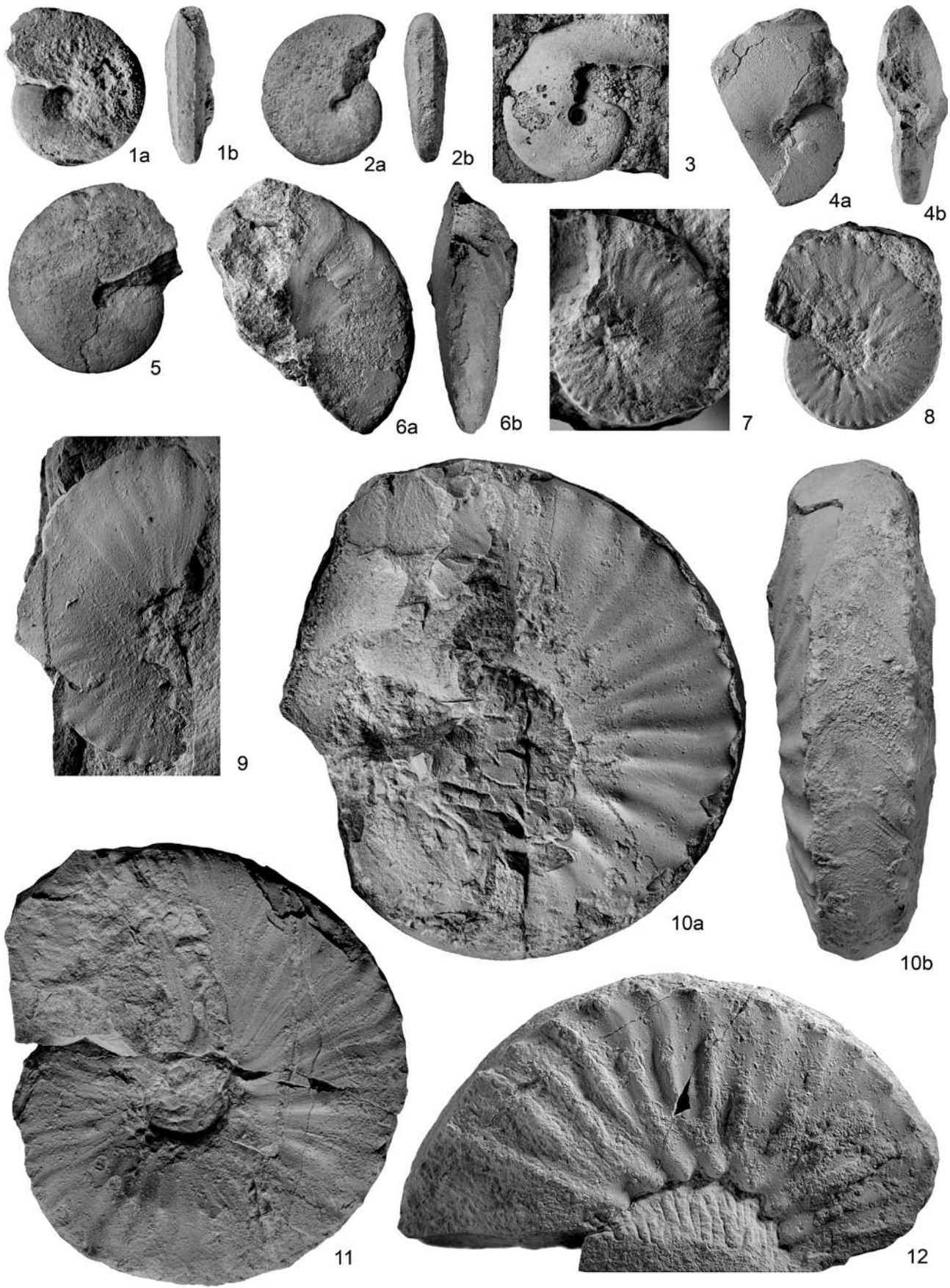


# Plates

### Plate I

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV.

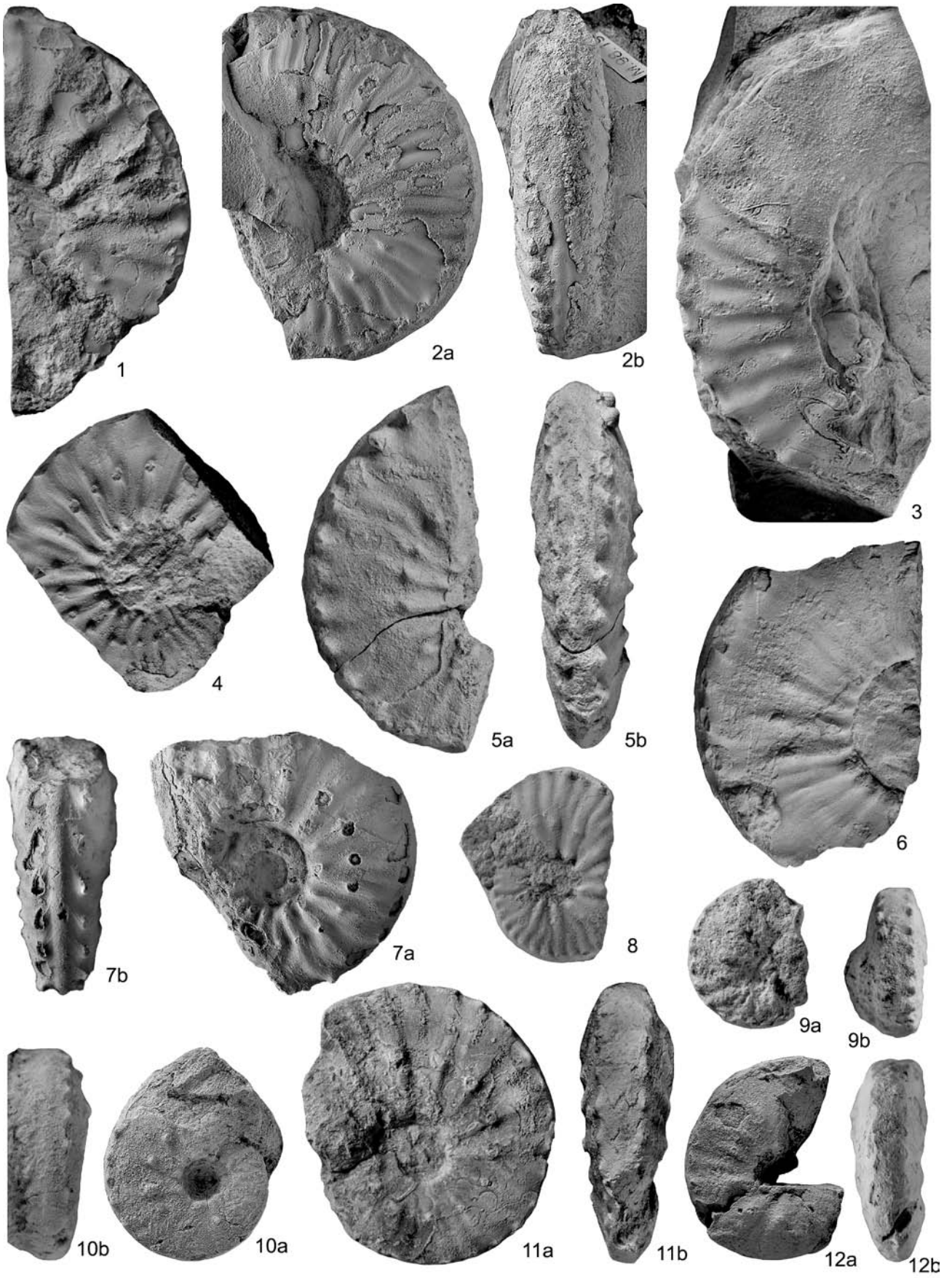
1. *Norites gondola* (MOJSISOVICS, 1869) — INV 2017.136.1., Mencshely I, Bed 8, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
2. *Norites gondola* (MOJSISOVICS, 1869) — INV 2017.137.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
3. *Norites gondola* (MOJSISOVICS, 1869) — INV 2017.138.1., Mencshely I, loose, Reitzi Zone, Reitzi Subzone (?); lateral view.
4. *Norites gondola* (MOJSISOVICS, 1869) — INV 2017.139.1., Felsőörs, Bed 99, Trinodosus Zone, Pseudohungaricum Subzone; a: lateral view, b: ventral view.
5. *Norites gondola* (MOJSISOVICS, 1869) — INV 2017.140.1., Szentbékállá, loose, Trinodosus Zone (?) lateral view.
6. *Beyrichites* cf. *reuttensis* (BEYRICH, 1867) — INV 2017.141.1., Szentantalfa, Bed 1, Trinodosus Zone, Pseudohungaricum Subzone; a: lateral view, b: ventral view.
7. *Lardaroceras barrandei* (MOJSISOVICS, 1882) — INV 2017.142.1., Felsőörs, Bed 91, Trinodosus Zone, Camunum Subzone; lateral view.
8. *Lardaroceras barrandei* (MOJSISOVICS, 1882) — INV 2017.143.1., Felsőörs, Bed 99, Trinodosus Zone, Pseudohungaricum Subzone; lateral view.
9. *Lardaroceras krystyni* BALINI, 1992 — INV 2017.144.1., Felsőörs, Bed 93, Trinodosus Zone, Camunum Subzone; lateral view.
10. *Lardaroceras barrandei* (MOJSISOVICS, 1882) — M.98.4, Vörösberény, Bed 18, Trinodosus Zone, Camunum Subzone; a: lateral view, b: ventral view.
11. *Lardaroceras barrandei* (MOJSISOVICS, 1882) — M.98.5, Vörösberény, Bed 17, Trinodosus Zone, Camunum Subzone; lateral view.
12. *Lardaroceras pseudohungaricum* BALINI, 1992 — M.98.18, Felsőörs, Bed 97, Trinodosus Zone, Pseudohungaricum Subzone; lateral view.



## Plate II

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

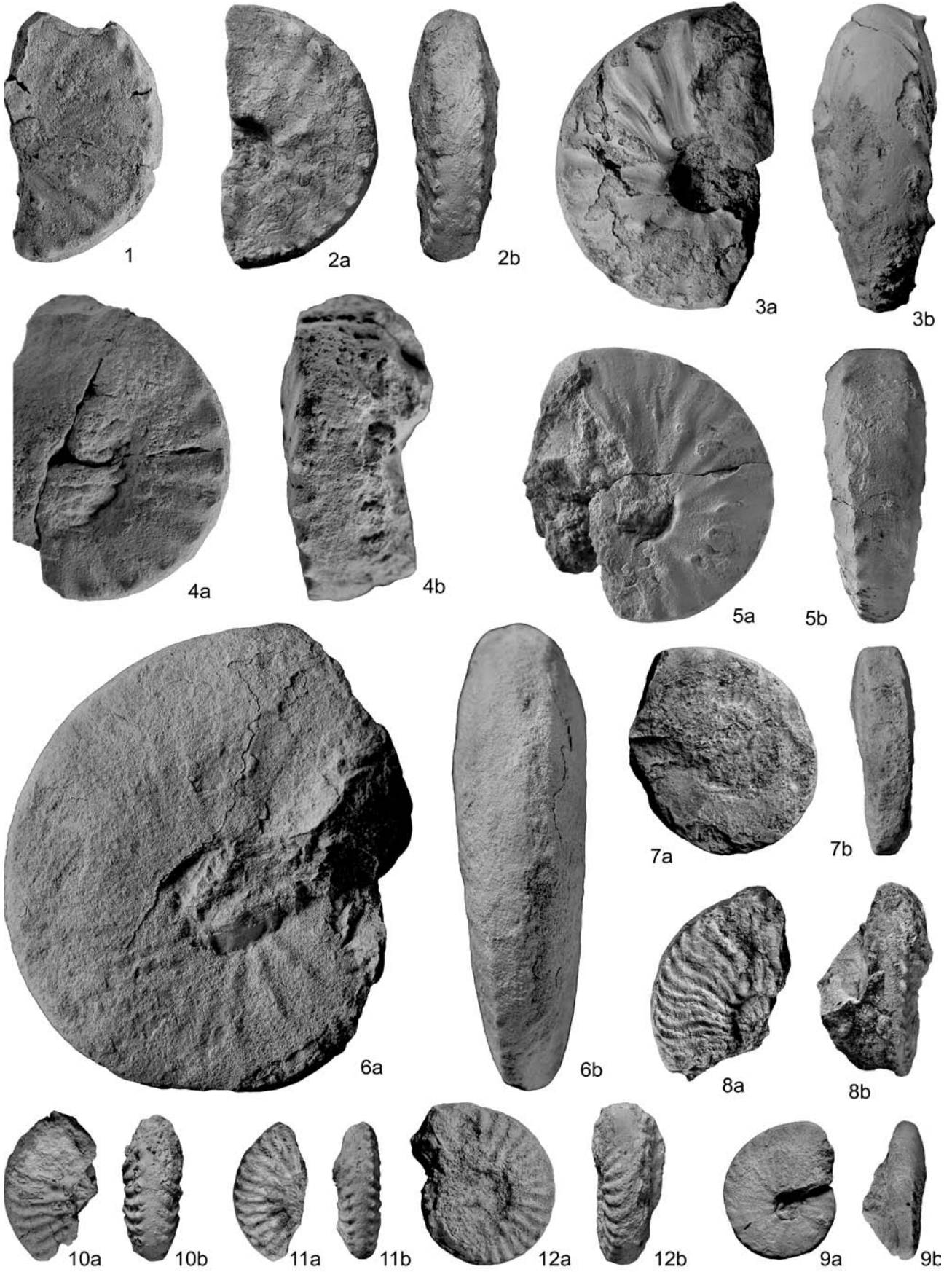
1. *Lardaroceras pseudohungaricum* BALINI, 1992 — M.98.168A, Vászoly, Trench P-11/a, Bed 5, Trinodosus Zone, Pseudohungaricum Subzone; lateral view.
2. *Lardaroceras pseudohungaricum* BALINI, 1992 — M.98.19, Felsőörs, Bed 99, Trinodosus Zone, Pseudohungaricum Subzone; a: lateral view, b: ventral view.
3. *Lardaroceras pseudohungaricum* BALINI, 1992 — INV 2017.145.1., Felsőörs, Bed 99, Trinodosus Zone, Pseudohungaricum Subzone; lateral view.
4. *Lardaroceras pseudohungaricum* BALINI, 1992 — M 2001.26., Felsőörs, Bed 100/E, Reitzi Zone, Felsőeoersensis Subzone; lateral view.
5. *Lardaroceras pseudohungaricum* BALINI, 1992 — INV 2017.146.1., Felsőörs, Bed 100/E, Reitzi Zone, Felsőeoersensis Subzone; a: lateral view, b: ventral view.
6. *Lardaroceras pseudohungaricum* BALINI, 1992 — INV 2017.147.1., Vörösberény, Bed 6, Reitzi Zone, Felsőeoersensis Subzone; lateral view.
7. *Lardaroceras pseudohungaricum* BALINI, 1992 — T.1666., Felsőörs, Reitzi Zone, Felsőeoersensis Subzone; a: lateral view, b: ventral view. Original specimen figured by MOJSISOVICS (1882, pl. XXX, fig. 19) as "*Ceratites hungaricus*".
8. *Paraceratites* cf. *elegans* (MOJSISOVICS, 1882) — INV 2017.148.1., Felsőörs, Bed 90, Trinodosus Zone, Camunum Subzone; lateral view.
9. *Paraceratites trinodosus* (MOJSISOVICS, 1882) — INV 2017.149.1., Felsőörs, Bed 84/D, Trinodosus Zone, Trinodosus Subzone; a: lateral view, b: ventral view.
10. *Paraceratites trinodosus* (MOJSISOVICS, 1882) — INV 2017.150.1., Felsőörs, Bed 84/E, Trinodosus Zone, Trinodosus Subzone; a: lateral view, b: ventral view.
11. *Paraceratites trinodosus* (MOJSISOVICS, 1882) — M.98.8, Vörösberény, Bed 29, Trinodosus Zone, Trinodosus Subzone; a: lateral view, b: ventral view.
12. *Paraceratites trinodosus* (MOJSISOVICS, 1882) — INV 2017.151.1., Felsőörs, Bed 84/F, Trinodosus Zone, Trinodosus Subzone; a: lateral view, b: ventral view.



### Plate III

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

1. *Paraceratites trinodosus* (MOJSISOVICS, 1882) — INV 2017.152.1., Felsőörs, Bed 84/E, Trinodosus Zone, Trinodosus Subzone; lateral view.
2. *Paraceratites trinodosus* (MOJSISOVICS, 1882) — INV 2017.153.1., Vörösberény, Bed 29, Trinodosus Zone, Trinodosus Subzone; a: lateral view, b: ventral view.
3. *Paraceratites trinodosus* (MOJSISOVICS, 1882) — M.87.033, Monoszló, loose, Trinodosus Zone; a: lateral view, b: ventral view.
4. *Paraceratites* cf. *rothi* (MOJSISOVICS, 1882) — INV 2017.154.1., Felsőörs, Bed 84/E, Trinodosus Zone, Trinodosus Subzone; a: lateral view, b: ventral view.
5. *Paraceratites rothi* (MOJSISOVICS, 1882) — T.838., Felsőörs, Trinodosus Zone; a: lateral view, b: ventral view. Holotype figured by MOJSISOVICS (1882, pl. IX, fig. 7.) as “*Ceratites Rothi*”.
6. *Semiornites* cf. *aviticus* (MOJSISOVICS, 1882) — INV 2017.155.1., Szentkirályszabadja, Bed 20, Trinodosus Zone, Pseudohungaricum Subzone; a: lateral view, b: ventral view.
7. *Semiornites* cf. *cordevolicus* (MOJSISOVICS, 1882) — INV 2017.156.1., Vörösberény, Bed 27, Trinodosus Zone, Trinodosus Subzone; a: lateral view, b: ventral view.
8. *Semiornites* ? cf. *falcifer* (HAUER, 1896) — INV 2017.157.1., Mentshely II, Bed 9, Reitzei Zone, Felsőeoersensis Subzone; a: lateral view, b: ventral view.
9. *Semiornites* cf. *cordevolicus* (MOJSISOVICS, 1882) — INV 2017.158.1., Vörösberény, Bed 27, Trinodosus Zone, Trinodosus Subzone; a: lateral view, b: ventral view.
10. *Asseretoceras camunum* (ASSERETO, 1963) — M.89.187A, Vászoly, Trench P-11/a, Bed 3, Trinodosus Zone, Camunum Subzone; a: lateral view, b: ventral view.
11. *Asseretoceras camunum* (ASSERETO, 1963) — M.89.187B, Vászoly, Trench P-11/a, Bed 3, Trinodosus Zone, Camunum Subzone; a: lateral view, b: ventral view.
12. *Asseretoceras camunum* (ASSERETO, 1963) — M.89.52, Vöröstó, loose, Trinodosus Zone, Camunum Subzone (?); a: lateral view, b: ventral view.

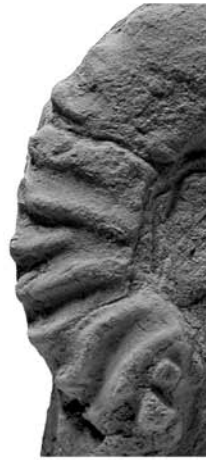


**Plate IV**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV.

1. *Asseretoceras camunum* (ASSERETO, 1963) — INV 2017.159.1., Felsőörs, Bed 90, Trinodosus Zone, Camunum Subzone; lateral view.
2. *Asseretoceras camunum* (ASSERETO, 1963) — INV 2017.160.1., Felsőörs, Bed 99/C, Trinodosus Zone, Pseudohungaricum Subzone; lateral view.
3. *Asseretoceras camunum* (ASSERETO, 1963) — INV 2017.161.1., Felsőörs, Bed 99/C, Trinodosus Zone, Pseudohungaricum Subzone; lateral view.
4. *Asseretoceras camunum* (ASSERETO, 1963) — INV 2017.162.1., Felsőörs, Bed 99/C, Trinodosus Zone, Pseudohungaricum Subzone; lateral view.
5. *Megaceratites* cf. *subnodosus* (MOJSISOVICS, 1882) — INV 2017.163.1., Vörösberény, Bed 28, Trinodosus Zone, Trinodosus Subzone; lateral view.
6. *Megaceratites* cf. *subnodosus* (MOJSISOVICS, 1882) — INV 2017.164.1., Szentantalfa, Bed 2/A, Trinodosus Zone, Camunum Subzone; a: lateral view, b: ventral view.
7. *Megaceratites* cf. *subnodosus* (MOJSISOVICS, 1882) — M.98.9, Vörösberény, Bed 27, Trinodosus Zone, Trinodosus Subzone; a: lateral view, b: ventral view.
8. *Megaceratites* cf. *subnodosus* (MOJSISOVICS, 1882) — M.89.168A, Vászoly, Trench P-11/a, Bed 5, Trinodosus Zone, Pseudohungaricum Subzone; a: lateral view, b: ventral view.





