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| Sub-environ | | | |
| Order | Superfamily | Family | Genus |
| Lituolida | Lituoloidea | Lituolidae | <i>Ammobaculites</i> |
| | | | <i>Ammomarginulina</i> |
| | | | <i>Ammotium</i> |
| | Verneuilinoidea | Prolixoplectidae | <i>Eggerelloides</i> |
| | | Verneuilinidae | <i>Gaudryina</i> |
| | Trochamminoidea | Trochamminidae | <i>Trochammina</i> |
| | | | <i>Portatrochammina</i> |
| | | <i>Rotaliammina</i> | |
| Textulariida | Textularioidea | Textulariidae | <i>Sahulia</i> |
| | | | <i>Textularia</i> |

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| | | | |
| | | | <i>Siphotextularia</i> |
| | | | <i>Bigenerina</i> |
| | | Oligidae | <i>Olgita</i> |
| | Eggerelloidea | Valvulinidae | <i>Clavulina</i> |
| | Hormosinoidea | Reophacidae | <i>Reophax</i> |
| Miliolida | Cornuspiroidea | Cornuspiridae | <i>Cornuspira</i> |
| | Milioloidea | Cribrulinoididae | <i>Adelosina</i> |
| | | | |
| | | Hauerinidae | <i>Flintinoides</i> |
| | | | <i>Hauerina</i> |
| | | | <i>Sigmoihauerina</i> |
| | | | <i>Spirosigmoilina</i> |
| | | | <i>Cycloforina</i> |
| | | | |
| | | | <i>Miliolinella</i> |
| | | | |
| | | | <i>Cribromiliolinella</i> |
| | | | <i>Miliolina</i> |
| | | | <i>Lachlanella</i> |

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| | | | | |
| | | | | <i>Pseudolachlanella</i> |
| | | | | <i>Massilina</i> |
| | | | | |
| | | | | <i>Pseudomassilina</i> |
| | | | | |
| | | | | <i>Pseudotriloculina</i> |
| | | | | |
| | | | | <i>Siniloculina</i> |
| | | | | <i>Ptychomiliola</i> |
| | | | | |
| | | | | <i>Pseudopyrgo</i> |
| | | | | <i>Pyrgo</i> |
| | | | | |
| | | | | <i>Pyrgoella</i> |
| | | | | <i>Proemassilina</i> |
| | | | | <i>Quinqueloculina</i> |
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| <i>Parrina</i> |
| <i>Affinetrina</i> |
| <i>Triloculina</i> |

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| | | | |
| | | | <i>Triloculinella</i> |
| | | | <i>Biloculinella</i> |
| | | | <i>Varidentella</i> |
| | | | <i>Mesosigmoilina</i> |
| | | | <i>Sigmoilina</i> |
| | | | <i>Sigmoilopsis</i> |
| | | | <i>Sigmoilinella</i> |
| | | | <i>Siphonaperta</i> |
| | | | <i>Articulina</i> |
| | | | <i>Ishamella</i> |
| | | | <i>Steigerina</i> |
| | | | <i>Sigmamiliolinella</i> |
| | Spiroloculinidae | | <i>Spiroloculina</i> |

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| | | | |
| | Miliolacea | Riveroinidae | <i>Pseudohauerinella</i> |
| | Nubecularioidea | Fischerinidae | <i>Vertebralina</i> |
| | | | <i>Wiesnerella</i> |
| | | Ophthalmidiidae | <i>Ophthalmidium</i> |
| | | | <i>Edentostomina</i> |
| | | | <i>Spirophthalmidium</i> |
| | | Nubeculariidae | <i>Nodophthalmidium</i> |
| | | | <i>Nubecularia</i> |
| | | | <i>Nodobacularia</i> |
| | Soritoidea | Peneroplidae | <i>Peneroplis</i> |
| | | | <i>Coscinospira</i> |
| | | | <i>Spirolina</i> |
| | | | <i>Dendritina</i> |
| | | Soritidae | <i>Sorites</i> |
| | | Miliamminidae | <i>Miliammina</i> |
| | | Squamulinoidea | <i>Squamulina</i> |
| Spirillinida | | Spirillinidae | <i>Spirillina</i> |
| | | Patellinidae | <i>Patellina</i> |
| Lagenida | Nodosarioidea | Lagenidae | <i>Lagena</i> |
| | | | <i>Procerolagena</i> |
| | | | <i>Hyalinonetrion</i> |

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| | | Nodosariidae | <i>Reussoolina</i> |
| | | | <i>Pyramidulina</i> |
| | | | <i>Dentalina</i> |
| | | | <i>Nodosaria</i> |
| | | | <i>Laevidentalina</i> |
| Vaginulinida | | Vaginulinidae | <i>Lenticulina</i> |
| Robertinida | Robertinoidea | Robertinidae | <i>Pseudobulimina</i> |
| Rotaliida | Buliminoidea | Buliminidae | <i>Bulimina</i> |
| | | Reussellidae | <i>Reussella</i> |
| | | | <i>Fijiella</i> |
| | | Trimosinidae | <i>Quirimbatina</i> |
| | | | <i>Trimosina</i> |
| | Cassidulinoidea | Bolivinitidae | <i>Parabrizalina</i> |
| | | | <i>Sagrinella</i> |
| | | | <i>Neocassidulina</i> |
| | | | <i>Euloxostomum</i> |
| | | | <i>Loxostomina</i> |
| | | | <i>Pseudobrizalina</i> |
| | | | <i>Bolivinellina</i> |
| | | Siphogenerinoididae | <i>Rectobolivina</i> |
| | | Tortoplectellidae | <i>Tortoplectella</i> |
| | Chilostomelloidea | Trichohyalidae | <i>Buccella</i> |
| | | Anomalinidae | <i>Riminopsis</i> |
| | Fursenkoinoidea | Fursenkoinidae | <i>Fursenkoina</i> |
| | Turrilinoidea | Turrilinidae | <i>Floresina</i> |
| | | Stainforthiidae | <i>Hopkinsina</i> |
| | | | <i>Stainforthia</i> |
| | Bolivinoidea | Bolivinidae | <i>Bolivina</i> |
| | Discorboidea | Rosalinidae | <i>Rosalina</i> |
| | | | <i>Neoconorbina</i> |

