorotalia cavernula* Bé

*Globorotalia crassaformis* (Galloway)

*Globorotalia ? erinacea* (Heron Allen & Earland)

*Globorotalia hirsuta* (d'Orbigny)

*Globorotalia inflata* d'Orbigny

*Globorotalia menardii* (Parker, Jones & Brady)

*Globorotalia scitula* (Brady)

*Globorotalia theyeri* Fleisher

*Globorotalia truncatulinoides* (d'Orbigny)

*Globorotalia tumida* (Brady)

*Globorotalia ungulata* Bermudez

*Neogloboquadrina* Bandy, Frerichs & Vincent, 1967

*Neogloboquadrina dutertrei* (d'Orbigny)

*Neogloboquadrina pachyderma* (Ehrenberg)

*Turborotalia* Cushman & Bermudez, 1949

*Turborotalia cristata* Heron-Allen & Earland

*Turborotalia humilis* (Brady)

**Family PULLENIATINIDAE Cushman, 1927**

*Pulleniatina* Cushman, 1927

*Pulleniatina obliquiloculata* (Parker & Jones)

**Family CANDEINIDAE Cushman, 1927**

Subfamily GLOBIGERINITINAE Bermudez, 1961

*Globigerinita* Brönnimann, 1951

*Globigerinita glutinata* (Egger)

*Globigerinita parkerae* (Bermudez)

*Globigerinita uvula* (Ehrenberg)

Subfamily CANDEININAE Cushman, 1927

*Candeina* d'Orbigny, 1839

*Candeina nitida* d'Orbigny

**Family CATAPSYDRACIDAE Boli, Loeblich & Tappan, 1957**

*Globorotaloides* Bolli, 1957

*Globorotaloides hexagona* (Natland)

Superfamily GLOBIGERINACEA Carpenter, Parker & Jones, 1862

**Family GLOBIGERINIDAE Carpenter, Parker & Jones, 1862**

Subfamily GLOBIGERININAE Carpenter, Parker & Jones, 1862



*Beella* Banner & Blow, 1960  
     *Beella digitata* (Brady)  
*Globigerina* d'Orbigny, 1826  
     *Globigerina bulloides* d'Orbigny  
     *Globigerina eggeri* Rhumbler  
     *Globigerina falconensis* Blow  
     *Globigerina rubescens* Hofker  
     *Globigerina tricamerata* Tolmachhoff  
*Globigerinella* Cushman, 1927  
     *Globigerinella aequilateralis* (Brady)  
     *Globigerinella calida* (Parker)  
     *Globigerinella obesa* (Bolli)  
*Globigerinoides* Cushman, 1927  
     *Globigerinoides conglobatus* (Brady)  
     *Globigerinoides ruber* (d'Orbigny)  
     *Globigerinoides sacculifer* (Brady)  
     *Globigerinoides tenelus* Parker  
     *Globigerinoides trilobus* (Reuss)  
*Sphaeroidinella* Cushman, 1927  
     *Sphaeroidinella dehiscens* (Parker & Jones)  
 Subfamily ORBULININAE Schultze, 1854  
     *Orbulina* d'Orbigny, 1839  
         *Orbulina bilobata* d'Orbigny  
         *Orbulina suturalis* Bronnimann  
         *Orbulina universa* d'Orbigny  
**Family HASTIGERINIDAE Bolli, L. & Tappan, 1957**  
     *Hastigerina* Thomson, 1876  
         *Hastigerina pelagica* d'Orbigny  
**Suborder ROTALIINA Delage & Hérouard, 1896**  
 Superfamily BOLIVINACEA Glaessner, 1937  
**Family BOLIVINIDAE Glaessner, 1937**  
     *Bolivina* d'Orbigny, 1839  
         *Bolivina abbreviata* Heron Allen & Earland  
         *Bolivina (Loxostoma) amygdalaeformis* (Brady)  
         *Bolivina compacta* Sidebottom  
         *Bolivina (Loxostoma) convallarium* (Millett)  
         *Bolivina (Loxostoma) durrandii* (Millett)  
         +*Bolivina hantkeniana* (Brady)  
         *Bolivina (Loxostoma) karrerianum* (Brady)  
         *Bolivina (Loxostoma) limbatum* (Brady) var. *costulatum* (Cushman)  
         *Bolivina rhomboidalis* (Millett)  
         *Bolivina robusta* Brady  
         \**Bolivina semi-costata* Cushman  
         *Bolivina spinea* Cushman  
         *Bolivina (Loxostoma) strigosum* (Brady)  
         *Bolivina subangularis* Brady  
         *Bolivina subtenuis* Cushman  
         *Bolivina vadescens* Cushman  
         *Bolivina (Loxostoma) cf. vertebralis* (Cushman)

