

LIST AND BIBLIOGRAPHY OF
THE RECENT BENTHONIC FORAMINIFERA
OF JAPAN, 1925-1981 (II)

Ritsuo NOMURA*

(Continued from the previous number)

- Neoconorbina crustata* (Cushman). Uchio, 1968. [**Discorbis*].
- Neoconorbina opercularis* (d'Orbigny). Uchio, 1968; Ikeya, 1977. [**Rosalina*, *Discorbis*, *Glabratella*, *Pileolina*].
- Neoconorbina opercularis nakamurai* (Asano). Uchio, 1968. [**Discorbis*, *Glabratella*, *Pileolina*].
- Neoconorbina opercularis subopercularis* (Asano). Uchio, 1968. [**Discorbis*, *Glabratella*, *Pileolina*].
- Neoconorbina patelliformis* (Brady). Uchio, 1968. [**Discorbina*, *Discorbis*, *Glabratella*, *Pileolina*].
- Neoconorbina stachi* (Asano). Aoki, 1967; Chiji and Lopez, 1968; Ujiie and Kusukawa, 1969; Matoba, 1970, p. 57, pl. 4, figs. 6a-c; 1975; 1976c; Ikeya, 1977; Aoshima, 1978. [**Discopulvinulina*, *Rosalina*].
- Neoconorbina subopercularis* (Asano). Ikeya, 1971b. [**Discorbis*, *Glabratella*, *Pileolina*].
- Neoconorbina terquemi* (Rzehak). Uchio, 1962a; Chiji and Lopez, 1968, p. 108, pl. 11, figs. 1a, b; Aoki, 1967. [**Discorbina*].
- Neoconorbina terquemi stachi* (Asano). Uchio, 1968. [**Discopulvinulina*, *Rosalina*].
- Neoeponides antillarum* (d'Orbigny). Uchio, 1968. [*Rotalina* (*Rotalina*)].
- Neowigerina porrecta* (Brady). Uchio, 1962a. [**Uvigerina*, *Siphonwigerina*].
- Nodobaculariella insignis* (Brady). Oinomikado and Stach, 1948, [**Vertebralina*].
- Nodogenerina lepidula* Cushman. Morishima and Chiji, 1952.
- Nodophthalmidium simplex* Cushman and Todd. Asano, 1956b, p. 81, pl. 9, figs. 21, 22.
- Nodosaria albatrossi* Cushman. Uchio, 1968,
- Nodosaria antillea* Cushman. Yabe and Hanzawa, 1925
- Nodosaria catenulata* Brady. Ikari, 1927, p. 4, pl. 1, fig. 15; Asano, 1937b; 1965a, p. 22, pl. 4, figs. 43, 44.
- Nodosaria communis* (d'Orbigny). Yabe and Hanzawa, 1925; Hanzawa, 1928. [**Dentalina*].
- Nodosaria farcimen* (Soldani). Yabe and Hanzawa, 1925. (= *Nodosaria farcimen* Silvestri). [**Orthoceras*].
- Nodosaria (Dentalina) flintii* Cushman. Hanzawa, 1928.
- Nodosaria (Dentalina) filiformis* d'Orbigny. Hanzawa, 1928. [*Dentalina*].
- Nodosaria hirsuta* d'Orbigny. Asano, 1937b. [*Amphicoryna*, *Lagenonodosaria*].
- Nodosaria hispida* d'Orbigny. Yabe and Hanzawa, 1925.
- Nodosaria japonica* Cushman. Asano, 1956a, p. 22-23, pl. 4, fig. 51.

*Department of Earth Science, Faculty of Education, Shimane University, Matsue, Japan

- Nodosaria laevigata* d'Orbigny. Ikari, 1927, p. 4, pl. 1, fig. 16. [*Nodosaria* (*Glandulina*), *Glandulina*].
- Nodosaria* (*Glandulina*) *laevigata* d'Orbigny. Yabe and Hanzawa, 1925: Hanzawa, 1928. [*Nodosaria*].
- Nodosaria pauciloculata* Cushman. Hanzawa, 1928: Uchio, 1968. [*Amphicoryna*, *Alfredosilvestris*, *Lagenonodosaria*].
- Nodosaria pyrula* d'Orbigny. Hanzawa, 1928: Hada, 1931, p. 98-99: Asano, 1937b; 1956a, p. 20-21, pl. 4, figs. 40, 42: Aoshima, 1978.
- Nodosaria pyrula longi-costata* Cushman. Asano, 1939.
- Nodosaria pyrula* d'Orbigny var. *semirugosa* d'Orbigny. Hada, 1931, p. 99, text-figs. 52a, b.
- Nodosaria radícula* (Linné). Hanzawa, 1928. [**Nautilus*].
- Nodosaria raphana* (Linné). Asano, 1937b: Sawai, 1958. [**Nautilus*].
- Nodosaria* cf. *raphana* (Linné). Asano, 1956a, p. 23, pl. 6, figs. 21-30.
- Nodosaria roemeri* Negeboren. Hanzawa, 1934.
- Nodosaria scalaris* (Batsch). Yabe and Hanzawa, 1925: Ikari, 1927, p. 4, fig. 17: Hanzawa, 1928: Hada, 1931, p. 100, text-fig. 53. [**Nautilus*, *Alfredosilvestris*, *Amphicoryna*].
- Nodosaria scalaris* var. *separans* Brady. Ikari, 1927, p. 4, pl. 1, fig. 18.
- Nodosaria semirugosa* d'Orbigny. Asano, 1956a, p. 21, pl. 4, fig. 41.
- Nodosaria simplex* Silvestri. Hada, 1931, p. 98, text-fig. 51: Ikeya, 1971b.
- Nodosaria soluta* (Reuss). Yabe and Hanzawa, 1925: Hanzawa, 1928. [**Dentalina*].
- Nodosaria spirostriolata* Cushman. Yabe and Hanzawa, 1925.
- Nodosaria subraphana* Asano. Asano, 1956a, p. 23-24, pl. 4, fig. 45: Shuto, 1965.
- Nodosaria vertebralis* (Batsch). Yabe and Hanzawa, 1925: Asano, 1937b; 1939; 1956a, p. 22, pl. 4, figs. 46-48: Morishima, 1955: Aoshima, 1978. [**Nautilus*].
- Nonion asterizans* (Fichtel and Moll). Morishima, 1947. [**Nautilus*].
- Nonion boueanum* (d'Orbigny). Hada, 1927; 1931, p. 117-118, text-figs. 76a, b; 1936; 1937: Asano, 1937a, b: Morishima, 1947; 1955: Ishiwada, 1958: Sawai, 1958: Chiji and Lopez, 1968: Ujié and Kusukawa, 1969. [**Nonionina*].
- Nonion depressulum* (Walker and Jacob). Hada, 1936: Kuwano, 1953. [**Nautilus*].
- Nonion grateloupi* (d'Orbigny). Kuwano, 1953: Sawai, 1958: Asano, 1960, p. 190, pl. 21, figs. 7a, b: Ishiwada, 1964, pl. 3, fig. 32: Shuto, 1965: Ikeya, 1971b: Matoba, 1976b: Aoshima, 1978. [**Nonionina*, *Florilus*, *Pseudononion*, *Nonionella*].
- Nonion grateloupi* (d'Orbigny) forma A. Kuwano, 1962, pl. 19, fig. 10.
- Nonion grateloupi* (d'Orbigny) forma B. Kuwano, 1962, pl. 20, fig. 1.
- Nonion japonicum* Asano. Asano, 1938, p. 1258; 1939; 1960, p. 190-191, pl. 21, figs. 1a, b: Morishima and Chiji, 1952, pl. 1, figs. 6a, b: Takayanagi, 1953a, b: Shuto, 1953; 1965: Kuwano, 1953: Nakaseko, 1953: Iwasa, 1954: Higuchi, 1954: Yoshida, 1954: Nagahama, 1954: Sawai, 1955; 1958: Morishima, 1955: Chiji and Lopez, 1968, p. 108, pl. 15, fig. 6: Ujié and Kusukawa, 1969: Matoba and Nakagawa, 1972: Matoba, 1975; 1976a, b, c: Kato, 1979. [*Florilus*].
- Nonion labradoricum* (Dawson). Kuwano, 1953: Ishiwada, 1954; 1964, p. 36-37, pl. 3, fig. 33: Uchio, 1959: Asano, 1960, p. 191-192, pl. 21, figs. 8a, b: Ikeya, 1970; 1971b: Matoba and Nakagawa, 1972: Matoba, 1975; 1956a, b, c: Aoshima, 1979. [**Nonionina*, *Nonionellina*].
- Nonion manpukujiense* Otuka. Oinomikado and Stach, 1948: Maruhasi, 1948: Ishiwada, 1950; 1964, pl. 3, fig. 34: Takayanagi, 1953b: Morishima, 1955: Asano, 1960, p. 192-

- 193, pl. 21, fig. 3: Uchio, 1962b; 1968: Kuwano, 1963: Ujiie and Kusukawa, 1969.
- Nonion manpukujiense japonicum* Asano. Kuwano, 1962, pl. 20, fig. 4.
- Nonion nicobarense* Cushman. Yoshida, 1953b; Higuchi, 1954: Nagahama, 1954: Asano, 1960, p. 193, pl. 21, fig. 4: Harrington, 1960: Ishiwada, 1964, pl. 3, fig. 35. (*Melonis*).
- Nonion* cf. *nicobarense* Cushman. Morishima and Chiji, 1952, pl. 1, figs. 8a, b.
- Nonion orbicularis* (Brady). Sawai, 1958. [**Nonionina, Elphidium*].
- Nonion pacificum* (Cushman). Nakaseko, 1953: Takayanagi, 1953b Morishima, 1955: Sawai, 1958: Ishiwada, 1964, pl. 3, fig. 36: Chiji and Lopez, 1968: Ikeya, 1971b. (= *Nonionina umbilicatula* (Montagu) var. *pacifica* Cushman).
- Nonion pompilioides* (Fichtel and Moll). Yabe and Hanzawa, 1925: Nagahama, 1954: Harrington, 1960. [**Nautilus*].
- Nonion scaphum* (Fichtel and Moll). Hada, 1929; 1931, p. 118-119, text-figs. 77a, b; 1939; 1957b: Hanzawa, 1934: Asano, 1937a; 1938; 1939: Fukuta, 1951: Takayanagi, 1953b: Nagahama, 1954: Sawai, 1958: Ujiie and Kusukawa, 1969: Ikeya, 1971b: Matoba, 1975; 1976b, c. [**Nautilus, Nonionina*].
- Nonion* cf. *scaphum* (Fichtel and Moll). Asano, 1937a; 1960, p. 193, pl. 21, figs. 6a, b: Kuwano, 1953.
- Nonion subturgidus* (Cushman). Uchio, 1968. [**Nonionina*].
- Nonion turgida* (Williamson). Hada, 1931, p. 119-120, text-figs. 78a, b: Oinomikado and Stach, 1948. [**Rotalina, Nonionina, Nonionella*].
- Nonion umbilicatulum* (Walker and Jacob). Yabe and Hanzawa, 1925: Hada, 1936: Sawai, 1958. [**Nautilus*].
- Nonion zaandamae* (van Voorthuysen). Ikeya, 1970. (= *Anomalinoidea barleeaanum* var. *zaandamae* van Voorthuysen).
- Nonion zaandamae bosoensis* Kuwano, 1962 (n. subsp.), pl. 19, fig. 9; 1963. (*nom. nud.*).
- Nonionella auricula* Heron-Allen and Earland. Ikeya, 1970.
- Nonionella globosa* Ishiwada, 1950 (n. sp.), p. 191, figs. 3a-c; 1964, p. 37 pl. 3, fig. 40: Ikeya, 1971b: Matoba and Nakagawa, 1972: Matoba, 1976a, b: Aoshima, 1978: Inoue, 1980, pl. 28, figs. 3a, b.
- Nonionella japonica* Asano. Nagahama, 1951: Morishima, 1955. [*Pseudononion*].
- Nonionella (Pseudononion) japonica* Asano. Harrington, 1960.
- Nonionella miocenica* Cushman. Chiji and Lopez, 1968, p. 108, pl. 15, fig. 7.
- Nonionella miocenica stella* Cushman and Moyer. Higuchi, 1954: Morishima, 1955.
- Nonionella parri* Cushman. Harrington, 1960.
- Nonionella pulchella* Hada, 1931 (n. sp.), p. 120-121, text-figs. 79a-c; 1936: Asano, 1937a; 1938, p. 1258; 1960, p. 194-195, pl. 21, figs. 5a, b: Morishima, 1947; 1948a: Morishima and Chiji, 1952: Kuwano, 1953: Takayanagi, 1953a; 1955, p. 42, pl. 1, figs. 23a-c: Ishiwada, 1954: Chiji and Lopez, 1968, p. 108, pl. 15, fig. 8: Ujiie and Kusukawa, 1969: Matoba, 1975; 1976c.
- Nonionella stella* Cushman and Moyer. Uchio, 1959; 1962a, b: Ishiwada, 1954, p. 37-38, pl. 3, figs. 41a, b (= *Nonionella miocenica stella* Cushman and Moyer; *Nonionella pulchella* Hada): Matoba, 1970, p. 57, pl. 8, figs. 8a-c; 1975; 1976a, b, c: Ikeya, 1970; 1971b; 1977: Matoba and Nakagawa, 1972: Inoue, 1980, pl. 28, figs. 1a-c.
- Nonionella subextensa* Kuwano, 1962 (n. sp.), pl. 20, figs. 2, 3. (*nom. nud.*).
- Nonionella tredeca* (Asano). Morishima, 1955. [**Pseudononion*].
- Nonionella turgida* (Williamson). Aoshima, 1978. [**Rotalina*].