**Plate V**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV.

1. *Megaceratites* cf. *subnodosus* (MOJSISOVICS, 1882) — INV 2017.165.1., Felsőörs, Bed 84/B, Trinodosus Zone, Trinodosus Subzone; a: lateral view, b: ventral view.
2. *Megaceratites* ? cf. *friccensis* (ARTHABER, 1916) — M.98.87, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
3. *Kellnerites bosnensis* (HAUER, 1887) — M.98.6, Felsőörs, Bed 100/E, Reitzi Zone, Felsőeoersensis Subzone; a: lateral view, b: ventral view.
4. *Kellnerites bosnensis* (HAUER, 1887) — INV 2017.166.1., Mencshely I, Bed 16, Reitzi Zone, Felsőeoersensis Subzone; a: lateral view, b: ventral view.
5. *Kellnerites bosnensis* (HAUER, 1887) — INV 2017.167.1., Szentkirályszabadja, Bed 12, Reitzi Zone, Felsőeoersensis + Liepoldti Subzone; a: lateral view, b: ventral view.
6. *Kellnerites* cf. *bispinosus* (HAUER, 1896) — INV 2017.168.1., Felsőörs, Bed 100/E, Reitzi Zone, Felsőeoersensis Subzone; a: lateral view, b: ventral view.



1a



1b



2b



2a



3b



3a



6a



6b



4a



4b



5a

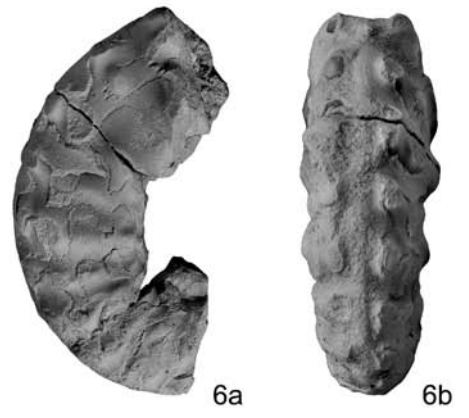
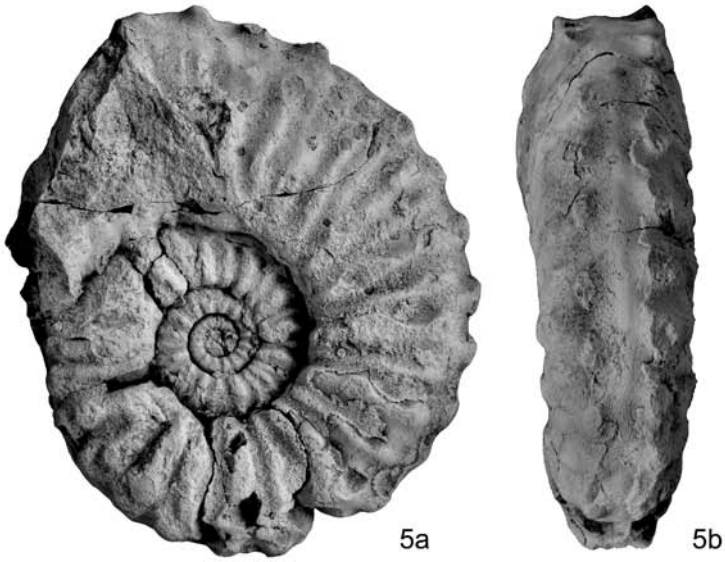
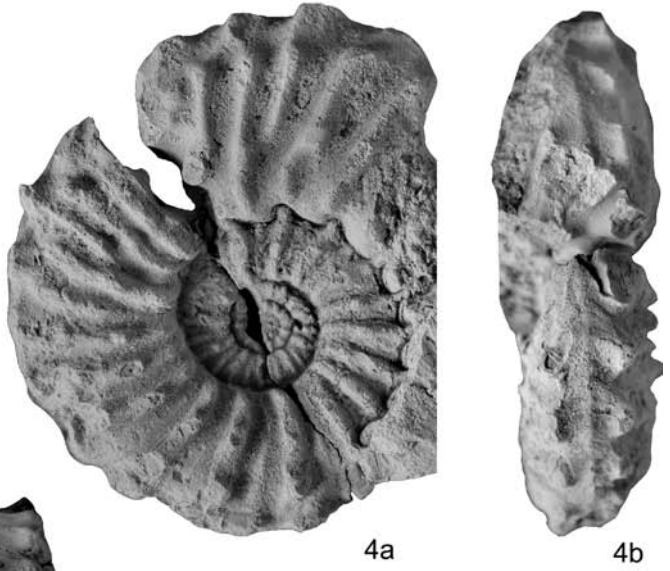
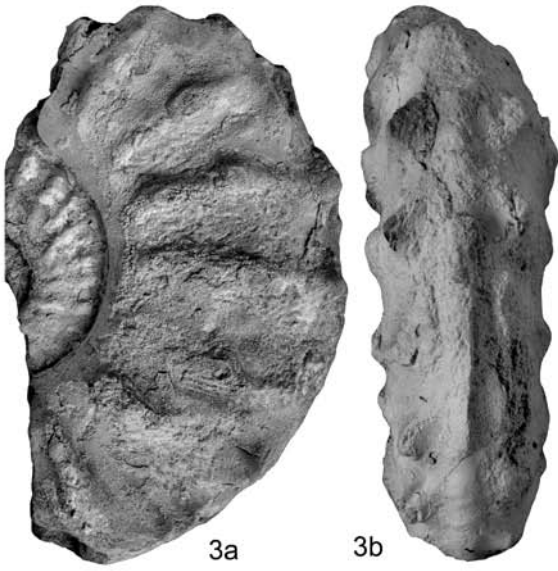
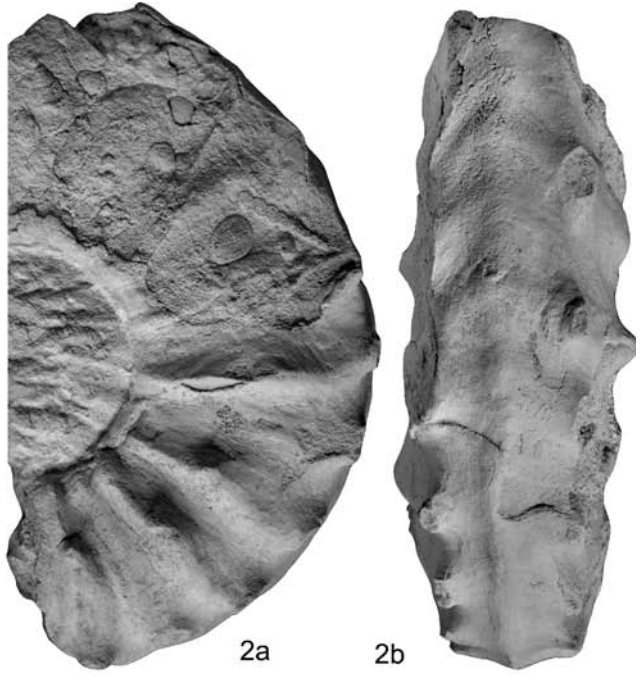
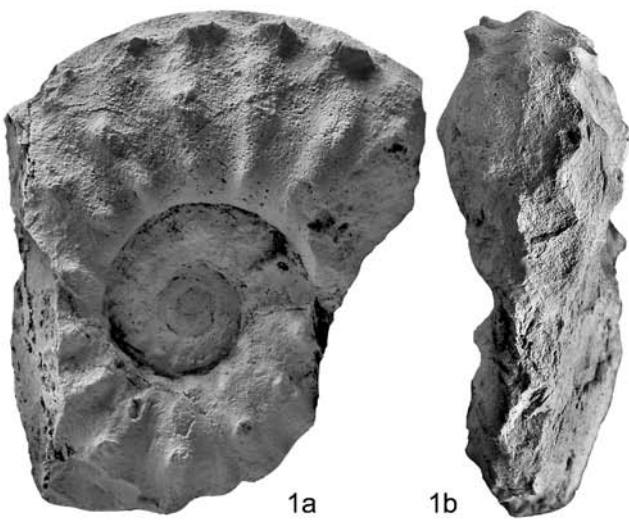


5b

**Plate VI**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

1. *Kellnerites felsoeoersensis* (STÜRZENBAUM, 1875) — T.694., Felsőörs, Reitzi Zone, Felsoeoersensis Subzone; a: lateral view, b: ventral view. Lectotype figured by STÜRZENBAUM (1875, pl. V, fig. 1) as “*Ceratites Felső-Örsensis* n. sp.” and by MOJŠISOVICS (1882, pl. XIII, fig. 1) as “*Ceratites Felső-Örsensis*”.
2. *Kellnerites felsoeoersensis* (STÜRZENBAUM, 1875) — M.98.11, Szentkirályszabadja, loose, Reitzi Zone, Felsoeoersensis Subzone (?); a: lateral view, b: ventral view.
3. *Kellnerites felsoeoersensis* (STÜRZENBAUM, 1875) — INV 2017.169.1., Vászoly, Shaft P-XV, Reitzi Zone, Felsoeoersensis Subzone (?); a: lateral view, b: ventral view.
4. *Epikellnerites angustecarinatus* (HAUER, 1896) — INV 2017.170.1., Mencshely, Bed 9, Reitzi Zone, Reitzi Subzone.
5. *Epikellnerites angustecarinatus* (HAUER, 1896) — INV 2017.171.1., Vászoly, Trench P-17, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view. Specimen figured by KOVÁCS et al. (1990, pl. III, fig. 4) as “*Protrachyceras reitzi* (BÖCKH), and alleged to come from Shaft P-XVIII.
6. *Epikellnerites angustecarinatus* (HAUER, 1896) — INV 2017.172.1., Vászoly, loose, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.



**Plate VII**

All figures are magnified twice unless otherwise indicated. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Geological and Paleontological Department, Hungarian Natural History Museum, under the inventory numbers prefixed by INV or PAL, and in the Museum of the Mining and Geological Survey of Hungary (Budapest), under the inventory number prefixed by T.

1. *Epikellnerites* cf. *angustecarinatus* (HAUER, 1896) — INV 2017.173.1., Vászoly, Trench P-17, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
2. *Epikellnerites* cf. *angustecarinatus* (HAUER, 1896) — INV 2017.174.1., Mencshely, loose, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
3. *Epikellnerites tamasi* n. sp. — Holotype, PAL 2017.10.1., Szentbékállá, loose, Reitzi Zone, Liepoldti Subzone (?); a: lateral view, b: ventral view.
4. *Epikellnerites* cf. *tamasi* n. sp. — Paratype, PAL 2017.11.1., Vászoly, Trench P-11/c, Reitzi Zone, Liepoldti Subzone (?); a: lateral view, b: ventral view.
5. *Epikellnerites* aff. *tamasi* n. sp. — T.863., Felsőörs, Reitzi Zone, Liepoldti Subzone (?); a: lateral view, b: ventral view. Original specimen figured by MOJSISOVICS (1882, pl. XXXIV, fig. 1) as “*Ceratites* nov. forma indet. aff. *hungarico*”.
6. *Epikellnerites vaszolyensis* n. sp. — Holotype, PAL 2017.12.1., Vászoly, Trench P-11/c, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.



1a



1b



3a



3b



2a



2b



2c



4a



4b



5a



5b



6a



6b

**Plate VIII**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or PAL.

1. *Epikellnerites vaszolyensis* n. sp. — Paratype, PAL 2017.13.1., Vászoly, Trench P-11/c, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
2. *Epikellnerites vaszolyensis* n. sp. — Paratype, M.98.14., Vászoly, loose, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
3. *Epikellnerites vaszolyensis* n. sp. — Paratype, PAL 2017.14.1., Vászoly, Trench P-11/c, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
4. *Epikellnerites vaszolyensis* n. sp. — Paratype, M.98.74., Mencshely I, Bed 8, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
5. *Epikellnerites vaszolyensis* n. sp. — Paratype, M.87.006., Szentbékállá, loose, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
6. *Epikellnerites vaszolyensis* n. sp. — Paratype, PAL 2017.15.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
7. *Epikellnerites vaszolyensis* n. sp. — Paratype, PAL 2017.16.1., Vászoly, Shaft P-XVIII, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view. Specimen figured by Kovács et al. (1990, pl. III, fig. 1) as “*Parakellnerites* sp. nov. 1”, and alleged to come from P-11/a).
8. *Epikellnerites vaszolyensis* n. sp. — Paratype, PAL 2017.17.1., Mencshely, loose, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.





1a



1b



2a



2b



3a



3b



5b



4a



4b



5a



6a



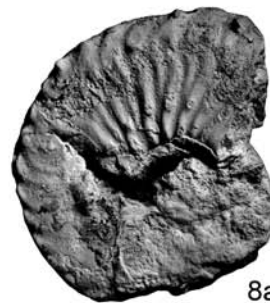
6b



7a



7b



8a



8b

### Plate IX

All figures are in natural size unless otherwise indicated. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by INV, or PAL, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

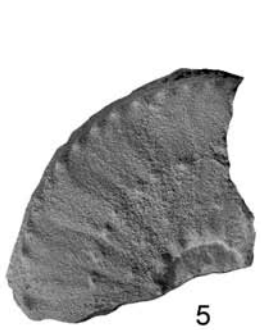
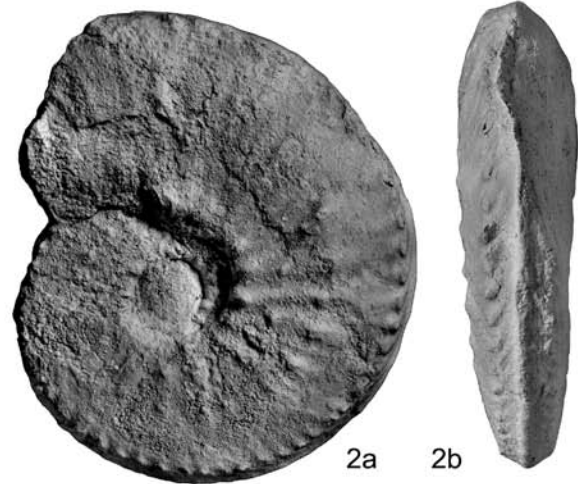
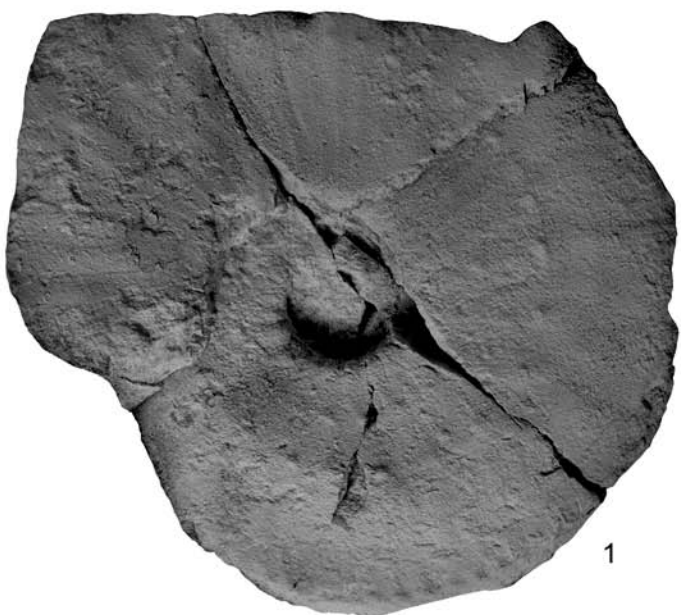
1. *Epikellnerites vaszolyensis* n. sp. — Paratype, PAL 2017.18.1., Vászoly, Shaft P-XVIII, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
2. *Epikellnerites vaszolyensis* n. sp. — Paratype, PAL 2017.19.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
3. *Epikellnerites pseudochohnokyi* n. sp. — Paratype, PAL 2017.22.1., Mencshely, loose, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
4. *Epikellnerites pseudochohnokyi* n. sp. — Holotype, PAL 2017.20.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
5. *Epikellnerites pseudochohnokyi* n. sp. — Paratype, PAL 2017.21.1., Mencshely, loose, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
6. *Epikellnerites spinatus* n. sp. — Holotype, PAL 2017.23.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
7. *Epikellnerites spinatus* n. sp. — Paratype, PAL 2017.24.1., Mencshely, loose, Reitzi Zone, Reitzi Subzone (?); lateral view.
8. *Hyparpadites liepoldti* (MOJŠISOVICS, 1882) — Lectotype, T.689., Felsőörs, Reitzi Zone, Liepoldti Subzone; a: lateral view, b, c: ventral views, d: magnified part of c. Lectotype figured by MOJŠISOVICS (1882, pl. VIII, fig. 1 and pl. IX, fig. 9) as “*Arpadites (Ceratites) Liepoldti*”.
9. *Hyparpadites liepoldti* (MOJŠISOVICS, 1882) — INV 2017.175.1., Szentkirályszabadja, Bed 16, Reitzi Zone, Felsőeoersensis + Liepoldti Subzone; a: lateral view, b: ventral view.
10. *Hyparpadites liepoldti* (MOJŠISOVICS, 1882) — INV 2017.176.1., Vászoly, Shaft P-XVIII, Reitzi Zone, Liepoldti Subzone (?); a: lateral view, b: ventral view.



**Plate X**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, unless otherwise indicated.

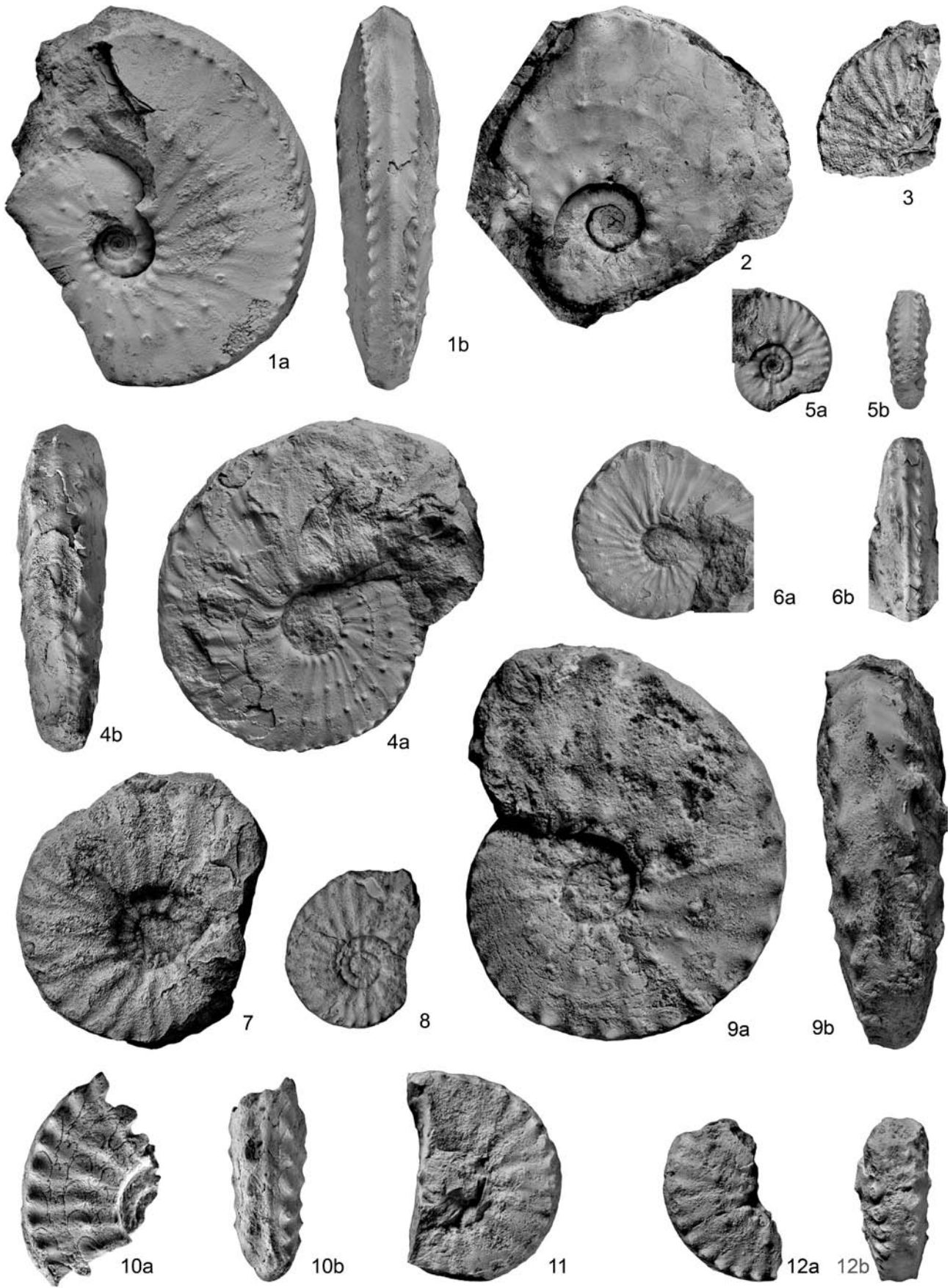
1. *Hyparpadites liepoldti* (MOJSISOVICS, 1882) — M.98.22, Felsőörs, Bed 102, Reitzi Zone, Liepoldti Subzone (?); lateral view..
2. *Hyparpadites liepoldti* (MOJSISOVICS, 1882) — INV 2017.177.1., Szentkirályszabadja, Bed 16, Reitzi Zone, Felsőeoersensis + Liepoldti Subzone; a: lateral view, b: ventral view.
3. *Hyparpadites liepoldti* (MOJSISOVICS, 1882) — In private collection of L. VARGA (Úny), Vászoly, Trench P-11/c, loose, Reitzi Zone, Liepoldti Subzone; lateral view.
4. *Hyparpadites liepoldti* (MOJSISOVICS, 1882) — INV 2017.178.1., Szentkirályszabadja, Bed 13, Reitzi Zone, Felsőeoersensis + Liepoldti Subzone; lateral view.
5. *Hyparpadites liepoldti* (MOJSISOVICS, 1882) — INV 2017.179.1., Szentkirályszabadja, Bed 16, Reitzi Zone, Felsőeoersensis + Liepoldti Subzone; lateral view.
6. *Hyparpadites* cf. *liepoldti* (MOJSISOVICS, 1882) — INV 2017.180.1., Sóly, Bed 11, Reitzi Zone, Avisianum Subzone; half of the specimen; a: lateral view, b: ventral view.
7. *Hyparpadites* aff. *liepoldti* (MOJSISOVICS, 1882) — M.89.136, Vászoly, Trench P-11/a, Bed 9, Reitzi Zone, Liepoldti Subzone; a: lateral view, b: ventral view.