- Brizalina* Costa, 1856  
*Brizalina convallaria durandii* (Millet)  
 °*Brizalina* cf. *pacifica* (Cushman & McCulloch)  
 °*Brizalina striatula* (Cushman)
- Superfamily LOXOSTOMATACEA L. & Tappan, 1962  
**Family BOLIVINELLIDAE Hayward, 1980**  
*Bolivinella* Cushman, 1927  
*Bolivinella elegans* Parr  
*Bolivinella folia* (Parker & Jones ) var. *ornata* Cushman  
*Bolivinella margaritacea* Cushman
- Superfamily CASSIDULINACEA d'Orbigny, 1839  
**Family CASSIDULINIDAE d'Orbigny, 1839**  
 Subfamily CASSIDULININAE d'Orbigny, 1839  
*Cassidulina* d'Orbigny, 1826  
 +*Cassidulina angulosa* (Cushman)  
 +*Cassidulina degaus* (Sidebottom)  
*Cassidulina minuta* Cushman  
 +*Cassidulina subglobosa* (Brady)  
*Favocassidulina* Loeblich & Tappan, 1957  
 +*Favocassidulina favus* (Brady)
- Subfamily EHRENBEGININAE Cushman, 1927  
*Ehrenbergina* Reuss, 1850  
 +*Ehrenbergina pacifica* (Cushman)  
 +*Ehrenbergina trigona* (Goes)  
*Reissia* Loeblich & Tappan, 1964  
 +*Reissia histic* (Brady)
- Superfamily BULIMINACEA Jones, 1875  
**Family SIPHOGENERINOIDIDAE Saidova, 1981**  
 Subfamily SIPHOGENERINOIDINAE Saidova, 1981  
*Rectobolivina* Cushman, 1927  
*Rectobolivina barkeri* Margerel  
 +*Rectobolivina dimorpha* (  
 +*Rectobolivina raphana* (Parker & Jones)
- Subfamily TUBULOGENERININAE Saidova, 1981  
*Siphogenerina* Schlumberger, 1882  
*Siphogenerina columellaris* (Brady)  
*Siphogenerina raphana* (Parker & Jones)  
*Siphogenerina raphana* (Parker & Jones) var. *tropicalis* Cushman  
*Siphogenerina virgula* (Brady)
- Family BULIMINIDAE Jones, 1875**  
*Globobulimina* Cushman, 1927  
*Globobulimina australiensis* Collins
- Family BULIMINELLIDAE Hofker, 1951**  
*Buliminella* Cushman, 1911  
*Buliminella latissima* Collins  
*Buliminella milletti* Cushman  
*Buliminella spicata* Cushman & Parker
- Family UVIGERINIDAE Haeckel, 1894**  
 Subfamily UVIGERININAE Haeckel, 1894