- Nonionella?* sp. Kuwano, 1962, pl. 20, fig. 5.
- Nonionella grateloupi* (d'Orbigny). Inoue, 1980, pl. 28, figs. 2a, b. [**Nonionina, Florilus, Pseudononion*].
- Nonionellina labradorica* (Dawson). Chiji and Lopez, 1968, p. 109, pl. 15, fig. 12; Chiji and Konda, 1970; Inoue, 1980, pl. 28, figs. 4a, b. [**Nonionina, Nonion*].
- Nonionina auris* d'Orbigny. Hada, 1929.
- Nonionina boueana* d'Orbigny Ikari, 1927, p. 6-7, pl. 2, figs. 15, 16; Hada, 1929. [*Nonion*].
- Nonionina depressula* (Walker and Jacob). Hanzawa, 1928. [**Nautilus, Nonion*].
- Nonionina pompilioides* (Fichtel and Moll). Hanzawa, 1928. [**Nautilus, Nonion*].
- Nonionina scapha* (Fichtel and Moll). Hanzawa, 1928; Hada, 1929. [**Nautilus, Nonion*].
- Nonionina umbilicatula* (Walker and Jacob). Hanzawa, 1928. [**Nautilus, Nonion*].
- Nourina polymorphinoides* Heron-Allen and Earland. Hada, 1931, p. 93, text-figs. 45a, b; 1957b; Morishima, 1955; Uchio, 1968; Chiji and Lopez, 1968; Ujiié and Kusukawa, 1969.
- Nourina tenuis* Hada, 1931 (n. sp.), p. 94-95, text-figs. 47a, b; 1957b; Morishima, 1955; Matoba, 1976c.
- Nourina textulariformis* Hada, 1931 (n. sp.), p. 93-94, text-figs. 46a, b; 1957b; Uchio, 1962b; Matoba, 1976c.
- Nummuloculina contraria* (d'Orbigny). Asano, 1956b, p. 82; Chiji and Lopez, 1968. [**Bil-oculina*].
- Oinomikadoina ogiensis* Matsunaga. Takayanagi, 1955, pl. 2, figs. 20a, b. [*Caribbeanella*].
- Oolina acuticosta* (Reuss). Uchio, 1962a. [**Lagena*].
- Oolina bifurcata* (LeRoy). Uchio, 1962a. [**Lagena*].
- Oolina caudigera* (Wiesner). Ikeya, 1970; 1971b. [**Lagena (Oolina)*].
- Oolina costata* (Williamson). Matoba, 1970, p. 57, pl. 3, fig. 18; 1976a. [**Entosolenia, Lagena*].
- Oolina feildeniana* (Brady). Asano, 1956a, p. 42, pl. 5, fig. 34. [**Lagena*].
- Oolina globosa* (Montagu). Ikeya, 1970; Inoue, 1980, pl. 27, fig. 9. [**Vermiculum, Entosolenia, Lagena*].
- Oolina* cf. *globosa* (Montagu). Asano, 1951, p. 41, pl. 5, fig. 1.
- Oolina haxagona* (Williamson). Asano, 1956a, p. 43; Ujiié and Kusukawa, 1969; Inoue, 1980, pl. 27, fig. 9. [**Entosolenia, Lagena*].
- Oolina lineata* (Williamson). Ikeya, 1970; 1971b. [**Entosolenia*].
- Oolina longispina* (Brady). Asano, 1956a, p. 41-42, pl. 5, fig. 2. [**Lagena*].
- Oolina melo* d'Orbigny. Asano, 1956a, p. 43-44, pl. 5, figs. 44-50; Uchio, 1962a; Ujiié and Kusukawa, 1969; Matoba, 1970, p. 57, pl. 3, fig. 19; Chiji and Konda, 1970; Ikeya, 1970; 1971b; Aoshima, 1978; Kato, 1979; Inoue, 1980. [*Lagena*].
- Oolina striatopunctata* (Parker and Jones). Asano, 1956a, p. 42, pl. 5, figs. 35, 36; Ikeya, 1971b. (= *Lagena sulcata* var. *striatopunctata* Parker and Jones).
- Oolina* sp. Matoba, 1970, p. 57, pl. 3, figs. 20a, b.
- Operculina ammonoides* Gronovis. Ikari, 1927, p. 7, pl. 2, figs. 17a, b; Hanzawa, 1928; 1948; Uchio, 1968; Chiji and Lopez, 1968, p. 109, pl. 13, fig. 10.
- Operculina bartschi* Cushman var. *plana* Cushman. Hanzawa, 1928.
- Operculina cumingii* (Carter). Hanzawa, 1948. [**Amphistegina*].
- Operculina* sp. aff. *javana* Verbeek and Fennema. Uchio, 1952, p. 152-153, pl. 6, fig. 6.
- Operculina venosa* (Fichtel and Moll). Hanzawa, 1928; Asano, 1937b, p. 40. [**Nautilus*].

- Ophthalmidium inconstans* (Brady). Asano, 1956b, p. 82. [**Hauerina*].
- Oridorsalis umbonatus* (Reuss). Uchio, 1968: Matoba, 1976a: Aoshima, 1978. [**Rotalia*, *Buccella*, *Eponides*].
- Palmura robusta* (Brady). Uchio, 1952, p. 152, pl. 6, fig. 2. [**Fronicularia*].
- Parafissulina hematiostoma* Loeblich and Tappan. Ikeya, 1971b.
- Parafissulina impariiformis* McCulloch. Inoue, 1980, pl. 26, fig. 3.
- Parafissulina lateralis* (Cushman). Ikeya, 1977. [**Lagena*, *Entosolenia*].
- Parafissulina semilucida* McCulloch. Inoue, 1980, pl. 27, fig. 10.
- Pararotalia globosa* (Millett). Matoba, 1975; 1976a, c. (= *Discorbina imperatoria* (d'Orbigny) var. *globosa* Millett).
- Pararotalia? globosa* (Millett). Matoba, 1970, p. 57-58, pl. 6, figs. 8a-c (= *Rotalia erinacea* Heron-Allen and Earland).
- Pararotalia* cf. *imperatoria* var. *globosa* (Millett). Chiji and Lopez, 1968, p. 199, pl. 12, figs. 5a-c.
- Pararotalia minuta* (Takayanagi). Matoba, 1970, p. 58, pl. 6, figs. 5a-c, 6a-c, 7a-c; 1975; 1976c: Aoshima, 1978: Inoue, 1980. (= *Rotalia? minuta* Takayanagi).
- Pararotalia murrayi* (Heron-Allen and Earland). Chiji and Lopez, 1968, p. 109, pl. 12, figs. 6a, b. [**Rotalia*].
- Pararotalia nipponica* (Asano). Aoki, 1967: Uchio, 1968: Matoba, 1970, p. 57, pl. 6, figs. 3a-c, 4a-c (= *Rotalia ozawai* Asano); 1975; 1976c: Ikeya, 1977: Aoshima, 1978: Kato, 1979. [**Rotalia*, *Ammonia*].
- Pararotalia ozawai* (Asano). Chiji and Lopez, 1968: Aoshima, 1978. [**Rotalia*, *Ammonia*].
- Pararotalia? takayanagii* Matoba, 1970 (n. sp.), p. 63-64, pl. 6, figs. 9a-c, 10a-c: Ikeya, 1977.
- Parella culter* Parker and Jones. Shuto, 1953. [*Truncatulina*].
- Parrina bradyi* (Millett). Oinomikado and Stach, 1948. [**Nubecularia*].
- Patellina corrugata* Williamson. Hada, 1929: Hanzawa, 1948: Uchio, 1952; 1962a: Morishima, 1955: Shuto, 1965: Aoki, 1967: Chiji and Lopez, 1968, p. 109, pl. 12, figs. 1a, b: Ujiié and Kusukawa, 1969: Matoba, 1970 p. 58, pl. 5, figs. 1a-c: Ikeya, 1971b.
- Patellina hanzawai* Asano. Asano, 1937b: Takayanagi, 1955: Aoki, 1967: Ikeya, 1971b: Matoba, 1976a, c.
- Patellinella hanzawai* (Asano). Uchio, 1968.
- Patellinella inconspicua* (Brady). Ishiwada, 1950: Chiji and Lopez, 1968. [**Textularia*].
- Pateoris hauerinoides* (Rhumbler). Ikeya, 1971b. (= *Quinqueloculina subrotunda* (Montagu) forma *hauerinoides* Rhumbler).
- Pavonina flabelliformis* d'Orbigny. Uchio, 1952, p. 153-154, pl. 6, fig. 6; 1962a; 1968.
- Pelosina variabilis* Brady. Chiji and Konda, 1970.
- Pelosina cylindrica* Brady. Hanzawa, 1928.
- Peneroplis pertusus* (Forsk.) Uchio, 1952; 1962a: Shuto, 1953: Kuwano, 1956, p. 277-278: Chiji and Lopez, 1968. [**Nautilus*].
- Pileolina nakamurai* (Asano). Aoki, 1967. [**Discorbis*, *Glabratella*].
- Pileolina opercularis* (d'Orbigny). Aoki, 1967. [**Rosalina*, *Discorbis*, *Glabratella*, *Neoconorbina*].
- Pileolona patelliformis* (Brady). Aoki, 1967. [**Discorbina*, *Glabratella*].
- Pileolina subopercularis* (Asano). Aoki, 1967. [**Discorbis*, *Glabratella*, *Neoconorbina*].
- Placopsilina cenomana* d'Orbigny. Hada, 1957b.

- Planispirina sphaera* (d'Orbigny). Morishima, 1948b; 1950. [**Biloculina*].
- Planispirinella exiqua* (Brady). Hanzawa, 1928: Chiji and Lopez, 1968. [**Planispirina*].
- Planodiscorbis circularis* (Sidebottom). Uchio, 1968. [**Discorbina*].
- Planodiscorbis rarescens* (Brady). Ishiwada, 1964, p. 41, pl. 5, figs. 85a-86b (= *Planulina convexa* Takayanagi): Aoki, 1967. [**Discorbina*].
- Planorbulina acervalis* Brady. Hanzawa, 1928: Uchio, 1962a; 1968: Aoki, 1967.
- Planorbulina mediterraneensis* d'Orbigny. Asano, 1937a: Fukuta, 1951: Takayanagi, 1953b: Uchio, 1952; 1962a.
- Planorbulina* cf. *mediterraneensis* d'Orbigny. Chiji and Lopez, 1968, p. 109, pl. 14, figs. 8a, b.
- Planorbulinella larvata* (Parker and Jones). Hanzawa, 1928; 1948: Uchio, 1952: Kuwano, 1956, p. 280, pl. 30, figs. 12, 13. (= *Planorbulina vulgaris* d'Orbigny var. *larvata* Parker and Jones).
- Planularia* sp. aff. *lata* (Cushman). Asano, 1956a, p. 13, pl. 4, figs. 5-7. [**Cristellaria*].
- Planularia patens* (Brady). Asano, 1956a, p. 12, pl. 4, figs. 3, 4. [**Vaginulina*].
- Planularia planulata* (Galloway and Wiesler). Nagahama, 1954. [**Astacodus*].
- Planularia tricarinelata* (Reuss). Asano, 1956a, p. 12-13, pl. 4, figs. 1, 2: Aoshima, 1978. [**Cristellaria*].
- Planulina ariminensis* d'Orbigny. Nagahama, 1954.
- Planulina convexa* Takayanagi. Takayanagi, 1953b: Aoshima, 1978.
- Planulina convexa* Takayanagi forma A. Kuwano, 1962, pl. 20, fig. 6.
- Planulina convexa* Takayanagi forma B. Kuwano, 1962, pl. 20, fig. 7.
- Planulina convexa* Takayanagi forma C. Kuwano, 1962, pl. 20, fig. 8.
- Planulina nipponica* Asano. Tai, 1971.
- Planulina (Hanzawaia) nipponica* Asano. Kuwano, 1953.
- Planulina subdepressa* Asano. Shuto, 1953; 1965: Chiji and Lopez, 1968: Ikeya, 1971b.
- Planulina wuellerstorfi* (Schwager). Asano, 1937a, b; 1938; 1939: Ishiwada, 1950; 1958; 1964, pl. 8, figs. 112a, b: Fukuta, 1951: Morishima and Chiji, 1952: Shuto, 1953; 1965: Nakaseko, 1953: Nagahama, 1954: Morishima, 1955: Harrington, 1960: Uchio, 1968: Chiji and Konda, 1970: Matoba, 1976c: Aoshima, 1978. [**Anomalina*, *Cibicides*, *Truncatulina*].
- Planulina* sp. 1. Kuwano, 1962, pl. 20, fig. 9.
- Planulina* sp. 2. Kuwano, 1962, pl. 21, fig. 1.
- Planulinoides biconcavus* (Parker and Jones). Aoki, 1967. [**Discorbina*].
- Pleurostomella alternans* Schwager. Yabe and Hanzawa, 1925.
- Polymorphina angusta* (Egger). Hanzawa, 1928. [**Polymorphina (Globulina)*].
- Polymorphina charlottensis* Cushman. Ishiwada, 1950.
- Polymorphina communis* d'Orbigny. Hada, 1929. [**Polymorphina (Guttulina)*].
- Polymorphina denticulata* (Brady). Asano, 1937a.
- Polymorphina elegantissima* Parker and Jones. Yabe and Hanzawa, 1925.
- Polymorphina gibba* d'Orbigny (?). Ikari, 1927, p. 5, pl. 2, fig. 6. [*Globulina*, *Guttulina*].
- Polymorphina lactea* (Walker and Jacob) var. *diffusa* Jones and Chapman. Hada, 1929.
- Polymorphina lactea* (Walker and Jacob) var. *novangliae* Cushman. Hada, 1929.
- Polymorphina problema* (d'Orbigny). Yabe and Hanzawa, 1925. [**Polymorphina (Guttulina)*].
- Polymorphina sordanii* (d'Orbigny). Hada, 1929. [**Polymorphina (Guttulina)*, *Pseudopoly-*

morphina].