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| | | <i>Gavelinopsis</i> |
| | Eponididae | <i>Eponides</i> |
| | | <i>Poroeponides</i> |
| | Cancrisidae | <i>Cancris</i> |
| | | <i>Valvulineria</i> |
| | Discorbidae | <i>Discorbis</i> |
| | Heleninidae | <i>Helenina</i> |
| Discorbinelloidea | Discorbinellidae | <i>Discorbinella</i> |
| | | <i>Hanzawaia</i> |
| | Pseudoparrellidae | <i>Facetocochlea</i> |
| Planorbulinoidea | Cibicididae | <i>Cibicides</i> |
| | | <i>Cibicidoides</i> |
| | | <i>Heterolepa</i> |
| | | <i>Lobatula</i> |
| | Planorbulinidae | <i>Planorbulina</i> |
| | | <i>Planorbulinella</i> |
| | Cymbaloporidae | <i>Millettiana</i> |
| | | <i>Cymbaloporeta</i> |
| | | <i>Cymbaloporella</i> |
| Nonionioidea | Nonionidae | <i>Pseudononion</i> |
| | | <i>Nonion</i> |
| | | <i>Nonionella</i> |
| Glabratelloidea | Glabratellidae | <i>Pileolina</i> |
| Rotalioidea | Elphidiidae | <i>Protelphidium</i> |
| | | <i>Elphidium</i> |

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| | | | |
| | | | <i>Cribroelphidium</i> |
| | | | |
| | | | <i>Porosononion</i> |
| | | Elphidiellidae | <i>Elphidiella</i> |
| | | Haynesinidae | <i>Haynesina</i> |
| | | Ammoniidae | <i>Ammonia</i> |
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| | | | <i>Challengerella</i> |
| | | | <i>Asterorotalia</i> |
| | | | |
| | | | <i>Rotalidium</i> |
| | | | <i>Rotalinoides</i> |
| | | | <i>Pseudorotalia</i> |
| | | Notorotaliidae | <i>Cristatavultus</i> |
| | Acervulinoidea | Acervulinidae | <i>Acervulina</i> |
| | Asterigerinoidea | Amphisteginidae | <i>Amphistegina</i> |
| | | Epistomariidae | <i>Monspeliensina</i> |
| | | Asterigerinatidae | <i>Eoeponidella</i> |
| | Nummulitoidea | Nummulitidae | <i>Heterostegina</i> |
| | | | <i>Operculina</i> |
| | Murrayinellidae | Murrayinellidae | <i>Murrayinella</i> |
| Polymorphinida | Polymorphinoidea | Glandulinidae | <i>Glandulina</i> |

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| | | | <i>Globulotuba</i> |
| | | Polymorphinidae | <i>Polymorphina</i> |
| | | | <i>Guttulina</i> |
| | | | <i>Globulina</i> |
| | | | <i>Sigmomorphina</i> |
| | | Ellipsolagenidae | <i>Oolina</i> |
| | | | <i>Buchnerina</i> |
| | | | <i>Fissurina</i> |

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| ice | [39] |
| Figure 1 | 1 |
| it. N) | 29°02'-29°24' |
| ng. E) | 48°10'-48°28' |
| erval | n.a. |
| ages | total |
| umber | 15 |
| tion | n.a. |
| iments | nc |
| Species | Mina Al-Ahmadi and South of Failaka Island |
| <i>Ammobaculites agglutinans</i> (d'Orbigny, 1846) | |
| <i>Ammobaculites persicus</i> (Lutze, 1974) | |
| <i>Ammobaculites</i> cf. <i>crassus</i> (Warren, 1957) | |
| <i>Ammobaculites</i> sp. | |
| <i>Ammomarginulina</i> sp. | |
| <i>Ammotium morenoi</i> (Acosta, 1940) | |
| <i>Eggerelloides</i> cf. <i>advenus</i> (Cushman, 1922) | |
| <i>Eggerelloides scaber</i> (Williamson, 1858) | |
| <i>Gaudryina</i> sp. | |
| <i>Trochammina squamata</i> (Jones and Parker, 1960) | |
| <i>Portatrochammina</i> cf. <i>pacifica</i> (Cushman, 1925) | |
| <i>Rotaliammina mayori</i> (Cushman, 1924) | |
| <i>Sahulia barkeri</i> (Hofker, 1978) | |
| <i>Sahulia conica</i> (d'Orbigny, 1839) | X |
| <i>Sahulia kerimbaensis</i> (Said, 1949) | |
| <i>Textularia aura</i> (Lalicker & McCullough, 1940) | |
| <i>Textularia bocki</i> (Höglund, 1947) | X |
| <i>Textularia</i> cf. <i>canaensis</i> (Bermudez, 1949) | |
| <i>Textularia candeiana</i> (d'Orbigny, 1839) | |
| <i>Textularia cushmani</i> (Said, 1949) | |
| <i>Textularia foliacea</i> (Heron-Allen & Earland, 1915) | X |
| <i>Textularia gramen</i> (d'Orbigny, 1846) | |
| <i>Textularia lata</i> (Germeraad, 1946) | X |
| <i>Textularia lateralis</i> (Lalicker, 1935) | |