## Plate XI

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by INV or PAL, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T., unless otherwise indicated.

1. *Hyparpadites liepoldti* (MOISISOVICS, 1882) — In private collection of K. TAMÁS (Kővágóörs), Szentkirályszabadja, loose, Reitzi Zone, Liepoldti Subzone (?); a: lateral view, b: ventral view.
2. *Hyparpadites liepoldti* (MOISISOVICS, 1882) — In private collection of K. TAMÁS (Kővágóörs), Szentkirályszabadja, loose, Reitzi Zone, Liepoldti Subzone (?); lateral view.
3. *Hyparpadites szaboi* n. sp. — Paratype, PAL 2017.27.1., Mencshely I, Bed 14, Reitzi Zone, Liepoldti Subzone; lateral view.
4. *Hyparpadites szaboi* n. sp. — Holotype, PAL 2017.25.1., Vászoly, Shaft P-XVII, Reitzi Zone, Liepoldti Subzone (?); a: lateral view, b: ventral view. Specimen figured by KOVÁCS et al. (1990, pl. III, fig. 2) as “*Parakellnerites* sp. nov. 2”.
5. *Parakellnerites* cf. *frauenfelderi* RIEBER, 1973 — T 2017.1.1., Vászoly, Shaft P-XVII, Reitzi Zone, Liepoldti Subzone (?); a: lateral view, b: ventral view.
6. *Hyparpadites szaboi* n. sp. — Paratype, PAL 2017.26.1., Vászoly, Shaft P-XVII, Reitzi Zone, Liepoldti Subzone (?); a: lateral view, b: ventral view.
7. *Parakellnerites frauenfelderi* RIEBER, 1973 — INV 2017.181.1., Szentkirályszabadja, Bed 14, Reitzi Zone, Felsőeoersensis + Liepoldti Subzone; lateral view.
8. *Parakellnerites frauenfelderi* RIEBER, 1973 — INV 2017.182.1., Szentkirályszabadja, Bed 14, Reitzi Zone, Felsőeoersensis + Liepoldti Subzone; lateral view.
9. *Parakellnerites frauenfelderi* RIEBER, 1973 — T 2017.2.1., Vászoly, P-11/c, loose, Reitzi Zone, Liepoldti Subzone; a: lateral view, b: ventral view.
10. *Parakellnerites* cf. *frauenfelderi* RIEBER, 1973 — INV 2017.183.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
11. *Parakellnerites* cf. *frauenfelderi* RIEBER, 1973 — INV 2017.184.1., Mencshely I, Bed 5, Reitzi Zone, Avisianum Subzone; lateral view.
12. *Parakellnerites* cf. *frauenfelderi* RIEBER, 1973 — INV 2017.185.1., Vászoly Trench P-2, Bed 4, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.

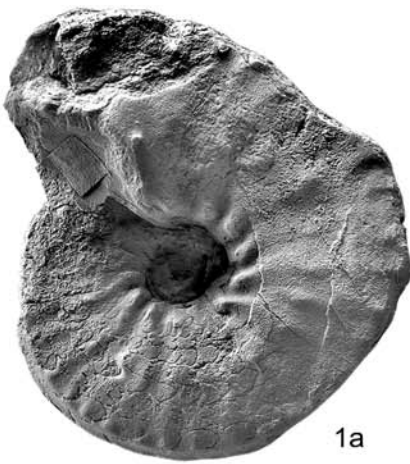


**Plate XII**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

1. *Parakellnerites boeckhi* (ROTH, 1871) — Holotype, T.681., Felsőörs, loose, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
2. *Parakellnerites boeckhi* (ROTH, 1871) — INV 2017.186.1., Vászoly, Trench P-17, Reitzi Zone, Reitzi Subzone (?); lateral view.
3. *Parakellnerites boeckhi* (ROTH, 1871) — M.98.28, Felsőörs, Bed 105 (?), Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
4. *Parakellnerites boeckhi* (ROTH, 1871) — M.98.31B, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone; lateral view.
5. *Parakellnerites boeckhi* (ROTH, 1871) — M.98.31A, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone; lateral view.
6. *Parakellnerites boeckhi* (ROTH, 1871) — T 2017.4.1., Vászoly, Trench P-11/c, loose, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.

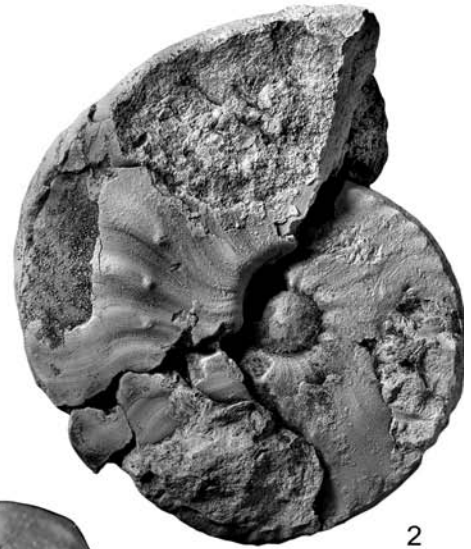




1a



1b



2



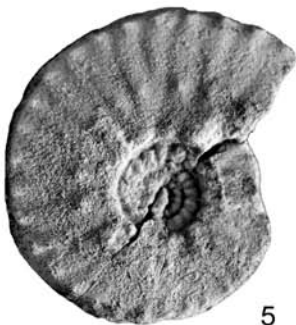
3a



3b



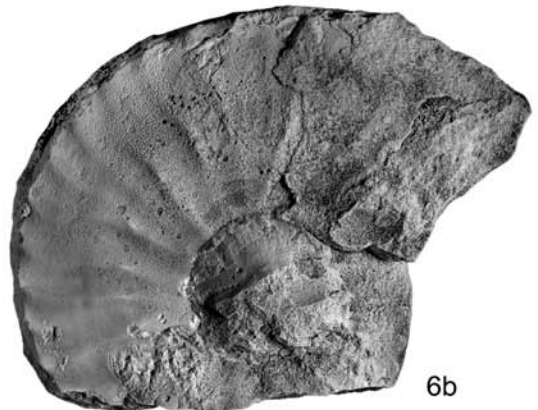
4



5



6a

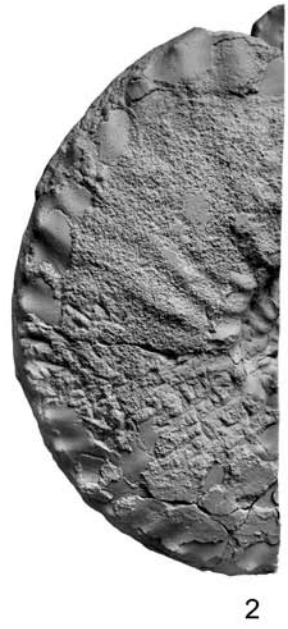
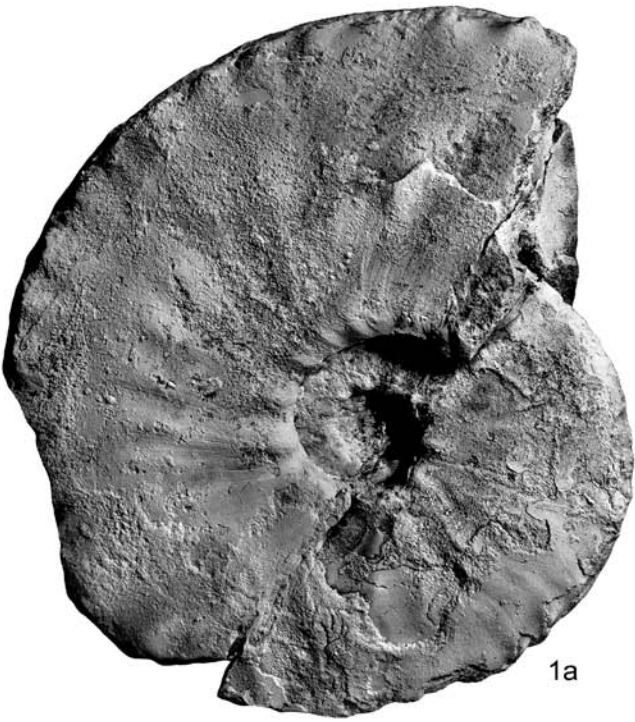


6b

**Plate XIII**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by PAL, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

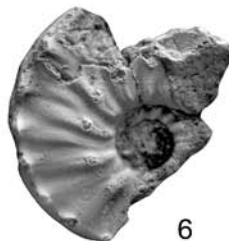
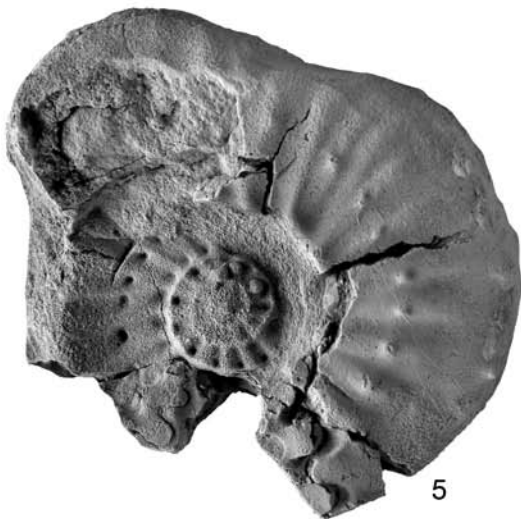
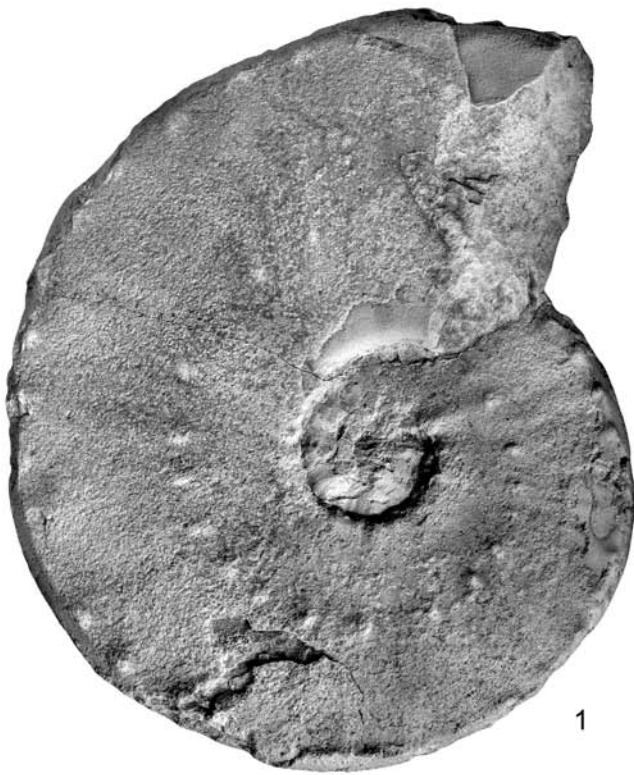
1. *Parakellnerites boeckhi* (ROTH, 1871) — T 2017.5.1., Vászoly, Trench P-11/c, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
2. *Parakellnerites boeckhi* (ROTH) — T 2017.6.1., Vászoly, Trench P-11/c, Reitzi Zone, Reitzi Subzone (?); lateral view.
3. *Parakellnerites boeckhi* (ROTH) — T 2017.3.1., Vászoly, Trench P-11/c, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
4. *Parakellnerites stuerzenbaumi* n. sp. — Paratype, T.699., Felsőörs, loose, Reitzi Zone, Avisianum Subzone (?); a: lateral view, b: ventral view. Specimen figured by MOJSISOVICS (1882, pl. pl. XXX, fig. 17), as “*Ceratites hungaricus*”.
5. *Parakellnerites stuerzenbaumi* n. sp. — Paratype, PAL 2017.29.1., Felsőörs, Bed 111/F, Reitzi Zone, Avisianum Subzone; lateral view.
6. *Parakellnerites stuerzenbaumi* n. sp. — Paratype, PAL 2017.28.1., Felsőörs, Bed 111/E, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.



**Plate XIV**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., PAL, or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

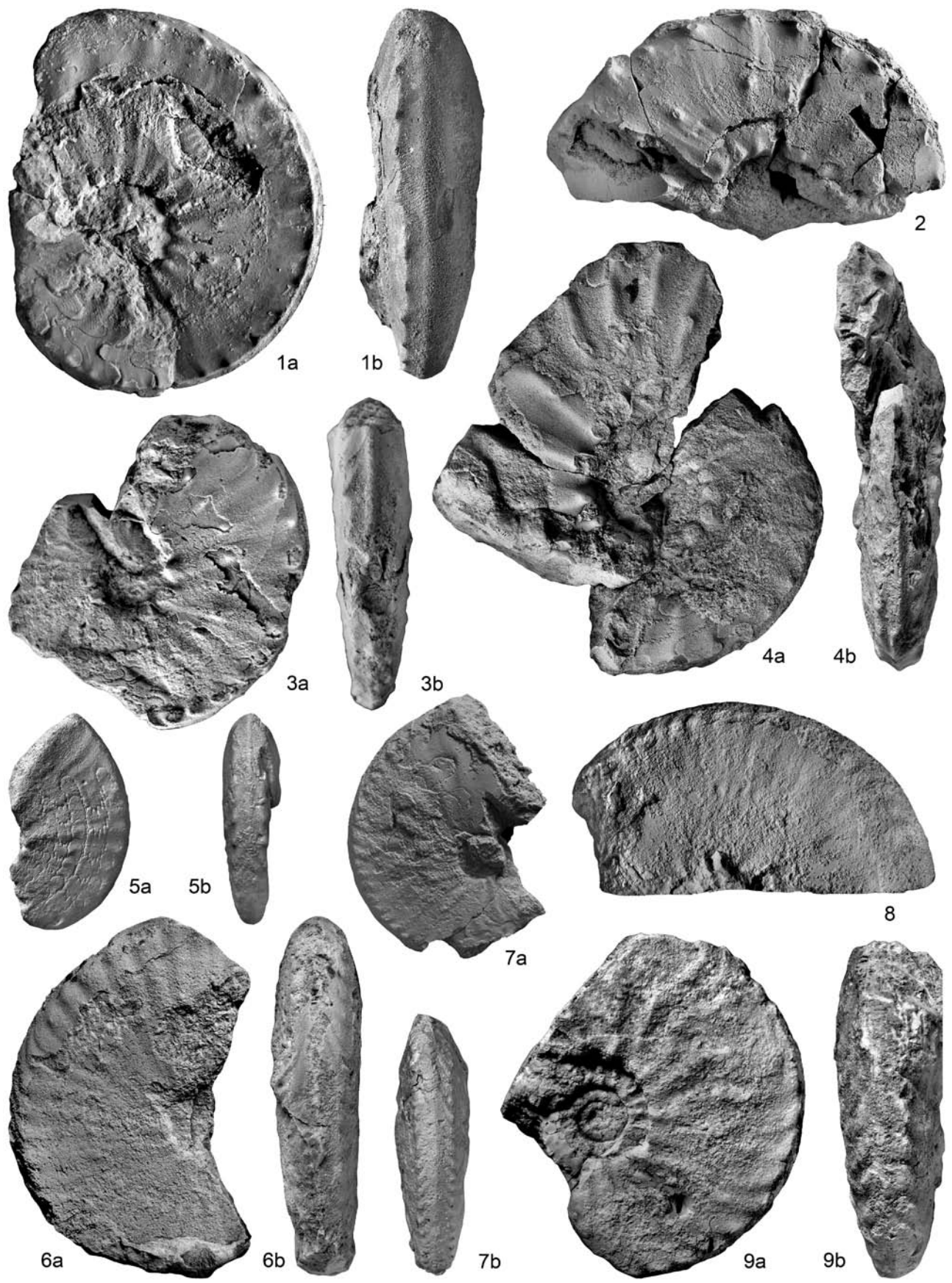
1. *Parakellnerites stuerzenbaumi* n. sp. — Holotype, PAL 2017.30.1., Vászoly, Trench P-14, Reitzi Zone, Avisianum Subzone (?); lateral view.
2. *Parakellnerites stuerzenbaumi* n. sp. — Paratype, PAL 2017.31.1., Felsőörs, Bed 111/F, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
3. *Parakellnerites stuerzenbaumi* n. sp. — Paratype, M.89.86, Vászoly, Trench P-11/a, Bed 16/A, Secedensis Zone, Crassus Subzone; half of the specimen; lateral view.
4. *Parakellnerites stuerzenbaumi* n. sp. — Paratype, M.89.83, Vászoly, Trench P-11/a, Bed 16/A, Secedensis Zone, Crassus Subzone; a: lateral view, b: ventral view.
5. *Parakellnerites hungaricus* (MOJSISOVICS, 1882) — Lectotype, T.828., Felsőörs, loose, Reitzi Zone, Avisianum Subzone (?); lateral view. Specimen figured by MOJSISOVICS (1882, pl. pl. XXX, fig. 21), as “*Ceratites hungaricus*”.
6. *Parakellnerites hungaricus* (MOJSISOVICS, 1882) — INV 2017.187.1., Mencshely I, Bed 3, Reitzi Zone, Avisianum Subzone; lateral view.
7. *Parakellnerites hungaricus* (MOJSISOVICS, 1882) — INV 2017.188.1., Felsőörs, Bed 111/F, Reitzi Zone, Avisianum Subzone (?); a: lateral view, b: ventral view.
8. *Parakellnerites hungaricus* (MOJSISOVICS, 1882) — M.89.75, Vászoly, Trench P-11/a, Bed 16/A, Secedensis Zone, Crassus Subzone; lateral view.



**Plate XV**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

1. *Parakellnerites hungaricus* (MOJSISOVICS, 1882) — INV 2017.189.1., Felsőörs, Bed 111/E, Reitzi Zone, Avisianum Subzone (?); a: lateral view, b: ventral view.
2. *Parakellnerites* aff. *hungaricus* (MOJSISOVICS, 1882) — T.698., Felsőörs, loose, Reitzi Zone, Avisianum Subzone (?); lateral view. Specimen figured by MOJSISOVICS (1882, pl. pl. XXX, fig. 18), as “*Ceratites hungaricus*”.
3. *Parakellnerites* aff. *hungaricus* (MOJSISOVICS, 1882) — INV 2017.190.1., Mencshely I, Bed 3, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
4. *Parakellnerites* aff. *hungaricus* (MOJSISOVICS, 1882) — INV 2017.191.1., Mencshely I, loose, Reitzi Zone, Avisianum Subzone (?); a: lateral view, b: ventral view.
5. *Parakellnerites* cf. *rothpletzi* (SALOMON, 1895) — INV 2017.192.1., Felsőörs, Bed 111/F, Reitzi Zone, Avisianum Subzone (?); a: lateral view, b: ventral view.
6. *Parakellnerites* cf. *rothpletzi* (SALOMON, 1895) — INV 2017.193.1., Mencshely I, Bed 2, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
7. *Parakellnerites* cf. *rothpletzi* (SALOMON, 1895) — INV 2017.194.1., Balatoncsicsó, St. Balázs church ruins, Reitzi Zone, Avisianum Subzone (?); a: lateral view, b: ventral view.
8. *Parakellnerites* cf. *rothpletzi* (SALOMON, 1895) — INV 2017.195.1., Mencshely I, Bed 3, Reitzi Zone, Avisianum Subzone; lateral view.
9. *Parakellnerites* aff. *rothpletzi* (SALOMON, 1895) — T 2017.7.1., Vászoly, Trench P-11/c, Reitzi Zone, Avisianum Subzone (?); a: lateral view, b: ventral view.