- Neouvigerina* Thalmann, 1952  
 +*Neouvigerina porrecta* (Brady)
- Siphouvigerina* Parr, 1950  
*Siphouvigerina proboscidea* (Schwager)
- Uvigerina* d'Orbigny, 1826  
 +*Uvigerina bradyana* (Fornasi)  
*Uvigerina porrecta* Brady  
*Uvigerina porrecta* Brady *fimbriata* Sideb
- Family REUSSELLIDAE Cushman, 1933**  
*Chrysalidinella* Schubert, 1908  
*Chrysalidinella fijiensis* Cushman  
*Fijiella* Loeblich & Tappan, 1962  
*Fijiella simplex* (Cushman)  
*Reussella* Galloway, 1933  
*Reussella aculeata* Cushman  
*Reussella spinulosa* (Reuss)  
*Valvobifarina* Hofker, 1951  
*Valvobifarina mackinnoni* (Millett)
- Family TRIMOSINIDAE Saidova, 1981**  
*Mimosina* Millett, 1900  
*Mimosina affinis* Millett  
*Mimosina hystrix* Millett  
*Mimosina pacifica* Cushman
- Family PAVONINIDAE Eimer & Fickert, 1899**  
*Pavonina* d'Orbigny, 1826  
*Pavonina flabelliformis* d'Orbigny
- Family MILLETTIIDAE Saidova, 1981**  
*Millettia* Schubert, 1911  
*Millettia limbata* (Brady)
- Superfamily FURSENKOINACEA Loeblich & Tappan, 1961  
**Family FURSENKOINIDAE Loeblich & Tappan, 1961**  
*Coryphostoma* Loeblich & Tappan, 1962  
*Coryphostoma limbata* (Brady)  
*Fursenkoina* Loeblich & Tappan, 1961  
*Fursenkoina (Virgulina) earlandi* Cushman  
*Fursenkoina (Virgulina) pauciloculata* Brady  
*Sigmavirgulina* Loeblich & Tappan, 1957  
*Sigmavirgulina tortuosa* (Brady)
- Superfamily DISCORBACEA Ehrenberg, 1838,  
**Family PLACENTULINIDAE Kasimova, Poroshina & Geodakchan, 1980**  
 Subfamily ASHBROOKIINAE Loeblich & Tappan, 1984  
*Patellinella* Cushman, 1928  
*Patellinella carinata* Collins  
*Patellinella jugosa* (Brady)  
*Patellinella nitida* (Hofker)
- Family BAGGINIDAE Cushman, 1927**  
 Subfamily BAGGININAE Cushman, 1927  
*Baggina* Cushman, 1926  
*Baggina indica* (Cushman)

- Cancris* de Monfort, 1808  
*Cancris auriculus* (Fichtel & Moll)  
*Cancris indicus* (Cushman)  
*Cancris sagra* d'Orbigny  
*Physalidia* Heron-Allen & Earland, 1928  
*Physalidia reniformis* (Heron Allen & Earland)  
*Rugidia* Heron-Allen & Earland, 1928  
*Rugidia corticata* (Heron Allen & Earland)
- Family EPONIDIDAE Hofker, 1951**  
 Subfamily EPONIDINAE Hofker, 1951  
*Eponides* de Monfort, 1808  
*Eponides repandus* (Fichtel et Moll)  
*Poroeponides* Cushman, 1944  
*Poroeponides cribrorepandus* Asano et Uchio  
*Poroeponides lateralis* Cushman
- Family HELENINIDAE Loeblich & Tappan, 1988**  
*Helenina* Saunders, 1961  
 °*Helenina anderseni* (Warren)
- Family MISSISSIPPINIDAE Saidova, 1981**  
 Subfamily STOMATORBININAE Saidova, 1981  
*Stomatorbina* Doreen, 1948  
*Stomatorbina concentrica* (Parker & Jones)  
 Subfamily MISSISSIPPININAE Saidova, 1981  
*Mississippina* Howe, 1930  
*Mississippina pacifica* Parr
- Family PEGIDIIDAE Heron-Allen & Earland, 1928**  
*Pegidia* Heron-Allen & Earland, 1928  
*Pegidia dubia* d'Orbigny
- Family DISCORBIDAE Ehrenberg, 1838**  
*Discorbis* Lamarck, 1804  
*Discorbis mirus* Cushman  
*Neoeponides* Reiss, 1960  
*Neoeponides procera* (Brady)
- Family ROSALINIDAE Reiss, 1963**  
*Gavelinopsis* Hofker, 1951  
*Gavelinopsis praegeri* (Heron Allen & Earland)  
*Gavelinopsis* sp. aff. *lobatulus* (Parr)  
*Neoconorbina* Hofker, 1951  
*Neoconorbina crustata* (Cushman)  
*Neoconorbina orbicularis* (Terquem)  
*Neoconorbina pacifica* Hofker  
*Neoconorbina terquemi* (Rzehak)  
*Neoconorbina tuberocapitata* (Chapman)  
*Rosalina* d'Orbigny, 1826  
 °*Rosalina bradyi* Cushman  
*Rosalina floridana* (Cushman)  
*Rosalina globularis* d'Orbigny  
*Rosalina rugosa* d'Orbigny  
*Tretomphalus* Möbius, 1880