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| <i>Textularia mariae</i> (d'Orbigny, 1846) | |
| <i>Textularia occidentalis</i> (Cushman, 1922) | |
| <i>Textularia porrecta</i> (Brady 1884) | |
| <i>Textularia pseudogramen</i> (Chapman & Parr, 1937) | X |
| <i>Textularia sagittula</i> (Defrance, 1824) | |
| <i>Textularia semialata</i> (Cushman, 1913) | X |
| <i>Textularia truncata</i> (Höglund, 1947) | X |
| <i>Textularia</i> aff. <i>lateralis</i> (Lalicker, 1935) | |
| <i>Textularia</i> sp. | X |
| <i>Siphotextularia affinis</i> (Fornasini, 1883) | X |
| <i>Spirotextularia ornatissima</i> (Said, 1950) | |
| <i>Siphotextularia</i> sp. | |
| <i>Bigennerina</i> sp. | |
| <i>Olgita pacifica</i> (Cushman, 1924) | |
| <i>Clavulina angularis</i> (d'Orbigny, 1826) | |
| <i>Reophax calcareus</i> (Cushman, 1947) | |
| <i>Cornuspira planorbis</i> (Schultze, 1853) | X |
| <i>Adelosina bicornis</i> (Walker & Jacob, 1798) | |
| <i>Adelosina dagornae</i> (Levi et al., 1990) | |
| <i>Adelosina elegans</i> var. <i>angulata</i> (Wiesner, 1923) | |
| <i>Adelosina honghensis</i> (Lak, 1982) | |
| <i>Adelosina intricata</i> (Terquem, 1878) | |
| <i>Adelosina longirostra</i> (d'Orbigny, 1826) | |
| <i>Adelosina mediterraneensis</i> (Le Calvez & Le Calvez, 1958) | |
| <i>Adelosina partschii</i> (d'Orbigny, 1846) | |
| <i>Adelosina pulchella</i> (d'Orbigny, 1826) | |
| <i>Adelosina</i> spp. | |
| <i>Flintinoides labiosa</i> (d'Orbigny, 1839) | |
| <i>Hauerina compressa</i> (d'Orbigny, 1846) | |
| <i>Hauerina</i> sp. | |
| <i>Sigmoihauerina bradyi</i> (Cushman, 1917) | |
| <i>Spirosigmoilina</i> sp. | |
| <i>Cycloforina contorta</i> (d'Orbigny, 1846) | |
| <i>Cycloforina gracilissima</i> (Bogdanowich, 1950) | |
| <i>Cycloforina granulocostata</i> (Germeraad, 1946) | |
| <i>Cycloforina macerata</i> (Cushman and Todd, 1944) | |
| <i>Cycloforina quinquecarinata</i> (Collins, 1958) | |
| <i>Cycloforina sidebottomi</i> (Rasheed, 1971) | |
| <i>Cycloforina stomata</i> (Luczkowska, 1974) | |
| <i>Miliolinella chukchiensis</i> (Loeblich & Tappan, 1953) | X |
| <i>Miliolinella circularis</i> (Bornemann, 1855) | |
| <i>Miliolinella oceanica</i> (Cushman, 1932) | |
| <i>Miliolinella semicostata</i> (Terquem, 1878) | |
| <i>Miliolinella semicostata</i> (Wiesner, 1923) | |
| <i>Miliolinella subrotunda</i> (Montagu, 1803) | |
| <i>Miliolinella</i> cf. <i>californica</i> (Rhumbler, 1936) | |
| <i>Miliolinella</i> spp. | |
| <i>Cribromiliolinella milletti</i> (Cushman, 1954) | |
| <i>Miliolina peregrina</i> var. <i>striata</i> (Wiesner, 1912) | |
| <i>Miliolina</i> sp. | |
| <i>Lachlanella cooki</i> (Vella, 1957) | |

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| <i>Lachlanella incisa</i> (Cushman and Todd 1932) | |
| <i>Pseudolachlanella eburnea</i> (d'Orbigny, 1839) | |
| <i>Massilina laevigata</i> (Cushman & Todd, 1944) | |
| <i>Massilina secans</i> (d'Orbigny, 1826) | |
| <i>Massilina secans</i> subsp. <i>tropicalis</i> (Collins, 1958) | |
| <i>Massilina</i> sp. | |
| <i>Pseudomassilina robusta</i> (Lacroix, 1938) | |
| <i>Pseudomassilina</i> cf. <i>P. australis</i> (Cushman, 1932) | |
| <i>Pseudomassilina</i> sp. | |
| <i>Pseudotriloculina consobrina</i> (d'Orbigny, 1846) | |
| <i>Pseudotriloculina lecalvezeae</i> (Kaasschieter, 1961) | |
| <i>Pseudotriloculina rotunda</i> (d'Orbigny in Schlumberger, 1893) | |
| <i>Pseudotriloculina sidebottomi</i> (Martinotti, 1921) | |
| <i>Pseudotriloculina</i> cf. <i>P. subgranulata</i> (Cushman, 1918) | |
| <i>Pseudotriloculina</i> sp. | |
| <i>Simuloculina</i> cf. <i>reversa</i> (d'Orbigny, 1852) | |
| <i>Ptychomiliola arabiensis</i> (Shublak, 1977) | |
| <i>Ptychomiliola</i> sp. | |
| <i>Pseudopyrgo milletti</i> (Cushman, 1917) | |
| <i>Pyrgo oblonga</i> (d'Orbigny, 1839) | |
| <i>Pyrgo</i> sp. | |
| <i>Pyrgoella sphaera</i> (d'Orbigny, 1839) | |
| <i>Proemassilina rugosa</i> (Sidebottom, 1904) | |
| <i>Proemassilina arenaria</i> (Brady, 1884) | X |
| <i>Quinqueloculina agglutinans</i> (d'Orbigny, 1839) | |
| <i>Quinqueloculina akneriana</i> (d'Orbigny, 1846) | |
| <i>Quinqueloculina aspera</i> (d'Orbigny, 1826) | |
| <i>Quinqueloculina bicarinata</i> (d'Orbigny in Terquem, 1878) | |
| <i>Quinqueloculina berthelotiana</i> (d'Orbigny, 1839) | |
| <i>Quinqueloculina bosciana</i> (d'Orbigny, 1839) | |
| <i>Quinqueloculina boueana</i> (d'Orbigny, 1846) | |
| <i>Quinqueloculina bubyensis</i> (Shublak, 1977) | |
| <i>Quinqueloculina buchiana</i> (d'Orbigny, 1846) | |
| <i>Quinqueloculina carinatastriata</i> (Wiesner, 1923) | |
| <i>Quinqueloculina catalinensis</i> (Natland, 1938) | |
| <i>Quinqueloculina costata</i> (d'Orbigny in Terquem, 1878) | |
| <i>Quinqueloculina corrugata</i> (Collins, 1958) | |
| <i>Quinqueloculina crassicarinata</i> (Collins, 1958) | X |
| <i>Quinqueloculina cuvieriana</i> (d'Orbigny, 1839) | |
| <i>Quinqueloculina goesi</i> (Todd & Brönnimann, 1957) | |
| <i>Quinqueloculina haidingerii</i> (d'Orbigny, 1846) | |
| <i>Quinqueloculina hauerina</i> (d'Orbigny, 1846) | |
| <i>Quinqueloculina homoplanciana</i> (Haake, 1975) | |
| <i>Quinqueloculina implexa</i> (Terquem & Terquem, 1886) | |
| <i>Quinqueloculina irregularis</i> (d'Orbigny in Terquem, 1878) | |
| <i>Quinqueloculina lamarkiana</i> (d'Orbigny, 1839) | |
| <i>Quinqueloculina laticollis</i> (Le Calvez & Le Calvez, 1958) | |
| <i>Quinqueloculina latidentella</i> (Loeblich & Tappan, 1994) | |
| <i>Quinqueloculina mosharrafai</i> (Said, 1949) | |
| <i>Quinqueloculina multimarginata</i> (Said, 1949) | X |
| <i>Quinqueloculina neosigmoilinoidea</i> (Kennett, 1966) | X |

