

Appendix 2

Selected synonymy of the most important microfossil taxa, their stratigraphic range and habitat. (by Ágnes Görög)

The taxonomy of the different fossil groups is after the WoRMS (2025) except for Nannofossils, it is Young et al. (2022) and Calpionellids, it is after Borza (1969).

The stratigraphic range and ecological requirement of the species are given mostly based on the literature cited in the synonymy, in the other case, the reference has been cited.

All planktonic organism such as nannofossils, calpionellids, calcareous dinocysts and planktonic foraminifera lived in marine pelagic-hemipelagic environment.

Calcimicroba

Order Cyanobacteria (ex Stanier 1974) Cavalier-Smith 2002

Class Cyanophyceae Schaffner, 1909

Subclass Nostocophycidae Hoffmann, Komárek & Kastovsky, 2005

Order Nostocales Borzi, 1914

Family Rivulariaceae Frank, 1886

Genus *Rivularia* C. Agardh ex Bornet & Flahault, 1886

Rivularia lobatum (Yabe & Toyoma, 1928) Dragastan, 1985

1928. *Pycnoporidium lobatum* Yabe and Toyoma; Yabe & Toyoma, p. 146 (6), pl. XX (III), fig. 3; pl. XXI(IV), figs. 1-5; pl. XXII (V), fig. 1.

Stratigraphic range: Oxfordian (Bucur et al., 2005) — Albian (Masse & Arnaud Vanneau, 1995).

Environment. This species lived in the silent water of the back reef or lagoon (e.g., Masse & Arnaud Vanneau, 1995).

Infraphylum Dinoflagellata (Describer not mentioned on Worms)

Class Dinophyceae Fritsch in West & Fritsch, 1927

Order Thoracosphaerales Tangen in Tangen, Brand, Blackwelder & Guillard, 1982

Family Thoracosphaeraceae Schiller 1930, Tangen in Tangen, Brand, Blackwelder & Guillard, 1982 = synonym of Family Stomiosphaeridae Wanner, 1940

Calcareous dinoflagellate cysts =c-dinocysts; and calcareous acritarch(=calcitarch)

Family Cadosinidae Wanner, 1940

Genus *Cadosina* Wanner, 1940

Cadosina disiuncta Knauer, 1974

1974. *Cadosina disiuncta*, Knauer, p. 420, pl. I, figs. 21-26; pl. III, fig. 30; ? pl. III, fig. 31.

Stratigraphic range: Albian (Knauer, 1974).

Genus *Crustocadosina* Řehánek, 1985

Crustocadosina semiradiata (Wanner, 1940)

1940. *Cadosina semiradiata* n. sp.; Wanner, p. 81, figs. 36, 37.

Stratigraphic range: uppermost Oxfordian – upper Albian (Ivanova & Kietzmann, 2017).

Famille Calcisphaerulidae Bonet, 1956

Genus *Calcisphaerula* Bonet, 1956

Calcisphaerula innominata Bonet, 1956

1956. *Calcisphaerula innominata* nov. sp.; Bonet, p. 443, pl. XXII, fig. 1; pl. XXIV, figs. 1-2; pl. XXVII, fig. 1.

Stratigraphic range: Upper Albian – Maastrichtian (Dias-Brito, 2000).

Calcisphaerula innominata lata Adams, Khalili & Said, 1967

1967. *Calcisphaerula innominata lata* Adams, Khalili and Said, new subspecies; Adams, Khalili and Said, p. 56, pl. 1, fig. 2.

Stratigraphic range: Upper Albian – Maastrichtian (Hussain, 2017).

Genus *Colomisphaera* Nowak, 1968

Colomisphaera alpina (Leischner, 1959)

1959. *Stomiosphaera alpina* nov. spec.; Leischner, p. 870, text-fig. 10b.

Stratigraphic range: Lower Tithonian – upper Hauterivian (Ivanova, 1994).

Colomisphaera carpathica Borza, 1969

1969. *Colomisphaera carpathica* n. sp.; Borza, p. 191, pl. 1, figs. 3–4.

Stratigraphic range: Tithonian – lower Valanginian (Kietzmann et al., 2022).

Colomisphaera fortis Řehánek, 1982

1982. *Colomisphaera fortis* n. sp.; Řehánek, p. 220, pl. 1, figs. 1-8, tbl. 1.

Stratigraphic range: Tithonian – lower Valanginian (Kietzmann et al., 2022).

Colomisphaera lapidosa (Vogler, 1941)

1941. *Cadosina lapidosa* n. sp.; Vogler, p. 281, pl. 21, fig. 58.

Stratigraphic range: Upper Oxfordian – lower Valanginian (Ivanova & Kietzmann, 2017).

Famille Stomiosphaeridae Wanner, 1940 emend. Nowak, 1968

Stomiosphaera moluccana Wanner, 1940

1940. *Stomiosphaera moluccana* g. n. et sp. n.; Wanner, p. 76, pl. 1, figs. 1-2 (pars); pl. 2, figs. 3-6 (pars); text-fig. 1-18.

Stratigraphic range: Uppermost lower Kimmeridgian – lower Valanginian (Ivanova & Kietzmann, 2017).

Stomiosphaerina proxima Řehánek, 1987

1987. *Stomiosphaerina proxima* n. sp.; Řehánek, p. 696, pl. 1, figs. 1-8.

Stratigraphic range: Uppermost Tithonian – middle Upper Berriasian (Ivanova & Kietzmann, 2017).

Pithonellidae Keupp, 1987

Genus *Pithonella* Lorenz, 1902 sensu Kneupp, 1987

Pithonella lamellata Keupp in Keupp & Kienel, 1994

1994. *Pithonella lamellata* Keupp in Keupp & Kienel, 1994

Stratigraphic range: Upper Albian – Turonian. Originally described from the Upper Albian (Keupp & Kienel, 1994), it was later found in the Turonian (Ciurej et al., 2023).

Environment: Pithonellids are considered opportunistic organisms that can survive oligotrophic-mesotrophic even in eutrophic environments (Dias-Brito, 2000).

Pithonella sphaerica (Kaufmann in Heer, 1865)

1865. *Lagena sphaerica* Kaufm; Kaufmann in Heer, p. 196, figs. 106 a,b.

Stratigraphic range: Albian – Maastrichtian (Dias-Brito, 2000)

Calcareous nannofossils

Stratigraphic range is given based on website <https://www.mikrotax.org/Nannotax3> by Young, et al., 2022.

Heterococolits

Order Eiffelithales Rood, Hay & Barnard, 1971

Family Chiastozygaceae Rood, Hay & Barnard, 1973

Genus *Staurolithites* Caratini, 1963

Staurolithites pseudocarinolithus (Applegate & Bergen, 1988) Young & Bown, 2014

1988. *Vekshinella pseudocarinolithus* n.sp.; Applegate & Bergen, p. 316, pl. 16, figs. 1-9.

Stratigraphic range: Valanginian-Hauterivian (NC3 – lower NC5).

Genus *Tranolithus* Stover, 1966

Tranolithus sp.

Stratigraphic range: Lowermost Pliensbachian –uppermost Maastrichtian.

Family Rhagodiscaceae Hay, 1977

Genus *Calcicalathina* Thierstein, 1971

Calcicalathina alta Perch-Nielsen, 1979

1979. *Calcicalathina alta* n.sp.; Perch-Nielsen, p. 264, pl. 2, figs. 1-7.

Stratigraphic range: Mid Albian – Cenomanian (mid NC9-UC5).

Order Stephanolithiales Bown & Young, 1997

Family Stephanolithiaceae Black, 1968

Genus *Cylindralithus* Bramlette & Martini, 1964

?*Cylindralithus* sp.

Stratigraphic range: ?Albian – Maastrichtian (uppermost NC7-UC20).

Genus *Rotelapillus* Noël, 1973

Rotelapillus crenulatus (Stover, 1966) Perch-Nielsen, 1984

1966. *Rotelapillus crenulatus* n. sp.; Strover, p. 160, pl. 7, figs. 25, 26a-c, 27a, b; pl. 9, figs. 25-27.

Stratigraphic range: Upper Tithonian—Maastrichtian (NJ18-UC20).

Genus *Stradnerlithus* Black, 1971

Stradnerlithus sp.

Stratigraphic range: Upper Pliensbachian – Maastrichtian (upper NJ4-UC20).