- Tretomphalus bulloides* d'Orbigny  
*Tretomphalus concinnus* (Brady)  
*Tretomphalus grandis* Cushman  
*Tretomphalus miletti* (Heron-Allen et Earland)  
+*Tretomphalus planus* (Cushman)
- Family BRONNIMANNIIDAE Loeblich & Tappan, 1984**  
*Bronnimannia* Bermudez, 1952  
*Bronnimannia haliotis* (Heron Allen & Earland)
- Superfamily GLABRATELLACEA Loeblich & Tappan, 1964  
**Family GLABRATELLIDAE Loeblich & Tappan, 1964**  
*Glabratella* Dorreen, 1948  
\**Glabratella patelliformis* (Brady)  
*Glabratella patelliformis* (Brady) var. *erecta* (Sidebottom)  
*Glabratella pulvinata* (Brady)  
*Glabratella pyramidalis* (Heron Allen & Earland)  
*Glabratella quadrangularis* (Uchio)  
*Glabratella tabernacularis* (Brady)  
*Glabratella wiesneri* (Parr)
- Family HERONALLENIIDAE Loeblich & Tappan, 1986**  
*Heronallenia* Chapman & Parr, 1931  
*Heronallenia otukai* Uchio
- Family BULIMINOIDIDAE Seiglie, 1970**  
*Buliminoides* Cushman, 1911  
*Buliminoides williamsonianus* (Brady)
- Superfamily SIPHONINACEA Cushman, 1927  
**Family SIPHONINIDAE Cushman, 1927**  
Subfamily SIPHONININAE Cushman, 1927  
*Siphonina* Reuss, 1850  
*Siphonina tubulosa* Cushman  
Subfamily SIPHONINOIDINAE Loeblich & Tappan, 1984  
*Siphoninoides* Cushman, 1927  
*Siphoninoides echinatus* (Brady)  
*Siphoninoides glabrus* (Heron Allen & Earland)
- Superfamily DISCORBINELLACEA Sigal, 1952  
**Family PSEUDOPARRELLIDAE Voloshinova, 1952**  
Subfamily PSEUDOPARRELLINAE Voloshinova, 1952  
*Epistominella* Husezima & Maruhasi, 1944  
*Epistominella pulchra* (Cushman)
- Family DISCORBINELLIDAE Sigal, 1952**  
Subfamily DISCORBINELLINAE Sigal, 1952  
*Discorbinella* Cushman & Martin, 1935  
*Discorbinella bertheloti* (d'Orbigny)  
*Laticarinina* Galloway & Wissler, 1927  
+*Laticarinina pamperata* (Parker & Jones)
- Superfamily PLANORBULINACEA Schwager, 1877  
**Family PLANULINIDAE Bermudez, 1952**  
*Planulina* d'Orbigny, 1826  
*Planulina ornata* (d'Orbigny)

**Family CIBICIDIDAE Cushman, 1927**

Subfamily CIBICIDINAE Cushman, 1927

*Cibicides* de Monfort, 1808

*Cibicides advenum* (d'Orbigny)

+*Cibicides bradyi* (Trauth)

*Cibicides cicatricosus* (Schwager)

*Cibicides mayori* (Cushman)

+*Cibicides refulgens* de Montfort

+*Cibicides rovertsonianus* (Brady)

+*Cibicides subhaidingeri* (Parr)

*Fontbotia* Gonzalez-Donoso & Linares, 1970

+*Fontbotia (Cibicides) wuellestorfi* (Schwager, 1866)

*Lobatula* Fleming, 1828

*Lobatula lobatula* (Walker et Jacob)

Subfamily STICHOCIBICIDINAE Saidova, 1981

*Dyocibicides* Cushman & Valentine, 1930

*Dyocibicides biserialis* Cushman et Valentine

**Family PLANORBULINIDAE Schwager, 1877**

Subfamily CARIBEANELLINAE Saidova, 1981

*Caribbeanella* Bermudez, 1952

*Caribbeanella katasensis* (Ujiie)

Subfamily PLANORBULININAE Schwager, 1877

*Cibicidella* Cushman, 1927

*Cibicidella variabilis* (d'Orbigny)

*Cibicidella* sp.