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| <i>Quinqueloculina parakneriana</i> (Luczkowska, 1974) | |
| <i>Quinqueloculina parkeri</i> (Brady, 1881) | |
| <i>Quinqueloculina parvaggluta</i> (Vella, 1957) | |
| <i>Quinqueloculina peregrina</i> (d'Orbigny, 1846) | |
| <i>Quinqueloculina poeyana</i> (d'Orbigny, 1839) | |
| <i>Quinqueloculina polygona</i> (d'Orbigny, 1839) | |
| <i>Quinqueloculina pseudobuchiana</i> (Luczkowska, 1974) | |
| <i>Quinqueloculina quinquecarinata</i> (Collins, 1958) | |
| <i>Quinqueloculina rebecca</i> (Vella, 1957) | |
| <i>Quinqueloculina schlumbergeri</i> (Wiesner, 1923) | |
| <i>Quinqueloculina seminula</i> (Linnaeus, 1758) | |
| <i>Quinqueloculina subcarinata</i> (d'Orbigny in Terquem, 1878) | |
| <i>Quinqueloculina subcuneata</i> (Cushman, 1921) | |
| <i>Quinqueloculina subpolygona</i> (Parr, 1945) | |
| <i>Quinqueloculina tropicalis</i> (Cushman, 1924) | |
| <i>Quinqueloculina tubus</i> (Todd, 1957) | |
| <i>Quinqueloculina variolata</i> (d'Orbigny in Terquem, 1878) | |
| <i>Quinqueloculina venusta</i> (Karrer, 1868) | |
| <i>Quinqueloculina vulgaris</i> (d'Orbigny, 1826) | |
| <i>Quinqueloculina</i> aff. <i>rugosa</i> (d'Orbigny, 1852) | |
| <i>Quinqueloculina</i> cf. <i>Q. crenulata</i> (Cushman, 1932) | |
| <i>Quinqueloculina</i> cf. <i>Q. exmouthensis</i> (Parker, 2009) | |
| <i>Quinqueloculina</i> cf. <i>Q. impressa</i> (Reuss, 1851) | |
| <i>Quinqueloculina</i> cf. <i>Q. inaequalis</i> (Cushman, 1921) | |
| <i>Quinqueloculina</i> cf. <i>Q. latidentella</i> (Loeblich & Tappan, 1994) | |
| <i>Quinqueloculina</i> cf. <i>Q. multimarginata</i> (Said, 1949) | |
| <i>Quinqueloculina</i> cf. <i>Q. neostriatula</i> (Thalmann, 1950) | |
| <i>Quinqueloculina</i> cf. <i>Q. oblonga</i> (Montagu, 1803) | |
| <i>Quinqueloculina</i> cf. <i>Q. peregrina</i> (d'Orbigny, 1846) | |
| <i>Quinqueloculina</i> cf. <i>Q. philippinensis</i> (Cushman, 1921) | |
| <i>Quinqueloculina</i> spp. | X |
| <i>Parrina bradyi</i> (Millett, 1898) | |
| <i>Affinetrina gualtieriana</i> (d'Orbigny 1839) | |
| <i>Affinetrina planciana</i> (d'Orbigny, 1839) | |
| <i>Affinetrina quadrilateralis</i> (d'Orbigny, 1839) | |
| <i>Affinetrina ucrainica</i> (Serova, 1952) | |
| <i>Triloculina angularis</i> (d'Orbigny, 1850) | |
| <i>Triloculina arabica</i> (Shublak, 1977) | |
| <i>Triloculina barnardi</i> (Haig, 1988) | |
| <i>Triloculina bikiniensis</i> (Todd, 1954) | |
| <i>Triloculina chemnitziana</i> (d'Orbigny, 1839) | |
| <i>Triloculina elongata</i> (d'Orbigny in Fornasini, 1905) | |
| <i>Triloculina gibba</i> (d'Orbigny, 1826) | |
| <i>Triloculina echinata</i> (d'Orbigny in Fornasini, 1905) | |
| <i>Triloculina inornata</i> subsp. <i>longidentata</i> (Bandy, 1953) | |
| <i>Triloculina intermedia</i> (Karrer, 1868) | |
| <i>Triloculina earlandi</i> (Cushman, 1954) | X |
| <i>Triloculina echinata</i> (d'Orbigny in Fornasini, 1905) | X |
| <i>Triloculina marioni</i> (Schlumberger, 1893) | X |
| <i>Triloculina oblonga</i> (Montagu, 1803) | |
| <i>Triloculina propinqua</i> (Terquem Em. Le Calvez, 1947) | |