Genus *Truncatoscapheus* Rood, Hay & Barnard, 1971

Truncatoscapheus intermedius Perch-Nielsen, 1986

1986. *Truncatoscapheus intermedius* n. sp.; Perch-Nielsen, p. 839, pl. 1, figs. 12, 13; cum. syn.

Stratigraphic range: Kimmeridgian – Tithonian (mid NJ15-NJ18).

Order Podorhabdales Rood, Hay & Barnard, 1971, emend. Bown, 1987

Family Biscutaceae Black, 1971

Genus *Boletovelum* Wind & Wise in Wise & Wind, 1977

Boletovelum sp.

Stratigraphic range: Albian and Coniacian – Maastrichtian (NC8-NC10 – mid UC9-UC20).

Family Cretarhabdaceae Thierstein, 1973

Genus *Retecapsa* Black, 1971

Retecapsa schizobrachiata (Gartner, 1968) Grün in Grün & Allemann, 1975

1968. *Vekshinella schizobrachiata* n. sp.; Gartner, p. 31, pl. 13, figs. 10, 11; pl. 20, fig. 5

Stratigraphic range: Callovian – Maastrichtian (NJ12 – UC20).

Family Prediscosphaeraceae Rood Hay & Barnard, 1971

Genus *Petrarhabdus* Wind & Wise in Wise, 1983

Petrarhabdus copulatus (Deflandre, 1959) Wind & Wise in Wise, 1983

1959. *Tetralithus copulatus* n. sp.; Deflandre, p. 138, pl. 3, figs. 19-24

Stratigraphic range: Campanian – mid Maastrichtian (UC13 – UC19).

Order Watznaueriales Bown, 1987

Family Watznaueriaceae Rood Hay & Barnard, 1971

Genus *Cyclagelosphaera* Noël, 1965

Cyclagelosphaera brezae Applegate & Bergen, 1988

1988. *Cyclagelosphaera brezae* n. sp.; Applegate & Bergen, p. 314, pl. 20, figs. 1-3.

Stratigraphic range: Upper Tithonian – Valanginian (NJ18 – NC3).

Cyclagelosphaera deflandrei (Manivit, 1966) Roth, 1973

1966. *Coccolithus deflandrei* n. sp.; Manivit, p. 268, figs. 1a, b, c.

Stratigraphic range: Middle Oxfordian – Hauterivian (NJ15 – lower NC5).

Holococcoliths

Common genera

Genus *Calculites* Prins & Sissingh in Sissingh, 1977*Calculites obscurus* (Deflandre, 1959) Prins & Sissingh in Sissingh, 19771959. *Tetralithus obscurus* n. sp.; Deflandre, p. 138, pl. 3, figs. 26-29.

Stratigraphic range: Turonian – Maastrichtian (UC7 – UC20).

Calculites sp.

Stratigraphic range: Hauterivian (UC4 – mid UC5) and mid Albian – Maastrichtian (UC9 – UC20).

Genus *Lucianorhabdus* Deflandre, 1959*Lucianorhabdus* aff. *arborius* Wind & Wise in Wise & Wind, 1977aff. 1977. *Lucianorhabdus* aff. *arborius* n. sp.; Wind & Wise in Wise & Wind, p. 301, pl. 32, figs. 3, 5.

Remarks. The specimen in our material most closely resembles this species.

Stratigraphic range: *L. arborius* has been described only from the Maastrichtian (UC20).*Lucianorhabdus maleformis* Reinhardt, 19661966. *Lucianorhabdus maleformis* n. sp.; Reinhardt, p. 42, pl. 21, figs. 5, 7.

Stratigraphic range: Turonian – Maastrichtian (UC7 – UC20).

Genus *Owenia* Crux, 1991*Owenia hillii* Crux, 19911991. *Owenia hillii* sp. nov.; Crux, p. 314, pl. 1, figs. 3, 6; pl. 2, figs. 1-4, 8.

Stratigraphic range: Middle Albian – uppermost Turonian (lower NC9 – mid UC9).

Order Braarudosphaerales Aubry 2013 emend. Lees & Bown, 2016

Family Braarudosphaeraceae Deflandre, 1947

Genus *Braarudosphaera* Deflandre, 1947*Braarudosphaera bigelowii* (Gran & Braarud, 1935) Deflandre, 19471935. *Pontosphaera Bigelowii* n. sp.; Gran & Braarud, p. 388, fig. 67.1947. *Braarudosphaera Bigelowi* (Gran et Braarud) comb. nov.; Deflandre, p. 439-441, figs. 1-5.

Stratigraphic range: Cenomanian – Recent.

Braarudosphaera primula Black, 19731973. *Braarudosphaera primula* n. sp.; Black, p. 91, pl. 28, figs. 1, 5, 6.

Stratigraphic range: Mid Albian (mid NC9 – NC10).

Transitional genera

Genus *Hexalithus* Gardet, 1955*Hexalithus noelae* Loeblich & Tappan, 1966

1957. *Hexalithus hexalithus* n. sp.; Noël, p. 329, pl. 5; figs. 39, 40a-c.

1966. *Hexalithus noelae* nom. nov. pro *Hexalithus hexalithus* Noel (1957); Loeblich & Tappan, p. 92.

Stratigraphic range: Upper Tithonian – lower Berriasian (NJ18 – NC1).

Family Nannoconaceae Deflandre, 1959

Genus *Nannoconus* Kamptner, 1931

N. kamptneri group

Nannoconus colomii (de Lapparent, 1931) Kamptner, 1938

1931. *Lagena colomi* n. sp.; de Lapparent, p. 222-223.

1955. *Nannoconus colomii* (de Lapparent); Brönnimann, p. 35, pl. 2, figs. 9, 17, text-figs. 3n-r, cum. syn.

Stratigraphic range: Tithonian – Barremian (NJ16 – NC5).

Nannoconus dauvillieri Deflandre & Deflandre-Rigaud, 1959

1959a. *Nannoconus dauvillieri* n. sp.; Deflandre & Deflandre-Rigaud, p. 2373-2374, pl. 1, figs. 1-2.

1959b. *Nannoconus dauvillieri* Deflandre & Deflandre-Rigaud, p. 177; pl. 1, figs. 22- 26.

Stratigraphic range: Albian – Campanian (NC8 – UC16).

Nannoconus kamptneri Brönnimann, 1955

1955. *Nannoconus kamptneri*, new species; Brönnimann, p. 37, pl. 2, figs. 14, 16, 20, 21; Text-figs, 2i-m.

Stratigraphic range: Berriasian – Barremian (NC1 – NC7).

Nannoconus gr. *kamptneri* Brönnimann, 1955

Stratigraphic range: Tithonian – Campanian (NJ16 – UC16).

Nannoconus vocontiensis Deres & Achéritéguy, 1980

1980. *Nannoconus vocontiensis* n. sp.; Deres & Achéritéguy, p. 26, pl. 1, fig. 6, cum syn.

Stratigraphic range: Aptian – Cenomanian (NC6 – UC5).

N. truitii group

Nannoconus elongatus Brönnimann, 1955

1955. *Nannoconus elongatus* new species; Brönnimann, p. 38, pl. 1, figs. 10-14; Text-figs. 2v-y.

Stratigraphic range: Barremian – Campanian (NC5 – UC16).

N. circularis group

Nannoconus gr. *circularis* Deres & Achéritéguy, 1980

1980. *Nannoconus circularis* Deres & Achéritéguy, p. 23, pl. 1, figs. 1-2, cum. syn.

Stratigraphic range: Tithonian – Albian (NJ16 – NC10).

Family Polycyclolithaceae Forchheimer, 1972 emend Varol, 1992

Genus *Eprolithus* Stover, 1966

Eprolithus rarus Varol, 1992

1992. *Eprolithus rarus* Varol, p. 104, pl. 1, fig. 1; pl. 6, fig. 7.

Stratigraphic range: Turonian-Campanian (UC7 – UC16).

Genus *Micula* Vekshina, 1959

Micula concava (Stradner in Martini & Stradner, 1960) Verbeek, 1976

1960. *Nannotetraster concavus* n. sp.; Stradner in Martini & Stradner, p. 269; figs. 18a-d.

Stratigraphic range: Santonian – Maastrichtian (UC11 – UC20).

Genus *Palaeomicula* Varol & Jakubowski, 1989

Palaeomicula maltica (Worsley, 1971) Varol & Jakubowski, 1989

1971. *Tetralithus malticus* n. sp.; Worsley, p. 1313, pl. 2, figs. 9-11.

Stratigraphic range: Kimmeridgian – Hauterivian (mid NJ15 – mid NC5).