- Polystomella crispa* (Linné). Yabe and Hanzawa, 1925: Ikari, 1927, p. 7, pl. 2, figs. 16a, b: Hanzawa, 1928: Hada, 1929. [**Nautilus*, *Elphidium*].
- Polystomella decipiens* Costa. Hada, 1929. [*Elphidium*].
- Polystomella discorbinooides* Yabe and Hanzawa. Shuto, 1953.
- Polystomella faba* Fichtel and Moll. Hada, 1929. [*Elphidium*].
- Polystomella macella* Fichtel and Moll. Hanzawa, 1928: Hada, 1929. [*Elphidium*].
- Polystomella sibirica* Goës. Hada, 1929. [*Elphidium*, *Elphidiella*].
- Polystomella striato-punctata* Fichtel and Moll. Hada, 1929. [*Elphidium*].
- Polystomella (Elphidium) subnodosa* (Münster). Hanzawa, 1928. [**Robulina*].
- Polystomella* sp. Inoue, 1980, pl. 27, figs. 16a, b.
- Poroeponides cribroconcameratus* Asano and Uchio. Takayanagi, 1953b: Tai, 1971.
- Poroeponides cribrorepandus* Asano and Uchio. Uchio, 1952, p. 157-158; 1962a; 1968: Shuto, 1953; 1965: Nakaseko, 1953: Takayanagi, 1953b: Sawai, 1955: Chiji and Konda, 1968: Matoba, 1970, p. 58, pl. 8, figs. 1a-c; 1975; 1976c: Tai, 1971: Ikeya, 1971b: Aoshima, 1978: Kato, 1979.
- Poroeponides lateralis* (Terquem). Shuto, 1953; 1965: Takayanagi, 1953b: Matoba, 1970, p. 58, pl. 8, figs. 2a-c; 1976c: Tai, 1971: Kato, 1979. [**Rosalina*, *Eponides*].
- Praesorites orbitolitoides* Hofker. Hanzawa, 1948.
- Proteonina crassa* Hada, 1929 (n. sp.), p. 54, text-fig. 5; 1957b: Asano, 1938: Ishiwada, 1950.
- Proteonina difflugiformis* (Brady). Hada, 1929; 1931, p. 52-53, text-fig. 4; 1939; 1957b: Asano, 1937b; 1939: Ishiwada, 1950: Kuwano, 1953: Morishima, 1955: Ikeya, 1970. [**Reophax*, *Lagenammia*].
- Proteonina difflugiformis* (Brady) var. *globosa* Hada, 1937 (n. var.).
- Proteonina difflugiformis* (Brady) var. *limnetica* Hada, 1937 (n. var.), p. 346, fig. 5.
- Proteonina* cf. *eocenica* Cushman. Ishiwada, 1958, pl. 1, figs. 5, 6.
- Proteonina fusiformis* Williamson. Hanzawa, 1928: Sawai, 1955; 1958: Hada, 1957b.
- Proteonina lagenaria* (Berthelin). Takayanagi, 1955, pl. 1, fig. 1: Ishiwada, 1958, pl. 1, fig. 4. [**Haplophragmium*, *Lagenammia*].
- Proteonina limnetica* Hada, 1957b. (= *Proteonina difflugiformis* (Brady) var. *limnetica* Hada).
- Proteonina pyriformis* (Egger). Hada, 1957b.
- Proteonina findens* (Parker). Chiji and Konda, 1970. [**Lituola*].
- Psammosphaera fusca* Schultze. Hada, 1931, p. 51, text-fig. 2; 1957b: Ujiié and Kusukawa, 1969: Chiji and Konda, 1970: Ikeya, 1970.
- Psammosphaera fusca* var. *testacea* Flint. Hanzawa, 1928.
- Psammosphaera parva* Flint. Hada, 1931, p. 52, text-fig. 3; 1957b.
- Psammosphaera testacea* Flint. Hada, 1957. (= *Psammosphaera fusca* var. *testacea* Flint).
- Pseudobulimina simaensis* (Makiyama and Nakagawa). Asano, 1958, p. 13, pl. 3, figs. 14, 15a, b: Takayanagi, 1955. [**Geminospira*].
- Pseudocibicidoides katasensis* Ujiié, 1956a (n. sp.), p. 263-265, pl. 13, figs. 1a-c, 2a-c, 3: Aoki, 1964, p. 195-199, pl. 29, figs. 1-15: Ujiié and Kusukawa, 1969: Aoki, 1967. [*Caribbeanella*].
- Pseudoclavulina juncea* Cushman. Ishiwada, 1964, p. 35, pl. 1, fig. 11: Ikeya, 1967.
- Pseudoclavulina scabra* Cushman. Uchio, 1968.

- Pseudoeponides nakazatoensis* (Kuwano). Shuto, 1953: Ikeya, 1970. [**Epistomaria* (*Epistomariella*)].
- Pseudoglandulina japonica* Asano, 1956a (n. sp.), p. 44-45, text-figs. 4, 5.
- Pseudoglandulina laevigata* (d'Orbigny). Aoshima, 1978: Inoue, 1980. [**Nodosaria* (*Glanduline*)].
- Pseudoglandulina rotundata* (Reuss). Hanzawa, 1934. [**Glandulina*].
- Pseudomassilina macilenta* (Brady). Uchio, 1968. [**Miliolina*].
- Pseudonodosaria torrida* (Cushman). Aoshima, 1978. (= *Nodosaria* (*Glandulina*) *laevigata* var. *torrida* Cushman).
- Pseudononion grateloupi* (d'Orbigny). Uchio, 1962a: Aoki, 1967: Matoba, 1975; 1976a, c. [**Nonionina*, *Florilus*, *Nonion*, *Nonionella*].
- Pseudononion japonicum* Asano. Asano, 1937a, b; 1938; 1960, p. 193-194, pl. 21, figs. 2a-c: Oinomikado and Stach, 1948: Morishima and Chiji, 1952, pl. 2, figs. 2a-c: Kuwano, 1953; 1962, pl. 21, fig. 2; 1963: Shuto, 1953: Takayanagi, 1953a, b; 1955, p. 42, pl. 1, figs. 22a, b: Nakaseko, 1953: Higuchi, 1954: Yoshida, 1954: Nagahama, 1954: Ujiié, 1956a: Matsuda, 1957: Sawai, 1958: Ishiwada, 1958, pl. 1, figs. 15, 16; 1964, p. 37, pl. 3, figs. 39a, b: Uchio, 1959; 1962b; 1968: Aoki, 1967: Ujiié and Kusukawa, 1969: Matoba, 1970, p. 58, pl. 8, figs. 9a-c; 1975; 1976b, c: Ikeya, 1970; 1971b: kato, 1979. [*Nonionella*].
- Pseudononion shimodaense* Aoki, 1967 (n. sp.), p. 381, pl. 1, figs. 5-6.
- Pseudononion tredecum* Asano. Asano, 1937a: Shuto, 1953: Ujiié and Kusukawa, 1969: Matoba and Nakagawa, 1972: Matoba, 1975; 1976a, c. [*Nonionella*].
- Pseudoparella naraensis* Kuwano. Matoba, 1976b. [*Epistominella*].
- Pseudoparella nipponica* (Kuwano). Hasegawa, 1979. [**Epistominella*, *Eilohedra*].
- Pseudoparella takayanagii* (Iwasa). Hasegawa, 1979. [**Epistominella*].
- Pseudoparella tamana* Kuwano. Matoba, 1976b. [*Epistominella*].
- Pseudopolymorphina atlantica* Cushman and Ozawa. Kuwano, 1955.
- Pseudopolymorphina doani* (Galloway and Wissler). Aoshima, 1978. [**Polymorphina*].
- Pseudopolymorphina hanzawai* Cushman and Ozawa. Chiji and Konda, 1970: Matoba, 1975; 1976c.
- Pseudopolymorphina indica* (Cushman). Uchio, 1952: Shuto, 1953: Takayanagi, 1953b. (= *Polymorphina problema* d'Orbigny var. *indica* Cushman).
- Pseudopolymorphina indica japonica* Cushman and Ozawa. Asano, 1939.
- Pseudopolymorphina ishikawaensis* Cushman and Ozawa. Oinomikado and Stach, 1948: Kuwano, 1955.
- Pseudopolymorphina okuwaensis* Cushman and Ozawa. Oinomikado and Stach, 1948: Kuwano, 1955: Uchio, 1962b: Matoba, 1975; 1976c.
- Pseudopolymorphina shibatai* Aoki, 1967 (n. sp.), p. 380, pl. 1, figs. 1-4.
- Pseudopolymorphina soldanii* (d'Orbigny). Hada, 1929; 1931, p. 113-114, text-figs. 71a, b. [**Polymorphina*].
- Pseudopolymorphina suboblonga* Cushman and Ozawa. Matoba, 1975; 1976c.
- Pseudopolymorphina* sp. Inoue, 1980, pl. 27, fig. 21.
- Pseudorotalia gaimardii* (d'Orbigny). Uchio, 1962b; 1968: Chiji and Lopez, 1968, p. 109, pl. 12, figs. 7a-c: Ujiié and Kusukawa, 1969: Matoba, 1975; 1976a, c: Aoshima, 1978. [**Rotalia* (*Turbinulina*), *Streblus*].
- Pullenia apertula* Cushman. Iwasa, 1954: Kuwano, 1955: Matoba, 1975; 1976c: Aoshima,

- 1978: Inoue, 1980, pl. 27, figs. 22a, b.
- Pullenia bulloides* (d'Orbigny). Iwasa, 1950: Aoshima, 1978. [**Nonionina*].
- Pullenia obliquiloculata* Parker and Jones. Yabe and Hanzawa, 1925.
- Pullenia quinqueloba* (Reuss). Yabe and Hanzawa, 1925: Ishiwada, 1955: Morishima, 1955: Aoki, 1967. [**Nonionina*].
- Pullenia salisburyi* Stewart and Stewart var. Kuwano, 1962, pl. 21, fig. 3; 1963.
- Pullenia sphaeroides* (d'Orbigny). Yabe and Hanzawa, 1925: Hanzawa, 1928: Ishiwada, 1950. [**Nonionina*].
- Pullenia subcarinata* (d'Orbigny). Aoshima, 1978. [**Nonionina*].
- Pulvinulina canariensis* d'Orbigny. Hanzawa, 1928. [**Rotalia*].
- Pulvinulina elegans* d'Orbigny. Hanzawa, 1928. [**Rotalia* (*Turbinulina*)].
- Pulvinulina exigua* Brady. Hada, 1929. [*Epistominella*, *Eponides*].
- Pulvinulina favus* Brady. Hanzawa, 1928.
- Pulvinulina oblonga* Williamson. Ikari, 1927, p. 5, pl. 2, figs. 12a-c: Hada, 1929. [*Cancriis*].
- Pulvinulina partschiana* d'Orbigny. Hanzawa, 1928.
- Pulvinulina patagonica* d'Orbigny. Hanzawa, 1928.
- Pulvinulina pauperata* Parker and Jones. Hanzawa, 1928. (= *Pulvinulina repanda* (Fichtel and Moll) var. *menardii* (d'Orbigny) subvar. *pauperata* Parker and Jones).
- Pulvinulina punctata* (d'Orbigny). Hanzawa, 1928. [**Rotalia*].
- Pulvinulina repanda* (Fichtel and Moll). Hanzawa, 1928. [**Nautilus*].
- Pyrgo bradyi* (Schlumberger). Asano, 1939: Hanzawa, 1948. [**Biloculina*].
- Pyrgo denticulata* (Brady). Asano, 1939: Uchio, 1952: Morishima, 1955: Aoki, 1967: Chiji and Lopez, 1968, p. 109, pl. 8, fig. 2. (= *Biloculina ringens* (Lamarck) var. *denticulata* Brady).
- Pyrgo denticulata* var. *striolata* (Brady). Uchio, 1952. [**Biloculina*].
- Pyrgo depressa* (d'Orbigny). Asano, 1937a, b; 1939; 1956b, p. 76-77, pl. 9, figs. 4, 6 (?): Shuto, 1953: Nagahama, 1954: Harrington, 1960: Aoshima, 1978. [**Biloculina*].
- Pyrgo elongata* (d'Orbigny). Ikeya, 1977. [**Biloculina*].
- Pyrgo ezo* Asano. Shuto, 1953; 1965: Higuchi, 1954: Takayanagi, 1955, pl. 1, fig. 15: Asano, 1956b, p. 77-78, pl. 9, figs. 9, 11, 16 (?): Matoba, 1970, p. 58-59, pl. 2, figs. 20a, b: Tai, 1971: Ikeya, 1971b: Kato, 1979.
- Pyrgo fornasinii* Chapman and Parr. Asano, 1956b, p. 79, pl. 9, figs. 1, 2: Chiji and Konda, 1970.
- Pyrgo hachijiensis* Uchio, 1952 (n. sp.), p. 151, pl. 6, figs. 1a, b.
- Pyrgo lucernula* (Schwager). Hanzawa, 1948. [**Biloculina*].
- Pyrgo milletti* (Cushman). Uchio, 1968. [**Biloculina*].
- Pyrgo murrhyna* (Schwager). Ishiwada, 1950: Asano, 1956b, p. 78, pl. 9, figs. 5, 12 (?): Chiji and Konda, 1970: Aoshima, 1978. [**Biloculina*].
- Pyrgo* cf. *murrhyna* (Schwager). Inoue, 1980, pl. 27, fig. 27.
- Pyrgo natukawa* Matsui and Nakagawa. Morishima, 1955.
- Pyrgo pacifica* Asano, 1956b (n. sp.), p. 78-79, pl. 9, fig. 3.
- Pyrgo siogamaensis* Asano, 1937a (n. sp.), p. 114, pl. 15, figs. 3a, b; 1938; 1956b, p. 78, pl. 9, figs. 7, 8.
- Pyrgo vespertilio* (Schlumberger). Ikeya, 1971b: Inoue, 1980. [**Biloculina*].
- Pyrgo williamsoni* Silvestri. Ujiie and Kusukawa, 1969.
- Pyrgo yabei* Asano. Asano, 1937a; 1939; 1956b, p. 77, pl. 9, fig. 10: Oinomikado and