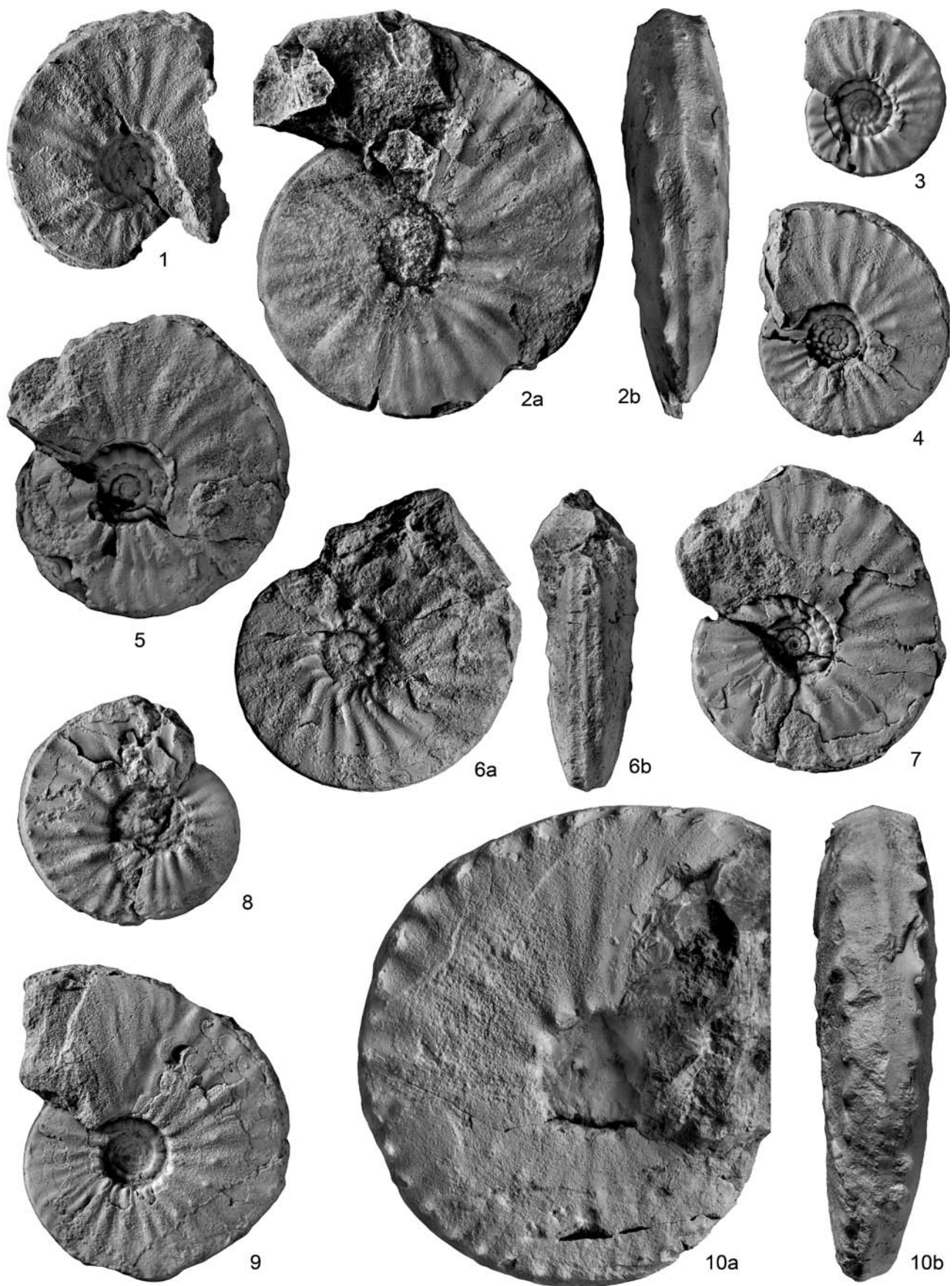


## Plate XVI

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

1. *Parakellnerites loczyi* (ARTHABER, 1903) — Lectotype, T.1259., Hajmáskér, loose, Reitzi Zone, Avisianum Subzone (?); lateral view.
2. *Parakellnerites loczyi* (ARTHABER, 1903) — INV 2017.196.1., Vászoly, Shaft P-XVIII, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view. Specimen figured by KOVÁCS et al. (1990, pl. III, fig. 3) as “*Parakellnerites* sp. nov. 3”.
3. *Parakellnerites loczyi* (ARTHABER, 1903) — M.98.47A, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone; lateral view.
4. *Parakellnerites loczyi* (ARTHABER, 1903) — M.98.88, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone; lateral view.
5. *Parakellnerites loczyi* (ARTHABER, 1903) — M.98.43A, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone; lateral view.
6. *Parakellnerites loczyi* (ARTHABER, 1903) — INV 2017.197.1., Szentkirályszabadja, Bed 14, Reitzi Zone, Felsőeoersensis + Liepoldti Subzone; a: lateral view, b: ventral view.
7. *Parakellnerites loczyi* (ARTHABER, 1903) — M.98.42, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone; lateral view.
8. *Parakellnerites loczyi* (ARTHABER, 1903) — M.98.48, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone; lateral view.
9. *Parakellnerites loczyi* (ARTHABER, 1903) — M.98.46, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone; lateral view.
10. *Parakellnerites* cf. *zoniasensis* BRACK & RIEBER, 1993 — T 2017.8.1., Vászoly, Trench P-14, Reitzi Zone, Avisianum Subzone (?); a: lateral view, b: ventral view.

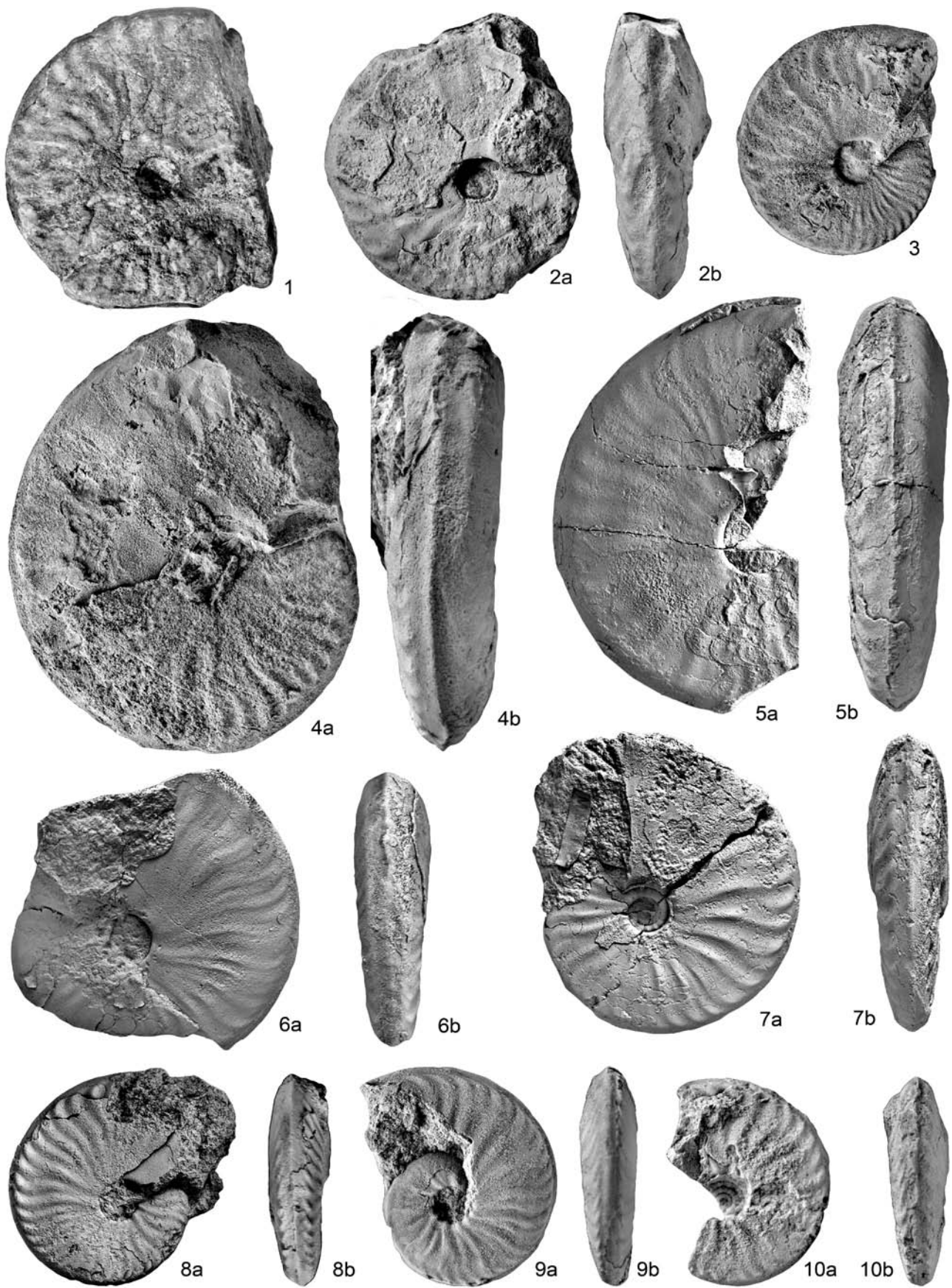




## Plate XVII

All figures are in natural size. Specimens have been coated with ammonium chloride before photography (except Figure 1). Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

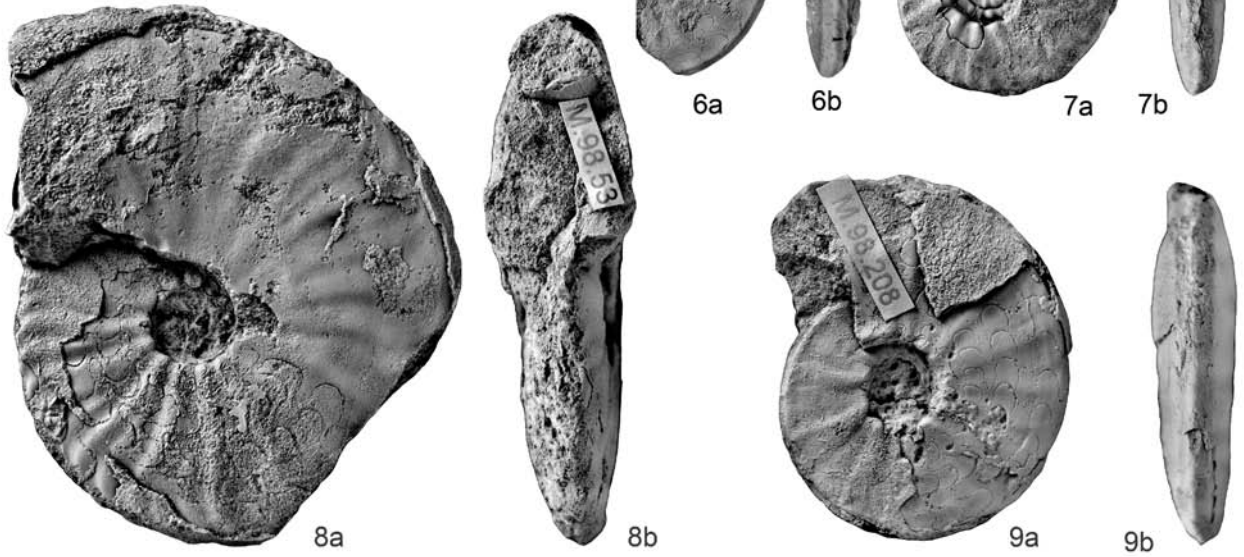
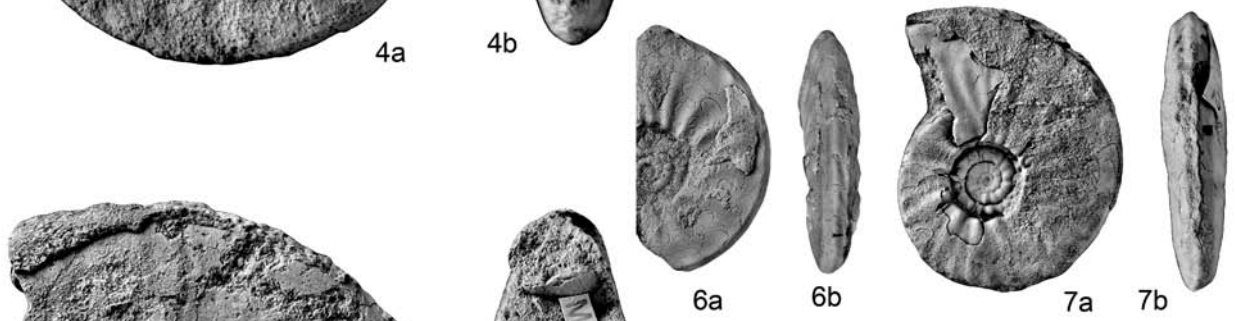
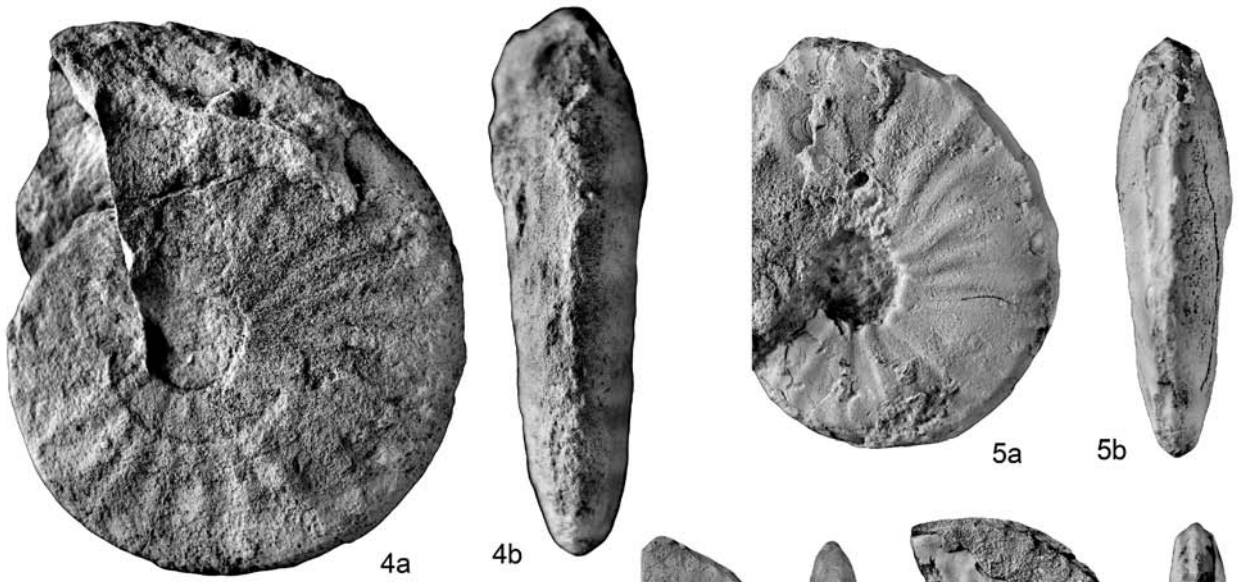
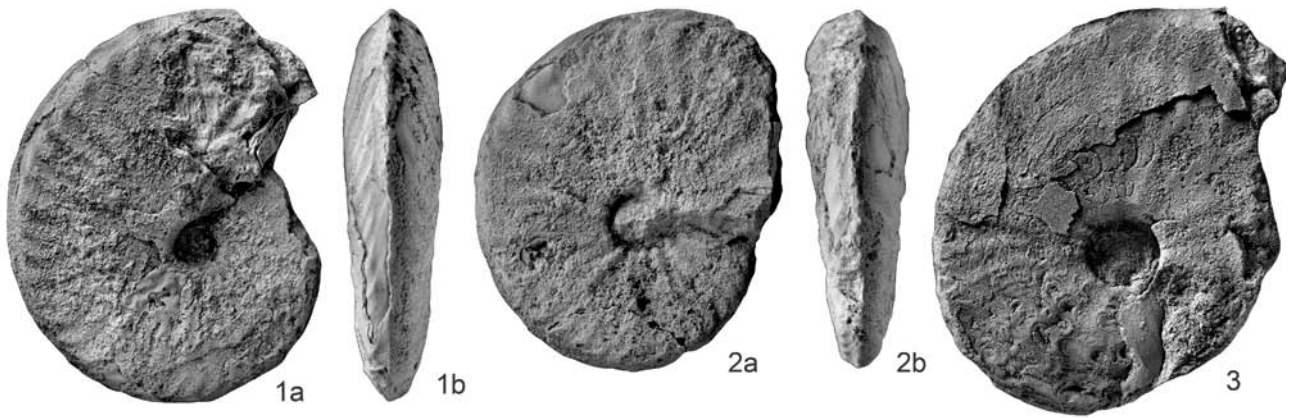
1. *Parahungarites arthaberi* (DIENER, 1899) — Lectotype, T.310., Mencshely, loose, Reitzi Zone, Reitzi Subzone (?), lateral view.
2. *Parahungarites arthaberi* (DIENER, 1899) — INV 2017.198.1., Mencshely I, Bed 8, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
3. *Parahungarites arthaberi* (DIENER, 1899) — INV 2017.199.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone; lateral view.
4. *Parahungarites arthaberi* (DIENER, 1899) — INV 2017.200.1., Mencshely II, Bed 4, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
5. *Parahungarites arthaberi* (DIENER, 1899) — M.87.021, Balatoncsicsó, St. Balázs church ruins, Reitzi Zone, Avisianum Subzone (?); a: lateral view, b: ventral view.
6. *Parahungarites arthaberi* (DIENER, 1899) — INV 2017.201.1., Balatoncsicsó, St. Balázs church ruins, Reitzi Zone, Avisianum Subzone (?); a: lateral view, b: ventral view.
7. *Parahungarites arthaberi* (DIENER, 1899) — M.98.146, Balatoncsicsó, St. Balázs church ruins, Reitzi Zone, Avisianum Subzone (?); a: lateral view, b: ventral view.
8. *Parahungarites arthaberi* (DIENER, 1899) — M.98.147, Balatoncsicsó, St. Balázs church ruins, Reitzi Zone, Avisianum Subzone (?); a: lateral view, b: ventral view.
9. *Parahungarites arthaberi* (DIENER, 1899) — M.98.223A, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
10. *Parahungarites arthaberi* (DIENER, 1899) — INV 2017.202.1., Sóly, Bed 9, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.



**Plate XVIII**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., INV or PAL.

1. *Parahungarites arthaberi* (DIENER, 1899) — M.98.68, Sóly, Bed 9, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
2. *Parahungarites arthaberi* (DIENER, 1899) — M.98.69, Sóly, Bed 9, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
3. *Parahungarites arthaberi* (DIENER, 1899) — M.98.227, Sóly, Bed 8, Reitzi Zone, Avisianum Subzone; lateral view.
4. *Parahungarites arthaberi* (DIENER, 1899) — INV 2017.203.1., Szentkirályszabadja, Bed 6, Reitzi Zone, Reitzi + Avisianum Subzone; lateral view.
5. *Parahungarites solyensis* n. sp. — Paratype, M.98.208A, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
6. *Parahungarites solyensis* n. sp. — Paratype, PAL 2017.32.1., Vászoly, Trench P-17, Reitzi Zone, Avisianum Subzone (?); a: lateral view, b: ventral view.
7. *Parahungarites solyensis* n. sp. — Paratype, M.98.212A, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
8. *Parahungarites solyensis* n. sp. — Holotype, M.98.53, Sóly, Bed 9, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
9. *Parahungarites solyensis* n. sp. — Paratype, M.98.208B, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.



**Plate XIX**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography (except Figures 1, 2 and 3). Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

1. *Reitziites reitzi* (BÖCKH, 1872) — Lectotype, T.696., Felsőörs, loose (collected by J. BÖCKH, 1870), Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
2. *Reitziites reitzi* (BÖCKH, 1872) — T.3103., Felsőörs, loose (collected by Z. SCHRÉTER, 1911), Reitzi Zone, Reitzi Subzone, lateral view.
3. *Reitziites reitzi* (BÖCKH, 1872) — T.3212., Felsőörs, loose (collected by B. ZSIGMONDY, 1871), Reitzi Zone, Reitzi Subzone, lateral view.
4. *Reitziites cf. reitzi* (BÖCKH, 1872) — INV 2017.204.1., Sóly, Bed 21, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.
5. *Reitziites reitzi* (BÖCKH, 1872) — M 2001.27, Felsőörs, Bed 105, Reitzi Zone, Reitzi Subzone, lateral view.
6. *Reitziites reitzi* (BÖCKH, 1872) — INV 2017.205.1., Felsőörs, loose near Bed 108, Reitzi Zone, Reitzi Subzone, lateral view.
7. *Reitziites reitzi* (BÖCKH, 1872) — M.98.21, Felsőörs, loose near Bed 104, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
8. *Reitziites reitzi* (BÖCKH, 1872) — INV 2017.206.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.