Genus *Quadrum* Prins & Perch-Nielsen in Manivit et al., 1977

Quadrum eneabrachium Varol, 1992

1992. *Quadrum eneabrachium* Varol, p. 108, pl. 2, fig. 8; pl. 7, figs. 6-7.

Stratigraphic range: Lower Albian – uppermost Santonian (NC9 – UC12).

Genus *Uniplanarius* Hattner & Wise, 1980

Uniplanarius gothicus (Deflandre, 1959) Hattner & Wise, in Wind & Wise, 1983

1959. *Tetralithus gothicus* n. sp.; Deflandre, p. 138, pl. 3, fig. 25.

Stratigraphic range: Middle Santonian – lower Maastrichtian (mid UC12 – UC17).

Nannoliths inc. sedis

Family Eoconusphaeraceae Kristan-Tollmann, 1988

Genus *Conusphaera* Trejo, 1969

Conusphaera maledicto Varol & Bowman, 2019,

2019. *Conusphaera maledicto* VAROL & BOWMAN n. sp.; Varol & Bowman, p. 70, figs. 6.17-6.20, 7.1-7.8.

Stratigraphic range: Tithonian (NJ16 – NJ18).

Conusphaera mexicana Trejo, 1969,

1969. *Conusphaera mexicana* n. sp.; Trejo, p. 6, pl. 1, figs. 1-7; pl. 2, figs. 1-8; text-figs. 1-4.

Stratigraphic range: Lower Tithonian (NJ17-NJ18).

Conusphaera sp.

Stratigraphic range: Tithonian – lowermost Aptian (NJ16-NC6).

Family Microrhabdulaceae Deflandre, 1963

Genus *Lithraphidites* Deflandre, 1963
Lithraphidites sp.

Stratigraphic range: Berriasian – Maastrichtian (NC1-UC20).

Nannoliths incertae sedis - radiate multielement
 Genus *Acadialithus* Howe, 2017
Acadialithus sp.

Stratigraphic range: Upper Tithonian (NJ18).

Genus *Assipetra* Roth, 1973
Assipetra sp.

Stratigraphic range: Berriasian – Aptian (NC1 – lowermost NC8).

Genus *Phosterolithus* Aguado, in Aguado et al., 2014
Phosterolithus prossii (Herrle & Mutterlose, 2003) Aguado in Aguado et al., 2014

2003. *Polycostella? prossii* sp. nov.; Herrle & Mutterlose, p. 18, figs. 8b, c.

Stratigraphic range: Uppermost Barremian – lower Albian (uppermost NC5 – NC8).

Nannoliths inc sed. - other
 Genus *Ceratolithoides* Bramlette & Martini, 1964
Ceratolithoides sp.

Stratigraphic range: Campanian – Maastrichtian (UC13-UC20).

Microproblematica

Genus *Crescentiella* Senowbari-Daryan et al., 2008
Crescentiella morronensis (Crescenti, 1969) Senowbari-Daryan et al., 2008

1969. *Tubiphytes morronensis* n. sp., Crescenti, p. 35–37, figs. 10, 20–22.

Stratigraphic range: Oxfordian – lower Berriasian (Senowbari-Daryan et al. 2008)
 Environment: It lived in a shallow-marine environment.

Genus *Gemeridella* Borza & Mišik, 1975
Gemeridella minuta Borza & Mišik, 1975

1975. *Gemeridella minuta* n. gen., n. sp.; Borza & Mišik, p. 77, pl. I, figs. 1–12.

Stratigraphic range: Described from the Upper Triassic but described from different ages until the lower Berriasian C. alpina Zone (Michalík et al., 2016).

Genus *Isnella* Senowbari-Daryan, 2007
Isnella aff. *misiki* Senowbari-Daryan, 2007 sensu Schlagintweit & Gawlik, 2009

2009. *Isnella* aff. *misiki* Senowbari-Daryan, 2007; Schlagintweit & Gawlik, p. 454, figs. 4F and 6C–E, Tbl. 1.

Stratigraphic range: Kimmeridgian – Tithonian.

Environment: It has a microencruster mode of live on shallow-water carbonate platforms.

Genus *Lithocodium* Elliott, 1956

Lithocodium aggregatum Elliott, 1956

1956. *Lithocodium aggregatum* n. gen., n. sp.; Elliott, p. 331, pl. 1, figs. 2, 4-5.

Stratigraphic range: Oxfordian? Tithonian – upper Albian (Coniacian?).

Environment: This organism (alga?) had an encrusting epilithic mode of life. It is common in shallow marine, inner platform-ramp environments. (Schlagintweit et al., 2010a,b, c)

Genus *Muranella* Borza, 1975

Muranella parvissima (Dragastan, 1966)

1966. *Clypeina parvissima* n. sp.; Dragastan, p. 44, pl. I, figs. 2-7, text-figs. 3a, b.

Stratigraphic range: Callovian(?) – Tithonian.

Family Thaumatoporellaceae De Castro, 1988

Genus *Thaumatoporella* Pia, 1927

Thaumatoporella parvovesiculifera (Raineri, 1922)

1922. *Gyroporella parvovesiculifera* n. sp.; Raineri, p. 83, pl. 13, figs. 17-18.

2012. *Thaumatoporella parvovesiculifera* (Raineri, 1922); Schlagintweit & Velić, p. 79, fig. 1f.

Stratigraphic range: Ladinian – Paleocene.

Environment: This form appears in different shallow-marine carbonate environments. (Haas et al., 2019)

tubes with calcareous micritic wall

Description. The section of the microproblematica is circular or slightly oval, with 120-150 µm in diameter. Sometimes a half tube overlaps a tube. The wall one layered and microgranular.

Stratigraphic range: In our material it occurred in the upper Berriasian – Valanginian.

Environment: The associated algae suggest a shallow marine environment in the photic zone.

Algae

Environment. All algae lived in the photic zone, preferring shallow, slow-moving water.

Subkingdom Viridiplantae Cavalier-Smith, 1981

Phylum Chlorophyta Pascher, 1914

Class Dasycladophyceae Hoek et al., 1995

Order Dasycladales Pascher, 1931

Family Dasycladaceae Kützing, 1843

Genus *Acicularia* A.d'Archiac, 1843

Acicularia sp.

Stratigraphic range: Upper Jurassic – Recent (Bucur, 1999)

Genus *Anisoporella* G.Botteron, 1961

Anisoporella sp.

Stratigraphic range: Anisian – Ladinian and Barremian – Aptian (Bucur, 1999).

Genus *Cylindroporella* J.H. Johnson, 1955

Cylindroporella sp.

Stratigraphic range: Oxfordian – Maastrichtian (Bucur, 1999).

Genus *Linoporella* Steinmann, 1899

Linoporella sp.

Stratigraphic range: Hettangian – Pliensbachian and Oxfordian – Cenomanian (Bucur, 1999).

Genus *Salpingoporella* Pia, in Trauth, 1918

Salpingoporella? *sellii* (Crescenti, 1959)

1959. *Macroporella sellii* n. sp.; Crescenti, p. 195, pl. 1.

1978. *Salpingoporella sellii* (Crescenti) nov. comb.; Bassoullet et al., p. 249, pl. 30, figs. 10-12.

Stratigraphic range: Kimmeridgian – lower Berriasian? (Schlagintweit, 2011).

Family Triploporellaceae Pia, 1920

Genus *Suppiluliumaella* Elliott, 1968

?*Suppiluliumaella* sp.

Stratigraphic range: Kimmeridgian – Cenomanian (Bucur, 1999).

Genus *Triploporella* Steinmann, 1880

? *Triploporella* sp.

? Stratigraphic range: Upper Jurassic – Cenomanian (Bucur, 1999).

Family Polyphysaceae Kützing, 1841

Genus *Clypeina* Michelin, 1845 emend. Granier & Lethiers, 2019

Clypeina sp.

Stratigraphic range: Ladianian – Carnian and Oxfordian – Maastrichtian (Bucur, 1999).

Genus *Aloisalthella* Granier & Lethiers, 2019

Aloisalthella sulcata (Alth, 1882) Granier & Lethiers, 2019

1882. *Actinoporella sulcata* Alth; Alth, p. 323.

2019. *Aloisalthella sulcata* Alth, 1882, comb. nov.; Granier & Lethiers, p. 13, figs. 1.1, 2-4, 8.1-7, 8.9-11, 9-12. cum. syn.