- Stach, 1948 : Takayanagi, 1955 : Ikeya, 1971b.
- Pyrgo* sp. Asano, 1956b, p. 79, pl. 9, fig. 23.
- Pyrgoella sphaera* (d'Orbigny). Uchio, 1968 : Matoba, 1976c. [**Biloculina*].
- Pyrulina cylindroides* (Roemer). Uchio, 1962a. [**Polymorphina* (*Polymorphinen*)].
- Pyrulina hamadaensis* Asano. Matoba, 1975 ; 1976c.
- Quinqueloculina arctica* Cushman. Ujiie and Kusukawa, 1969 : Ikeya, 1971.
- Quinqueloculina agglutinans* d'Orbigny. Hanzawa, 1928 : Hada, 1929 ; 1939 : Morishima, 1948b ; 1950 ; 1955 : Shuto, 1953 ; 1965 : Uchio, 1962a : Aoki, 1967 : Chiji and Lopez, 1968, p. 109, pl. 8, figs. 3a, b.
- Quinqueloculina agglutinata* Cushman. Shuto, 1953 ; 1965 : Chiji and Lopez, 1968 : Ikeya, 1977 : Kato, 1979.
- Quinqueloculina akneriana* d'Orbigny. Takayanagi, 1953b ; 1955 : Shuto, 1953 : Iwasa, 1954 : Tai, 1971 : Kato, 1979.
- Quinqueloculina bicarinata* d'Orbigny. Chiji and Lopez, 1968, p. 109, pl. 8, figs. 4a-c.
- Quinqueloculina bicornis* (Walker and Jacob). Takayanagi, 1953b : Chiji and Lopez, 1968, p. 109, pl. 8, figs. 5a, b. [**Serpula*].
- Quinqueloculina bicostata* d'Orbigny. Shuto, 1953 ; 1965 : Ikeya, 1971b : Kato, 1979.
- Quinqueloculina bosciiana* d'Orbigny. Chiji and Lopez, 1968, p. 109, pl. 8, figs. 6a, b.
- Quinqueloculina boueana* d'Orbigny. Hanzawa, 1928 : Hada, 1936, p. 855, figs. 9a-c, 10a, b ; 1939 ; 1957b : Shuto, 1953 : Yoshida, 1953b.
- Quinqueloculina bradyana* Cushman. Morishima, 1948b ; 1950 : Chiji and Lopez, 1968, p. 109, pl. 8, figs. 7a, b.
- Quinqueloculina candeiana* d'Orbigny. Chiji and Lopez, 1968, p. 110, pl. 8, figs. 8a, b.
- Quinqueloculina contorta* d'Orbigny. Hada, 1939 ; 1957b : Fukuta, 1951 : Shuto, 1953 : Takayanagi, 1953b ; 1955 : Higuchi, 1954 : Asano, 1956b, p. 58, pl. 7, fig. 12 : Ujiie, 1956a : Ishiwada, 1958 : Chiji and Lopez, 1968, p. 110, pl. 8, figs. 9a, b : Matoba, 1970, p. 59, pl. 2, figs. 6a, b ; 1975 ; 1976c : Ikeya, 1977 : Aoshima, 1978.
- Quinqueloculina contorta striata* Asano. Asano, 1937b ; 1939.
- Quinqueloculina costata* d'Orbigny. Asano, 1937a ; 1956b, p. 58-59, pl. 7, fig. 14 : Hada, 1939 : Fukuta, 1951 : Shuto, 1953 : Iwasa, 1954 : Ishiwada, 1958 : Sawai, 1958 : Uchio, 1962a : Matoba, 1970, p. 59, pl. 2, figs. 4a, b : Ikeya, 1977 : Aoshima, 1978.
- Quinqueloculina crassa* d'Orbigny. Chiji and Lopez, 1968.
- Quinqueloculina crassa subcuneata* Cushman. Uchio, 1952a ; 1968 : Aoki, 1967.
- Quinqueloculina cultrata* (Brady). Shuto, 1965. [**Miliolina*].
- Quinqueloculina curta* Cushman. Hada, 1929 ; 1931, p. 80-81, text-figs. 33a-c ; 1939 : Asano, 1937a, pl. 15, figs. 1a-c ; 1938, p. 1257-1258 ; 1939 ; 1956b, p. 59, pl. 7, fig. 13 : Fukuta, 1951 : Morishima, 1955 : Aoki, 1967 : Ujiie and Kusukawa, 1969. (= *Quinqueloculina disparilis* d'Orbigny var. *curta* Cushman).
- Quinqueloculina* cf. *curta* Cushman. Matoba, 1970, p. 59, pl. 2, figs. 3a, b.
- Quinqueloculina dainitiensis* Asano. Higuchi, 1954.
- Quinqueloculina* cf. *depressa* d'Orbigny. Asano, 1956b, p. 64, pl. 7, fig. 15.
- Quinqueloculina disparilis* d'Orbigny var. *curta* Cushman. Hanzawa, 1928.
- Quinqueloculina elongata* Natland. Shuto, 1953 ; 1965 Iwasa, 1954 : Higuchi, 1954 : Takayanagi, 1955 : Sawai, 1955 ; 1958 : Chiji and Lopez, 1968, p. 110, pl. 8, fig. 10 : Matoba, 1970, p. 59, pl. 2, figs. 8a, b ; 1975 ; 1976c : Tai, 1971 : Ikeya, 1970 ; 1977 : Aoshima, 1978 : Kato, 1979.

- Quinqueloculina ferussacii* d'Orbigny. Asano, 1956b, p. 60, pl. 8, fig. 15.
- Quinqueloculina fukushimaensis* Takayanagi, 1955 (n. sp.), p. 51, figs. 26a-c: Kuwano, 1962, pl. 21, fig. 4; 1963: Matoba, 1970, p. 59, pl. 2, figs. 9a, b; 1975; 1976c.
- Quinqueloculina granulocostata* Germeraad. Uchio, 1968.
- Quinqueloculina granulosa* Natland. Chiji and Lopez, 1968, p. 110, pl. 8, figs. 11a, b.
- Quinqueloculina hasimotoi* Asano. Shuto, 1953: Takayanagi, 1955: Kato, 1979.
- Quinqueloculina kuromatsunaiensis* Asano. Matoba, 1975; 1976c Kato, 1979.
- Quinqueloculina laevigata* d'Orbigny. Chiji and Lopez, 1968, p. 110, pl. 8, figs. 12a, b, 13a, b.
- Quinqueloculina lamarckiana* d'Orbigny, Hada, 1931, p. 79-80, text-figs. 32a-c: Asano, 1937a, b; 1938; 1939; 1956b, p. 60-61, pl. 7, fig. 17, pl. 8, figs. 14, 17, pl. 9, fig. 17: Oinomikado and Stach, 1948: Morishima, 1948b; 1950; 1955: Shuto, 1953; 1965: Takayanagi, 1953b: Nagahama, 1954: Higuchi, 1954: Sawai, 1958: Harrington, 1960: Aoki, 1967: Uchio, 1968: Chiji and Lopez, 1968, p. 110, pl. 8, figs. 14a, b: Ujiié and Kusukawa, 1969: Tai, 1971: Ikeya, 1977: Aoshima, 1978.
- Quinqueloculina* cf. *lamarckiana* d'Orbigny. Matoba, 1970, p. 59, pl. 2, figs. 7a, b.
- Quinqueloculina* cf. *lata* Terquem. Chiji and Lopez, 1968, p. 110, pl. 9, figs. 1a, b.
- Quinqueloculina limbata* d'Orbigny. Chiji and Lopez, 1968, p. 110, pl. 9, figs. 2a, b.
- Quinqueloculina lutea* (d'Orbigny). Hada, 1936. [**Triloculina*].
- Quinqueloculina parkeri* (Brady). Oinomikado and Stach, 1948: Morishima, 1948b; 1950; 1955: Uchio, 1952; 1962a; 1968: Shuto, 1953; 1965: Chiji and Lopez, 1969, p. 110, pl. 9, figs. 4a, b: Kato, 1979. [**Miliolina*].
- Quinqueloculina poeyana* d'Orbigny. Hada, 1957b: Chiji and Lopez, 1968, p. 110, pl. 9, figs. 3a, b.
- Quinqueloculina polygona* d'Orbigny. Asano, 1937a, pl. 15, figs. 4a, b; 1938: Takayanagi, 1953b; 1955: Higuchi, 1954: Morishima, 1955: Shuto, 1953; 1965: Harrington, 1960: Aoki, 1967: Chiji and Lopez, 1968.
- Quinqueloculina pygmaea* Reuss. Hada, 1931, p. 77-78, text-figs. 30a, b; 1937; 1957b: Oinomikado and Stach, 1948: Fukuta, 1951.
- Quinqueloculina rhodiensis* Parker. Matoba, 1970, p. 59, pl. 2, figs. 11a, b: Ikeya, 1977.
- Quinqueloculina reticulata* (d'Orbigny). Hanzawa, 1928: Chiji and Lopez, 1968, p. 110, pl. 9, figs. 5a-c. [**Triloculina*].
- Quinqueloculina rugosa* d'Orbigny. Hada, 1929: Oinomikado and Stach, 1948.
- Quinqueloculina sagamiensis* Asano. Asano, 1956b, p. 61, pl. 7, fig. 16.
- Quinqueloculina sawanensis* Asano. Shuto, 1953: Takayanagi, 1953a, b; 1955: Higuchi, 1954: Aoki, 1967.
- Quinqueloculina seminula* (Linné). Yabe and Hanzawa, 1925: Hanzawa, 1928; 1934: Hada, 1929; 1931, p. 76, text-fig. 28; 1936; 1937; 1939; 1956b: Asano, 1937a, pl. 15, figs. 2a-c; 1938; 1939; 1956b, p. 61-62, pl. 8, fig. 9, pl. 9, fig. 14: Morishima, 1947; 1948a; 1955: Oinomikado and Stach, 1948: Nagahama, 1951: Fukuta, 1951: Takayanagi, 1953a, b; 1955, p. 41, pl. 1, figs. 11a, b: Nakaseko, 1953: Shuto, 1953; 1965: Yoshida, 1954: Iwasa, 1954: Sawai, 1955; 1958: Ishiwada, 1958; 1964: Harrington, 1960: Aoki, 1967: Chiji and Lopez, 1968, p. 110, pl. 9, figs. 6a, b: Ujiié and Kusukawa, 1969: Chiji and Konda, 1970: Matoba, 1970, p. 59, pl. 2, figs. 10a, b; 1975; 1976a, c: Ikeya, 1970; 1977: Tai, 1971: Aoshima, 1978: Kato, 1979. [**Serpula*].
- Quinqueloculina semireticulosa* Cushman. Hada, 1939.
- Quinqueloculina stalkerii* Loeblich and Tappan. Iwasa, 1954.

- Quinqueloculina subagglutinata* Asano. Asano, 1956b, p. 62-63, pl. 8, fig. 12: Chiji and Lopez, 1968, p. 110, pl. 9, figs. 8a-c: Chiji and Konda, 1970: Kato, 1979.
- Quinqueloculina subarenaria* Cushman. Fukuta, 1951: Shuto, 1953: Asano, 1956b, p. 63, pl. 7, fig. 19: Kuwano, 1962, pl. 21, fig. 5; 1963: Uchio, 1962a; 1968.
- Quinqueloculina subquadra* Hada, 1931 (n. sp.), p. 78-79, text-fig. 31a-c.
- Quinqueloculina subrotunda* (Montagu). Takayanagi, 1955, p. 41, pl. 1, figs. 12a-c: Ishiwada, 1958. [**Vermiculum*].
- Quinqueloculina sulcata* d'Orbigny. Uchio, 1952: Chiji and Lopez, 1968, p. 110, pl. 9, figs. 7a, b.
- Quinqueloculina tropicalis* Cushman. Hanzawa, 1948.
- Quinqueloculina venusta* Karrer. Hanzawa, 1928; 1934: Ishiwada, 1950.
- Quinqueloculina vulgaris* d'Orbigny. Hada, 1929; 1931, p. 76-77, text-figs. 29a-c: Asano, 1937a, b; 1938; 1939; 1956b, p. 63-64, pl. 8, fig. 10, pl. 9, fig. 13: Morishima, 1947; 1948b; 1950; 1955: Oinomikado and Stach, 1948: Fukuta, 1951: Nakaseko, 1953: Shuto, 1953; 1965: Takayanagi, 1953a: Kuwano, 1953: Higuchi, 1954: Sawai, 1955; 1958: Harrington, 1960: Chiji and Lopez, 1968, p. 111, pl. 9, figs. 9a-c: Matoba, 1970, p. 59-60, pl. 2, figs. 5a, b; 1975; 1976a, c: Chiji and Konda, 1970: Tai, 1971: Ikeya, 1971b; 1977: Aoshima, 1978: Kato, 1979.
- Quinqueloculina yabei* Asano, 1936b, p. 942, pl. 51(17), figs. 1a-c; 1937a, b; 1938, p. 1258: Oinomikado and Stach, 1948: Takayanagi, 1955: Uchio, 1968: Matoba, 1970, p. 60.
- Quinqueloculina yezoensis* Asano. Higuchi, 1954: Kato, 1979.
- Quinqueloculina* sp. Asano, 1956b, p. 65, pl. 7, fig. 18.
- Quinqueloculina* sp. Asano. 1956b, p. 65, pl. 8, fig. 13.
- Quinqueloculina* sp. 4. Matoba, 1970, p. 60, pl. 2, figs. 12a, b.
- Quinqueloculina* sp. 5. Matoba, 1970, p. 60, pl. 2, figs. 13a, b.
- Quinqueloculina* sp. 6. Matoba, 1970, p. 60, pl. 2, figs. 14a, b.
- Ramulina globulifera* Brady. Asano, 1937b.
- Rectobolivina bifrons* (Brady). Nagahama, 1954: Ishiwada, 1958, p. 28-29, pl. 5, figs. 10, 11; 1964, pl. 4, fig. 68: Kuwano, 1962, pl. 21, fig. 6; 1963: Aoshima, 1978: Kato, 1979. [**Sagrina*, *Siphogenerina*].
- Rectobolivina bifrons striatula* (Cushman). Shuto, 1953; 1965: Asano, 1958, p. 29-30, pl. 5, figs. 12, 13. (= *Siphogenerina bifrons* (Brady) var. *striatula* Cushman).
- Rectobolivina columellaris* (Brady). Hasegawa, 1979. [**Sagrina*, *Siphogenerina*].
- Rectobolivina columellaris costulata* (Ishiwada). Aoshima, 1978. [**Siphogenerina*].
- Rectobolivina raphana* (Parker and Jones). Uchio, 1968: Matoba, 1970, p. 60, pl. 3, fig. 31; 1975; 1976a, c: Chiji and Konda, 1970: Matoba and Nakagawa, 1972: Aoshima, 1978: Hasegawa, 1979. [**Uvigerina* (*Sagrina*), *Siphogenerina*].
- Recurvoides bosoensis* Kuwano, 1962 (n. sp.), pl. 21, fig. 7; 1963. (*nom. nud.*).
- Recurvoides turbinatus* (Brady). Hada, 1957b: Chiji and Konda, 1970, pl. 7, figs. 10a, b: Ikeya, 1970; 1971b: Matoba and Nakagawa, 1972: Matoba, 1975; 1976a, b, c. [**Haplophragmium*].
- Reophax advenus* Cushman. Hada, 1957b.
- Reophax agglutinatus* Cushman. Hada, 1957b.
- Reophax arcticus* Brady. Hada, 1957b.
- Reophax atlantica* Cushman. Chiji and Konda, 1970, pl. 7, fig. 5.
- Reophax bacillaris* Brady. Chiji and Lopez, 1968.