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| <i>Triloculina schreiberiana</i> (d'Orbigny, 1839) | |
| <i>Triloculina selene</i> (Karrer, 1868) | |
| <i>Triloculina striatopunctata</i> (Shublak, 1977) | |
| <i>Triloculina terquemiana</i> (Brady, 1884) | |
| <i>Triloculina tricarinata</i> d'Orbigny in Deshayes, 1832) | X |
| <i>Triloculina trigonula</i> (Lamarck, 1804) | X |
| <i>Triloculina trihedra</i> (Loeblich and Tappan, 1953) | |
| <i>Triloculina</i> cf. <i>T. serrulata</i> (McCulloch, 1977) | |
| <i>Triloculina</i> spp. | X |
| <i>Triloculinella asymmetrica</i> (Said, 1949) | X |
| <i>Triloculinella chiasmocytis</i> (Loeblich & Tappan, 1994) | |
| <i>Triloculinella dilatata</i> (d'Orbigny, 1839) | |
| <i>Triloculinella obliquinodus</i> (Riccio, 1950) | |
| <i>Triloculinella pseudooblonga</i> (Zheng, 1980) | |
| <i>Biloculinella wiesneri</i> (Le Calvez & Le Calvez, 1958) | |
| <i>Varidentella contorta</i> (d'Orbigny 1846) | |
| <i>Varidentella neostriatula</i> (Thalmann, 1950) | |
| <i>Varidentella rotunda</i> (Gerke 1938) | |
| <i>Varidentella pseudocostata</i> (Vengilinsky 1958) | |
| <i>Varidentella</i> sp. | |
| <i>Mesosigmoilina minuta</i> (Zheng, 1979) | |
| <i>Sigmoilina sigmoidea</i> (Brady, 1884) | |
| <i>Sigmoilina</i> sp. | |
| <i>Sigmoilopsis asperula</i> (Karrer, 1868) | X |
| <i>Sigmoilopsis foeda</i> (Reuss, 1850) | |
| <i>Sigmoilopsis minuta</i> (Collins, 1958) | X |
| <i>Sigmoilopsis schlumbergeri</i> (Silvestri, 1904) | |
| <i>Sigmoilinella tortuosa</i> (Zheng, 1979) | |
| <i>Siphonaperta dilatata</i> (Le Calvez & Le Calvez, 1958) | |
| <i>Siphonaperta distorquata</i> (Cushman, 1954) | |
| <i>Siphonaperta granulata</i> (Smigielska, 1957) | |
| <i>Siphonaperta</i> cf. <i>S. horrida</i> (Cushman, 1947) | |
| <i>Siphonaperta</i> spp. | |
| <i>Articulina alticostata</i> (Cushman, 1944) | |
| <i>Articulina queenslandica</i> Collins, 1958 | |
| <i>Articulina</i> sp. | |
| <i>Ishamella apertura</i> (Buzas and Severin, 1982) | |
| <i>Steigerina bubnanensis</i> (McCulloch, 1977) | |
| <i>Sigmamiliolinella australis</i> (Parr, 1932) | |
| <i>Spiroloculina acicularis</i> (Batsch, 1791) | |
| <i>Spiroloculina angulata</i> (Cushman, 1917) | |
| <i>Spiroloculina antillarum</i> (d'Orbigny, 1838) | |
| <i>Spiroloculina carinata</i> (Fornasini, 1905) | |
| <i>Spiroloculina communis</i> (Cushman & Todd, 1944) | X |
| <i>Spiroloculina depressa</i> (d'Orbigny, 1826) | |
| <i>Spiroloculina dentata</i> (Cushman & Todd, 1944) | |
| <i>Spiroloculina excavata</i> (d'Orbigny, 1846) | |
| <i>Spiroloculina henbesti</i> (Petri, 1955) | |
| <i>Spiroloculina interrupta</i> (Terquem, 1878) | |
| <i>Spiroloculina lucida</i> (Cushman & Todd, 1944) | |
| <i>Spiroloculina nummiformis</i> (Said, 1949) | X |