Stratigraphic range: Kimmeridgian – Berriasian.

Class Siphonophyceae Haeckel, 1894

Order Siphonales Kirchner, 1878

Family Protohalimedaceae Dragastan, Littler & Littler, 2002

Genus *Tethysicodium* Dragastan, 1985

Tethysicodium elliotti (Dragastan, 1971) Dragastan & Schlagintweit, 2005

1971. *Cayeuxia elliotti* n. sp.; Dragastan, p. 187, pl. 10, fig. 3, not figs. 1, 2, 4.

2005. *Tethysicodium elliotti* (Dragastan, 1971) nov. comb.; Dragastan & Schlagintweit, p. 119, pl. 6, figs. 2-3, text-fig. 7/2.

Stratigraphic range: Tithonian.

Infrakingdom Streptophyta John, Williamson & Guiry, 2011

Phylum Charophyta Cavalier-Smith, 2002

Charophyte gyrogonite

Stratigraphic range: Devonian – Recent.

Environment: Charophyta lives in fresh water.

Calpionellids

Kingdom Chromista Cavalier-Smith, 1981

Phylum Ciliophora Kahl, 1930

Class Oligotrichea Bütschli, 1887

Order Oligotrichida Bütschli, 1887

Family Chitinoideidae Trejo, 1975

Genus *Chitinoidea* Doben, 1962

Chitinoidea boneti Doben, 1963

1963. *Chitinoidea boneti* n.gen. n.sp.; Doben, p. 42, pl. 6, figs. 1-5.

Stratigraphic range: Middle Tithonian (Jain, 2021)

Chitinoidea elongata Pop, 1997

1997. *Chitinoidea elongata* Pop n. sp.; Pop, p. 934, fig. 1: 2 ;fig. 2:3-4.

Stratigraphic range: Middle Tithonian (Jain, 2021).

Genus *Praetintinnopsis* Borza, 1969

Praetintinnopsis andrusovi Borza, 1969

1969. *Praetintinnopsis andrusovi* n. sp.; Borza, p. 80, pl. LXIX, figs.9-16, pl. LXX, figs. 1-10.

Stratigraphic range: Upper Tithonian (Jain, 2021).

Family Calpionellidae Bonet, 1956

Genus *Calpionella* Lorenz, 1902

Calpionella alpina Lorenz, 1902

1902. *Calpionella alpina*, gen. et spec. auct.; Lorenz, p. 60, pl. IX, fig. 1.

Stratigraphic range: Upper Tithonian – upper Berriasian (Jain, 2021).

Genus *Calpionellopsis* Colom, 1948

Calpionellopsis oblonga (Cadisch, 1932)

1932. *Calpionella oblonga* n. sp.; Cadisch, p. 252, pl. 3, figs. 20-21.

Stratigraphic range: Upper Berriasian – lower Valanginian (Jain, 2021).

Calpionellopsis simplex (Colom, 1939)

1939. *Calpionella simplex* n. sp.; Colom, p. 820, pl. 2, fig. 11.

Stratigraphic range: Upper Berriasian – lower Valanginian (Jain, 2021).

Genus *Colomiella* Bonet, 1956

Colomiella recta Bonet, 1956

1956. *Colomiella recta* nov. sp.; Bonet, p. 431, pl. XXI, figs. 1-2.

Stratigraphic range: Uppermost Aptian – lower Albian (Trejo, 1975, Reháková & Michalík, 1997).

Genus *Crassicolaria* Remane, 1962

Crassicolaria intermedia (Durand Delga, 1957)

1957. *Calpionella intermedia* n. sp.; Durand Delga, p. 167, fig. 1C; pl. I, figs. 2-4.

Stratigraphic range: Upper Tithonian – lower Berriasian (Jain, 2021)

Genus *Lorenziella* Knauer & Nagy, 1964

Lorenziella hungarica Knauer & Nagy, 1964

1964. *Lorenziella hungarica* n. sp.; Knauer & Nagy, p. 144, text-fig. 2; pl. I figs. 3, 5, 9-13.

Stratigraphic range: Upper Berriasian – lower Valanginian (Jain, 2021).

Genus *Parachitinoidea* Trejo, 1972

Parachitinoidea cuvillieri Trejo, 1972

1972. *Parachitinoidea cuvillieri* n. sp.; Trejo, p. 82, pl. II, figs 6-12.

Stratigraphic range: Upper Aptian (Reháková & Michalík 1997).

Genus *Tintinnopsella* Colom, 1948

Tintinnopsella carpathica (Murgeanu & Filipescu, 1933)

1933. *Calpionella carpathica* n. sp.; Murgeanu & Filipescu, p. 63, pl. 1c.

Stratigraphic range: Upper Tithonian – lower Valanginian (Jain, 2021).

Tintinnopsella remanei Borza, 1969

1969. *Tintinnopsella remanei* n. sp.; Borza, p. 96, pl. LXXX, figs. 7-16.

Stratigraphic range: Upper Tithonian – lower Valanginian (Jain, 2021).

Foraminifera

Phylum Foraminifera d'Orbigny, 1826

Class Globobulimina Pawłowski, Holzmann & Tyszkiewicz, 2013

Subclass Textulariana Michalevich 1980.
Order Lituolida Lankester, 1885
Suborder Lituolina Lankester, 1885
Superfamily Lituoloidea Blainville, 1827
Family Haplophragmoididae Maync, 1952
Genus *Haplophragmoides* Cushman, 1910
Haplophragmoides globosus Lozo, 1944

1944. *Haplophragmoides globosa* sp. nov.; Lozo, p. 543, pl. 2, figs. 8 a-c.

Stratigraphic range: Albian.
Environment: Platform or reef environment.

Family Lituolidae Blainville, 1827
Subfamily Ammomarginulininae Podobina, 1978
Genus *Ammobaculites* Cushman, 1910
Ammobaculites sp.

Stratigraphic range: Upper Devonian – Holocene (Kaminski et al., 2008).
Environment: The specimens of this genus live in shallow marine environment and tolerate the brackish water (Murray, 2006).

Suborder Nezzazatina Kaminski, 2004
Superfamily Nezzazatoidea Hamaoui & Saint-Marc, 1970
Family Mayncinidae Loeblich & Tappan, 1985
Genus *Freixialina* Ramalho, 1969
Freixialina planispiralis Ramalho, 1969

1969. *Freixialina planispiralis* n. gen., n. sp.; Ramalho, p. 39, pl. I, figs. 1-4.

Stratigraphic range: Bajocian – Tithonian (BouDagher-Fadel, 2018).
Environment: This species lived in the shallow marine environment.

Family Nautiloculinidae Loeblich & Tappan, 1985
Genus *Nautiloculina* Mohler, 1938
Nautiloculina circularis (Said & Barakat, 1959)

1959. *Haplophragmoides circularis* n. sp.; Said, R. and Barakat, M. G., Foraminifera subsurface Jurassic rocks of Wadi El Natrun Egypt. Egyptian Acad. Sci., Proc., Cairo 13 (1957/1958), p. 44, fig. 1. fide Ellis and Messina Catalogue.

Stratigraphic range: Bajocian – Aptian (Boudaghel-Fadel, 2018).
Environment: Different environment of the platform.

Family Nezzazatidae Hamaoui & Saint-Marc, 1970
Subfamily Nezzazatidae Hamaoui & Saint-Marc, 1970
Genus *Nezzazata* Omara, 1956
Nezzazata sp.

Stratigraphic range: Lower Aptian (Lower Cretaceous) – Coniacian (Upper Cretaceous) (Kaminski et al., 2008).
Environment: The specimens of this genus live in shallow marine environment and tolerate the brackish water.

Genus *Nezzazatinella* Darmoian, 1976
Nezzazatinella sp.

Stratigraphic range: Cretaceous (Darmonian, 1976; Neagu, 1979).

Environment: This is a shallow marine genus.

Suborder *Spiroplectamminina* Mikhalevich, 1992
Superfamily *Spiroplectamminoidea* Cushman, 1927
Family *Spiroplectamminidae* Cushman, 1927
Subfamily *Novalesiinae* Loeblich & Tappan, 1984
Genus *Novolesia* Magniez, 1974
Novolesia sp.

Stratigraphic range: Hauterivian – lower Albian (Kaminski et al., 2008).
Environment: This genus lived in platform or reef environment.

Subfamily *Spiroplectammininae* Cushman, 1927
Genus *Ammobaculoides* Plummer, 1932
Ammobaculoides sp.