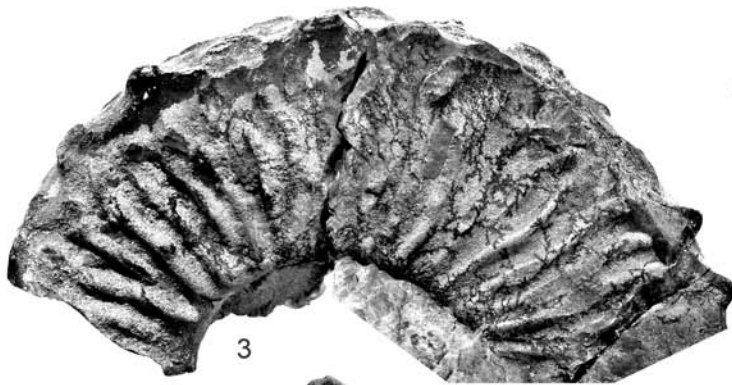
1a



1b



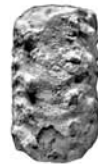
2



3



4a



4b



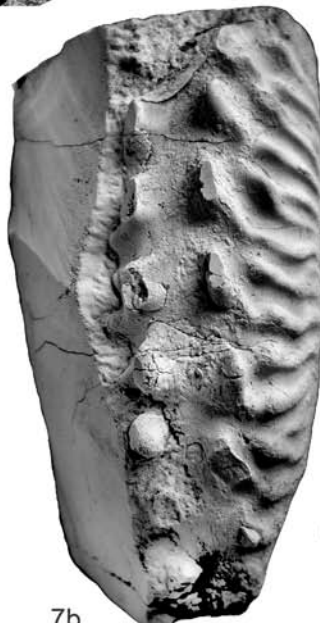
5



6



7a



7b



8a



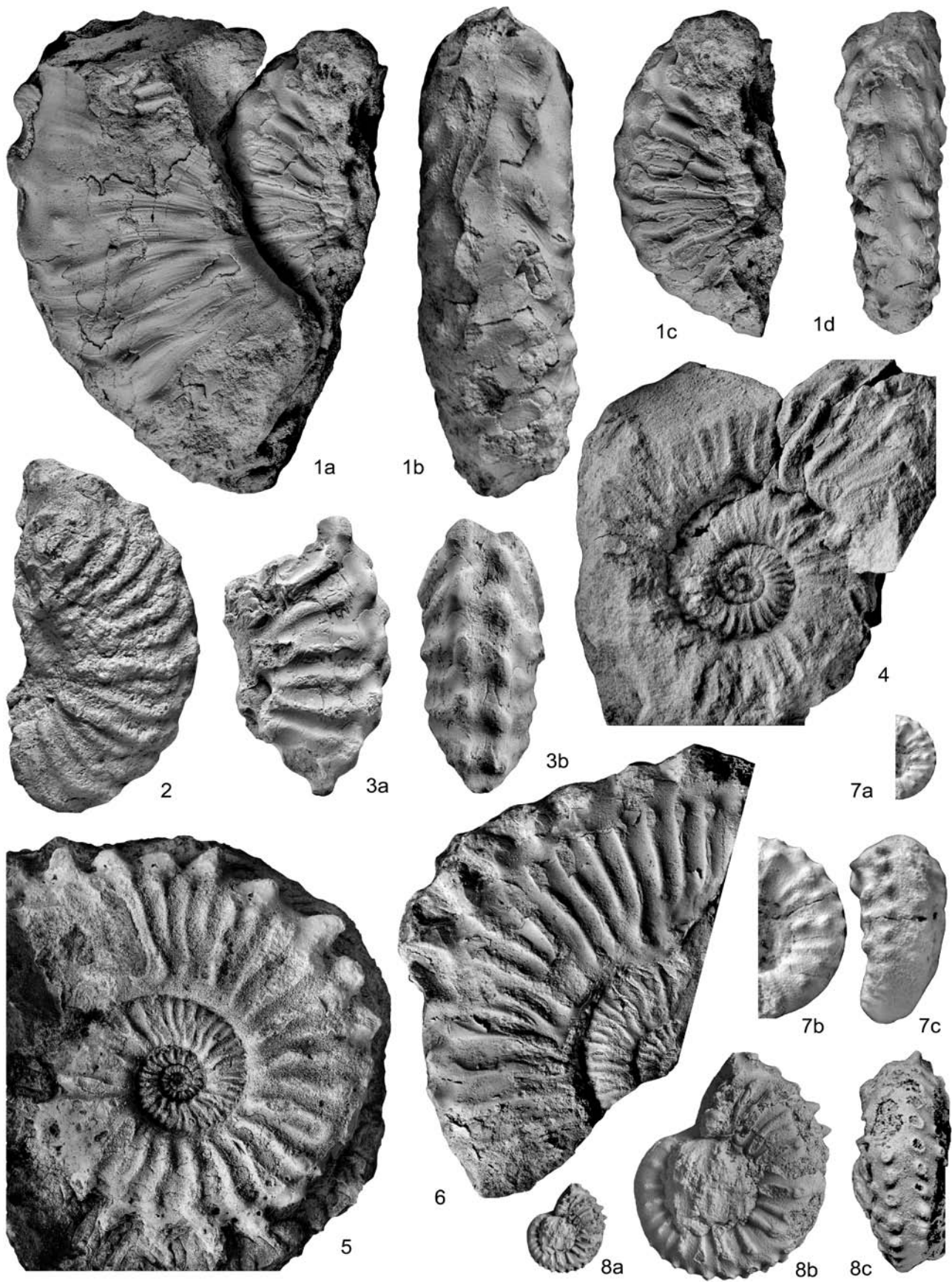
8b

**Plate XX**

All figures are in natural size unless otherwise indicated. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T. unless otherwise indicated.

1. *Reitziites reitzi* (BÖCKH, 1872) — INV 2017.207.1., Vászoly, Trench P-11/d, loose, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view, c: inner whorl in lateral view, inner whorl in ventral view.
2. *Reitziites* cf. *reitzi* (BÖCKH, 1872) — INV 2017.208.1., Mencshely II, loose, Reitzi Zone, Reitzi Subzone, lateral view.
3. *Reitziites reitzi* (BÖCKH, 1872) — INV 2017.209.1., Mencshely I, Bed 8, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
4. *Reitziites reitzi* (BÖCKH, 1872) — INV 2017.210.1., Szentkirályszabadja, Bed 10, Reitzi Zone, Reitzi + Avisianum Subzone; lateral view.
5. *Reitziites reitzi* (BÖCKH, 1872) — In private collection of L. VARGA (Úny), Vászoly, Shaft P-XIII, Reitzi Zone, Reitzi Subzone; lateral view.
6. *Reitziites reitzi* (BÖCKH, 1872) — T 2017.9.1., Vászoly, Trench P-11/c, Reitzi Zone, Reitzi Subzone; lateral view.
7. *Reitziites* cf. *ecarinatus* (HAUER, 1896) — M.89.110, Vászoly, P-11/a, Bed 14, Reitzi Zone, Reitzi Subzone, juvenile specimen, a: lateral view, b: lateral view (magnified: 2.5 ×), c: ventral view (magnified: 2.5 ×).
8. *Reitziites reitzi* (BÖCKH, 1872) — INV 2017.211.1., Mencshely I, loose, Reitzi Zone, Reitzi Subzone, juvenile specimen, a: lateral view, b: lateral view (magnified: 2.5 ×), c: ventral view (magnified: 2.5 ×).





**Plate XXI**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T., unless otherwise indicated.

1. *Reitziites reitzi* (BÖCKH, 1872) — T 2017.10.1., Vászoly, Trench P-17, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
2. *Reitziites reitzi* (BÖCKH, 1872) — In private collection of L. VARGA (Úny), Vászoly, Trench P-17, Reitzi Zone, Reitzi Subzone; lateral view.
3. *Reitziites reitzi* (BÖCKH, 1872) — M.98.108, Vászoly, Trench P-11/a, Bed 14, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
4. *Reitziites reitzi* (BÖCKH, 1872) — INV 2017.212.1., Vászoly, Shaft P-XVIII, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
5. *Reitziites reitzi* (BÖCKH, 1872) — M.98.15, Vászoly, Trench P-2, Bed 4, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
6. *Reitziites reitzi* (BÖCKH, 1872) — INV 2017.213.1., Vászoly, Trench P-17, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
7. *Reitziites reitzi* (BÖCKH, 1872) — INV 2017.214.1., Vászoly, loose, Reitzi Zone, Reitzi Subzone (?), a: lateral view, b: ventral view.



1a



1b



4a



4b



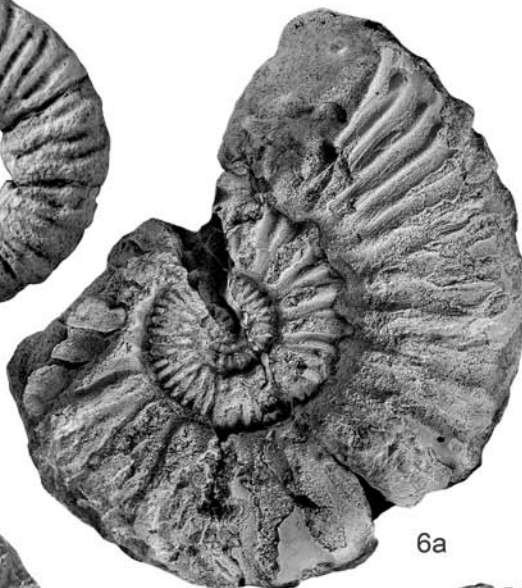
2



3b



3a



6a



6b



5b



5a



7a



7b

**Plate XXII**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

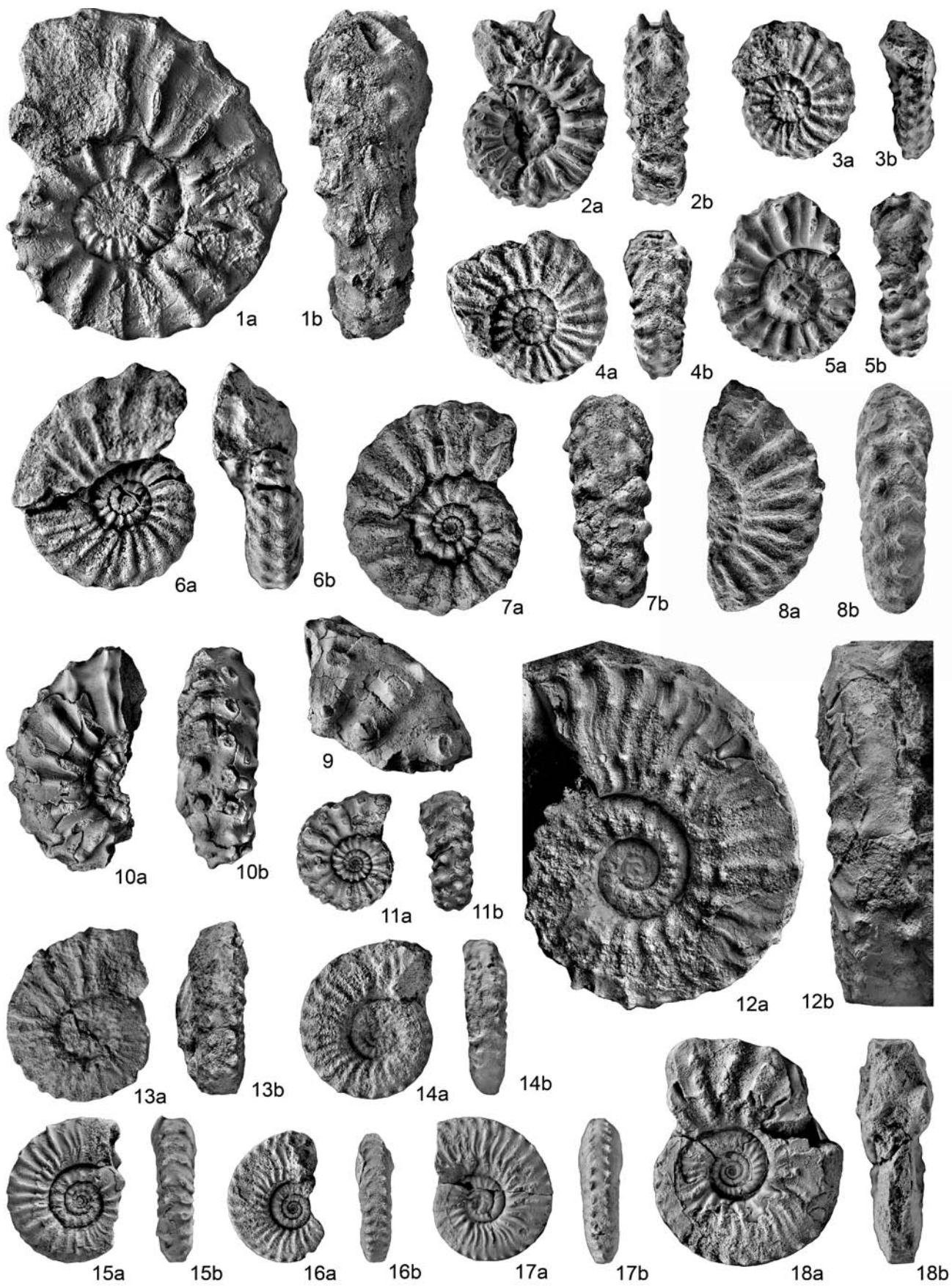
1. *Reitziites reitzi* (BÖCKH, 1872) — INV 2017.215.1., Vászoly, Trench P-11/c, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
2. *Reitziites reitzi* (BÖCKH, 1872) — INV 2017.216.1., Vászoly, Trench P-11/d, Reitzi Zone, Reitzi Subzone; part of a specimen and silicon rubber cast of an imprint; lateral view.
3. *Reitziites reitzi* (BÖCKH, 1872) — T 2017.11.1., Vászoly, Trench P-11/c, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
4. *Reitziites reitzi* (BÖCKH, 1872) morphotype *cholnokyi* — M.89.129A, Vászoly, Trench P-11/a, Bed 14, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
5. *Reitziites reitzi* (BÖCKH, 1872) morphotype *cholnokyi* — INV 2017.217.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
6. *Reitziites reitzi* (BÖCKH, 1872) morphotype *cholnokyi* — INV 2017.218.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
7. *Reitziites reitzi* (BÖCKH, 1872) morphotype *cholnokyi* — M.89.129B, Vászoly, Trench P-11/a, Bed 14, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.



### Plate XXIII

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, unless otherwise indicated.

1. *Reitziites ecarinatus* (HAUER, 1896) — M.87.009, Szentbékállá, loose, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
2. *Reitziites ecarinatus* (HAUER, 1896) — INV 2017.220.1., Mencshely, loose, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
3. *Reitziites ecarinatus* (HAUER, 1896) — INV 2017.221.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
4. *Reitziites ecarinatus* (HAUER, 1896) — INV 2017.222.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
5. *Reitziites ecarinatus* (HAUER, 1896) — INV 2017.223.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
6. *Reitziites ecarinatus* (HAUER, 1896) — INV 2017.224.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
7. *Reitziites ecarinatus* (HAUER, 1896) — INV 2017.225.1., Mencshely, loose, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
8. *Reitziites ecarinatus* (HAUER, 1896) — INV 2017.226.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
9. *Reitziites* cf. *ecarinatus* (HAUER, 1896) — M.98.218, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone; lateral view.
10. *Reitziites ecarinatus* (HAUER, 1896) — INV 2017.227.1., Vászoly, Trench P-17, Reitzi Zone, Reitzi Subzone; a: lateral view, b: ventral view.
11. *Reitziites ecarinatus* (HAUER, 1896) — INV 2017.228.1., Mencshely, loose, Reitzi Zone, Reitzi Subzone (?); a: lateral view, b: ventral view.
12. *Latemarites bavaricus* (REIS, 1901) — In private collection of K. TAMÁS (Kővágóörs), Sóly, loose, Reitzi Zone, Avisianum Subzone (?); a: lateral view, b: ventral view.
13. *Latemarites bavaricus* (REIS, 1901) — INV 2017.229.1., Vörösberény, loose from the uppermost part of the exposure in the road-cut, Reitzi Zone, Avisianum Subzone (?); a: lateral view, b: ventral view.
14. *Latemarites bavaricus* (REIS, 1901) — M.98.29, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
15. *Latemarites bavaricus* (REIS, 1901) — M.98.86, Sóly, Bed 7, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
16. *Latemarites bavaricus* (REIS, 1901) — M.98.70, Mencshely I, Bed 7, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
17. *Latemarites bavaricus* (REIS, 1901) — M 2001.28, Felsőörs, Bed 110 (?), Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
18. *Latemarites bavaricus* (REIS, 1901) — M.98.80, Sóly, Bed 7, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.

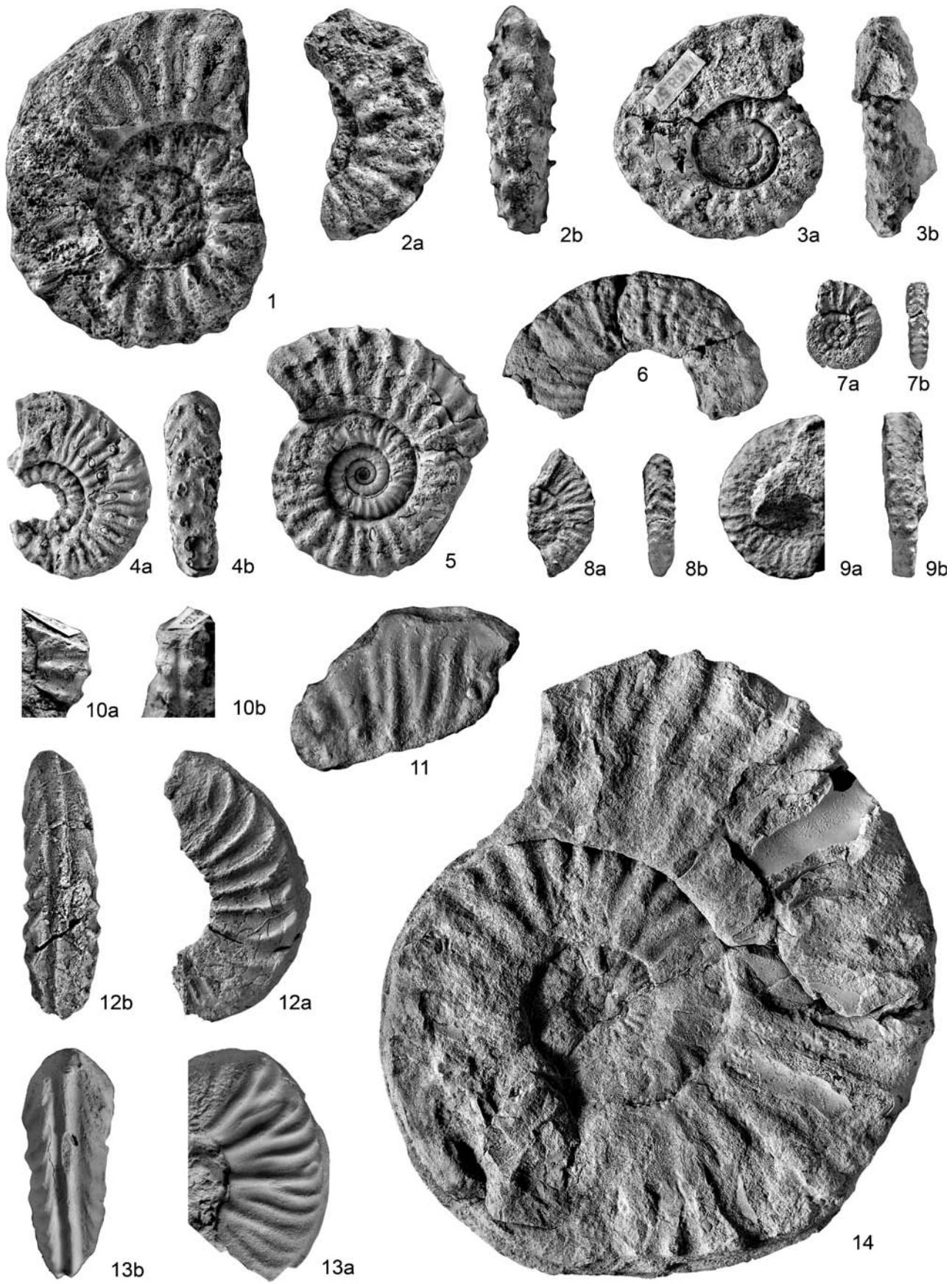


**Plate XXIV**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV.

1. *Latemarites bavaricus* (REIS, 1901) — M.98.33, Sóly, Bed 8, Reitzi Zone, Avisianum Subzone; lateral view.
2. *Latemarites bavaricus* (REIS, 1901) — M.98.66, Sóly, Bed 7, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
3. *Latemarites bavaricus* (REIS, 1901) — M.98.57, Sóly, Bed 7, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
4. *Latemarites bavaricus* (REIS, 1901) — M.98.84, Sóly, Bed 7, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
5. *Latemarites bavaricus* (REIS, 1901) — M.98.66, Sóly, Bed 7, Reitzi Zone, Avisianum Subzone; lateral view.
6. *Latemarites bavaricus* (REIS, 1901) — M.89.135, Vászoly, Trench P-11/a, Bed 15, Reitzi Zone, Reitzi Subzone; lateral view.
7. *Latemarites bavaricus* (REIS, 1901) — INV 2017.230.1., Mencshely II, Bed 4, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
8. *Latemarites bavaricus* (REIS, 1901) — INV 2017.231.1., Szentkirályszabadja, Bed 5, Reitzi Zone, Reitzi + Avisianum Subzone; a: lateral view, b: ventral view.
9. *Latemarites bavaricus* (REIS, 1901) — INV 2017.232.1., Szentkirályszabadja, Bed 5, Reitzi Zone, Reitzi + Avisianum Subzone; a: lateral view, b: ventral view.
10. *Detoniceras* ? sp. — M.98.233, Sóly, Bed 7, Reitzi Zone, Reitzi + Avisianum Subzone; a: lateral view, b: ventral view.
11. *Halilucites* cf. *obliquus* (HAUER, 1896) — INV 2017.233.1., Felsőörs, Bed 111/K, Secedensis Zone; lateral view.
12. *Halilucites* cf. *arietiformis* (HAUER, 1896) — INV 2017.234.1., Felsőörs, Bed 111/B, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
13. *Halilucites rusticus* (HAUER, 1896) — INV 2017.235.1., Felsőörs, Bed 111/D, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
14. *Halilucites rusticus* (HAUER, 1896) — M.98.63, Vászoly, Trench P-11/a, Bed 16/A, Secedensis Zone, Crassus Subzone; lateral view.