- Reophax bilocularis* Flint. Hada, 1931, p. 57-58, text-fig. 9; 1957b: Asano, 1939: Oniomikado and Stach, 1948: Morishima, 1955.
- Reophax communis* Lacroix. Hada, 1957b: Uchio, 1959: Matoba, 1976a.
- Reophax concentricus* Cushman. Morishima, 1948b; 1950.
- Reophax curtus* Cushman. Hada, 1931, p. 57, text-fig. 8: Asano, 1937b; 1938; 1939: Kuwano, 1951: Takayanagi, 1953b: Morishima, 1955: Shuto, 1965: Ujiié and Kusukawa, 1969: Chiji and Konda, 1970, pl. 7, fig. 4: Ikeya, 1970; 1971b.
- Reophax cylindricus* Brady. Hada, 1957b.
- Reophax delicatus* Hada, 1957b. (n. sp.), p. 30, figs. 9a, b.
- Reophax dentaliniformis* Brady. Hanzawa, 1928: Hada, 1931, p. 59-60, text-fig. 11; 1957b: Ujiié and Kusukawa, 1969: Ikeya, 1970: Chiji and Konda, 1970: Matoba, 1975; 1976a, c: Aoshima, 1978. [**Lituola* (*Reophax*)].
- Reophax diffugiformis* Brady. Kuwano, 1962, pl. 21, figs. 8, 9: Aoshima, 1978. [*Lagenamina*, *Proteonina*].
- Reophax distance* (Brady). Hanzawa, 1928. [**Lituola* (*Reophax*)].
- Reophax enormis* Hada, 1929 (n. sp.), p. 10, text-figs. a-d; 1931, p. 60-61, text-figs. 12a-c; 1957b.
- Reophax eoconica* (Cushman). Ikeya, 1977. [**Proteonina*].
- Reophax excentricus* Cushman. Hada, 1931, p. 58-59, text-fig. 1957b: Morishima, 1955: Chiji and Konda, 1970, pl. 7, fig. 3: Matoba, 1976a.
- Reophax fusiformis* (Williamson). Shuto, 1965: Chiji and Lopez, 1968: Ujiié and Kusukawa, 1969: Chiji and Konda, 1970: Aoshima, 1978. [**Proteonina*].
- Reophax gracilis* (Kiaer). Hada, 1931, p. 61, text-fig. 13; 1957b: Uchio, 1962b: Chiji and Lopez, 1968, p. 111, pl. 6, fig. 1: Ujiié and Kusukawa, 1969: Matoba, 1970, p. 60, pl. 1, fig. 3; 1975; 1976a, c: Ikeya, 1970; 1977. [**Nodulina*].
- Reophax guttifer* (Brady). Matoba, 1975; 1976a, c. [**Lituola* (*Reophax*)].
- Reophax nana* Rhumbler. Matoba, 1970, p. 60, pl. 1, fig. 1: Ikeya, 1977.
- Reophax nodulosa* Brady. Hanzawa, 1928: Morishima, 1955.
- Reophax nodulosus* Brady var. *minor* Hada, 1957a (n. var.), p. 27, fig. 6; 1957b.
- Reophax obliquus* Hada, 1957a (n. sp.), p. 29-30, figs. 8a-c; 1957b.
- Reophax pacificus* Hada, 1957a (n. sp.), p. 28-29, fig. 7; 1957b.
- Reophax palaoensis* Hada, 1957a (n. sp.), p. 26, fig. 4.
- Reophax paucus* Hada, 1957a (n. sp.), p. 25, fig. 3; 1957b.
- Reophax pilulifer* Brady. Hanzawa, 1928: Hada, 1931, p. 56, text-fig. 7; 1957b: Asano, 1939: Chiji and Konda, 1970, pl. 7, figs. 1a, b: Matoba, 1976a, c.
- Reophax pilulifer* Brady var. Kuwano, 1962, pl. 22, figs. 1-3.
- Reophax scorpiurus* Montfort. Hada, 1931, p. 55-56, text-fig. 6; 1957b: Hanzawa, 1934: Asano, 1938; 1939: Ishiwada, 1950: Kuwano, 1953: Sawai, 1958: Uchio, 1959; 1962b; 1968: Chiji and Konda, 1970, pl. 7, fig. 2: Ikeya, 1970; 1971b: Matoba, 1975; 1976c: Aoshima, 1978.
- Reophax scotti* Chaster. Uchio, 1962a: Matoba, 1970, p. 60, pl. 1, fig. 3; 1976a.
- Reophax spiculotestus* Cushman. Hada, 1957b.
- Reophax validus* Hada, 1957a (n. sp.), p. 26-27, fig. 5; 1957b.
- Reophax* sp. Kuwano, 1962, pl. 21, figs. 10, 11.
- Reussella aculeata* Cushman. Shuto, 1953; 1965: Takayanagi, 1953b; 1955: Iwasa, 1954: Nagahama, 1954: Asano, 1958, p. 16, pl. 1, figs. 16a, b, 17a, b: Sawai, 1958: Uchio,

- 1962a, b: Ishiwada, 1964, pl. 4, fig. 69: Chiji and Lopez, 1968, p. 111, pl. 10, fig. 19: Ujiié and Kusukawa, 1969: Aoshima, 1978: Kato, 1979.
- Reussella aequa* Cushman and McCulloch. Takayanagi, 1955.
- Reussella haizumensis* Asano. Higuchi, 1954: Asano, 1958, p. 17, pl. 1, figs. 12a, b: Matoba, 1975; 1976c.
- Reussella pacifica* Cushman and McCulloch. Shuto, 1953: Takayanagi, 1953b: Matoba, 1970, p. 60, pl. 3, figs. 33a, b; 1975; 1976a, c: Matoba and Nakagawa, 1972: Ikeya, 1977.
- Reussella simplex* Cushman. Uchio, 1962a, 1968: Aoki, 1967: Chiji and Lopez, 1968: Aoshima, 1978.
- Reussella spinulosa* (Reuss). Asano, 1937a, pl. 16, fig. 3; 1937b; 1938; 1939: Hada, 1939: Oinomikado and Stach, 1948: Ishiwada, 1950: Uchio, 1962, p. 153: Harrington, 1960: Ujiié and Kusukawa, 1969: Matoba, 1975; 1976c. [**Verneuilina*, *Reussia*].
- Reussella* sp. Asano, 1958, p. 17, pl. 1, fig. 19.
- Reussia spinulosa* (Reuss). Hada, 1931, p. 133-134, text-fig. 90. [**Verneuilina*, *Reussella*].
- Rhabdammina abyssorum* Sars. Hanzawa, 1928: Hada, 1957b: Aoshima, 1978.
- Rhabdammina linearis* Brady. Hanzawa, 1928: Chiji and Konda, 1970.
- Rhizammina indivisa* Brady. Hanzawa, 1928: Hada, 1957b: Aoshima, 1978.
- Roberina murotoensis* Brady. Asano, 1958 (n. sp.), p. 13-14, pl. 3, figs. 9a, b, 13a, b.
- Robertinoides charlottensis* (Cushman). Ikeya, 1971b. [**Cassidulina*].
- Robertinoides murotoensis* (Asano). Uchio, 1968. [**Robertina*].
- Robulus calcar* (Linné). Asano, 1937b; 1938: Morishima, 1955: Sawai, 1958: Kuwano, 1962, pl. 22, fig. 4: Uchio, 1968. [**Nautilus*, *Cristellaria*, *Lenticulina*].
- Robulus* cf. *calcar* (Linné). 1956a, p. 46-47, pl. 1, fig. 5.
- Robulus* cf. *chitani* Yabe and Asano. Asano, 1956a, p. 51-52, pl. 2, fig. 3, pl. 3, fig. 11.
- Robulus costatus* (Fichtel and Moll). Sawai, 1958. [**Nautilus*].
- Robulus costatus multicostus* (Cushman). Ishiwada, 1964, pl. 2, fig. 22. [**Cristellaria*].
- Robulus costatus subdecoratus* (Cushman). Ishiwada, 1964, pl. 2, fig. 23. [**Cristellaria*].
- Robulus depressus* Asano. Asano, 1956a, p. 50, pl. 1, figs. 12-14, pl. 2, figs. 1, 2, pl. 6, figs. 34, 36.
- Robulus echinata* d'Orbigny. Sawai, 1958.
- Robulus gibbus* (d'Orbigny). Asano, 1937b; 1939. [**Cristellaria*].
- Robulus iotus* (Cushman). Nakaseko, 1953. [**Cristellaria*].
- Robulus limbosus* (Reuss). Asano, 1937b; 1939: Fukuta, 1951: Harrington, 1960. [**Cristellaria* (*Robulina*), *Lenticulina*].
- Robulus lucidus* (Cushman). Takayanagi, 1955: Asano, 1956a, p. 48-49, pl. 1, figs. 15-18, pl. 2, figs. 5, 6, 10: Sawai, 1958: Ishiwada, 1964, pl. 2, fig. 24. [**Cristellaria*, *Lenticulina*].
- Robulus orbicularis* (d'Orbigny). Asano, 1937b; 1939; 1956a, p. 49-50, pl. 1, figs. 19-21: Sawai, 1958. [**Robulina*, *Cristellaria*, *Lenticulina*].
- Robulus reniformis* (d'Orbigny). Asano, 1939; 1956a, p. 46, pl. 1, figs. 6-8. [**Cristellaria*].
- Robulus sagamiensis* Asano. Asano, 1956a, p. 47-48, pl. 1, figs. 9-11. [*Lenticulina*].
- Robulus orbicularis subumbonatus* (Cushman). Asano, 1956a, p. 51, pl. 3, fig. 10. [**Cristellaria*].
- Robulus pseudorotulatus* Asano. Asano, 1939; 1956a, p. 50, pl. 2, figs. 8, 9, pl. 6, figs. 37, 39, 40, 43: Sawai, 1958: Ishiwada, 1964, pl. 2, fig. 25.
- Robulus submamilligerus* (Cushman). Asano, 1956a, p. 50-51, pl. 2, figs. 1, 2, pl. 6, figs.

- 31-33, 35, 38, 42: Ishiwada, 1964, pl. 2, fig. 26. [**Cristellaria*].
- Robulus* sp. Asano, 1956a, p. 52, pl. 3, fig. 16.
- Robulus* sp. Asano, 1956a, p. 52, pl. 2, fig. 7.
- Robulus* sp. Asano, 1956a, p. 52, pl. 3, fig. 3.
- Robulus* sp. Asano, 1956a, p. 52, pl. 2, fig. 4.
- Rosalina araucana* (d'Orbigny). Inoue, 1980.
- Rosalina australis* (Parr). Aoki, 1967: Matoba, 1970, p. 60, pl. 4, figs. 7a-c; 1975; 1976c: Kato, 1979. [**Discorbis*, *Discopulvinulina*].
- Rosalina bradyi* (Cushman). Uchio, 1962b: Aoki, 1967: Chiji and Lopez, 1968: Ujiié and Kusukawa, 1969: Matoba, 1970, p. 60, pl. 4, figs. 8a-c; 1975; 1976a, c: Ikeya, 1977: Aoshima, 1978: Kato, 1979. (= *Discorbis globularis* var. *bradyi* Cushman). [*Discopulvinulina*, *Discorbinella*].
- Rosalina columbiensis* (Cushman). Matoba, 1970, p. 60, pl. 4, figs. 9a-c; 1975; 1976c: Ikeya, 1970; 1977: Aoshima, 1978. [**Discorbis*].
- Rosalina concinna* (Brady). Aoki, 1967: Chiji and Lopez, 1968, p. 111, pl. 11, figs. 3a, b: Kato, 1979. [**Discorbina*, *Discorbinella*, *Discorbis*].
- Rosalina floridana* (Cushman). Chiji and Lopez, 1968, p. 111, pl. 11, figs. 5a, b. [**Discorbis*].
- Rosalina globularis* d'Orbigny. Uchio, 1968: Chiji and Lopez, 1968, p. 111, pl. 11, figs. 2a, b: Matoba, 1970, p. 61, pl. 4, figs. 10a-c; 1975; 1976c: Ikeya, 1977. [*Discorbis*].
- Rosalina micens* (Cushman). Chiji and Lopez, 1968: Ujiié and Kusukawa, 1969. [**Discorbis*].
- Rosalina rugosa* d'Orbigny. Chiji and Lopez, 1968, p. 111, pl. 11, figs. 4a, b.
- Rosalina stachi* Asano. Kato, 1979. [*Discopulvinulina*, *Neoconorbina*].
- Rosalina subbertheloti* (Cushman). Chiji and Lopez, 1968, p. 111, pl. 11, fig. 7. [**Discorbis*].
- Rosalina vilardeboana* d'Orbigny. Uchio, 1962a, b: Ishiwada, 1964, pl. 5, figs. 84a, b: Chiji and Lopez, 1968, p. 111, pl. 11, figs. 6a, b: Matoba, 1970, p. 61, pl. 4, figs. 11a-c; 1975; 1976a, b, c: Chiji and Konda, 1970: Ikeya, 1977: Aoshima, 1978: Inoue, 1980. [*Discorbis*].
- Rosalina williamsonii* (Chapman and Parr). Aoki, 1967. [**Discorbis*].
- Rotalia asanoi* Uchio. Uchio, 1952. (= *Rotalia beccarii asanoi* Uchio).
- Rotalia auriculus* (Fichtel and Moll). Sawai, 1958. [**Nautilus*].
- Rotalia beccarii* (Linné). Hada, 1929; 1936, p. 853, fig. 8; 1937; 1939; 1955, p. 4-6; 1957b: Asano, 1937a, b; 1938: Oinomikado and Stach, 1948: Maruhasi, 1948: Morishima, 1948a, b; 1950; 1955: Fukuta, 1951: Nagahama, 1951: Nakaseko, 1953: Shuto, 1953: Yoshida, 1953b; 1954: Sawai, 1955; 1958: Matsuda, 1957. [**Nautilus*, *Ammonia*, *Streblus*].
- Rotalia* cf. *beccarii* (Linné). Morishima and Chiji, 1952, pl. 2, figs. 5a, b.
- Rotalia beccarii aomoriensis* Asano. Ishiwada, 1958, pl. 2, figs. 9-11. [*Ammonia*].
- Rotalia beccarii* (Linné) var. A. Ishiwada, 1958, pl. 2, figs. 1-8.
- Rotalia beccarii* (Linné) forma A. Takayanagi, 1955, p. 44-45, figs. 30a-c, 31a-c.
- Rotalia beccarii* (Linné) forma B. Takayanagi, 1955, p. 45, figs. 32a-c, 33a-c.
- Rotalia beccariformis* White. Nagahama, 1951.
- Rotalia broeckhiana* Karrer. Yabe and Hanzawa, 1925: Hada, 1929.
- Rotalia calcar* (d'Orbigny). Hada, 1929; 1937. [**Calcarina*].
- Rotalia inflata* (Seguenza). Takayanagi, 1955, pl. 2, figs. 18a-c. [**Rosalina*, *Ammonia*].
- Rotalia japonica* Hada, 1931 (n. sp.), p. 137-138, text-figs. 93a-c; 1936; 1938; 1939: Asano, 1937a; 1938: Oinomikado and Stach, 1948: Morishima, 1947; 1948a; 1955: Mori-