Stratigraphic range: Callovian – Holocene (Kaminski et al., 2008).
Environment: It prefers the lagoon or estuarine environment.

Genus *Bolivinosia* Yakovlev, 1891
Bolivinosia sp.

Stratigraphic range: Upper Cretaceous – Middle Eocene (Kaminski et al., 2008).
Environment: It prefers the shallow marine environment.

Suborder *Trochamminina* Saidova, 1981
Superfamily *Trochamminoidea* Schwager, 1877
Family *Trochamminidae* Schwager, 1877
Subfamily *Trochammininae* Schwager, 1877
Genus *Trochammina* Parker & Jones, 1859
Trochammina sp.

Stratigraphic range: Carboniferous – Recent (Loeblich & Tappan, 1988).
Environment: It prefers the lagoon or estuarine environment.

Suborder *Verneulinina* Kaminski & Mikhalevich in Kaminski, 2004
Superfamily *Verneulinoidea* Cushman, 1911
Family *Reophacellidae* Mikhalevich & Kaminski, in Kaminski 2004
Subfamily *Spiroplectinatinae* Cushman, 1928
Genus *Belorussiella* Akimets, 1958
Belorussiella sp.

Stratigraphic range: Tithonian (Upper Jurassic) – Santonian (Upper Cretaceous) (Kaminski et al., 2008).
Environment: It prefers the lagoon or estuarine environment.

Family *Verneulinidae* Cushman, 1911
Verneulinidae sp.

Stratigraphic range: Permian – Eocene (Kaminski et al., 2008).
Environment: It prefers the shallow marine environment.

Subfamily *Verneulininae* Cushman, 1911
Genus *Pseudogaudryina* Cushman, 1936
Pseudogaudryina sp.

Stratigraphic range: Upper Cretaceous – Recent (Cushman, 1936).

Environment: It prefers the shallow marine environment.

Genus *Verneuilina* d'Orbigny, 1839

Verneuilina sp.

Stratigraphic range: Middle Callovian (Middle Jurassic) – Middle Paleocene (Kaminski et al., 2008).

Environment: It prefers the shallow marine environment.

Order Loftusiida Kaminski & Mikhalevich in Kaminski, 2004

Suborder Ataxophragmiina Fursenko, 1958

Superfamily Ataxophragmioidea Schwager, 1877

Family Ataxophragmiidae Schwager, 1877

Subfamily Ataxophragmiidae Schwager, 1877

Genus *Arenobulimina* Cushman, 1927

Arenobulimina sp.

Stratigraphic range: Oxfordian (Upper Jurassic) – Paleocene (Kaminski et al., 2008).

Environment: It prefers the shallow platform environment.

Subfamily Pernerininae Loeblich & Tappan, 1984

Genus *Voloshinoides* Barnard & Banner, 1980

Voloshinoides sp.

Stratigraphic range: Albian – Maastrichtian (Loeblich & Tappan, 1988).

Environment: It prefers the shallow marine environment.

Superfamily Ataxophragmioidea Schwager, 1877

Family Cuneolinidae Saidova, 1981

Subfamily Cuneolininae Saidova, 1981

Genus *Vercorsella* Arnaud-Vanneau, 1980

Vercorsella sp.

Stratigraphic range: Valanginian – Albian (BouDagher-Fadel, 2018).

Environment: It prefers the shallow marine environment.

Subfamily Sabaudiinae Brönnimann, Decrouez & Zaninetti, 1983

Genus *Akcaya* Özdikmen, 2009

Akcaya minuta (Hofker, 1965)

1965. *Textulariella minuta*, n. sp.; Hofker, p. 186-187, pl. III, fig. 5-6; pl. IV, figs. 1-9.

Stratigraphic range: Upper Hauterivian – upper Albian (lower Cenomanian?) (Schlagintweit, 2015).

Environment: It prefers the shallow marine environment.

Subordo Loftusiina Kaminski & Mikhalevich in Kaminski, 2004

Superfamily Loftusioidea Brady, 1884

Family Cyclamminidae Marie, 1941

Subfamily Buccicrenatinae Loeblich & Tappan, 1985

Genus *Buccicrenata* Loeblich & Tappan, 1949

Buccicrenata sp.

Stratigraphic range: Kimmeridgian – Cenomanian (Kaminski et al., 2008).

Environment: It prefers the shallow marine environment.

Family Everticyclamminidae Septfontaine, 1988

Genus *Everticyclammina* Redmond, 1964
Everticyclammina sp.

Stratigraphic range: Hettangian – Cenomanian (Kaminski et al., 2008).
Environment: This genus preferred the shallow marine environment.

Family Mesoendothyridae Voloshinova, 1958
Subfamily Labyrinthininae Septfontaine, 1988
Genus *Labyrinthina* Weynschenk, 1951
Labyrinthina mirabilis Weynschenk, 1951

1951. *Labyrinthina mirabilis* n. sp.; Weynschenk, p. 793, pl. 112, figs. 4-9; text-figs. 1, 2.

Stratigraphic range: uppermost Oxfordian – lowermost Tithonian (Bassoullet, 1997).
Environment: This species had a free or encrusting mode of life in warm shallow marine water.

Stratigraphic range: Uppermost Oxfordian – lowermost Tithonian (Bassoullet, 1997).
Environment: It lived in shallow marine environment.

Family Spirocyclinidae Munier-Chalmas, 1887
Genus *Pseudospirocyclina* Hottinger, 1967
Pseudospirocyclina mauretanica Hottinger, 1967

1967. *Pseudospirocyclina mauretanica* n. sp.; Hottinger, p. 73, pl. 18, figs. 13-20.

Stratigraphic range: Upper Kimmeridgian – Tithonian.
Environment: Shallow marine carbonate platform.

Suborder Orbitolinina Kaminski, 2004
Superfamily Orbitolinoidea Martin, 1890
Family Orbitolinidae Martin, 1890
Subfamily Dictyoconinae Schubert, 1912
Genus *Parurgonina* Cuvillier, Foury & Pignatti, 1968
Parurgonina caelinensis (Cuvillier, Foury & Pignatti, 1968)

1968. *Urgonina* (*Parurgonina*) *caelinensis* ; Cuvillier et al., p. 150, pl. II, figs. 1-12, pl. III, figs. 1-9, text-figs. 2-3.

Stratigraphic range: Uppermost Oxfordian – lowermost Tithonian (Bassoullet, 1997).
Environment: This species lived in shallow marine water.

Superfamily Pfenderinoidea Smout & Sugden, 1962
Family Hauraniidae Septfontaine, 1988
Subfamily Amijellinae Septfontaine, 1988
Genus *Pseudocyclammina* Yabe and Hanzawa, 1926
Pseudocyclammina lituus Yokoyama, 1890

1890. *Cyclammina lituus* Yokoyama, M.: Foraminiferen aus dem Kalksteine von Torinosu und Kompira. in Naumann, E. and Neumayr, M. (eds), Zur Geologie und Paläontologie von Japan: Denkschriften der Kaiserlichen Akademie Wissenschaften, Wien, Mathematisch-Naturwissenschaftliche Classe, 57, p. 26, pl. 5, fig. 7. fide Ellis and Messina Catalogue

Stratigraphic range: Kimmeridgian – Hauterivian (Bassoullet, 1997).

Environment: These forms widely distributed in the biomicritic/oncolitic facies of the inner platform of the Tethys (Septfontaine, 1981).

Family Pfenderinidae Smout & Sugden, 1962
Subfamily Pfenderininae Smout & Sugden, 1962
Genus *Dobrogelina* Neagu, 1979
Dobrogelina sp.

Stratigraphic range: Lower Cretaceous.
Environment: This genus lived in shallow marine environment.

Genus *Pfenderina* Henson, 1948
Pfenderina neocomiensis (Pfender, 1938)

1938. *Eorupertia neocomiensis* nov. sp.; Pfender, p. 236, pl. XVI, figs. 1-7.

Stratigraphic range: upper Berriasian – Valanginian (Mircescu et al., 2016).
Environment: This genus lived in shallow marine environment.

Order Textulariida Lankester, 1885
Suborder Textulariina Delage & Hérouard, 1896
Superfamily Chrysalidinoidea Neagu, 1968
Family Paravalvulinidae Banner, Simmons & Whittaker, 1991
Subfamily Paravalvulininae Banner, Simmons & Whittaker, 1991
Genus *Redmondoides* Banner, Simmons & Whittaker, 1991
Redmondoides lugeoni (Septfontaine, 1977)

1977. *Valvulina lugeoni* sp. nov.; Septfontaine, p. 612-613, text-figs 6a-e, pl. 2 figs 2-5.