**Plate XXV**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., INV or PAL.

1. *Halilucites rusticus* (HAUER, 1896) — M.98.63, Vászoly, Trench P-11/a, Bed 16/A, Secedensis Zone, Crassus Subzone; a: lateral view, b: ventral view of the specimen in Pl. XXIII, Fig. 14; a part of the body chamber removed.
2. *Stoppaniceras* cf. *variabile* RIEBER, 1973 — INV 2017.236.1., Felsőörs, Bed 113, Secedensis Zone, Crassus Subzone; silicon rubber cast of the imprint of a specimen; lateral view.
3. *Stoppaniceras rieberi* n. sp. — Holotype, M.98.26, Felsőörs, Bed 116, Secedensis Zone, Crassus Subzone; a: lateral view, b: ventral view.
4. *Stoppaniceras rieberi* n. sp. — Paratype, PAL 2017.33.1., Felsőörs, Bed 111/I, Reitzi Zone, Avisianum Subzone; a: lateral view, b: ventral view.
5. *Stoppaniceras rieberi* n. sp. — Paratype, PAL 2017.35.1., Felsőörs, Bed 112, Secedensis Zone, Crassus Subzone; lateral view.
6. *Stoppaniceras rieberi* n. sp. — Paratype, PAL 2017.34.1., Felsőörs, Bed 112, Secedensis Zone, Crassus Subzone; lateral view.
7. *Stoppaniceras rieberi* n. sp. — Paratype, M.98.27, Felsőörs, Bed 116, Secedensis Zone, Crassus Subzone; lateral view.



1b



1a



2



3a



3b



4a



4b



5



6

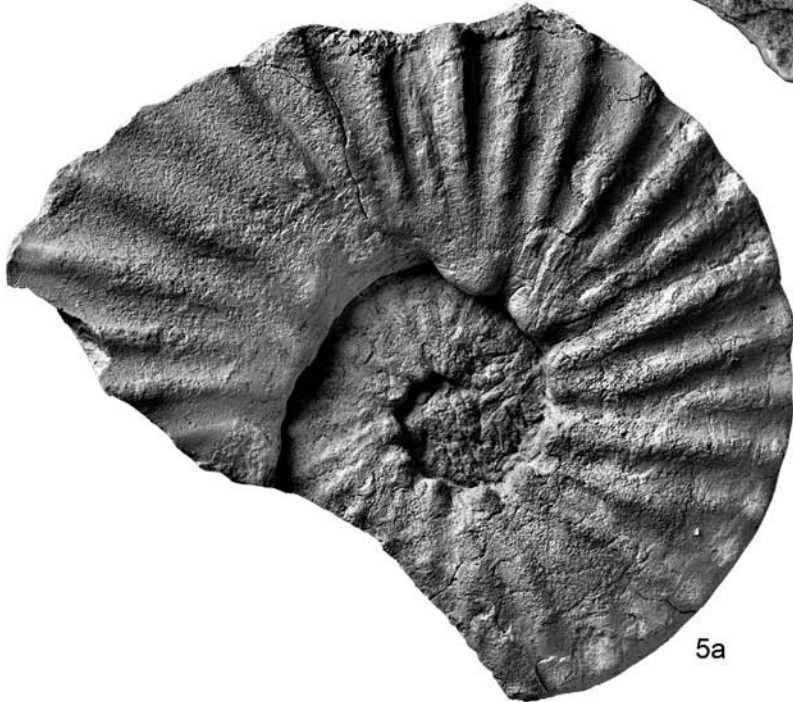
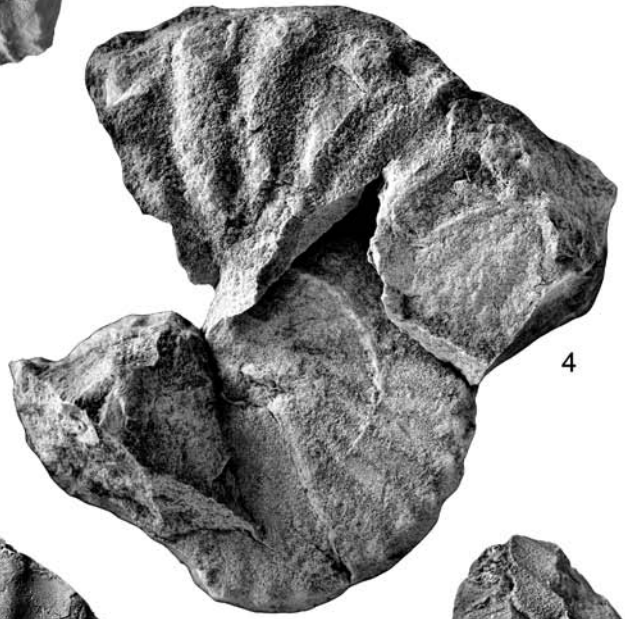
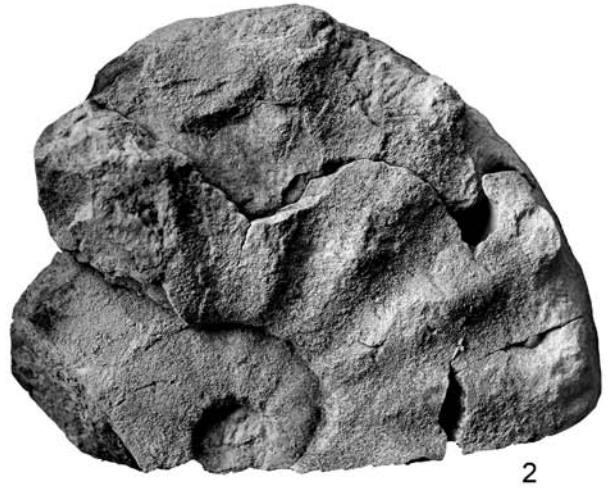


7

**Plate XXVI**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV.

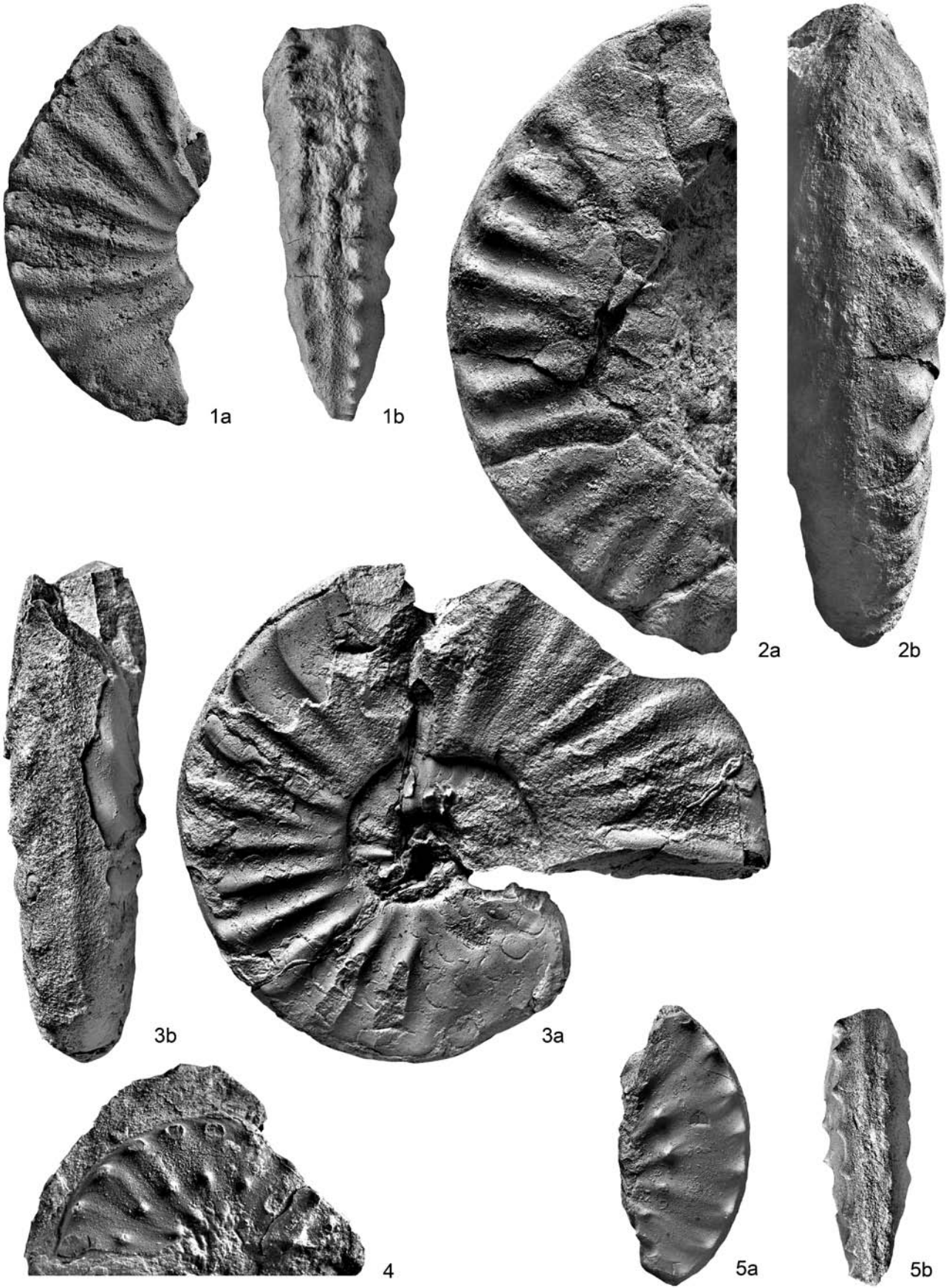
1. *Stoppaniceras* aff. *rieberi* n. sp. — M.98.25, Felsőörs, Bed 116, Secedensis Zone, Crassus Subzone; a: lateral view, b: ventral view.
2. *Stoppaniceras* cf. *ellipticum* (HAUER, 1887) — M.98.117, Sóly, road-cut, loose, Reitzi Zone, Avisianum Subzone (?), lateral view.
3. *Stoppaniceras* cf. *ellipticum* (HAUER, 1887) — M.98.59, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone, lateral view.
4. *Stoppaniceras* cf. *ellipticum* (HAUER, 1887) — INV 2017.237.1., Szentkirályszabadja, Bed 5, Reitzi Zone, Reitzi + Avisianum Subzone, lateral view.
5. *Stoppaniceras hermanni* n. sp. — Holotype, M.98.16, Vászoly, Trench P-11/a, Bed 16/A, Secedensis Zone, Crassus Subzone; a: lateral view, b: ventral view.



**Plate XXVII**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., INV or PAL.

1. *Stoppaniceras hermanni* n. sp. — Paratype, PAL 2017.36.1., Vászoly, Trench P-17, Reitzei Zone, Avisianum Subzone (?), a: lateral view, b: ventral view.
2. *Stoppaniceras budaii* n. sp. — Paratype, PAL 2017.37.1., Felsőörs, Bed 111 (loose), Reitzei Zone, Avisianum Subzone, a: lateral view, b: ventral view.
3. *Stoppaniceras budaii* n. sp. — Holotype, M.87.42, Vászoly, Trench P-11/a, Bed 16/A, Secedensis Zone, Crassus Subzone, a: lateral view, b: ventral view.
4. *Repossia* cf. *acutenodosa* RIEBER, 1973 — INV 2017.238.1., Felsőörs, Bed 117, Secedensis Zone, Crassus Subzone; lateral view.
5. *Repossia* cf. *acutenodosa* RIEBER, 1973 — M.98.23, Felsőörs, Bed 116, Secedensis Zone, Crassus Subzone; a: lateral view, b: ventral view.



**Plate XXVIII**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

1. *Ticinites* cf. *ticinensis* RIEBER, 1973 — INV 2017.239.1., Barnag, loose, Secedensis Zone (?), a: lateral view, b: ventral view.
2. *Ticinites hantkeni* (MOJSISOVICS, 1882) — Topotype, T.3088., Felsőörs, loose, Secedensis Zone (?), a: lateral view, b: ventral view.
3. *Ticinites hantkeni* (MOJSISOVICS, 1882) — M.98.72, Felsőörs, Bed 111/J, Secedensis Zone, Crassus Subzone, a: lateral view, b: ventral view.
4. *Ticinites hantkeni* (MOJSISOVICS, 1882) — INV 2017.240.1., Felsőörs, Bed 111/J, Secedensis Zone, Crassus Subzone, a: lateral view, b: ventral view.
5. *Ticinites hantkeni* (MOJSISOVICS, 1882) — INV 2017.241.1., Felsőörs, Bed 111/K, Secedensis Zone, Crassus Subzone, a: lateral view, b: ventral view.
6. *Ticinites* cf. *hantkeni* (MOJSISOVICS, 1882) — INV 2017.242.1., Felsőörs, Bed 111/K, Secedensis Zone, Crassus Subzone, a: lateral view, b: silicon rubber cast of the inner whorls.
7. *Ticinites* cf. *hantkeni* (MOJSISOVICS, 1882) — INV 2017.243.1., Felsőörs, Bed 111/J, Secedensis Zone, Crassus Subzone, a: lateral view, b: silicon rubber cast of the inner whorls.





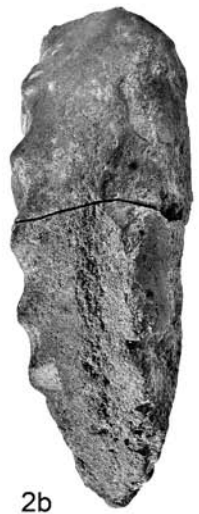
1a



1b



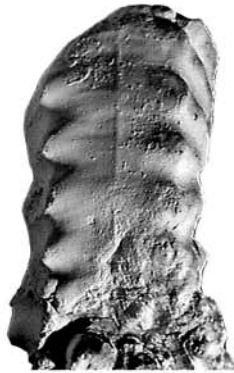
2a



2b



3a



3b



4a



4b



5a



5b



6a



6b



7a

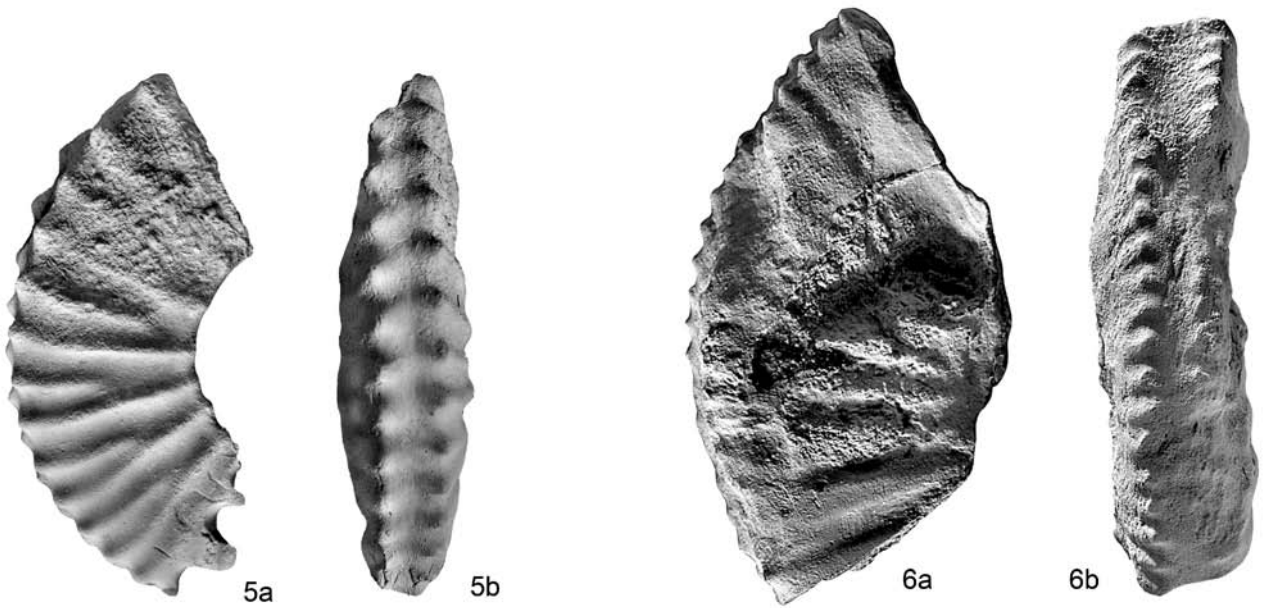
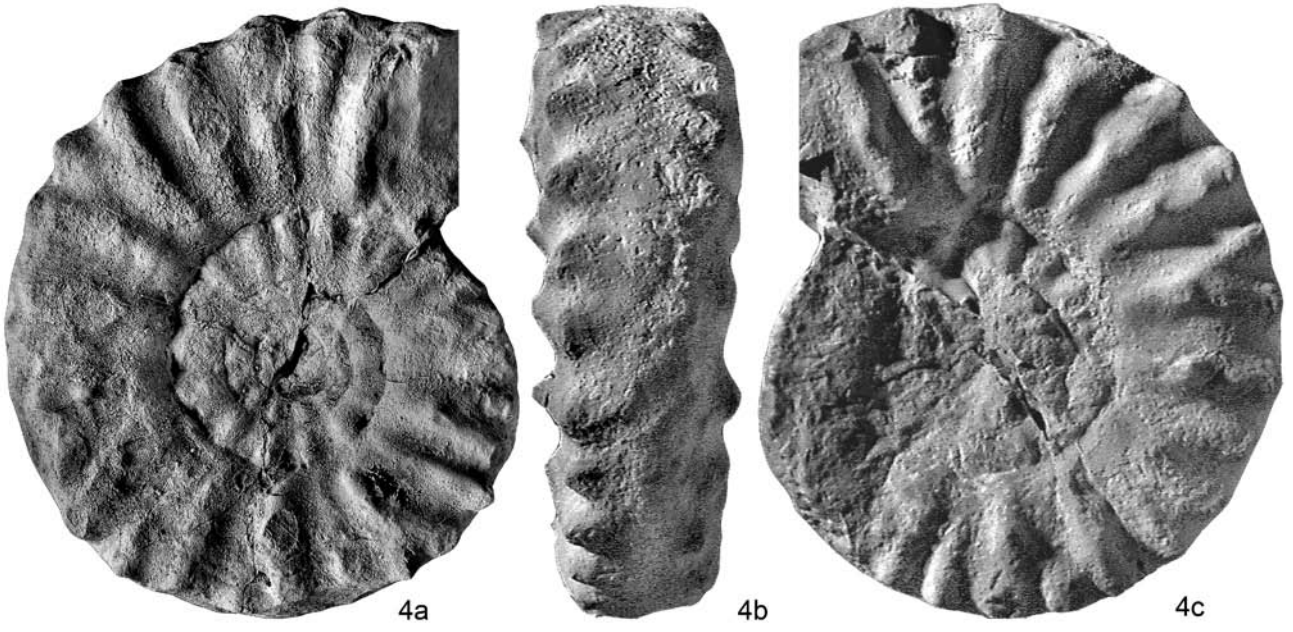
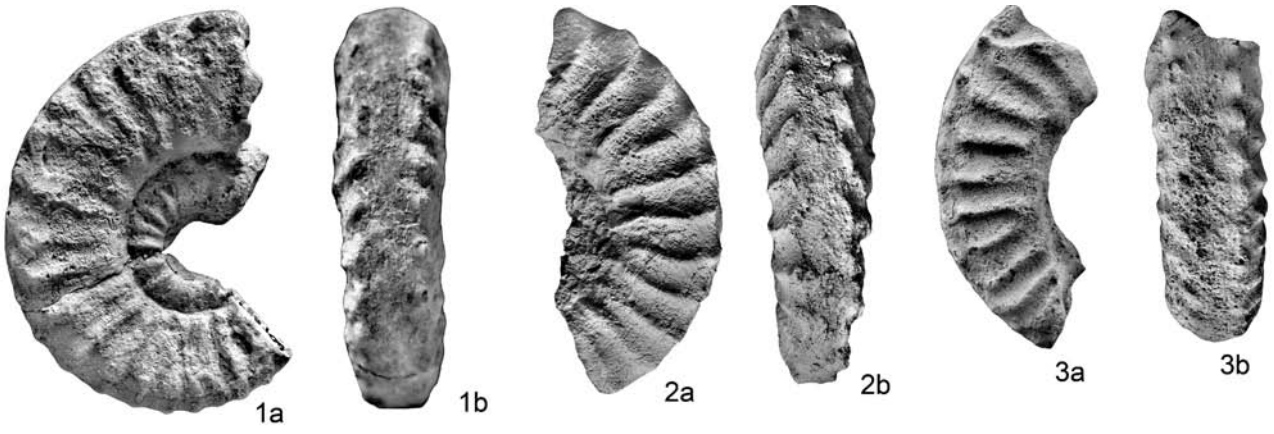


7b

**Plate XXIX**

All figures are in natural size unless otherwise indicated. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV.