- shima and Chiji, 1952, pl. 1, figs. 9a-c; Iwasa, 1954; Higuchi, 1954; Takayanagi, 1953a, b; 1955; Shuto, 1953; 1965. [*Ammonia, Streblus*].
- Rotalia ketienziensis angulata* Kuwano. Takayanagi, 1953b. [*Ammonia, Streblus*].
- Rotalia ? minuta* Takayanagi, 1955 (n. sp.), p. 52, figs. 29a-c. [*Pararotalia*].
- Rotalia nipponica* Asano. Asano, 1937a; Oinomikado and Stach, 1948; Fukuta, 1951; Morishima and Chiji, 1952; Shuto, 1953; 1965; Ishiwada, 1954; Higuchi, 1954; Nagahama, 1954; Takayanagi, 1955, p. 45, pl. 2, figs. 14a-c; Morishima, 1955; Ujiié, 1956a. [*Pararotalia*].
- Rotalia ozawai* Asano. Nakaseko, 1953; Takayanagi, 1955, p. 45, pl. 2, figs. 17a, b. [*Ammonia, Pararotalia, Streblus*].
- Rotalia papillosa* Brady. Ikari, 1927, p. 6, pl. 2, figs. 14a, b; Hada, 1931, p. 136; Hanzawa, 1934; Asano, 1937a; 1938, p. 1259; Morishima, 1947; 1948b; 1950; 1955; Oinomikado and Stach, 1948; Nakaseko, 1953; Shuto, 1953; Sawai, 1955; 1958; Matsuda, 1957; Ishiwada, 1958. [*Ammonia, Streblus*].
- Rotalia papillosa compressiuscula* Brady. Asano, 1937b.
- Rotalia papillosa* Brady var. *compressiuscula* Brady. Hada, 1931, p. 136-137, text-figs. 92a-c.
- Rotalia rosea* d'Orbigny. Morishima, 1948b; 1950.
- Rotalia soldanii* (d'Orbigny). Yabe and Hanzawa, 1925; Hanzawa, 1928. [**Gyroidina, Gyroidinoides*].
- Rotalia subornata* (Cushman). Shuto, 1965.
- Rotalia takanabensis* (Ishizaki). Takayanagi, 1953b; Kuwano, 1955. [**Streblus, Ammonia*].
- Rotalidium pacificum* Asano, 1936a (n. sp.), p. 350-351, figs. 1-3.
- Rotorbinnella mira* (Cushman). Uchio, 1968. [**Discorbis*].
- Rugidia corticata* Heron-Allen and Earland. Aoki, 1967.
- Rupertina stabilis* Wallich. Fukuta, 1951.
- Saccammina longicollis* (Wiesner). Ujiié and Kusukawa, 1969; Aoshima, 1978. [**Proteonina*].
- Saccammina minuta* Rhumbler. Hada, 1957b.
- Saccammina sphaerica* Brady. Hada, 1929; 1957b; Ujiié and Kusukawa, 1969; Ikeya, 1970; Chiji and Konda, 1970.
- Saccorhiza ramosa* (Brady). Hanzawa, 1928. [**Hyperammina*].
- Sagrina raphana* (Parker and Jones). Ikari, 1927, p. 5, pl. 2, figs. 5a, b. [**Uvigerina (Sagrina), Rectobolivina*].
- Saracenaria angularis* Natland. Asano, 1956a, p. 7-8, pl. 3, figs. 20, 21; Uchio, 1968; Aoshima, 1978.
- Saracenaria italica* Defrance. Asano, 1939.
- Saracenaria latifrons* (Brady). Asano, 1956a, p. 8, pl. 3, fig. 19; Aoshima, 1978. [**Cristellaria*].
- Schlumbergerina alveoliniformis* (Millett). Hanzawa, 1948; Sawai, 1958; Chiji and Lopez, 1968. [**Massilina*].
- Scutuloris tegminis* Loeblich and Tappan. Ikeya, 1970.
- Scutuloris* sp. A. Chiji and Lopez, 1968, p. 111, pl. 10, figs. 6a-c, 7a-c.
- Sigmavirgulina tortuosa* (Brady). Uchio, 1962a; Chiji and Lopez, 1968, p. 111, pl. 15, fig. 1. [**Bolivina*].
- Sigmoidella kagaensis* Cushman and Ozawa. Hada, 1931, p. 116, text-figs. 75a, b; Asano,

- 1937a, pl. 16, fig. 1; 1938: Oinomikado and Stach, 1948: Kuwano, 1953: Shuto, 1953; 1965: Takayanagi, 1953b: Morishima, 1955: Harrington, 1960: Aoki, 1967: Uchio, 1968: Ikeya, 1971b: Matoba, 1975; 1976c: Aoshima, 1978.
- Sigmoidella margaretae* Cushman and Ozawa. Ikeya, 1971b; 1977: Aoshima, 1978.
- Sigmoidella pacifica* Cushman and Ozawa. Chiji and Konda, 1970: Matoba, 1976a, c. [*Sigmoidella* (*Sigmoidina*), *Guttulina*].
- Sigmoilina arenaria* (Brady). Takayanagi, 1953b: Sawai, 1958. [**Spiroloculina*, *Massilina*, *Sigmoilopsis*].
- Sigmoilina australis* Parr. Ujiie and Kusukawa, 1969.
- Sigmoilina celata* Costa. Yabe and Hanzawa, 1925: Hanzawa, 1928.
- Sigmoilina schlumbergeri* Silvestri. Morishima, 1947; 1948a: Shuto, 1953; 1965: Takayanagi, 1953b; 1955, pl. 1, figs. 13a, b: Asano, 1956b, p. 70: Sawai, 1958: Tai, 1971: Kato, 1979. [*Sigmoilopsis*].
- Sigmoilina sigmoides* (Brady). Yabe and Hanzawa, 1925: Hanzawa, 1928. [**Planispirina*].
- Sigmoilina sigmoidea compressa* Cushman. Asano, 1956b, p. 70, pl. 7, fig. 20.
- Sigmoilina tenuis* (Czjzek). Takayanagi, 1953b. [**Quinqueloculina*].
- Sigmoilopsis arenaria* (Brady). Aoshima, 1978. [**Spiroloculina*, *Massilina*, *Sigmoilina*].
- Sigmoilopsis schlumbergeri* (Silvestri). Uchio, 1962a: Ishiwada, 1964, pl. 2, fig. 18: Chiji and Lopez, 1968, p. 111, pl. 7, fig. 9: Matoba, 1975; 1976c. [**Sigmoilina*].
- Sigmomorpha ozawai* Hada, 1931 (n. sp.), p. 115, text-figs. 73a, b. [*Sigmomorpha*].
- Sigmomorpha gallowayi* Cushman and Ozawa. Shuto, 1953: Ikeya, 1970; 1971.
- Sigmomorpha kotoi* Cushman and Ozawa. Shuto, 1965.
- Sigmomorpha ozawai* (Hada). Ujiie and Kusukawa, 1969: Ikeya, 1971b. [**Sigmomorpha*].
- Sigmomorpha trilocularis* (Bagg). Asano, 1937a. [**Polymorphina*].
- Sigmomorpha urasimaensis* Asano, 1939 (n. sp.). (*nom. nud.*)
- Sigmomorpha yokoyamai* (Cushman and Ozawa). Chiji and Konda, 1970. (= *Sigmomorpha* (*Sigmomorpha*) *yokoyamai* Cushman and Ozawa).
- Silicosigmoilina abyssalica* Inoue, 1980 (n. sp.), p. 257-258, pl. 26, figs. 7a, b, 11, 12, 14, 16, 19a, b, 20.
- Silicosigmoilina groenlandica* (Cushman). Ikeya, 1970. (= *Quinqueloculina fusca* Brady var. *groenlandica* Cushman).
- Siphogenerina bifrons* Brady. Yabe and Hanzawa, 1925: Hanzawa, 1928: Asano, 1937b. [**Sagrina*, *Rectobolivina*].
- Siphogenerina* (*Rectobolivina*) *bifrons* var. *striatula* Cushman. Hanzawa, 1928. [*Rectobolivina*].
- Siphogenerina columellaris* (Brady). Takayanagi, 1953b: Asano, 1958, p. 30, pl. 7, figs. 14, 15: Tai, 1971. [**Sagrina*, *Rectobolivina*].
- Siphogenerina columellaris costulata* Ishiwada, 1964 (n. subsp.), p. 41, pl. 5, fig. 82. [*Rectobolivina*].
- Siphogenerina costata* Schlumberger. Fukuta, 1951.
- Siphogenerina dimorpha* (Parker and Jones). Ishiwada, 1950. [**Uvigerina* (*Sagrina*)].
- Siphogenerina raphana* (Parker and Jones). Yabe and Hanzawa, 1925: Hanzawa, 1928; 1948: Hada, 1929; 1931, p. 134-135, text-figs. 91a, b: Asano, 1937a, b; 1938, p. 1258; 1939; 1958, p. 30-32, pl. 7, figs. 8-10: Oinomikado and Stach, 1948: Ishiwada, 1950; 1964, pl. 5, fig. 81: Uchio, 1952; 1962a, b: Shuto, 1953; 1965: Takayanagi, 1953b; 1955: Nagahama, 1954: Morishima, 1955: Matsuda, 1957: Sawai, 1958: Harrington,

- 1960: Kuwano, 1962, pl. 22, fig. 5: Aoki, 1967: Ujiié and Kusukawa, 1969: Tai, 1971: Ikeya, 1971b: Inoue, 1980. [**Uvigerina (Sagrina), Rectobolivina*].
- Siphogenerina raphana tropica* Cushman. Asano, 1958, p. 32, pl. 7, fig. 11.
- Siphogenerina semistriata* (Schubert). Asano, 1958, p. 32-33, pl. 7, figs. 12, 13. (= *Sagrina raphanus* var. *semistriata* Schubert).
- Siphogenerina striata* (Schwager). Asano, 1937b. [**Dimorphina*].
- Siphogenerina virgula* (Brady). Chiji and Lopez, 1968. [**Sagrina, Rectobolivina*].
- Siphonaperta macbeathi* Vella. Matoba, 1970, p. 61, pl. 2, figs. 19a, b.
- Siphonia reticulata* (Čížek). Yabe and Hanzawa, 1925. [**Rotalina*].
- Siphonina nipponica* Asano. Asano, 1939.
- Siphonina tubulosa* Cushman. Aoki, 1967.
- Siphoninoides echinatus* (Brady). Uchio, 1952; 1968: Morishima, 1955. [**Planorbulina*].
- Siphoninoides glabra* (Heron-Allen and Earland). Uchio, 1952; 1962a; 1968: Aoki, 1967. [**Truncatulina*].
- Siphotextularia saulcyana* (d'Orbigny). Chiji and Lopez, 1968: Ujiié and Kusukawa, 1969: Matoba, 1976a. [**Textularia, Textularia (Siphotextularia)*].
- Siphouwigerina interrupta* (Brady). Aoshima, 1978. [**Uvigerina*].
- Siphouwigerina porrecta* (Brady). Aoshima, 1978. [**Uvigerina, Neouwigerina*].
- Sorites duplex* (Carpenter). Hanzawa, 1928. [**Orbitolites*].
- Sorites marginalis* (Lamarck). Hanzawa, 1928; 1948: Asano, 1937b, p. 40: Uchio, 1968: Chiji and Lopez, 1968. [**Orbulites*].
- Sphaeroidina bulloides* d'Orbigny. Yabe and Hanzawa, 1925: Morishima, 1955: Matoba and Nakagawa, 1972: Matoba, 1976a, b: Aoshima, 1978: Inoue, 1980.
- Sphaeroidina* cf. *bulloides* d'Orbigny. Kuwano, 1962, pl. 22, fig. 6.
- Sphaeroidina* sp. A. Kuwano, 1962, pl. 22, fig. 7.
- Spirillina limbata* var. *denticulata* Brady. Uchio, 1952.
- Spirillina limbata papillosa* Cushman. Uchio, 1968.
- Spirillina tuberculata* Brady. Hanzawa, 1928. (= *Spirillina vivipara* Ehrenberg var. *tuberculata* Brady).
- Spirillina vivipara* Ehrenberg. Uchio, 1968.
- Spirillina* cf. *vivipara* Ehrenberg. Matoba, 1970, p. 61, pl. 5, figs. 7a-c.
- Spirillina vivipara densepunctata* Cushman. Uchio, 1968.
- Spirolina acicularis* (Batsch). Shuto, 1965. [**Nautilus (Lituus)*].
- Spirolina arietina* (Batsch). Uchio, 1968 [**Nautilus (Lituus)*],
- Spiroloculina acescata* Cushman. Nakaseko, 1953: Takayanagi, 1953b: Shuto, 1965: Tai, 1971: Kato, 1979. (= *Spiroloculina grateloupi* d'Orbigny var. *acescata* Cushman).
- Spiroloculina albatrosii* Cushman and Todd. Shuto, 1953: Sawai, 1955: Tai, 1971: Kato, 1979.
- Spiroloculina angulata* Cushman. Shuto, 1953: Higuchi, 1954: Asano, 1956b, p. 66-67, pl. 7, fig. 9. (= *Spiroloculina grata* Terquem var. *angulata* Cushman).
- Spiroloculina antillarum* d'Orbigny. Hanzawa, 1928: Asano, 1937b: Hada, 1937: Oinomi-kado and Stach, 1948: Uchio, 1952: Shuto, 1953; 1965: Harrington, 1960.
- Spiroloculina antillarum angulata* Cushman. Asano, 1937a.
- Spiroloculina arenaria* Brady. Hanzawa, 1928: Shuto, 1953. [*Massilina, Sigmoidilina, Sigmoidilopsis*].
- Spiroloculina asperla* Karrer. Hanzawa, 1928.