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| <i>Spiroloculina pulchella</i> (d'Orbigny in Fornasini, 1904) | |
| <i>Spiroloculina regularis</i> (Cushman & Todd, 1944) | |
| <i>Spiroloculina rotunda</i> (d'Orbigny, 1826) | |
| <i>Spiroloculina subcarinata</i> (D'Orbigny 1826) | |
| <i>Spiroloculina</i> cf. <i>nitida</i> (d'Orbigny, 1826) | |
| <i>Spiroloculina</i> sp. | |
| <i>Pseudohauerinella orientalis</i> (Cushman, 1946) | |
| <i>Vertebralina striata</i> (d'Orbigny, 1826) | |
| <i>Wiesnerella auriculata</i> (Egger, 1893) | |
| <i>Ophthalmidium arabianensis</i> (Shublak, 1977) | |
| <i>Ophthalmidium</i> sp. | |
| <i>Edentostomina constans</i> (Bandy, 1949) | |
| <i>Edentostomina cultrata</i> (Brady, 1881) | |
| <i>Edentostomina rupertiana</i> (Brady, 1881) | |
| <i>Edentostomina triangularis</i> (El-Naggar & Anber, 1974) | |
| <i>Spirophthalmidium acutimargo</i> (Brady, 1884) | |
| <i>Nodophthalmidium</i> sp. | |
| <i>Nubecularia</i> sp. | |
| <i>Nodobaculalia</i> sp. | |
| <i>Peneroplis arietinus</i> (Batsch, 1791) | |
| <i>Peneroplis planatus</i> (Fichtel and Moll, 1798) | |
| <i>Peneroplis pertusus</i> (Forsskal in Niebuhr, 1775) | |
| <i>Coscinospira hemprichii</i> (Ehrenberg, 1839) | |
| <i>Spirolina</i> sp. | |
| <i>Dendritina elegans</i> (d'Orbigny, 1846) | |
| <i>Dendritina rangi</i> (d'Orbigny in Fornasini, 1904) | |
| <i>Sorites marginalis</i> (Lamarck, 1816) | |
| <i>Sorites orbiculus</i> (Forsskal in Niebuhr, 1775) | |
| <i>Miliammina</i> cf. <i>fusca</i> (Brady, 1870) | |
| <i>Miliammina</i> sp. | X |
| <i>Squamulina</i> sp. | |
| <i>Spirillina vivipara</i> (Ehrenberg, 1843) | |
| <i>Spirillina</i> sp. | |
| <i>Patellina corrugata</i> (Williamson, 1858) | |
| <i>Lagena doveyensis</i> (Haynes, 1973) | |
| <i>Lagena</i> cf. <i>hispidula</i> (Cushman, 1913) | |
| <i>Lagena perlucida</i> (Montagu, 1803) | X |
| <i>Lagena semilineata</i> (Wright, 1886) | X |
| <i>Lagena semistriata</i> (Williamson, 1848) | X |
| <i>Lagena spirata</i> (Bandy, 1949) | X |
| <i>Lagena striata</i> (Bandy, 1949) | |
| <i>Lagena sulcata</i> var. <i>torquiformis</i> (Haynes 1973) | |
| <i>Lagena substriata</i> (Williamson, 1848) | |
| <i>Lagena tenuis</i> (Bornemann, 1855) | X |
| <i>Lagena</i> sp. | |
| <i>Procerolagena distoma</i> (Parker & Jones, 1864) | |
| <i>Procerolagena oceanica</i> (Albani, 1974) | |
| <i>Procerolagena setigera</i> (Millett, 1901) | X |
| <i>Hyalinonetrion distomapolitum</i> (Parker & Jones, 1865) | |
| <i>Hyalinonetrion gracile</i> (Costa, 1856) | |
| <i>Hyalinonetrion gracillimum</i> (Seguenza, 1862) | X |

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| <i>Reusoolina laevis</i> (Montagu, 1803) | X |
| <i>Pyramidolina</i> sp. | |
| <i>Dentalina</i> sp. | |
| <i>Nodosaria</i> sp. | |
| <i>Laevidentalina communis</i> (d'Orbigny, 1826) | X |
| <i>Lenticulina</i> sp. | |
| <i>Pseudobulimina</i> sp. <i>P. convoluta</i> (Williamson, 1858) | |
| <i>Bulimina marginata</i> (d'Orbigny, 1826) | X |
| <i>Reussella aculeata</i> (Cushman, 1945) | X |
| <i>Reussella aequa</i> (Cushman & McCulloch, 1948) | X |
| <i>Reussella pulchra</i> (Cushman, 1945) | X |
| <i>Reussella pacifica</i> (Cushman & McCulloch, 1948) | |
| <i>Reussella</i> spp. | |
| <i>Fijiella simplex</i> (Cushman, 1929) | X |
| <i>Quirimbatina rimosa</i> (Heron-Allen & Earland, 1915) | |
| <i>Trimosina milletti</i> (Cushman, 1927) | |
| <i>Parabrizalina porrecta</i> (Brady, 1881) | |
| <i>Sagrinella convallaria</i> (Millett, 1900) | |
| <i>Neocassidulina abbreviata</i> (Heron-Allen and Earland, 1924) | |
| <i>Euloxostomum</i> sp. | |
| <i>Loxostomina limbata</i> (Brady, 1881) | X |
| <i>Loxostomina</i> sp. | X |
| <i>Pseudobrizalina lobata</i> (Brady, 1881) | |
| <i>Bolivinelina pseudopunctata</i> (Höglund, 1947) | |
| <i>Rectobolivina abrupta</i> (Phleger & Parker, 1952) | |
| <i>Tortoplectella rhomboidalis</i> (Millett, 1899) | |
| <i>Buccella frigida</i> (Cushman, 1922) | X |
| <i>Riminopsis asterizans</i> (Fichtel & Moll, 1798) | |
| <i>Fursenkoina schreibersiana</i> (Czjzek, 1848) | X |
| <i>Fursenkoina squamosa</i> (d'Orbigny in Deshayes, 1832) | |
| <i>Floresina durrandi</i> (Revets, 1990) | X |
| <i>Hopkinsina pacifica</i> (Cushman, 1933) | X |
| <i>Stainforthia concava</i> (Höglund 1947) | |
| <i>Bolivina alata</i> (Seguenza, 1862) | X |
| <i>Bolivina dilatata</i> (Reuss, 1950) | |
| <i>Bolivina nitida</i> (Brady, 1884) | |
| <i>Bolivina punctata</i> (d'Orbigny, 1839) | |
| <i>Bolivina spathulata</i> (Williamson, 1858) | X |
| <i>Bolivina striatula</i> (Cushman, 1922) | |
| <i>Bolivina substriatula</i> (Asano, 1958) | |
| <i>Bolivina vadescens</i> (Cushman, 1933) | |
| <i>Bolivina variabilis</i> (Williamson, 1858) | |
| <i>Bolivina</i> spp. | |
| <i>Rosalina adhaerens</i> (Murray, 1965) | |
| <i>Rosalina anomala</i> (Terquem, 1875) | |
| <i>Rosalina bradyi</i> (Cushman, 1915) | |
| <i>Rosalina densitiva</i> (McCulloch, 1977) | |
| <i>Rosalina globularis</i> (d'Orbigny, 1826) | X |
| <i>Rosalina orientalis</i> (Cushman, 1925) | |
| <i>Rosalina</i> spp. | |
| <i>Neoconorbina clara</i> (Cushman, 1934) | |