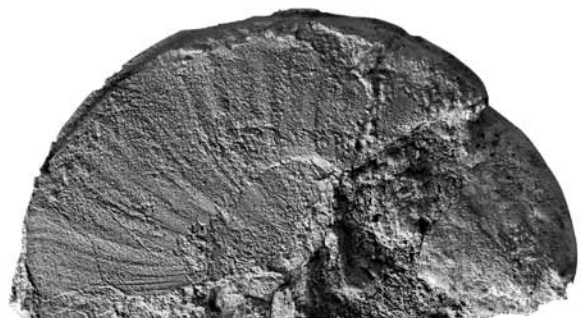
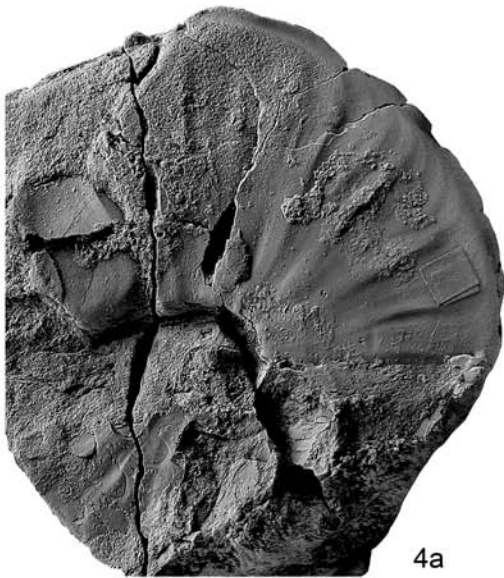
1. *Ticinites* ? aff. *hantkeni* (MOJSISOVICS, 1882) — M.89.109, Vászoly, Trench P-11/a, Bed 14, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
2. *Ticinites* ? aff. *hantkeni* (MOJSISOVICS, 1882) — INV 2017.244.1., Mencshely I, loose, Reitzi Zone, Reitzi Subzone (?), a: lateral view, b: ventral view.
3. *Ticinites* ? aff. *hantkeni* (MOJSISOVICS, 1882) — INV 2017.245.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
4. *Ticinites crassus* (HAUER, 1896) — M.98.61, Vászoly, Trench P-11/a, Bed 16/A, Secedensis Zone, Crassus Subzone, a: left lateral view, b: ventral view, c: right lateral view (all reduced 0.9 ×).
5. *Chieseiceras* sp. A — M.98.24, Felsőörs, Bed 116, Secedensis Zone, Crassus Subzone, a: lateral view, b: ventral view.
6. *Chieseiceras chiesense* (MOJSISOVICS, 1882) — M 2009.341.1., Felsőörs, Bed 129/A, Secedensis Zone, Secedensis Subzone, a: lateral view, b: ventral view.



**Plate XXX**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

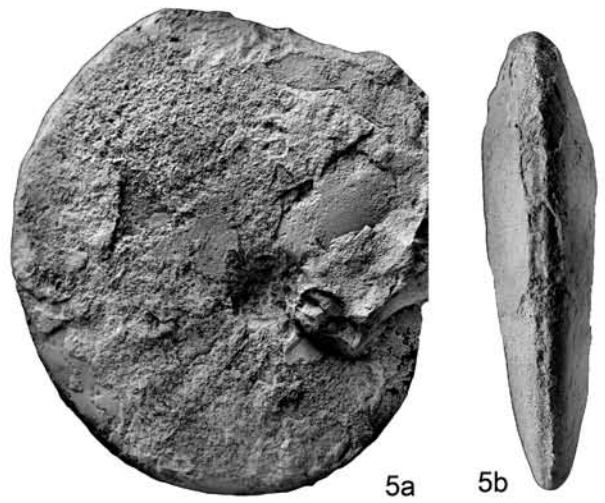
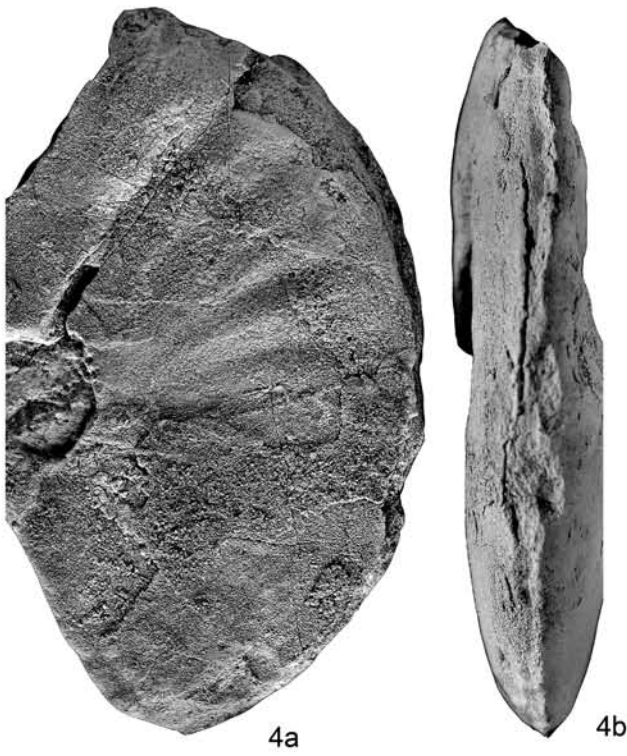
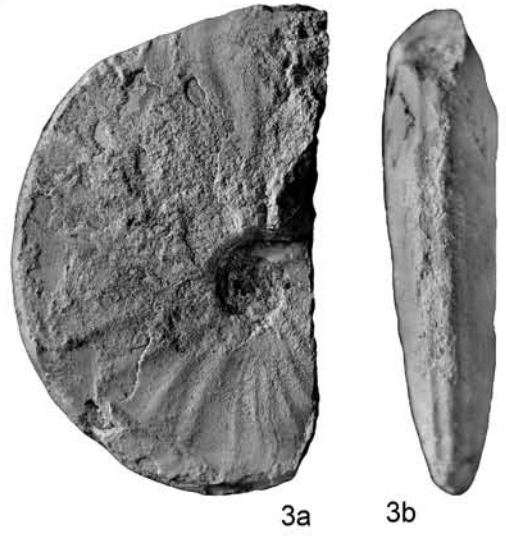
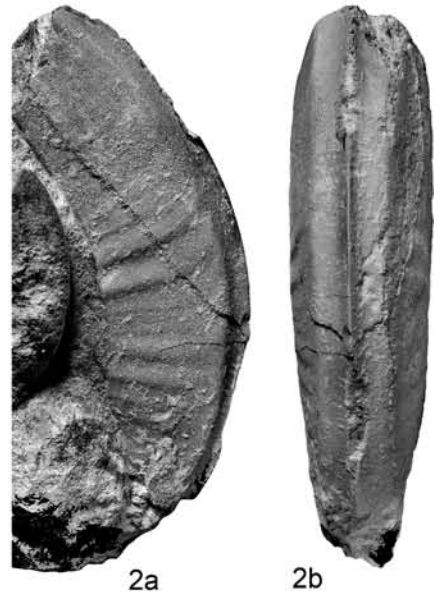
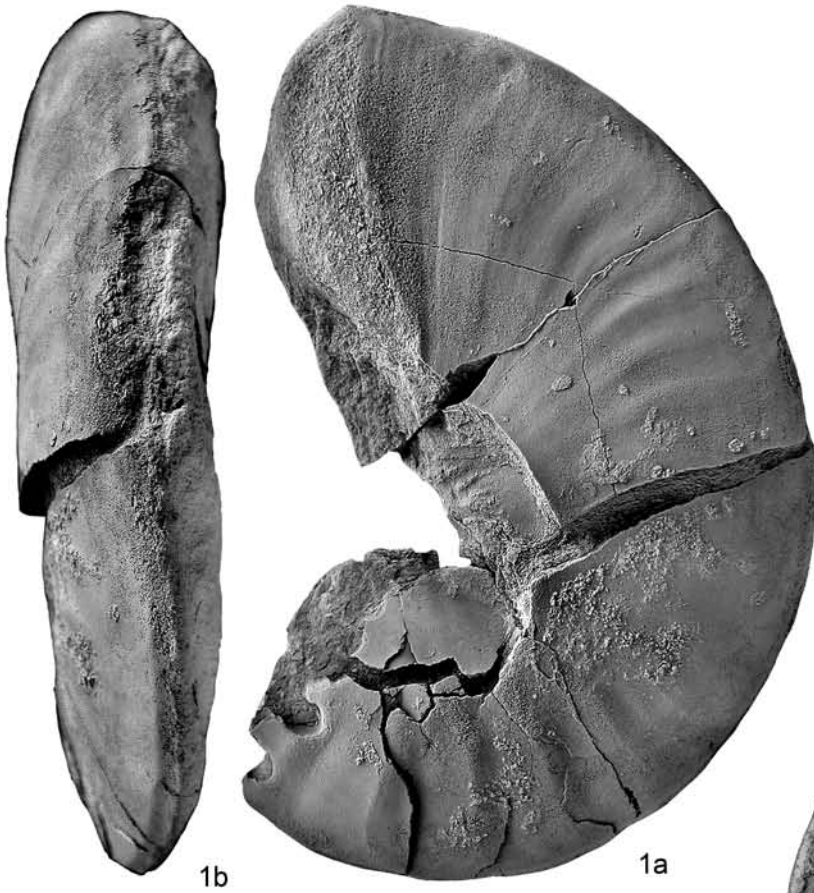
1. *Chieseiceras chiesense* (MOJSISOVICS, 1882) — M 2009.346.1., Felsőörs, Bed 129/A, Secedensis Zone, Secedensis Subzone, a: lateral view, b: ventral view.
2. *Nevadites* cf. *avenonensis* BRACK & RIEBER, 1993 — M 2009.343.1., Felsőörs, Bed 126, Secedensis Zone, Secedensis Subzone, a: lateral view, b: ventral view.
3. *Nevadites* cf. *avenonensis* BRACK & RIEBER, 1993 — M 2009.342.1., Felsőörs, Bed 126, Secedensis Zone, Secedensis Subzone, oblique lateral view.
4. *Hungarites mojsisovicsi* (ROTH, 1871) — Paralectotype, T.3085., Felsőörs, loose, Reitzi Zone, Avisianum Subzone (?), a: lateral view, b: ventral view, c: partial suture line, magnified. Specimen figured as “*Ceratites Zalaensis* n. sp.” by BÖCKH (1872, 1873, pl. VII, fig. 2), and as “*Hungarites Mojsisovicsi* (BOECKH)” by MOJSISOVICS (1882, pl. VIII, fig. 3).
5. *Hungarites mojsisovicsi* (ROTH, 1871) — INV 2017.246.1., Felsőörs, Bed 111/E, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.
6. *Hungarites mojsisovicsi* (ROTH, 1871) — INV 2017.247.1., Felsőörs, Bed 111/E, Reitzi Zone, Avisianum Subzone, lateral view.



**Plate XXXI**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

1. *Hungarites mojsisovicsi* (ROTH, 1871) — Lectotype, T.1662., Felsőörs, loose, Reitzi Zone, Avisianum Subzone (?), a: lateral view, b: ventral view. Specimen figured as “*Ceratites Zalaensis* n. sp.” by BÖCKH (1872, 1873, pl. VII, fig. 1), and as “*Hungarites Mojsisovicsi* (BOECKH)” by MOJSISOVICS (1882, pl. VII, fig. 6).
2. *Hungarites mojsisovicsi* (ROTH, 1871) — INV 2017.248.1., Felsőörs, Bed 111/E, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.
3. *Hungarites mojsisovicsi* (ROTH, 1871) — M.98.152A, Sóly, Bed 5, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.
4. *Hungarites mojsisovicsi* (ROTH, 1871) — INV 2017.249.1., Szentkirályszabadja, Bed 18, Reitzi Zone, Felsőeoersensis + Liepoldti Subzone, a: lateral view, b: ventral view.
5. *Hungarites mojsisovicsi* (ROTH, 1871) — INV 2017.250.1., Mencshely I, Bed 5, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.

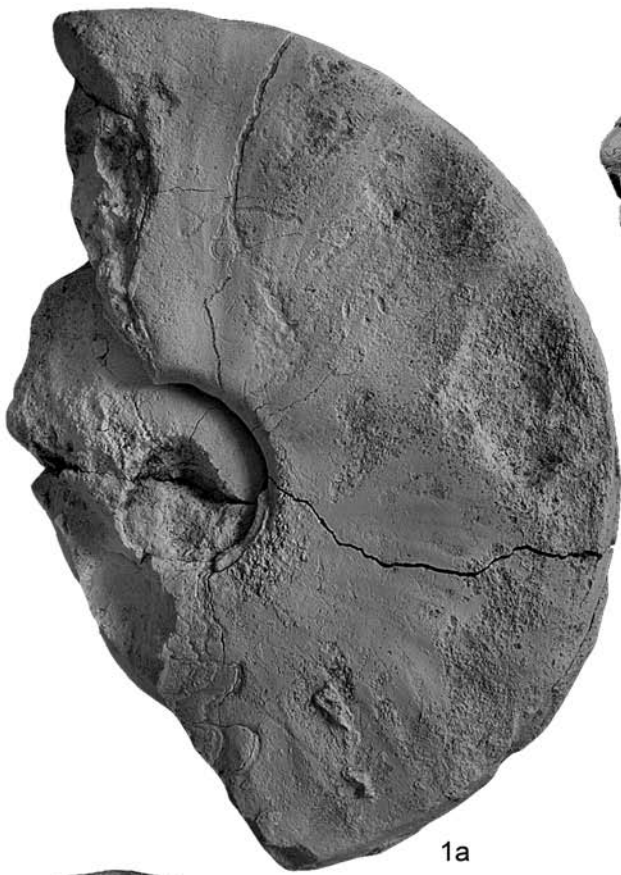


**Plate XXXII**

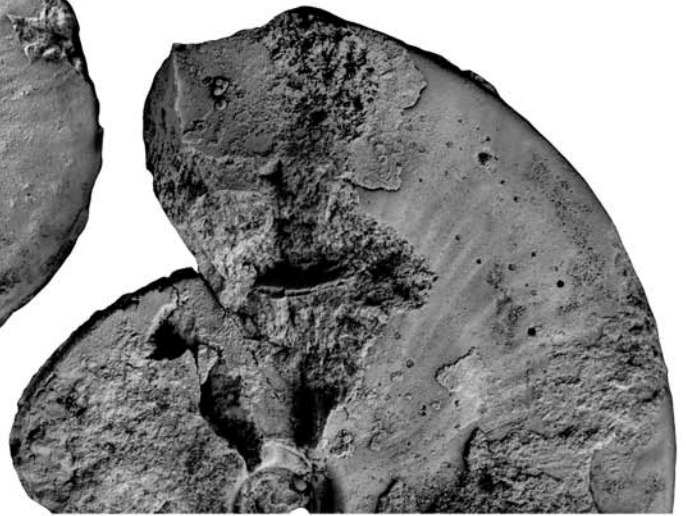
All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

1. *Hungarites mojsisovicsi* (ROTH, 1871) — INV 2017.251.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view, c: lateral view of the same specimen, a part of the body chamber removed, d: ventral view of the same specimen, a part of the body chamber removed, to show the almost tricarinate venter.
2. *Hungarites mojsisovicsi* (ROTH, 1871) — M.98.35, Sóly, Bed 9, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.
3. *Hungarites mojsisovicsi* (ROTH, 1871) — M.98.36, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone, lateral view.
4. *Hungarites mojsisovicsi* (ROTH, 1871) — T 2017.12.1., Vászoly, Trench P-11/c, loose, Reitzi Zone, Reitzi Subzone; lateral view.





4



**Plate XXXIII**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV.

1. *Hungarites mojsisovicsi* (ROTH, 1871) — INV 2017.252.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
2. *Hungarites mojsisovicsi* (ROTH, 1871) — M.89.101, Vászoly, Trench P-11/a, Bed 16/A, Secedensis Zone, Crassus Subzone, a: lateral view, b: ventral view.



1a



1b



2b

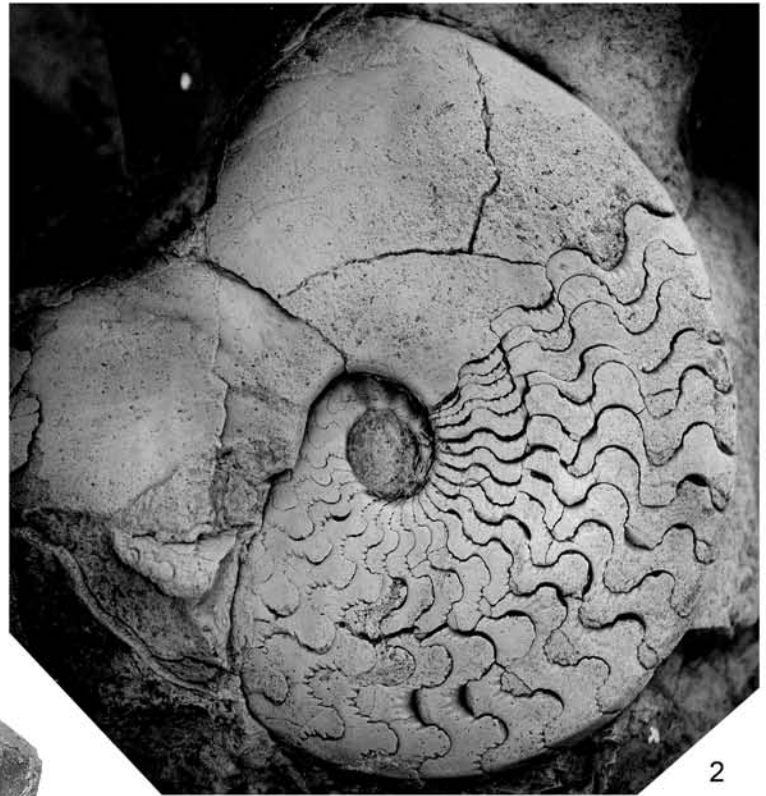


2a

**Plate XXXIV**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., INV, or PAL.

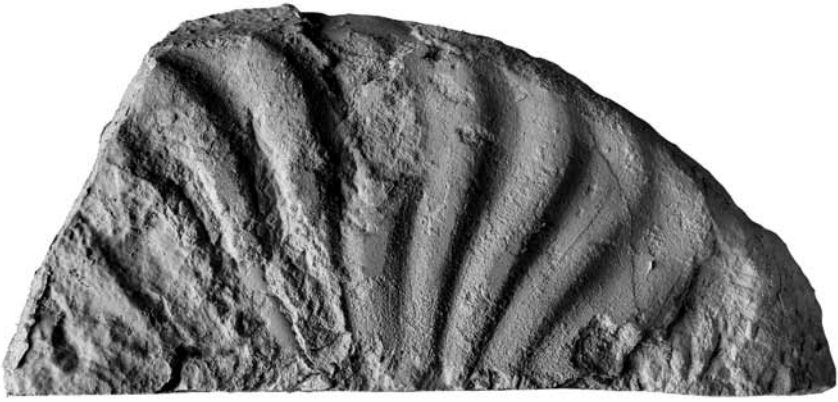
1. *Hungarites mojsisovicsi* (ROTH, 1871) — M.89.90, Vászoly, Trench P-11/a, Bed 16/A, Secedensis Zone, Crassus Subzone, lateral view.
2. *Hungarites mojsisovicsi* (ROTH, 1871) — INV 2017.301.1., Barnag, loose, Reitzi Zone (?), lateral view.
3. *Hungarites mojsisovicsi* (ROTH, 1871) — INV 2017.253.1., Felsőörs, Bed 111/D, Reitzi Zone, Avisianum Subzone, lateral view.
4. *Hungarites sinuosus* n. sp. — Paratype, M.89.100, Vászoly, Trench P-11/a, Bed 16/A, Secedensis Zone, Crassus Subzone, a: lateral view, b: ventral view.
5. *Hungarites sinuosus* n. sp. — Holotype, PAL 2017.38.1., Mencshely I, Bed 6, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.



**Plate XXXV**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography (except Figures 4a, b). Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by PAL, or INV, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

1. *Hungarites sinuosus* n. sp. — Paratype, PAL 2017.39.1., Vászoly, loose, Reitzi or Secedensis Zone, a: lateral view, b: ventral view.
2. *Hungarites sinuosus* n. sp. — Paratype, PAL 2017.40.1., Mencshely I, loose, Reitzi Zone, Avisianum Subzone (?), a: lateral view, b: ventral view.
3. *Hungarites sinuosus* n. sp. — Paratype, PAL 2017.41.1., Vászoly, loose, Reitzi or Secedensis Zone, a: lateral view, b: ventral view.
4. *Hungarites costosus* MOJISOVICS, 1882 — Holotype, T.693., Felsőörs, loose, Reitzi Zone, Avisianum Subzone (?), a: lateral view, b: ventral view.
5. *Hungarites* cf. *costosus* MOJISOVICS, 1882 — INV 2017.254.1., Felsőörs, Bed 111/E, Reitzi Zone, Avisianum Subzone, lateral view.



1a



1b



2a



2b



5



3a



3b



4a



4b

**Plate XXXVI**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by PAL.

1. *Hungarites szentei* n. sp. — Holotype, PAL 2017.42.1., Vászoly, Trench P-14, Secedensis Zone (?), Crassus Subzone (?), a: lateral view, b: ventral view.
2. *Hungarites szentei* n. sp. — Paratype, PAL 2017.43.1., Vászoly, Trench P-14, Secedensis Zone (?), Crassus Subzone (?), a: lateral view, b: ventral view.
3. *Hungarites szentei* n. sp. — Paratype, PAL 2017.44.1., Szentkirályszabadja, Bed 6, Reitzi Zone, Reitzi + Avisianum Subzone, a: lateral view, b: ventral view.
4. *Hungarites szentei* n. sp. — Paratype, PAL 2017.45.1., Szentkirályszabadja, Bed 5, Reitzi Zone, Reitzi + Avisianum Subzone, lateral view.