- Spiroloculina canaliculata* d'Orbigny. Asano, 1937b; 1939: Hanzawa, 1948: Shuto, 1953: Morishima, 1955.
- Spiroloculina communis* Cushman and Todd. Nakaseko, 1953: Takayanagi, 1953b; 1955: Iwasa 1954: Sawai, 1955; 1958: Asano, 1956b, p. 67-68, pl. 7, figs. 2, 3: Shuto, 1953; 1965: Aoki, 1967: Uchio, 1968: Tai, 1971: Aoshima, 1978: Kato, 1979.
- Spiroloculina communis incisa* Cushman. Morishima, 1955: Uchio, 1962a.
- Spiroloculina corrugata* Cushman and Todd. Takayanagi, 1953b: Uchio, 1962a; 1968: Aoki, 1967: Chiji and Lopez, 1968, p. 112,, pl. 7, fig. 7: Tai, 1971: Ikeya, 1971b.
- Spiroloculina costata* Hada, 1931 (n. sp.), p. 84-85, text-figs. 37a, b: Asano, 1937a.
- Spiroloculina cushmani* Hada, 1931 (n. sp.), p. 83-84, text-figs. 36a, b: Shuto, 1953: Takayanagi, 1953b: Tai, 1971: Kato, 1979.
- Spiroloculina cymbium* d'Orbigny. Chiji and Lopez, 1968. (= *Spiroloculina depressa* d'Orbigny var. *cymbium* d'Orbigny).
- Spiroloculina depressa* d'Orbigny. Hada, 1931, p. 82-83, text-figs. 35a, b; 1939: Asano, 1937a: Morishima, 1947, 1948a. b; 1950; 1955: Sawai, 1955.
- Spiroloculina disparilis* Terquem. Asano, 1956b, p. 66, pl. 7, fig. 7: Ikeya, 1971b.
- Spiroloculina elegans* Cushman. Asano, 1937b.
- Spiroloculina excavata* D'Orbigny. Shuto, 1965.
- Spiroloculina faveolata* Egger, Uchio, 1962a: Chiji and Lopez, 1968: Matoba, 1976c.
- Spiroloculina grata* Terquem. Hada, 1929: Shuto, 1953.
- Spiroloculina grateroupi* d'Orbigny. Asano, 1937a, pl. 15, figs. 6a-c; 1937b: Uchio, 1952: Shuto, 1953.
- Spiroloculina hadai* Thalmann. Oinomikado and Stach, 1948: Shuto, 1953: Asano, 1956b, p. 69, pl. 9, fig. 20: Uchio, 1962a; 1968: Matoba, 1975; 1976c: Kato, 1979.
- Spiroloculina laevigata* Cushman and Todd. Asano, 1956b, p. 69-70, pl. 7, fig. 6.
- Spiroloculina limbata* d'Orbigny. Hanzawa, 1928.
- Spiroloculina lucida* Cushman and Todd. Shuto, 1953: Asano, 1956b, p. 68-69, pl. 7, fig. 5: Chiji and Lopez, 1968: Ikeya, 1977: Kato, 1979.
- Spiroloculina manifesta* Cushman and Todd. Shuto, 1953; 1965: Takayanagi, 1953b; 1955: Asano, 1956b, p. 68, pl. 7, figs. 4, 8: Uchio, 1962a: Tai, 1971: Kato, 1979.
- Spiroloculina milletti* Wiesner. Hada, 1929. [*Massilina*].
- Spiroloculina nitida* d'Orbigny. Shuto, 1953.
- Spiroloculina nitida carinata* Brady. Iwasa, 1954.
- Spiroloculina planissima* (Lamarck). Asano, 1937a: Morishima, 1955. (= *Miliolites planulanulata* ver. *planissima* Lamarck).
- Spiroloculina planulata* (Lamarck). Asano, 1937a. [**Miliolites*].
- Spiroloculina scrobiculata* Cushman. Hada, 1939.
- Spiroloculina tenuimargo* Cushman. Asano, 1939. [*Spirophalmidium*].
- Spiroloculina validus* Cushman. Asano, 1937b.
- Spirophalmidium tenuimargo* (Cushman). Asano, 1956b, p. 82-83, pl. 7, fig. 10. [**Spiroloculina*].
- Spiroplectammina atrata* (Cushman). Uchio, 1968. (= *Textularia sagittula* Defrance var. *atrata* Cushman).
- Spiroplectammina bifrons* (Parker and Jones). Takayanagi, 1955, pl. 1, fig. 4: Chiji and Lopez, 1968, p. 112, pl. 6, fig. 5: Ikeya, 1970: Matoba, 1970, p. 61, pl. 1, figs. 10a, b; 1976a. (= *Textularia agglutinans* var. *bifrons* Parker and Jones). [*Spiroplectina*].

- Spiroplectammina higuchii* Takayanagi. Takayanagi, 1955 : Kuwano, 1963 : Ishiwada, 1964, pl. 1, fig. 8 : Aoki, 1967 : Matoba, 1975 ; 1976a, c.
- Spiroplectammina pseudocarinata* Cushman. Uchio, 1968.
- Spiroplectammina typica* Lacroix. Takayanagi, 1955 : Matoba, 1970, p. 61, pl. 1, figs. 11a, b ; 1976a.
- Spiroplectina bifrons* (Parker and Jones). Hada, 1929. (= *Textularia agglutinans* var. *bifrons* Parker and Jones). [*Spiroplectammina*].
- Sporadotrema cylindricum* (Carter). Hanzawa, 1948. [**Polytrema*].
- Stainforthia apertura* (Uchio). Matoba, 1976b. [**Virgulina*].
- Stainforthia concava* (Höglund). Hasegawa, 1979. [**Virgulina*].
- Stainforthia exilis tenuata* (Cushman). Inoue, 1981, pl. 27, fig. 11. [**Virgulina*].
- Streblus beccarii* (Linné). Shuto, 1965. [**Nautilus, Ammonia, Rotalia*].
- Streblus gaimardii* (d'Orbigny). Shuto, 1965. [**Rotalia (Turbinulina), Pseudorotalia*].
- Streblus japonicus* (Hada). Uchio 1959 : Ishiwada, 1964. [**Rotalia, Ammonia*].
- Streblus ketienziensis* Ishizaki. Ishiwada, 1950 ; 1964. [*Ammonia*].
- Streblus ketienziensis angulatus* (Kuwano). Kuwano, 1962, pl. 23, fig. 1 ; 1963 : Ishiwada, 1964, pl. 6, figs. 92a-c. [**Rotalia, Ammonia*].
- Streblus ketienziensis* var. A. Kuwano, 1962, pl. 23, fig. 2.
- Streblus ketienziensis* var. B. Kuwano, 1962, pl. 23, fig. 3.
- Streblus ozawai* (Asano). Shuto, 1965. [**Rotalia, Ammonia, Pararotalia*].
- Streblus papillosus* (Brady). Ishiwada, 1964. [**Rotalia, Ammonia*].
- Streblus takanabensis* Ishizaki. Kuwano, 1962, pl. 23, fig. 4 ; 1963 : Ishiwada, 1964, pl. 6, figs. 93a, b. [*Ammonia, Rotalia*].
- Technitella bradyi* Earland. Hada, 1957b.
- Technitella legumen* Norman. Hada, 1957b.
- Technitella raphana* Brady. Hada, 1957b.
- Textularia abbreviata* d'Orbigny. Asano, 1937b : 1950 : Shuto, 1953 : Takayanagi, 1953b ; 1955 : Sawai, 1958 : Tai, 1971.
- Textularia agglutinans* d'Orbigny. Yabe and Hanzawa, 1925 : Hanzawa, 1928 : Asano, 1937 a, b ; 1938 : Sawai, 1955 ; 1958 : Hada, 1957b : Ikeya, 1971b : Aoshima, 1978 : Kato, 1979.
- Textularia agglutinans fistula* Cushman. Uchio, 1952 ; 1968.
- Textularia andenensis* Asano. Sawai, 1955 ; 1958 : Aoshima, 1978.
- Textularia aokii* Asano. Aoshima, 1978.
- Textularia articulata* d'Orbigny. Shuto, 1953 ; 1965 : Takayanagi, 1953b : Nakaseko, 1953 : Chiji and Lopez, 1968, p. 112, pl. 6, figs. 12a, b : Tai, 1971 : Kato, 1979.
- Textularia aspra* Brady. Hada, 1957b.
- Textularia atrata* Cushman. Hada, 1957b.
- Textularia bigenerinoides* Lacroix. Kuwano, 1962, pl. 23, fig. 5 ; 1963.
- Textularia candeiana* d'Orbigny. Hada, 1931, p. 70, text-figs. 22a, b ; 1937 ; 1957b : Asano, 1938 : Shuto, 1953 ; 1965 : Sawai, 1958 : Chiji and Lopez, 1968, p. 112, pl. 6, figs. 11a, b : Matoba, 1970, p. 61, pl. 1, figs. 13a, b : Tai, 1971 : Kato, 1979.
- Textularia concava* (Karrer). Hada, 1957b. [**Plecanium*].
- Textularia conica* d'Orbigny. Hada, 1929 ; 1957b : Morishima, 1948b ; 1950 ; 1955 : Uchio, 1952 ; 1962a ; Takayanagi, 1953b : Nakaseko, 1953 : Shuto, 1953 ; 1965 : Higuchi, 1954 : Sawai, 1955 ; 1958 : Harrington, 1960 : Aoki, 1967 : Chiji and Lopez, 1968, p. 112, pl. 6, figs. 8a, b : Ujiie and Kusukawa, 1969 : Tai, 1971 : Matoba, 1975 ; 1976a, c : Aoshima,

- 1978: Kato, 1979.
- Textularia calva* Lalicker. Chiji and Lopez, 1968, p. 112, pl. 6, figs. 13a, b.
- Textularia corrugata* Heron-Allen and Earland. Hada, 1957b: Matoba, 1976c.
- Textularia crassisepta* Cushman. Hada, 1957b.
- Textularia crecentiformis* Cushman. Chiji and Lopez, 1968.
- Textularia crispata* Brady. Hada, 1957b.
- Textularia cuneata* Hada, 1931 (n. sp.), p. 71-72, text-figs. 24a, b; 1939; 1957b: Shuto, 1953.
- Textularia earlandi* Parker. Uchio, 1959; 1962a, b: Matoba, 1970, p. 61, pl. 1, fig. 12 (= *Textularia tenuissima* Earland); 1975; 1976a, b, c: Matoba and Nakagawa, 1972: Ikeya, 1970; 1977.
- Textularia* cf. *earlandi* Parker. Chiji and Lopez, 1968, p. 112, pl. 6, fig. 10.
- Textularia fistula* Cushman. Shuto, 1953; Sawai, 1958: Uchio, 1962a: Ikeya, 1970. (= *Textularia agglutinans* d'Orbigny var. *fistula* Cushman).
- Textularia foliacea* Heron-Allen and Earland. Takayanagi, 1953b: Morishima, 1955: Hada, 1957b: Uchio, 1968: Chiji and Lopez, 1968: Shuto, 1965: Aoshima, 1978: Kato, 1979.
- Textularia foliacea oceanica* Cushman. Shuto, 1953: Takayanagi, 1953b: Uchio, 1968: Tai, 1971: Kato, 1979.
- Textularia (Bolivinella) folium* Parker and Jones. Hanzawa, 1928.
- Textularia flinti* Cushman. Yabe and Hanzawa, 1925.
- Textularia goesii* Cushman. Hada, 1957b.
- Textularia gramen* d'Orbigny. Hanzawa, 1934; 1948: Asano, 1937a, b; 1938; 1939: Oinomikado and Stach, 1948: Morishima, 1948b; 1950; 1955: Fukuta, 1951: Ishiwada, 1954: Hada, 1957b: Sawai, 1958: Harrington, 1960.
- Textularia gramen* var. *multiaperturae* Hada, 1957b (n. sp.). (*nom. nud.*).
- Textularia hauerii* d'Orbigny. Hada, 1931, p. 71, text-figs. 23a, b; 1937; 1939; 1957b: Asano, 1937b: Morishima, 1947; 1948b; 1950; 1955: Hanzawa, 1948: Shuto, 1965.
- Textularia havevii* d'Orbigny. Asano, 1937b.
- Textularia heterostoma* Fornasini. Hada, 1957b.
- Textularia horrida* Egger. Hada, 1957b.
- Textularia kerimbaensis* Said. Uchio, 1962a; 1968: Chiji and Lopez, 1968, p. 112, pl. 6, figs. 9a, b.
- Textularia lythostrota* (Schwager). Shuto, 1965: Aoshima, 1978. [**Plecanium*].
- Textularia levis* Hada, 1957b (n. sp.). (*nom. nud.*).
- Textularia milletti* Cushman. Harrington, 1960.
- Textularia niinoi* Asano, 1939 (n. sp.). (*nom. nud.*).
- Textularia nipponica* Hada, 1957b (n. sp.). (*nom. nud.*).
- Textularia orbica* Lalicker and McCulloch. Chiji and Lopez, 1968.
- Textularia parvula* Cushman. Hada, 1931, p. 72-73, text-figs. 25a, b; 1957b: Asano, 1939: Oinomikado and Stach, 1948: Yoshida, 1954, p. 156, figs. 9a, b: Morishima, 1955: Ujiié and Kusukawa, 1969: Matoba, 1975; 1976a, c.
- Textularia* cf. *parvula* Cushman. Kuwano, 1962, pl. 23, figs. 6-7.
- Textularia porrecta* Brady. Hanzawa, 1928: Uchio, 1952.
- Textularia pseudogramen* Chapman and Parr. Chiji and Lopez, 1968, p. 112, pl. 6, fig. 7.
- Textularia pseudorugosa* Lacroix. Hada, 1957b.