*Planorbulina* d'Orbigny, 1826

*Planorbulina acervalis* Brady

\**Planorbulina mediterraneensis* d'Orbigny

*Planorbulinella* Cushman, 1927

*Planorbulinella larvata* (Parker et Jones)

**Family CYMBALOPORIDAE Cushman, 1927**

Subfamily CYMBALOPORINAE Cushman, 1927

*Cymbaloporella* Cushman, 1927

*Cymbaloporella tabellaeformis* (Brady)

*Cymbaloporetta* Cushman, 1928

*Cymbaloporetta bradyi* (Cushman)

*Cymbaloporetta squamosa* (d'Orbigny)

**Family VICTORIELLIDAE Chapman & Crespin, 1930**

Subfamily CARPENTERIINAE Saidova, 1981

*Carpenteria* Gray, 1858

*Carpenteria balaniformis* Gray, var. *proteiformis* Goës

*Carpenteria monticularis* Carter

Superfamily ACERVULINACEA Schultze, 1854

**Family ACERVULINIDAE Schultze, 1854**

*Acervulina* Schultze, 1854

*Acervulina inhaerens* Schultze

*Gypsina* Carter, 1877

*Gypsina fimbriata* (Chapman)

*Gypsina vesicularis* (Parker et Jones)

- Sphaerogypsina* Galloway, 1933  
*Sphaerogypsina globula* (Reuss)
- Family HOMOTREMATIDAE Cushman, 1927**  
*Homotrema* Hickson, 1911  
*Homotrema rubra* (Lamarck)  
*Miniacina* Galloway, 1933  
*Miniacina miniacea* (Pallas)
- Superfamily ASTERIGERINACEA d'Orbigny, 1839
- Family ALFREDINIDAE Singh & Kalia, 1972**  
*Epistomaroides* Uchio, 1952  
*Epistomaroides polystomelloides* (Parker et Jones)
- Family AMPHISTEGINIDAE Cushman, 1927**  
*Amphistegina* d'Orbigny, 1826  
*Amphistegina bicirculata* Larsen  
*Amphistegina lessonii* d'Orbigny  
*Amphistegina lobifera* Larsen  
*Amphistegina papillosa* Said  
*Amphistegina quoyi* d'Orbigny  
*Amphistegina radiata* (Fichtel et Moll)
- Superfamily NONIONACEA Schultze, 1854
- Family NONIONIDAE Schultze, 1854**  
Subfamily NONIONINAE Schultze, 1854  
*Nonion* de Monfort, 1808  
*Nonion* cf. *asterizans* (Fichtel & Moll)  
*Nonion grateloupi* (d'Orbigny)  
+*Nonion pacificum* (Cushman)  
*Nonion subturgidum* (Cushman)  
*Nonionella* Cushman, 1926  
*Nonionella bradii* Chapman  
*Pseudononion* Asano, 1936  
+*Pseudononion japonicum* (Asano)
- Subfamily PULLENIINAE Schwager, 1877  
*Melonis* de Monfort, 1808  
+*Melonis pompiloides* (Fichtel & Moll)  
*Pullenia* Parker & Jones, 1862  
+*Pullenia bulloides* (d'Orbigny)  
+*Pullenia subcarinata* (d'Orbigny)
- Family ALMAENIDAE Myatlyuk, 1959**  
Subfamily ANOMALINELLINAE Saidova, 1981  
*Anomalinella* Cushman, 1927  
*Anomalinella rostrata* (Brady)
- Superfamily CHILOSTOMELLACEA Brady, 1881
- Family ALABAMINIDAE Hofker, 1951**  
*Svratkina* Pokorny, 1956  
*Svratkina australiensis* (Chapman, Parr & Collins)  
*Svratkina tubulifera* (Heron Allen & Earland)
- Family ORIDORSALIDAE Loeblich & Tappan, 1984**  
*Oridorsalis* Andersen, 1961  
+*Oridorsalis umbonatus* (Reuss)

**Family HETEROLEPIDAE Gonzales-Donoso, 1969**

- Heterolepa* Franzenau, 1884
- Heterolepa coudrayi* Margerel
- Heterolepa praecincta* (Karrer)
- +*Heterolepa pseudoungeriana* (Cushman)
- Heterolepa subhaidingeri* (Parr)