Stratigraphic range: Upper Aalenian – Lower Cretaceous.
Environment: This species is widely distributed in the carbonate platforms of the Tethys. (Haas et al., 2019, Appendix)

Superfamily Eggerelloidea Cushman, 1937
Family Valvulinidae Berthelin, 1880
Subfamily Valvulininae Berthelin, 1880
Genus *Valvulina* d'Orbigny, 1826
Valvulina sp.

Stratigraphic range: Carboniferous – Recent (www.mindat.org/).
Environment: It prefers the shallow marine environment.

Order Robertinida Loeblich & Tappan, 1984
Suborder Duostominina Mikhalevich, 2013
Superfamily Duostominoidea Brotzen, 1963
Family Duostominidae Brotzen, 1963
Genus *Duostomina* Kristan-Tollmann, 1960
Duostomina biconvexa Kristan-Tollmann, 1960

1960. *Duostomina biconvexa* nov. gen. nov. spec.; Kristan-Tollmann, p. 68, pl. 17, figs. 1-2; pl. 18, Fig. 2.

Stratigraphic range: Carnian – Rhaetian (Gale et al., 2012)
Environment: This species lived in carbonate platform environment.

Class Tubothalamea Pawlowski, Holzmann & Tyszk, 2013

Order Miliolida Delage & Hérouard, 1896
 Suborder Miliolina Kaminski, 2004
 Superfamily Cornuspiroidea Schultze, 1854 nom. transl. Bogdanovich in Subbotina et al., 1981
 Family Cornuspiridae Schultze, 1854
 Subfamily Turriglominae Zaninetti in Limongi et al., 1987, emend. Ueno et al., 2018
 Genus *Turriglomina* Zaninetti in Limongi, Panzanelli-Fratoni, Ciarapica, Cirilli, Martini, Salvini- Bonnard & Zaninetti, 1987
Turriglomina mesotriassica (Koehn-Zaninetti, 1968)

1968. *Turritellessa mesotriassica* n. sp.; Koehn-Zaninetti, p. 32, pl. III, figs. F, G, text-fig. 4.

Stratigraphic range: Upper Anisian – lower Ladinian.
 Environment: It lived from the platform to the basin. (Limongi et al., 1987)

Family Hemigordiopsidae Nikitina, 1969
 Subfamily Hemigordiopsinae Nikitina, 1969
 Genus *Agathammina* Neumayr, 1887

Agathammina sp.

Stratigraphic range: Upper Carboniferous – Upper Triassic (Loeblich & Tappan, 1988; Haas et al., 2010).
 Environment: It preferred the muddy lagunal environment. (Haas et al., 2010).

Superfamily Milioloidea Ehrenberg, 1839
 Family Hauerinidae Schwager, 1876
 Subfamily Hauerininae Schwager, 1876
 Genus *Decussoloculina* Neagu, 1984
Decussoloculina sp.

Stratigraphic range: Berriasian – Valanginian.
 Environment: It lived in the shallow marine environment.

Genus *Istriloculina* Neagu, 1984
Istriloculina sp.

Stratigraphic range: Upper Berriasian – Lower Aptian.
 Environment: It lived in shallow marine water.

Subfamily Miliolinellinae Vella, 1957
 Genus *Pseudotriloculina* Cherif, 1970
Pseudotriloculina sp.

Stratigraphic range: Lower Cretaceous – Recent.
 Environment: Shallow marine environment. (www.mindat.org)

Suborder Nubeculariina Jones in Griffith & Henfrey, 1875
 Superfamily Calcivertelloidea Loeblich & Tappan, 1964 nom. transl. Vachard, 2016
 Family Calcivertellidae Loeblich & Tappan, 1964
 Genus *Palaeonubecularia* Reitlinger, 1950
Palaeonubecularia gregaria (Wendt, 1969)

1969 *Tolypammina gregaria* n. sp.; Wendt, p. 186-188, pl. 22, figs. 2-4; text-fig 5.

Stratigraphic range: Lower Triassic – Rhaetian (Haas et al., 2019, Appendix).

Environment: Encrusting or sessile buildup forming foraminifera. Its occurrence indicates low sedimentation rate and mesotrophic conditions (Rodríguez - Martínez et al., 2011).

Suborder Nubeculariina Jones in Griffith & Henfrey, 1875
Superfamily Nubecularioidea Jones in Griffith & Henfrey, 1875
Family Nubeculariidae Jones in Griffith & Henfrey, 1875
Subfamily Nodophthalmidiinae Cushman, 1940
Genus *Gheorghiana* Loeblich & Tappan, 1986
Gheorghiana vujisici (Urošević & Gaździcki, 1977)

1977. *Nodobacularia vujisici* nov. sp.; Urošević & Gaździcki, p. 97, pl. 1, figs. 1-6.

Stratigraphic range: upper Anisian – Norian (Mirăuță et al., 1993; Oselj, 2023).
Environment: It preferred the carbonate platform environment.

Family Ophthalmidiidae Wiesner, 1920
Genus *Ophthalmidium* Kübler & Zwingli, 1870
Ophthalmidium mg. *marginatum* (Wisniowski, 1890)

1890. *Spiroloculina carinata* KÜBL. et Zw. var. *marginata* mihi; Wisniowski, p. 188, pl. I, figs. 5. a-d.

Stratigraphic range: Bajocian – Kimmeridgian.
Environment: It lived in the different part of the carbonate ramp. (Clerc, 2005)

Genus *Spirothalmidium* Cushman, 1927
Spirothalmidium mg. *kaptarenkoae* Danitch, 1971

1971. *Spirothalmidium* mg. *kaptarenkoae* Danitz, sp. nov.; Danitch, in Romanov & Danitch, p. 132, pl. XXXI, figs. 1 a, 6; 2 a, 6; 3 a 6, 4, a, 6; 5-7.

Stratigraphic range: upper Bajocian – Callovian.
Environment: It lived in the inner and middle part of the shallow marine ramp. (Clerc, 2005)

Order Spirillinida Hohenegger & Piller, 1975
Suborder Ammodiscina Mikhalevich, 1980
Superfamily Ammodiscoidea Reuss, 1862
Family Ammodiscidae Reuss, 1862
Subfamily Usbekistaniinae Vyalov, 1968
Genus *Glomospira* Rzehak, 1885
Glomospira sp.

Stratigraphic range: Lower Cambrian – Holocene (Kaminski et al., 2008).
Environment: The specimens of this genus live from the deep to very shallow marine environment. These can tolerate the changes of the salinity.

Order Involutinida Hohenegger & Piller, 1977
Family Involutinidae Bütschli, in Bronn, 1880
Subfamily Aulotortinae Zaninetti, 1984
Genus *Angulodiscus* Kristan, 1957
Angulodiscus minutus Koehn-Zaninetti, 1969

1969. *Involutina minuta*, n. sp.; Koehn-Zaninetti, text-fig. 40.

Stratigraphic range: Carnian – Rhaetian (Trifonova, 1993).
Environment: It lived in shallow marine carbonate platform.

Subfamily Triasininae Loeblich & Tappan, 1986
Genus *Paratriasina* He, 1980,
Paratriasina sp.

Stratigraphic range: uppermost Anisian – Carnian (Peyrotti et al., 2020).
Environment: It lived in shallow marine carbonate platform.

Family Trocholinidae Kristan-Tollmann, 1963, emend. Rigaud et al., 2013
Subfamily Coscinoconinae Schlagintweit, Rigaud & Wilmsen, 2015
Genus *Coscinoconus* Leupold in Leupold & Bigler 1936
Coscinoconus alpinus Leupold in Leupold & Bigler 1936

1936. *Coscinoconus alpinus* n. g., n. sp.; Leupold in Leupold & Bigler, 610, pl. XVIII, figs. 1–11.

Stratigraphic range: Bathonian – Cenomanian (Rigaud et al., 2013)
Environment: The genus *Coscinoconus* lived in near-reefal and platform-margin environments (Schlagintweit et al., 2014).

Coscinoconus campanellus (Arnaud-Vanneau et al., 1988)

1988. *Trocholina campanella* n. sp.; Arnaud-Vanneau et al., p. 359, fig. 2, pl. I, figs. 2-3, pl. II, figs 9-15.