- Textularia pseudotrocha* Cushman. Hada, 1957b.
Textularia pseudoturris Cushman. Hada, 1957b.
Textularia quadrilatera Schwager. Yabe and Hanzawa, 1925 : Hanzawa, 1928. [*Bolivinita*].
Textularia rugosa (Reuss). Hanzawa, 1928 : Hada, 1957b. [**Plecanium*].
Textularia sagittula Defrance. Hanzawa, 1928 ; 1948 : Asano, 1938 : Morishima, 1955.
Textularia sagittula atrata Cushman. Uchio, 1962a.
Textularia sagittula var. *fistulosa* Brady. Hanzawa, 1928 : Hada, 1957b.
Textularia sandiegoensis Uchio. Ikeya, 1971b.
Textularia satoi Uchio, 1962b (n. sp.), p. 385-386, pl. 18, figs. 1a, b, 2a, b : Matoba, 1975.
Textularia (*Siphotextularia*) *saucyana* d'Orbigny. Takayanagi, 1955 : Sawai, 1958.
Textularia schencki Cushman and Valentine. Hada, 1957b.
Textularia secasensis Lalicker and McCulloch. Takayanagi, 1953b : Nakaseko, 1953 : Shuto, 1953 ; 1965 : Higuchi, 1954 : Chiji and Lopez, 1968, p. 112, pl. 6, figs. 6a, b : Tai, 1971 : Kato, 1979.
Textularia semialata Cushman. Asano, 1939 : Higuchi, 1954 : Shuto, 1965 : Ikeya, 1970 ; 1971b : Matoba, 1975 ; 1976c.
Textularia siphonifera d'Orbigny. Hanzawa, 1928 : Shuto, 1953.
Textularia stricta Cushman. Hanzawa, 1948 : Hada, 1957b : Sawai, 1958.
Textularia subplana Cushman. Hada, 1957b.
Textularia tenuissima Earland. Kuwano, 1962, pl. 23, fig. 8.
Textularia torquata Hada, 1957b (n. sp.) : Ikeya, 1970 ; 1971b.
Textularia transversaria Brady. Shuto, 1965.
Textularia trochus d'Orbigny. Hanzawa, 1928 : Hada, 1957b : Shuto, 1953.
Textularia vertebralis Cushman. Hada, 1957b : Ishiwada, 1964, p. 34, pl. 1, fig. 9.
Textularia vola Lalicker and McCulloch. Chiji and Lopez, 1968.
Textularia wakasaensis Asano, 1939 (n. sp.). (*nom. nud.*).
Thalammamina parkerae (Uchio). Chiji and Konda, 1970 : Matoba and Nakagawa, 1972 : Matoba, 1975 ; 1976a, b : Inoue, 1980. [**Recurvoides*].
Tholosina vesicularis (Brady). Hada, 1957b. [**Placopsilina*].
Thurammina papillata Brady. Hanzawa, 1928 : Hada, 1957b.
Tiphotrocha kellestae (Thalman). Matoba, 1970, p. 61, pl. 1, figs. 19a-c ; 1976a : Ikeya, 1977. [**Trochammina*].
Tolypammina vagans Brady. Hanzawa, 1928.
Tosaia hanzawai Takayanagi. Aoshima, 1978.
Tretomphalus bulloides (d'Orbigny). Hanzawa, 1928 : Uchio, 1968.
“*Tretomphalus*” *planus* Cushman. Aoki, 1967.
Trifarina angulosa (Williamson). Chiji and Konda, 1970, pl. 9, fig. 7. [**Angulogerina*].
Trifarina bradyi Cushman. Yabe and Hanzawa, 1925 : Hanzawa, 1928 : Asano, 1937b ; 1958, p. 40-41, pl. 7, figs. 7, 8 : Kuwano, 1962 : Aoki, 1967 : Matoba, 1976a : Aoshima, 1978.
Trifarina hughesi (Galloway and Wissler). Ikeya, 1970. [**Uvigerina, Angulogerina*].
Trifarina kokozuraensis (Asano). Ikeya, 1970 ; 1971b : Aoshima, 1978 : Hasegawa, 1979 : Inoue, 1980, pl. 26, figs. 15a, b, pl. 27, fig. 17. [**Angulogerina*].
Triloculina affinis d'Orbigny. Uchio, 1968 : Chiji and Lopez, 1968, p. 112, pl. 7, figs. 10a, b.
Triloculina bertheliniana (Brady). Uchio, 1950 ; 1962a, 1968 : Shuto, 1953 : Chiji and Lopez, 1968. [**Miliolina*].

- Triloculina brevidentata* Cushman. Matoba, 1970, p. 61.
- Triloculina circularis* Bornemann. Hanzawa, 1928; 1948: Hada, 1931, p. 87, text-figs. 40 a-c; 1937; 1939: Asano, 1937a; 1938; 1939: Shuto, 1953: Morishima, 1955. [*Miliolinella*].
- Triloculina circularis sublineata* (Brady). Asano, 1939. [**Miliolina, Miliolinella*].
- Triloculina circularis* Bornemann var. *sublineata* Brady. Hada, 1929. [**Miliolina, Miliolinella*].
- Triloculina cuneata* Karrer. Shuto, 1965.
- Triloculina irregularis* (d'Orbigny). Uchio, 1952; 1962a; 1968: Chiji and Lopez, 1968. [**Quinqueloculina*].
- Triloculina laevigata* d'Orbigny. Shuto, 1953: Kuwano, 1953: Takayanagi, 1955: Sawai, 1955; 1958: Morishima, 1955: Matoba, 1970, p. 61, pl. 2, figs. 21a, b; 1975; 1976c: Ikeya, 1971b.
- Triloculina linnaeana* d'Orbigny. Uchio, 1952.
- Triloculina oblonga* (Montagu). Yabe and Hanzawa, 1925: Hanzawa, 1928; 1948: Hada, 1929; 1936; 1957b: Asano, 1937a, p. 15, figs. 7a-c; 1938: Oinomikado and Stach, 1948: Shuto, 1953: Morishima, 1955: Sawai, 1958; Chiji and Lopez, 1968, p. 112, pl. 8, figs. 1a, b. [**Vermiculum, Miliolinella*].
- "*Triloculina oblonga* (Montagu)". Ishiwada, 1958.
- Triloculina planciana* d'Orbigny. Chiji and Lopez, 1968, p. 112, pl. 7, figs. 13a, b.
- Triloculina rotunda* d'Orbigny. Shuto, 1953; 1965: Takayanagi, 1953b; 1955: Matoba, 1970, p. 61, pl. 2, figs. 22a, b; 1975; 1976c: Tai, 1971: Kato, 1979.
- Triloculina striatotrigonula* Parker and Jones. Uchio, 1962a; 1968.
- Triloculina subangularis*, (? *Quinqueloculina subangulata* Roemer). Chiji and Lopez, 1968.
- Triloculina suborbicularis* d'Orbigny. Matoba, 1975; 1976c.
- Triloculina suttuensis* Asano. Ikeya, 1971b.
- Triloculina terquemiana* (Brady). Hada, 1929; 1931, p. 88, text-figs. 4a, b: Asano, 1937a; 1956b, p. 76, pl. 8, fig. 7: Oinomikado and Stach, 1948: Shuto, 1953; 1965: Harrington, 1960: Uchio, 1962a; 1968: Aoki, 1967: Matoba, 1970, p. 61, pl. 3, figs. 1a, b; 1975; 1976c. [**Miliolina*].
- Triloculina* cf. *terquemiana* (Brady). Matoba, 1970, p. 62, pl. 3, figs. 2a, b: Kato, 1979.
- Triloculina transversestriata* (Brady). Hada, 1929. [**Miliolina*].
- Triloculina tricarinata* d'Orbigny. Yabe and Hanzawa, 1925: Hanzawa, 1928: Hada, 1931, p. 86-87, text-figs. 39a, b: Asano, 1937a, b; 1938; 1939; 1956b, p. 73-75, pl. 8, fig. 6: Oinomikado and Stach, 1948: Uchio, 1950; 1962a; 1968: Fukuta, 1951: Shuto, 1953; 1965: Takayanagi, 1953b; 1955: Higuchi, 1954: Morishima, 1955: Aoki, 1967: Chiji and Lopez, 1968, p. 113, pl. 7, figs. 11a, b: Ikeya, 1971b: Matoba, 1975; 1976a, c: Aoshima, 1978: Kato, 1979: Inoue, 1980.
- Triloculina tricarinata* d'Orbigny var. *convexa* Cushman. Harrington, 1960.
- Triloculina trigonula* (Lamarck). Yabe and Hanzawa, 1925: Hanzawa, 1928: Hada, 1929; 1931, p. 85-86, text-figs. 38a, b; 1939: Asano, 1937a, pl. 15, figs. 5a, b; 1937b; 1938; 1939; 1956b, p. 75, pl. 8, fig. 5: Oinomikado and Stach, 1948: Morishima, 1948b; 1950; 1955: Fukuta, 1951: Uchio, 1952; 1962a: Shuto, 1953; 1965: Higuchi, 1954: Takayanagi, 1955, pl. 1, fig. 14: Ishiwada, 1958: Harrington, 1960: Aoki, 1967: Chiji and Lopez, 1968, p. 113, pl. 7, figs. 12a, b: Ujiie and Kusukawa, 1969: Matoba, 1970, p. 62, pl. 3, figs. 3a, b; 1975; 1976c: Tai, 1971: Ikeya, 1977: Aoshima, 1978: Kato, 1979.

[**Miliolites*].

- Triloculina* sp. Asano, 1956b, p. 76, pl. 8, fig. 11.
Triloculina sp. Matoba, 1970, p. 62, pl. 3, figs. 4a, b.
Trimosina orientalis Cushman. Uchio, 1962a.
Trimosina otukai Uchio. Uchio, 1962a.
Tritaxia tricarinata Reuss. Yabe and Hanzawa, 1925.
Trochammina bradyi Robertson. Kuwano, 1953. [*Haplophragmoides*].
Trochammina charlottensis Cushman. Uchio, 1959; Chiji and Konda, 1970; Ikeya, 1970; Matoba, 1975; 1976a, c.
Trochammina charlottensis Cushman var. Kuwano, 1962, pl. 24, figs. 1, 2.
Trochammina chifinosa Uchio. Ikeya, 1970.
Trochammina discorbis Earland. Takayanagi, 1953b; Matoba, 1970, p. 62; Chiji and Konda, 1970; Aoshima, 1978.
Trochammina globigeriniformis (Parker and Jones). Hanzawa, 1928; Hada, 1929; 1931, p. 91-92, text-figs. 44a-c; 1936; 1939; 1957b; Asano, 1939; Morishima, 1947; 1948a, b; 1950; Oinomikado and Stach, 1948; Morishima and Chiji, 1952, pl. 7, figs. 11a-c; Yoshida, 1953a, b; Nakaseko, 1953; Takayanagi, 1955, p. 42, pl. 1, figs. 17a-c; Sawai, 1955; 1958; Ishiwada, 1958, pl. 1, figs. 13, 14; Kuwano, 1962, pl. 24, fig. 3; 1963; Chiji and Lopez, 1968, p. 113, pl. 7, figs. 3a, b; Ujiie and Kusukawa, 1969; Chiji and Konda, 1970, pl. 7, figs. 6a, b; Matoba and Nakagawa, 1972; Matoba, 1975; 1976a, b, c; Ikeya, 1977; Aoshima, 1978. (= *Lituola nautiloidea* var. *globigeriniformis* Parker and Jones).
Trochammina globigeriniformis Parker and Jones var. A. Kuwano, 1962, pl. 24, fig. 4.
Trochammina globigeriniformis Parker and Jones var. B. Kuwano, 1962, pl. 24, fig. 5.
Trochammina hadai Uchio, 1962b (n. sp.), p. 387-388, pl. 18, figs. 9a-c; Matoba, 1970, p. 62, pl. 1, figs. 14a-c, 15a-c; Ikeya, 1977.
Trochammina inconspicua Earland. Matoba, 1976b.
Trochammina inflata (Montagu). Hada, 1931, p. 90-91, text-figs. 43a, b; 1957b; Asano, 1938; Oinomikado and Stach, 1948; Ishiwada, 1950; Kuwano, 1953; Nakaseko, 1953; Shuto, 1953; Takayanagi, 1953b; 1955, p. 42, pl. 1, figs. 19a-c; Sawai, 1955; 1958; Morishima, 1955; Chiji and Lopez, 1968, p. 113, pl. 7, figs. 1a, b; Ikeya, 1970; Matoba, 1970, p. 62; Chiji and Konda, 1970; Tai, 1971. [**Nautilus*].
Trochammina japonica Ishiwada, 1950 (n. sp.), p. 190-191, figs. 2a-c; 1964, p. 36, pl. 2, figs. 19a-c; Yoshida, 1954, p. 156, figs. 1a-c; Matsuda, 1957; Chiji and Konda, 1970, pl. 7, figs. 7a, b; Ikeya, 1971b; Matoba and Nakagawa, 1972; Matoba, 1976a; Aoshima, 1978; Hasegawa, 1979; Inoue, 1980, pl. 26, figs. 4a-c.
Trochammina cf. *japonica* Ishiwada. Matoba, 1970, p. 62, pl. 1, figs. 16a-c, 17a-c.
Trochammina kellettae Thalmann. Takayanagi, 1955; Ikeya, 1970; 1971; Matoba, 1975; 1976b, c. [*Tiphotrocha*].
Trochammina nana (Brady). Morishima, 1947; 1948a; 1955; Chiji and Lopez, 1968; Ikeya, 1970; 1971b. [**Haplophragmium*].
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Trochammina pacifica Cushman. Takayanagi, 1955; Uchio, 1959; Ishiwada, 1964, pl. 2, figs. 20, 21; Matoba, 1970, p. 62, pl. 1, figs. 18a-c; 1975; 1976a, c; Chiji and Konda,

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- Trochammina quadriloba* Höglund. Ikeya, 1970: Matoba, 1976b.
- Trochammina rotaliformis* Wright. Ikeya, 1970.
- Trochammina squamata* Jones and Parker. Hada, 1939; 1957b: Asano, 1939: Oinomikado and Stach, 1948: Morishima and Chiji, 1952: Takayanagi, 1953b: Sawai, 1958: Uchio, 1962a, b: Ujié and Kusukawa, 1969.
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- Uvigerina angulosa* d'Orbigny. Yabe and Hanzawa, 1925.
- Uvigerina asanoi* Kuwano, 1962 (n. sp.), p. 24, fig. 11; 1963. (*nom. nud.*).
- Uvigerina asperula* Czjžek. Yabe and Hanzawa, 1925: Hanzawa, 1928.
- Uvigerina auberiana* var. *glabra* Millett. Sawai, 1955.
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- Uvigerina interrupta* Brady. Hanzawa, 1928.
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- Uvigerina* sp. Asano, 1958, p. 39, pl. 7, fig. 3.
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- Verneuilina takayanagii* Kuwano, 1962 (n. sp.), pl. 24, fig. 17. (*nom. nud.*).
- Verneuilina* sp. 1. Kuwano, 1962, pl. 24, fig. 16.
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- Virgulina complanata* Egger. Ishiwada, 1950; Takayanagi, 1953b; Asano, 1958, p. 14, pl. 3, fig. 8. [*Fursenkoina*].
- Virgulina ishikiensis* Asano. Shuto, 1953. [*Fursenkoina*].
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- Virgulina schreibersiana* Čížek. Hada, 1931, p. 130-131, text-fig. 87; Asano, 1937b; 1958, p. 15-16, text-figs. 1-4; Takayanagi, 1953b; Sawai, 1958. [*Fursenkoina*].
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APPENDIX

Flintina depressa Asano, 1936b, p. 944, pl. 51(17), figs. 5a-c.

Flintina japonica Asano, 1936b, p. 943, pl. 51(17), figs. 3a-c.

Flintina nomurai Asano, 1936b, p. 943, 944, pl. 51(17), figs. 4a-c.