**Family GAVELINELLIDAE Hofker, 1956**

Subfamily GAVELINELLINAE Hofker, 1956

- Gyroidina* d'Orbigny, 1826
- +*Gyroidina broekhiana* (Karrer)
- +*Gyroidina neosoldanii* (Brotzen)
- Gyroidinopsis* McCulloch, 1977
- Gyroidinoides soldanii* (d'Orbigny)
- Hanzawaia* Asano, 1944
- +*Hanzawaia* sp. Présentée comme *Anomalina colligera* (Chapman & Parr)

**Family TRICHOHYALIDAE Saidova, 1981**

- Buccella* Andersen, 1952
- Buccella* sp

Superfamily ROTALIACEA Ehrenberg, 1839

**Family ROTALIIDAE Ehrenberg, 1839**

Subfamily PARAROTALIINAE Reiss, 1963

- Pararotalia* Le Calvez, 1949
- Pararotalia ozawai* (Asano)

Subfamily AMMONIINAE Saidova, 1981

- Ammonia* Brünnich, 1772
- Ammonia beccarii* (Linné)
- Ammonia convexa* (Collins)
- Ammonia parkinsoniana* d'Orbigny
- Ammonia tepida* (Cushman)
- Ammonia* sp.

**Family CALCARINIDAE Schwager, 1876**

- Baculogypsina* Sacco, 1893
- Baculogypsina sphaerulata* (Parker et Jones)
- Baculogypsinoides* Yabe & Hanzawa, 1930
- +*Baculogypsinoides spinosus* (Yabe & Hanzawa)
- Calcarina* d'Orbigny, 1826
- Calcarina calcar* d'Orbigny
- Calcarina defrancii* d'Orbigny
- Calcarina hispida* Brady
- Calcarina hispida pulchella* Chapman
- Calcarina spengleri* (Gmelin) *mayori* Cushman
- Calcarina venusta* (Brady)

**Family ELPHIDIIDAE Galloway, 1933**

Subfamily ELPHIDIINAE Galloway, 1933

- Criboelphidium* Cushman & Brönnimann, 1948
- °*Criboelphidium* cf. *excavatum* (Terquem)
- °*Criboelphidium* cf. *gunteri* (Cole)
- °*Criboelphidium poeyanum* (d'Orbigny)
- °*Criboelphidium* cf. *williamsoni* (Haynes)



*Elphidium* de Monfort, 1808

- \**Elphidium aculeatum* (Silvestri)
- °*Elphidium advenum* (Cushman)
- Elphidium* cf. *articulatum* (d'Orbigny)
- Elphidium craticulatum* (Fichtel et Moll)
- +*Elphidium crispum* (Linné)
- \**Elphidium* cf. *earlandi* Cushman
- Elphidium jenseni* (Cushman)
- °*Elphidium limbatum* (Chapman)
- +*Elphidium macellum* (Fichtel & Moll)
- Elphidium milletti* (Heron-Allen & Earland)
- Elphidium pacificum* Collins
- Elphidium reticulosum* Cushman
- °*Elphidium simplex* Cushman

*Ozawaia* Cushman, 1931

- Ozawaia tongaensis* Cushman

Subfamily NOTOROTALIINAE Hornibrook, 1961

*Parrellina* Thalmann, 1951

- Parrellina hispida* (Cushman)