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| <i>Neoconorbina</i> cf. <i>terquemi</i> (Rzehak, 1888) | |
| <i>Gavelinopsis praeegeri</i> (Heron-Allen & Earland, 1913) | |
| <i>Eponides cribrorepandus</i> (Asano & Uchio, 1951) | |
| <i>Eponides repandus</i> (Fichtel & Moll, 1798) | X |
| <i>Poroeponides</i> sp. | |
| <i>Cancris auricula</i> (Fichtel & Moll, 1798) | |
| <i>Cancris</i> sp. | |
| <i>Valvulineria rugosa</i> (d'Orbigny, 1839) | |
| <i>Discorbis vilardeboanus</i> (d'Orbigny, 1839) | X |
| <i>Helenina anderseni</i> (Warren, 1957) | |
| <i>Discorbinella montereyensis</i> (Cushman & Martin, 1935) | |
| <i>Discorbinella</i> sp. | |
| <i>Hanzawaia boueana</i> (d'Orbigny, 1846) | X |
| <i>Hanzawaia</i> cf. <i>H. nipponica</i> (Asano, 1944) | |
| <i>Facetocochlea pulchra</i> (Cushman, 1933) | |
| <i>Cibicidoides lobatulus</i> (Walker & Jacob, 1798) | |
| <i>Cibicides refulgens</i> (Montfort, 1808) | |
| <i>Cibicides</i> sp. | |
| <i>Cibicidoides</i> spp. | |
| <i>Cibicidoides</i> cf. <i>subhaidingerii</i> (Parr, 1950) | X |
| <i>Heterolepa dutemplei</i> (d'Orbigny, 1846) | |
| <i>Lobatula mayori</i> (Cushman, 1924) | |
| <i>Planorbulina mediterraneensis</i> (d'Orbigny, 1826) | |
| <i>Planorbulinella elatensis</i> (Thomas, 1977) | |
| <i>Millettiana milletti</i> (Heron-Allen & Earland, 1915) | |
| <i>Cymbaloporeta bradyi</i> (Cushman, 1915) | |
| <i>Cymbaloporeta hemisphaerica</i> (Accordi & Selmi, 1952) | |
| <i>Cymbaloporeta squamosa</i> (d'Orbigny, 1839) | |
| <i>Cymbaloporeta</i> spp. | |
| <i>Cymbaloporella tabellaeformis</i> (Brady, 1884) | |
| <i>Pseudononion japonicum</i> (Asano, 1936) | X |
| <i>Nonion bogdanowiczi</i> (Voloshinova, 1952) | |
| <i>Nonion nicobarensis</i> (Cushman, 1936) | |
| <i>Nonion</i> sp. | X |
| <i>Nonionella pulchella</i> (Hada, 1931) | |
| <i>Nonionella japonica</i> var. <i>mexicana</i> (Cushman & McCulloch, 1940) | |
| <i>Nonionella</i> sp. | X |
| <i>Pileolina patelliformis</i> (Brady, 1884) | |
| <i>Protelphidium hofkeri</i> (Haynes, 1956) | |
| <i>Protelphidium</i> sp. | |
| <i>Elphidium advenum</i> (Cushman, 1922) | X |
| <i>Elphidium advenum</i> subsp. <i>limbatum</i> (Chapman, 1907) | |
| <i>Elphidium chipolensis</i> (Cushman, 1920) | |
| <i>Elphidium craticulatum</i> (Fichtel and Moll, 1798) | |
| <i>Elphidium crispum</i> (Linnaeus, 1758) | |
| <i>Elphidium discoidale</i> (d'Orbigny, 1839) | X |
| <i>Elphidium jenseni</i> (Cushman, 1924) | |
| <i>Elphidium macellum</i> (Fichtel & Moll, 1798) | X |
| <i>Elphidium margaritaceum</i> (Cushman, 1930) | |
| <i>Elphidium reticulosum</i> (Cushman, 1933) | |
| <i>Elphidium tongaense</i> (Cushman, 1931) | |