Stratigraphic range: Berriasian – Valanginian (Rigaud et al., 2013).
Environment: The genus *Coscinoconus* lived in near-reefal and platform-margin environments (Schlagintweit et al., 2014).

Coscinoconus elongatus Leupold in Leupold and Bigler, 1936

1936. *Coscinoconus elongatus* n. g., n. sp.; Leupold in Leupold and Bigler, 617, pl. XVII, figs. 12-14.

Stratigraphic range: Tithonian – Valanginian (Rigaud et al., 2013).
Environment: The genus *Coscinoconus* lived in near-reefal and platform-margin environments (Schlagintweit et al., 2014).

Coscinoconus molestus (Gorbachik, 1959)

1959. *Trocholina molesta* Gorbachik, sp. nov.; Gorbachik, p. 79, pl. IV, 1 IV, 1 a, b, 2.

Stratigraphic range: Berriasian – Barremian (Rigaud et al., 2013).
Environment: The genus *Coscinoconus* lived in near-reefal and platform-margin environments (Schlagintweit et al., 2014).

Subfamily Trocholininae Kristan-Tollmann, 1963, emend. Rigaud et al., 2013
Genus *Frentzenella* *Frentzenella* Rigaud, Blau, Martini & Rettori, 2013
Frentzenella involuta Mantsurova in Mantsurova and Gorbachik, 1982

1982 *Trocholina involuta* Mantsurova, sp. nov.; Mantsurova in Mantsurova and Gorbachik, p. 127, pl. III, fig. 7; pl. IV. figs. 3-

Stratigraphic range: Tithonian – Valanginian (Rigaud et al., 2013).
Environment: The genus *Frentzenella* lived carbonate platform environment.

Frentzenella sp.

Stratigraphic range: Norian Cenomanian (Rigaud et al., 2013).

Environment: The genus *Frentzenella* lived carbonate platform environment.

Genus *Trocholina* Paalzow, 1922

Trocholina conica (Schlumberger, 1898)

1898. *Involutina conica* Schlumb. n. sp.; Schlumberger, p. 151, figs. 1-3.

Stratigraphic range: Bathonian–Kimmeridgian (Rigaud et al., 2013).

Environment: The genus *Trocholina* lived carbonate platform environment.

Family Ventrolaminidae Weynschenk, 1950

Genus *Protopeneroplis* Weynschenk, 1950

Protopeneroplis striata Weynschenk, 1950

1950. *Protopeneroplis striata* n.sp.; Weynschenk, p. 13, pl. 2, figs. 12–14.

Stratigraphic range: Aalenian – upper Tithonian.

Environment: This species is typical for the outer platform ooid shoal environment. (Görög in Haas et al., 2019, Appendix).

Order Spirillinida Hohenegger & Piller, 1975

Suborder Spirillinina Hohenegger & Piller, 1975

Family Spirillinidae Reuss & Fritsch, 1861

Genus *Spirillina* Ehrenberg, 1843

Spirillina italica Dieni & Massari, 1966

pars 1966. *Spirillina italica* n. sp.; Dieni & Massari, p. 166, pl. VII, figs. 20 a, b, c, non 19a, b, c, 21 a, b, c.

Stratigraphic range: Valanginian – Albian. Originally it is described from the Valanginian, but Kuznetsova et al. (1996) form the Aptian. In our material it appeared in the upper Aptian.

Remarks. The specimen shown in Figures 19a, b, c has a rectangular perimeter that differs from the holotype. The specimen shown in 21. a, b, c. has an asymmetric periphery and several whorls, and the diameter of the tube-shaped chamber hardly changes during ontogenesis.

Spirillina mg. *kuebleri* Mjatluk, 1953

1953. *Spirillina kuebleri* n. sp.; Mjatluk, 1953, p. 27, pl. I, figs. 6, 7.

Stratigraphic range: Callovian – Oxfordian (Kuznetsova et al., 1996); Lower Berriasian (Varlamova, 1990). In our material it appeared in the upper Tithonian.

Environment: It lived in deep water environment or on pelagic sea mounts.

Spirillina mg. *minima* Schacko, 1892

1892. *Spirillina minima* n. sp.; Schacko, p. 159, pl. 1, figs. 4 a, b.

Stratigraphic range: Berriasian – Albian (bforams@mikrotax website).

Environment. It lived in deep water environment or on pelagic sea mounts.

Spirillina sp. B

Description. The test consists of two chambers. The proloculus is sphaerical. The second chamber is coiled in a planispirally and gradually enlarges throughout, except for the last whorl. The last whorl is nearly twice as wide as the previous one and is asymmetrically located relative to the plane of coiling.

Stratigraphic range. It appeared in the upper Tithonian of the Brložan section.

Environment: The associated microfossils (e.g., radiolarians, calpionellids) refer pelagic-hemipelagic environment.

Subfamily Neotrocholinae Rigaud, Schlagintweit & Bucur, 2018

Genus *Ichnusella* Dieni & Massari, 1966

Ichnusella infragranulata (Noth, 1951)

1951. *Trocholina infragranulata* n. sp.; Noth, p. 69, pl. 1, figs. 32 a, b, c.

Stratigraphic range: Kimmeridgian to Lower Cretaceous (Valanginian/Hauterivian?) (Rigaud et al., 2018).

Environment: This species lived in carbonate platform environment.

Genus *Neotrocholina* Reichel, 1956

Neotrocholina valdensis Reichel, 1955

1955. *Neotrocholina valdensis* n. sp.; Reichel, p. 404, pl. XVI, figs. 1-5, 7; fig. 5.

Stratigraphic range: ?Tithonian ?Berriasian; Valanginian (?lower) Aptian. (Rigaud et al., 2018).

Environment: Shallow marine carbonate platform.

Class Nodosariata Mikhalevich, 1993 emend. Rigaud et al., 2015

Subclass Nodosariana Mikhalevich, 1993

Order Nodosariida Calkins, 1926

Superfamily Colanielloidea Fursenko in Rauzer-Chernousova & Fursenko, 1959

Family Geinitzinidae Bozorgnia, 1973

Genus *Howchinella* Palmieri, 1985

Howchinella woodwardi (Howchin, 1895)

1895. *Fronicularia Woodwardi*, sp. nov.; Howchin, p. 197 pl. X, figs. 4-6.

Stratigraphic range: Lower Permian – Triassic (Upper Jurassic?).

Environment: This species preferred the shallow, lower energy environment, mostly in the mud facies. (Görög in Haas et al., 2019 Appendix)

Order Polymorphinida Mikhalevich 1980

Suborder Polymorphinina Nodosariana

Family Polymorphinidae d'Orbigny, 1839

Subfamily Webbinellinae Rhumbler, 1904

Genus *Bullopore* Quenstedt, 1856

Bullopore sp.

Stratigraphic range: Jurassic-Cretaceous (Loeblich & Tappan, 1988).

Environment: This attached foraminifera lived in pelagic-hemipelagic environment.

Order Rotaliida Lankester, 1885

Superfamily Discorbacea Ehrenberg, 1838

Family Discorbidae Ehrenberg, 1838

Genus *Mohlerina* Bucur, Senowbari-Daryan & Abate, 1996

Mohlerina basiliensis (Mohler, 1938).

1938. „*Conicospirillina*“ *basiliensis* n. sp.; Mohler, p. 27, pl. 4, fig. 5.

Stratigraphic range: uppermost Callovian – Valanginian.

Environment. This species prefers the outer platform, threshold facies. (Schlagintweit et al., 2005)

Suborder Globigerinina Delage & Hérouard, 1896

Superfamily Globigerinoidea Carpenter, Parker & Jones, 1862

Genus *Laeviella* Huber, Petrizzo & Falzoni, 2022

Laeviella bentonensis (Morrow, 1934)

1934. *Anomalina bentonensis* Morrow, n. sp.; Morrow, p. 201, pl. 30, figs. 4a-b.

Stratigraphic range: lower Albian – Cenomanian (T. primula Zone – R. cushmani Zone).

Superfamily Planomalinoidea Bolli, Loeblich & Tappan, 1957

Family Planomalinidae Bolli, Loeblich & Tappan, 1957

Genus *Planomalina* Loeblich & Tappan, 1946

Planomalina buxtorfi (Gandolfi, 1942)

1942. *Planulina buxtorfi* n. sp.; Gandolfi, p. 103, pl. III, fig. 7, pl. V, figs. 4-5; pl. VI, figs. 1-3; pl. VIII, fig. 8; pl. IX, fig. 2, pl. XII, fig. 2, pl. XIII, figs. 13, 15; Text-fig. 35, 1-11.