Superfamily NUMMULITACEA de Blainville, 1827

**Family NUMMULITIDAE de Blainville, 1827**

*Cyclocypeus* Carpenter, 1856

- Cyclocypeus carpenteri* Brady

*Heterostegina* d'Orbigny, 1826

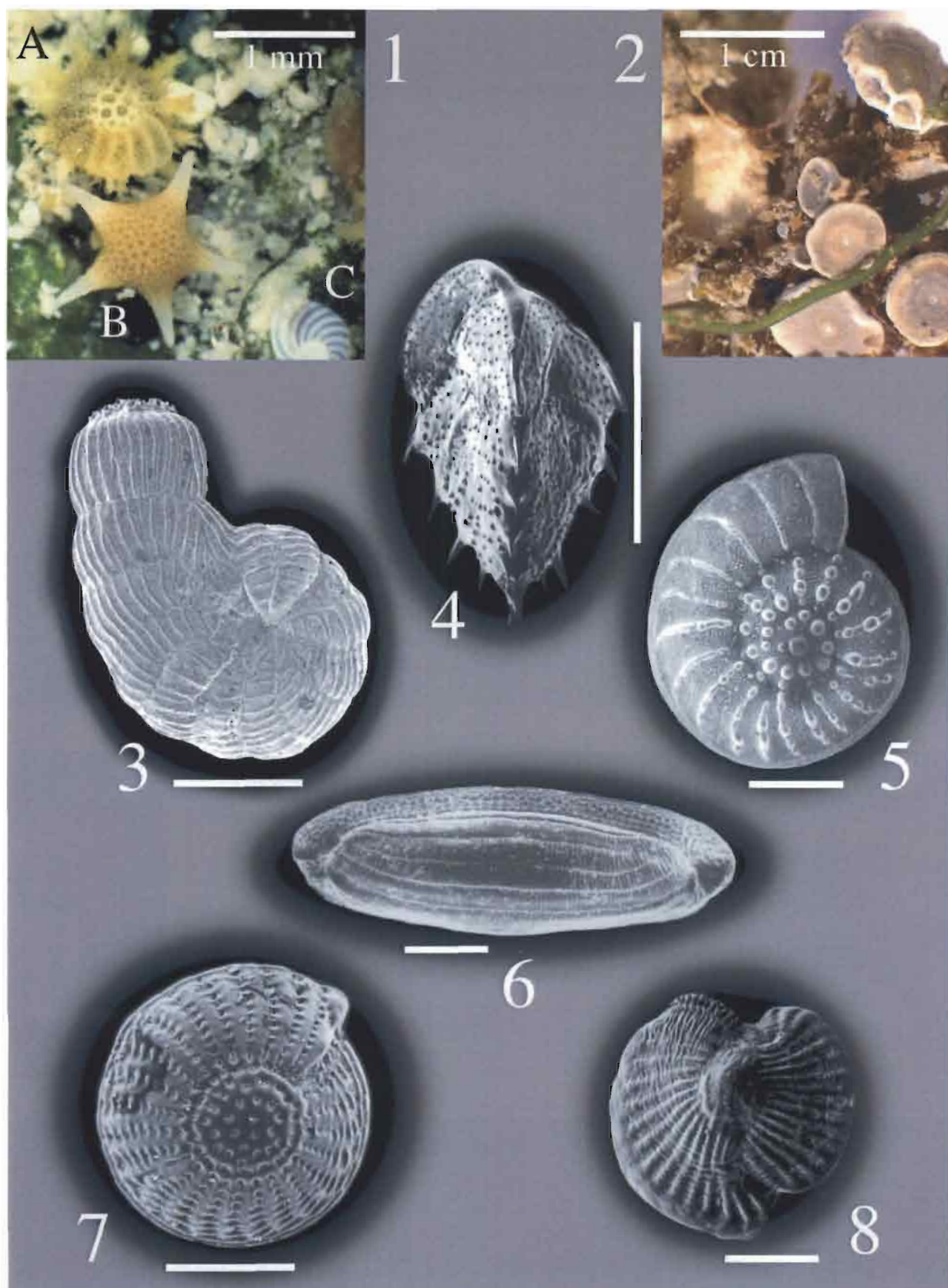
- Heterostegina curva* Moebius
- Heterostegina depressa* d'Orbigny
- Heterostegina operculinoides* Hofker
- +*Heterostegina suborbicularis* (d'Orbigny)

*Nummulites* Lamarck, 1801

- Nummulites* (*Operculinella*) *cumingii* (Carpenter, 1859)