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| <i>Elphidium</i> cf. <i>alvaregianum</i> (d'Orbigny, 1839) | |
| <i>Elphidium</i> spp. | |
| <i>Criboelphidium albiumbilicatum</i> (Weiss, 1954) | |
| <i>Criboelphidium clarum</i> (Krashennikov, 1960) | |
| <i>Criboelphidium excavatum</i> (Terquem, 1875) | |
| <i>Criboelphidium incertum</i> (Williamson, 1858) | |
| <i>Criboelphidium poeyanum</i> (d'Orbigny, 1839) | |
| <i>Porosonion</i> spp. | |
| <i>Elphidiella</i> sp. | |
| <i>Haynesina germanica</i> (Ehrenberg, 1840) | |
| <i>Haynesina</i> sp. | |
| <i>Ammonia aberdoveyensis</i> (Haynes, 1973) | |
| <i>Ammonia beccarii</i> (Linnaeus, 1758) | X |
| <i>Ammonia elegans</i> (d'Orbigny 1826) | |
| <i>Ammonia faceta</i> (He, Hu & Wang, 1965) | |
| <i>Ammonia falsobeccarii</i> (Rouvillois, 1974) | |
| <i>Ammonia nakazatoensis</i> (Kuwano, 1950) | |
| <i>Ammonia sadoensis</i> (Asano, 1951) | |
| <i>Ammonia tepida</i> (Cushman, 1926) | |
| <i>Ammonia umbonata</i> (Le Roy, 1944) | |
| <i>Ammonia</i> cf. <i>aberdoveyensis</i> (Haynes, 1973) | |
| <i>Ammonia</i> cf. <i>convexa</i> (Collins, 1958) | |
| <i>Ammonia</i> cf. <i>parkinsoniana</i> (d'Orbigny, 1839) | |
| <i>Ammonia</i> spp. | |
| <i>Challengerella bradyi</i> (Billman, Hottinger and Oesterle, 1980) | |
| <i>Challengerella persica</i> (Billman, Hottinger & Oesterle, 1980) | |
| <i>Challengerella</i> sp. | |
| <i>Asterorotalia dentata</i> (Parker & Jones, 1865) | X |
| <i>Asterorotalia inflata</i> (Millelt, 1904) | X |
| <i>Asterorotalia milletti</i> (Hottinger and Oesterle, 1980) | |
| <i>Asterorotalia multispinosa</i> Nakamura, 1937 | |
| <i>Asterorotalia concinna</i> Millet 1904 | X |
| <i>Asterorotalia</i> spp. | |
| <i>Rotalidium annectens</i> (Parker & Jones, 1865) | X |
| <i>Rotalinoides compressiuscula</i> (Brady, 1884) | |
| <i>Pseudorotalia schroeteriana</i> (Parker & Jones in Carpenter, 1862) | |
| <i>Cristatavultus milletti</i> (Heron-Allen & Earland, 1915) | |
| <i>Acervulina mabahethi</i> (Said, 1949) | |
| <i>Acervulina inhaerens</i> (Schulze, 1854) | |
| <i>Amphistegina lessonii</i> (d'Orbigny in Guérin-Méneville, 1832) | |
| <i>Monspeliensisina</i> sp. | |
| <i>Eoeponidella</i> cf. <i>multisecta</i> (Galloway & Heminway, 1941) | |
| <i>Heterostegina depressa</i> (d'Orbigny, 1826) | |
| <i>Heterostegina</i> sp. | |
| <i>Operculina ammonoides</i> (Gronovius, 1781) | |
| <i>Operculina complanata</i> (Defrance in Blainville, 1822) | |
| <i>Operculina gaimardi</i> (d'Orbigny in Deshayes, 1832) | X |
| <i>Operculina</i> sp. | |
| <i>Murrayinella murrayi</i> (Heron-Allen & Earland, 1915) | |
| <i>Murrayinella globosa</i> (Millet, 1903) | |
| <i>Glandulina</i> sp. | |

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|---|---|
| <i>Globulotuba entosoleniformis</i> (Collins, 1958) | X |
| <i>Globulotuba</i> sp. | X |
| <i>Polymorphina</i> sp. | |
| <i>Guttulina</i> cf. <i>sadoensis</i> (Cushman and Ozawa, 1928) | |
| <i>Globulina</i> cf. <i>tropicale</i> (Petri, 1957) | |
| <i>Globulina</i> sp. | |
| <i>Sigmomorphina semisecta</i> (Reuss, 1867) | |
| <i>Sigmomorphina</i> sp. | |
| <i>Oolina</i> cf. <i>hexagona</i> (Williamson, 1848) | |
| <i>Oolina laevigata</i> (d'Orbigny, 1839) | |
| <i>Oolina</i> sp. | |
| <i>Buchnerina milletti</i> (Todd in Cushman, Todd & Post, 1954) | |
| <i>Fissurina cucurbitasema</i> (Loeblich & Tappan, 1953) | |
| <i>Fissurina laevigata</i> (Reuss, 1850) | |
| <i>Fissurina lucida</i> (Williamson, 1848) | |
| <i>Fissurina marginata</i> (Montagu, 1803) | X |
| <i>Fissurina pedunculata</i> (Seguenza, 1862) | |
| <i>Fissurina tricarinata</i> (Terquem, 1882) | |
| <i>Fissurina</i> spp. | |

| [40] | [41] | [42] | [43] | [44] | [45] | [46] |
|-----------------------|-----------------------|---------------|---------------|----------------------------|----------------------------|----------------------------|
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 28°33'-29°30' | 28°33'-29°50' | 28°33'-29°33' | 28°35'-29°34' | 28°40' | 28°37'-28°41' | 28°33'-29°50' |
| 47°45'-48°50' | 47°45'-48°50' | 47°47'-48°27' | 47°47'-48°10' | 48°20' | 48°20'-48°23' | 47°45'-48°50' |
| n.a. | n.a. | n.a. | n.a. | n.a. | <7 | n.a. |
| total | total | total | total | total | total | total |
| 56 | 12 | n.a. | 124 | 1 | 180 | 250 |
| n.a. | >75 µm | n.a. | n.a. | n.a. | n.a. | n.a. |
| nc | nc | TF | TF | SC | SC | nc |
| Northern Arabian Gulf | Northern Arabian Gulf | Tidal flats | Tidal flats | Al-Khiran, Southern coasts | Al-Khiran, Southern coasts | Coastal and offshore areas |
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| [53] | [29] | [54] | [55] | [55] | [56] |
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| 16 | 17 | 18 | 19a | 19b | 20 |
| 29°20'-29°21' | 29°19'-29°23' | 28°48'-28°49' | 29°29'-29°31' | 28°41'-28°42' | 29°01'-29°08' |
| 47°53'-47°54' | 47°49'-48°55' | 48°46'-48°47' | 48°06'-48°08' | 48°22'-48°23' | 48°08'-48°14' |
| <2 | < 10 | <20 | 1-7 | 0-2 | 1-9 |
| total and living | total and living | total and living | total and living | total and living | total |
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| [57] | [30] | [58] | [28] | [59] | [60] |
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| 21 | 22 | 23 | 24 | 25 | 26 |
| 29°21' | 29°19'-29°23' | 28°30'-29°15' | 28°41'-28°40' | 29°20'-29°30' | 29°18'-29°36' |
| 48°29' | 47°49'-48°55' | 48°10'-48°50' | 48°38'-48°39' | 48°12'-48°27' | 4°45'-48°15' |
| 13 | 1-4 | 5-26 | 1-35 | 1.5-7 | 1-22 |
| total | living | total | livind and total | living | living |
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