Stratigraphic range: Upper Albian (P. appenninica Zone).

Superfamily Rotaliporoidea Sigal, 1958

Family Favusellidae Michael, 1973

Genus *Favusella* Michael, 1973

Favusella washitensis (Carsey, 1926)

1926. *Globigerina washitensis* n. sp.; Carsey, p. 44, pl. 7, fig. 10; pl. 8, fig. 2.

Stratigraphic range: Upper Aptian – lower Cenomanian (P. rohri Zone – mid R. cushmani Zone).

Family Hedbergellidae Loeblich & Tappan, 1961

Genus *Clavihedbergella* Banner & Blow, 1959

Clavihedbergella simplex (Morrow, 1934)

1934. *Hastigerinella simplex* n. sp.; Morrow, p. 198, pl. 30, figs. 6a,b.

Stratigraphic range: Lowermost Albian – Coniacian (mid M. renilaevis Zone – D. concavata Zone).

Genus *Microhedbergella* Huber & Leckie, 2011

Microhedbergella rischi (Moullade, 1974)

pars 1966. *Hedbergella* (*Hedbergella*) sp., aff. *infracretacea* (Glaessner, 1937); Moullade, p. 89, pl. 8, figs. 6-9; non pl. 8, figs. 10-16.

1974. *Hedbergella rischi* n. sp.; Moullade, p. 1816, note (15).

Stratigraphic range: Lower Albian – Upper Albian (at base of M. rischi Zone – within P. ticinensis Zone).

Genus *Muricohedbergella* Huber & Leckie, 2011

Muricohedbergella delrioensis (Carsey, 1926)

1926. *Globigerina cretacea* var. *del rioensis* n. var.; Carsey, p. 43.

1976. *Hedbergella delrioensis* (Carsey, 1926); Masters, p. 328, pl. 2, figs. 1-3.

Stratigraphic range: Upper Albian – lower Cenomanian (P. appenninica Zone – H. helvetica Zone).

Muricohedbergella planispira (Tappan, 1940)

1940. *Globigerina planispira* Tappan, n. sp.; Tappan, p. 122, pl. 19, figs. 12 a-c.

Stratigraphic range: Upper Albian – lowermost Turonian (P. ticinensis Zone – H. helvetica Zone).

Family Rotaliporidae Sigal, 1958

Subfamily Rotaliporinae Sigal, 1958

Genus *Pseudothalmaninella* Wonders, 1977 emend. González-Donoso et al., 2007

Pseudothalmaninella subticinensis (Gandolfi, 1957)

1957. *Globotruncana (Thalmaninella) ticinensis subticinensis* Gandolfi, n. subsp.; Gandolfi, p. 59, pl. 8, figs. 1a-c.

Stratigraphic range: Middle Albian – uppermost Albian (P. subticinensis Zone – P. appenninica Zone).

Genus *Thalmaninella* Sigal, 1948

Thalmaninella praebalernaensis (Sigal, 1969)

1969. *Rotalipora praebalernaensis*, n. sp.; Sigal, p. 634, pl. I, figs. 1-8.

1969. *Rotalipora praebalernaensis* forma *evoluta* nov.; Sigal, p. 634, pl. I, figs. 9-12.

Stratigraphic range: Middle Albian – lowermost Cenomanian (P. subticinensis Zone – T. globotruncanoides Zone).

Subfamily Ticinellinae Longoria, 1974

Genus *Biticinella* Sigal, 1956

Biticinella breggiensis (Gandolfi, 1942)

1942. *Anomalina breggiensis* n. sp.; Gandolfi, p. 102, pl. III, fig. 6; pl. V., fig. 3; pl. IX. fig. 1; pl. XIII. figs. 7-8; text-fig. 34 /1-4.

Stratigraphic range: Upper Albian (T. praeticinensis Zone – P. appenninica Zone).

Genus *Ticinella* Reichel, 1950

Ticinella madecassiana Sigal, 1966

1966. *Ticinella madecassiana* n. sp.; Sigal, p. 197, pl. III. figs. 7 ab-10 ab.

Stratigraphic range: Lower Albian – upper Albian (T. madecassiana Zone – P. appenninica Zone).

Ticinella praeticinensis Sigal, 1966

1966. *Ticinella praeticinensis* n. sp.; Sigal, p. 195, pl. II, figs. 3 ab-8 ab; pl. III, figs. 1 ab-6 ab.

Stratigraphic range: Middle Albian – upper Albian (T. praeticinensis Zone – P. appenninica Zone).

Ticinella primula Luterbacher, in Renz, Luterbacher & Schneider, 1963

1963. *Ticinella primula* n. sp.; Luterbacher, in Renz, Luterbacher & Schneider, p. 1085, fig. 4.

Stratigraphic range: Lower Albian – upper Albian (T. primula Zone – P. appenninica Zone).

Ticinella raynaudi Sigal, 1966

1966. *Ticinella raynaudi* n. sp.; Sigal, p. 200, pl. V, figs. 10 ab; pl. VI, figs. 1 ab-13 ab.

Stratigraphic range: Middle Albian – upper Albian (T. praeticinensis Zone – P. appenninica Zone).

Ticinella roberti (Gandolfi, 1942)

1942. *Anomalina roberti* n. sp.; Gandolfi, p. 100, pl. 2, fig. 2, pl. 4, figs. 4-7, 20; text fig 32.

Stratigraphic range: lower Albian – upper Albian (within T. primula Zone – within P. appenninica Zone).

Porifera

Phylum Porifera Grant, 1836

Class Demospongiae Sollas, 1885

Order Axinellidea Lévi, 1953

Family Cladocoropsidae Termier, Termier & Vachard, 1977

Genus *Cladocoropsis* Felix, 1907

Cladocoropsis mirabilis Felix, 1907

1907. *Cladocoropsis mirabilis* n. gen. n. sp.; Felix, p. 3, figs. 1-5.

Stratigraphic range: Lower Kimmeridgian – Tithonian.

Environment. Normal marine inner platform. (Hudson, 1953)

Ordo Sphinctozoa Steinmann, 1882

Superfamily Porata Seilacher, 1962

Family Salzburgiidae Senowbary-Daryan and Schäfer, 1979

Genus *Salzburgia* Senowbary-Daryan and Schäfer, 1979

Salzburgia ?variabilis Senowbary-Daryan and Schäfer, 1979

1979. *Salzburgia ?variabilis* n. sp.; Senowbary - Daryan and Schäfer, p. 19, pl. 1, figs. 1-2; pl. 3, figs. 1, 5; pl. 4, figs. 2, 3; pl. 5; fig. 4.

Stratigraphic range: Rhaetian.

Environment: Reef-dweller form. (Görög in Haas et al., 2019, Appendix)

Class Polychaeta Grube, 1850

Subclass Sedentaria Lamarck, 1818

Infraclass Canalipalpata Rouse & Fauchald, 1997

Order Sabellida Levinsen, 1883

Family Serpulidae Rafinesque, 1815

Genus *Carpathiella* Misík, Soták & Ziegler, 1999

Carpathiella triangulata Misík, Soták & Ziegler, 1999

1999. *Carpathiella triangulata* nov. spec.; Misík et al., p. 309, pl. II, figs. 3-9.

2003. *Carpathiella triangulata* Misík, Soták and Ziegler, 1999; Schlagintweit et al., p. 95, fig. 2-3, pl. 4, figs. 4-12

Stratigraphic range: Previously only known from the Oxfordian – Oligocene.

Environment: This form appears in upper slope, patch-reefs and back reef facies.

Tunicata

Phylum Chordata Haeckel, 1874

Subphylum Tunicata Lamarck, 1816

Class Ascidiacea Blainville, 1824

Order Aplousobranchia Lahille, 1886

Family Didemnidae Giard, 1872

Genus *Didemnoides* Bonet & Benveniste-Velasquez, 1971

Didemnoides moreti (Durand Delga, 1957)

1957. *Stomiosphaera moreti* n. sp.; Durand Delga, p. 163, pl. I, fig. 5; Text-fig. 5c.

1978. *Didemnoides moreti* (Durand Delga, 1957); Mišík & Borza, p. 312, pl. II, figs. 1-19; pl. Ill, figs. 1-9.

Stratigraphic range: Carnian – middle Albian (Mišík & Borza, 1978).

Environment: This didemnid ascidian prefers shallow marine less-agitated water with hard substrates (Kietzmann, 2024).

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