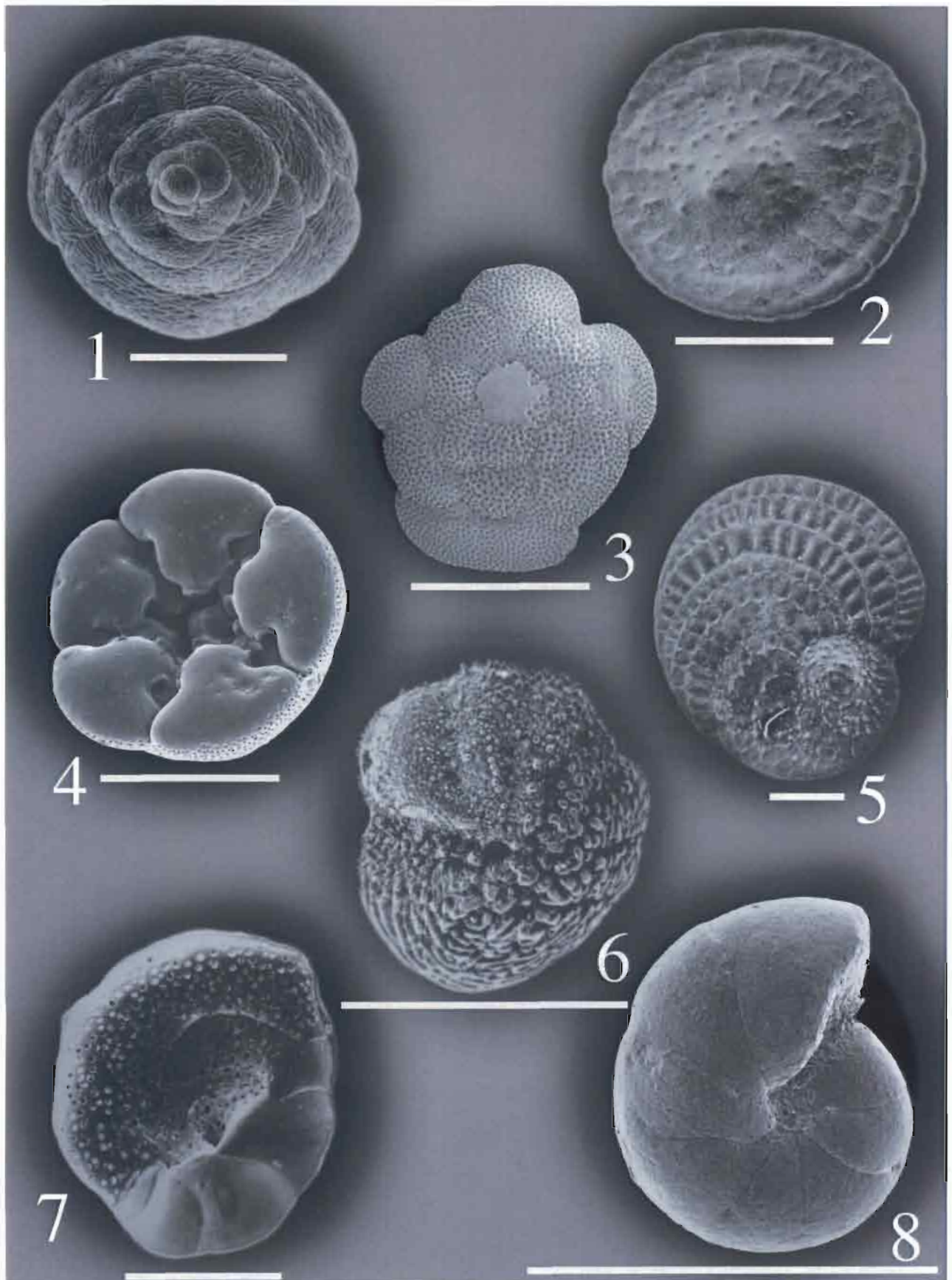
*Operculina* d'Orbigny, 1826

- Operculina ammonoides* (Gronovius)
- Operculina bartschi* Cushman
- Operculina gaimardi* d'Orbigny
- Operculina mayottana* Le Calvez



1. Living *Calcarina hispida* (A), *Baculogypsina sphaerulata* (B) and *Peneroplis planatus* (C)  
 2. Living *Marginopora vertebralis*; 3. *Spirolina arietina*; 4. *Reussella spinulosa*; 5. *Operculina ammonoides*;  
 6. *Alveolinella quoyi*; 7. *Elphidium craticulatum*; 8. *Pseudohauerina occidentalis* var. *involuta*

Scale bar = 0.5 mm



1. *Carterina spiculotesta*; 2. *Cycloclypeus carpenteri*; 3. *Cymbaloporetta squamosa*; 4. *Cymbaloporetta squamosa*; 5. *Heterostegina operculinoides*; 6. *Parrellina hispida*; 7. *Poroeponides lateralis*; 8. *Haplophragmoides wilberti*

Scale bar = 0.5 mm

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II7

Volume spécial

COMPENDIUM  
of marine species from  
New Caledonia



Edited by  
CLAUDE E. PAYRI  
Bertrand RICHER DE FORGES



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