1b



1a



2b



2a



3a



3b

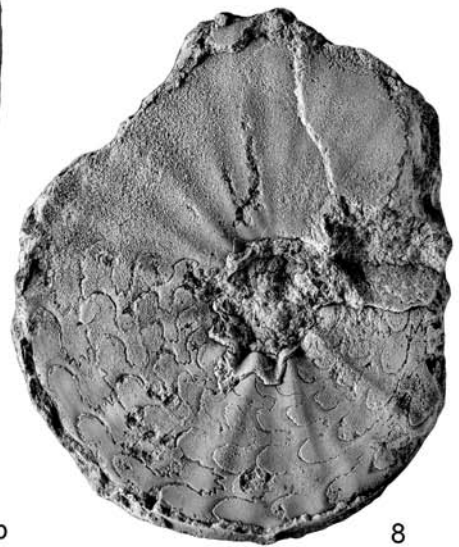
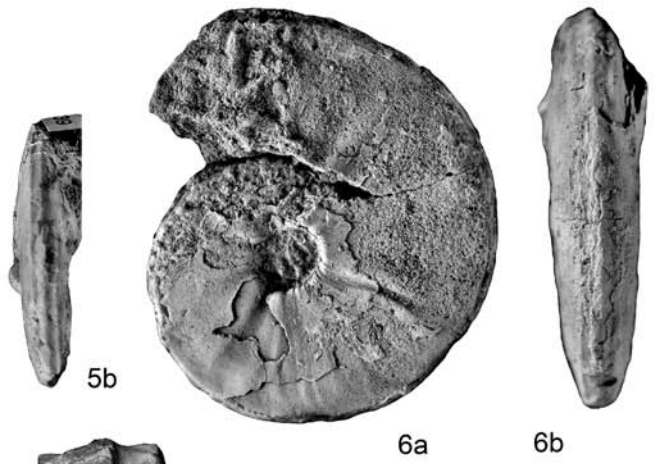
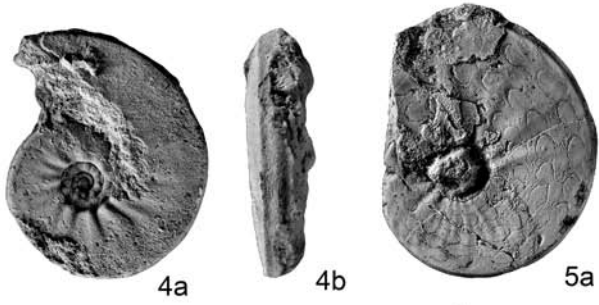
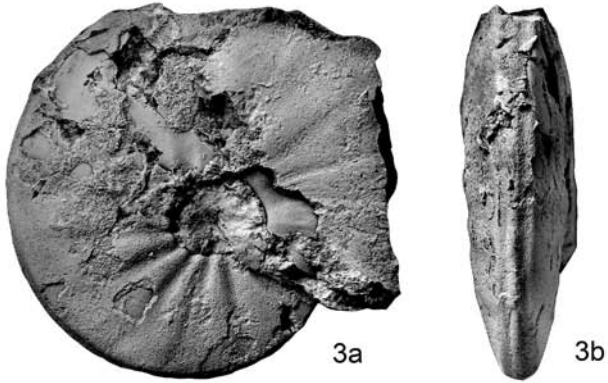
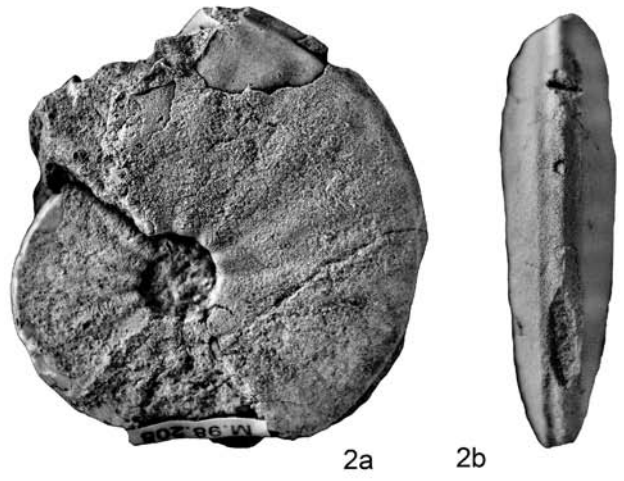
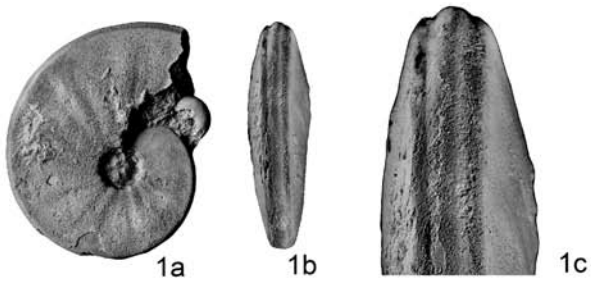


4

**Plate XXXVII**

All figures are in natural size unless otherwise indicated. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV.

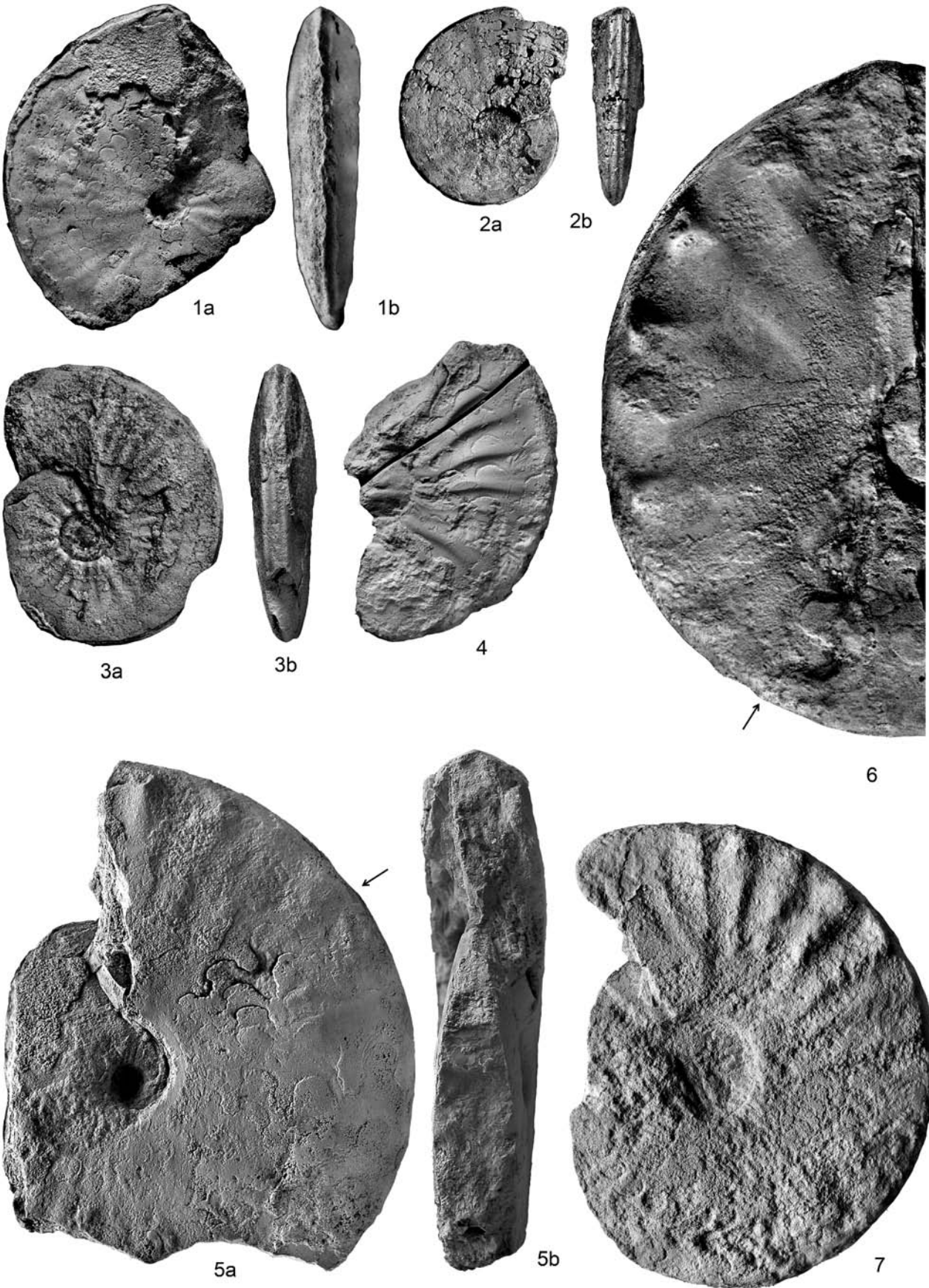
1. *Bullatihungarites emiliae* (MOJSISOVICS, 1882) — INV 2017.255.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view, c: ventral view (magnified: 2.5 ×), to show the wide, blunt keel.
2. *Bullatihungarites emiliae* (MOJSISOVICS, 1882) — M.98.208C, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.
3. *Bullatihungarites emiliae* (MOJSISOVICS, 1882) — INV 2017.256.1., Mencshely I, loose, Reitzi Zone, Reitzi Subzone (?), a: lateral view, b: ventral view.
4. *Bullatihungarites emiliae* (MOJSISOVICS, 1882) — INV 2017.257.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
5. *Bullatihungarites emiliae* (MOJSISOVICS, 1882) — M.98.239A, Sóly, Bed 7, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.
6. *Bullatihungarites emiliae* (MOJSISOVICS, 1882) — M.98.40, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.
7. *Bullatihungarites emiliae* (MOJSISOVICS, 1882) — INV 2017.258.1., Vászoly, Trench P-11/a, Bed 16/A, Secedensis Zone, Crassus Subzone, a: lateral view, b: ventral view.
8. *Bullatihungarites emiliae* (MOJSISOVICS, 1882) — M.98.229A, Sóly, Bed 7, Reitzi Zone, Avisianum Subzone, lateral view.



**Plate XXXVIII**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., INV or PAL, and in the Mining and Geological Survey of Hungary (Budapest) under the inventory numbers prefixed by T.

1. *Bullatihungarites cf. emiliae* (MOJSISOVICS, 1882) — M.98.37, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.
2. *Bullatihungarites cf. semiplicatus* (HAUER, 1896) — INV 2017.259.1., Mencshely, loose, Reitzi Zone, Avisianum Subzone (?), a: lateral view, b: ventral view.
3. *Bullatihungarites semiplicatus* (HAUER, 1896) — INV 2017.260.1., Vászoly, Trench P-11/c, Reitzi Zone, Reitzi Subzone (?), a: lateral view, b: ventral view.
4. *Bullatihungarites semiplicatus* (HAUER, 1896) — INV 2017.261.1., Mencshely I, Bed 6, Reitzi Zone, Avisianum Subzone, lateral view.
5. *Nodihungarites bocsaensis* (ARTHABER, 1903) — Holotype, T.771., Balatonfüred, Bocsár Hill, loose, Reitzi Zone, a: lateral view, b: ventral view. Arrow indicates the beginning of the body chamber.
6. *Nodihungarites bocsaensis* (ARTHABER, 1903) — INV 2017.262.1., Vászoly, Trench P-11/a, loose, Reitzi Zone, Avisianum Subzone (?), lateral view. Arrow indicates the beginning of the body chamber
7. *Nodihungarites vinczei* n. sp. — Paratype, PAL 2017.46.1., Vászoly, Trench P-11/a, loose, Reitzi Zone, Avisianum Subzone (?), lateral view. Arrow indicates the beginning of the body chamber



**Plate XXXIX**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV.

1. *Nodihungarites bocsaensis* (ARTHABER, 1903) — INV 2017.263.1., Vászoly, Trench P-11/a, loose, Reitzi Zone, Avisianum Subzone (?), a: left lateral view, b: right lateral view, c: ventral view, d: left lateral view of the same specimen, a part of the body chamber removed, e: ventral view of the same specimen, a part of the body chamber removed, to show the almost tricarinate venter on the phragmocone. Arrow indicates the beginning of the body chamber.
2. *Aplococeras avisianum* (MOJSISOVICS, 1882) — INV 2017.264.1., Mencshely, loose, Reitzi Zone, Reitzi Subzone (?), a: lateral view, b: ventral view.
3. *Aplococeras avisianum* (MOJSISOVICS, 1882) — INV 2017.265.1., Mencshely I, Bed 2, Reitzi Zone, Avisianum Subzone, lateral view.
4. *Aplococeras avisianum* (MOJSISOVICS, 1882) — M.98.170A, Sóly, Bed 1, Reitzi Zone, Avisianum Subzone, lateral view.
5. *Aplococeras avisianum* (MOJSISOVICS, 1882) — M.98.38, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone, lateral view.



1a



1d



1b



1c



1e



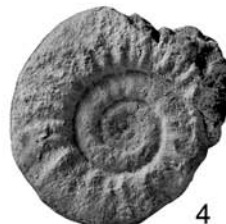
2a



2b



3



4



5

## Plate XL

All figures are in natural size unless otherwise indicated. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV.

1. *Nodihungarites vinczei* n. sp. — Holotype, M.89.81, Vászoly, Trench P-11/a, Bed 16/A, Secedensis Zone, Crassus Subzone, a: lateral view, b: ventral view. Arrow indicates the beginning of the body chamber
2. *Aplococeras avisianum* (MOJSISOVICS, 1882) — INV 2017.266.1., Mencshely I, Bed 6, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.
3. *Lecanites misanii* (MOJSISOVICS, 1882) — INV 2017.267.1., Mencshely I, Bed 5, Reitzi Zone, Avisianum Subzone, lateral view.
4. *Aplococeras avisianum* (MOJSISOVICS, 1882) — INV 2017.268.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view, c: lateral view (magnified: 2.5 ×).
5. *Aplococeras laczkoi* (ARTHABER, 1903) — M.98.52, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view, c: lateral view (magnified: 2.5 ×).
6. *Celtites* ? sp. A — INV 2017.269.1., Mencshely I, Bed 7, Reitzi Zone, Avisianum Subzone, a: lateral view, b: lateral view (magnified: 2.5 ×), c: ventral view (magnified: 2.5 ×).
7. *Celtites* ? sp. B — M.98.6, Balatoncsicsó, St. Balázs church ruins, Reitzi Zone, Avisianum Subzone (?); lateral view.
8. *Longobardites breguzzanus* MOJSISOVICS, 1882 — INV 2017.270.1., Felsőörs, Bed 99/A, Trinodosus Zone, Pseudohungaricum Subzone, lateral view.
9. *Longobardites breguzzanus* MOJSISOVICS, 1882 — INV 2017.271.1., Felsőörs, Bed 99, Trinodosus Zone, Pseudohungaricum Subzone, a: lateral view, b: ventral view.
10. *Longobardites* cf. *zsigmondyi* (BÖCKH, 1874) — INV 2017.272.1., Mencshely I, Bed 8, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
11. *Longobardites zsigmondyi* (BÖCKH, 1874) — M.98.44, Sóly, Bed 6, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.

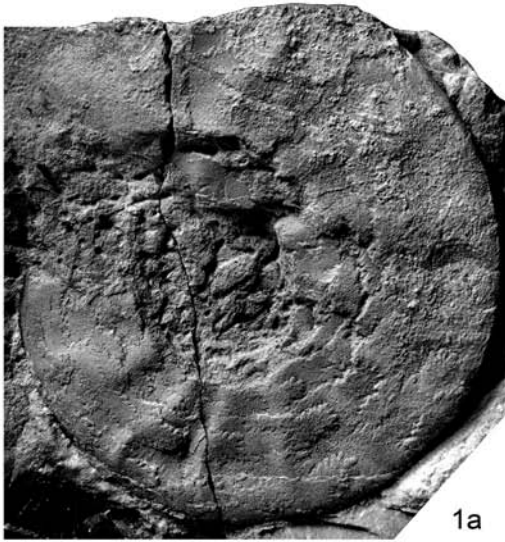




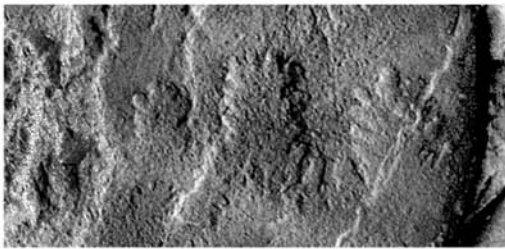
**Plate XLI**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV, unless otherwise indicated.

1. *Japonites* ? sp. — INV 2017.273.1., Felsőörs, Bed 105, Reitzi Zone, Reitzi Subzone, a: lateral view, b: partial suture line.
2. *Gymnites* sp. — INV 2017.274.1., Felsőörs, Bed 111/H, Reitzi Zone, Reitzi Subzone, silicon rubber cast of an imprint, lateral view.
3. *Tropigymnites* sp. — In private collection of K. TAMÁS (Kővágóörs), Szentbékálla, loose, Reitzi Zone (?); a: lateral view, b: ventral view.
4. *Epigymnites ecki* (MOJSISOVICS, 1882) — INV 2017.275.1., Mencshely I, Bed 2, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.
5. *Epigymnites* cf. *ecki* (MOJSISOVICS, 1882) — INV 2017.276.1., Mencshely I, Bed 3, Reitzi Zone, Avisianum Subzone, lateral view.
6. *Ptychites* cf. *oppeli* MOJSISOVICS, 1882 — M.87.018A, Szentbékálla, loose, Trinodosus Zone (?); lateral view.
7. *Flexoptychites* cf. *studer* (HAUER, 1857) — INV 2017.277.1., Vászoly, Trench P-2, Bed 4, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.



1a



1b



2



3a



3b



4a



4b



5



6



7a

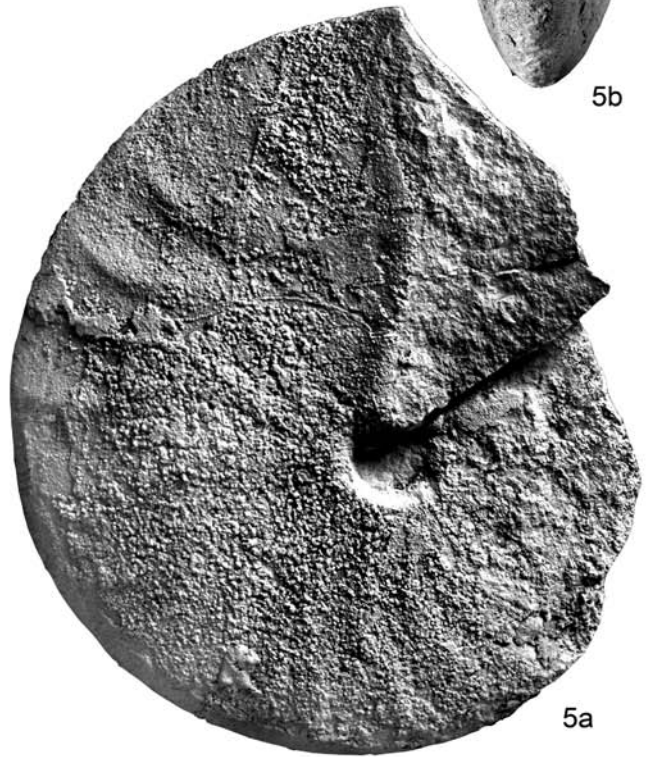
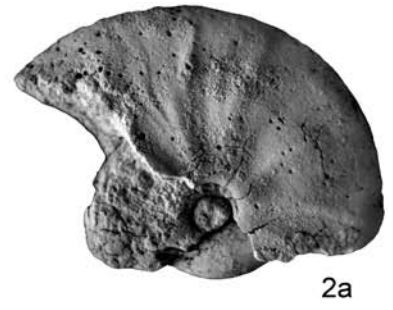
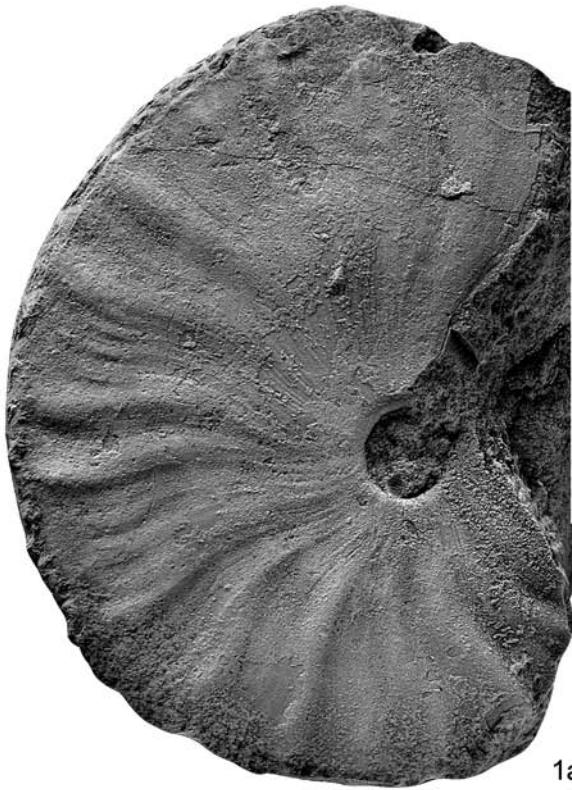


7b

**Plate XLII**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography. Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV.

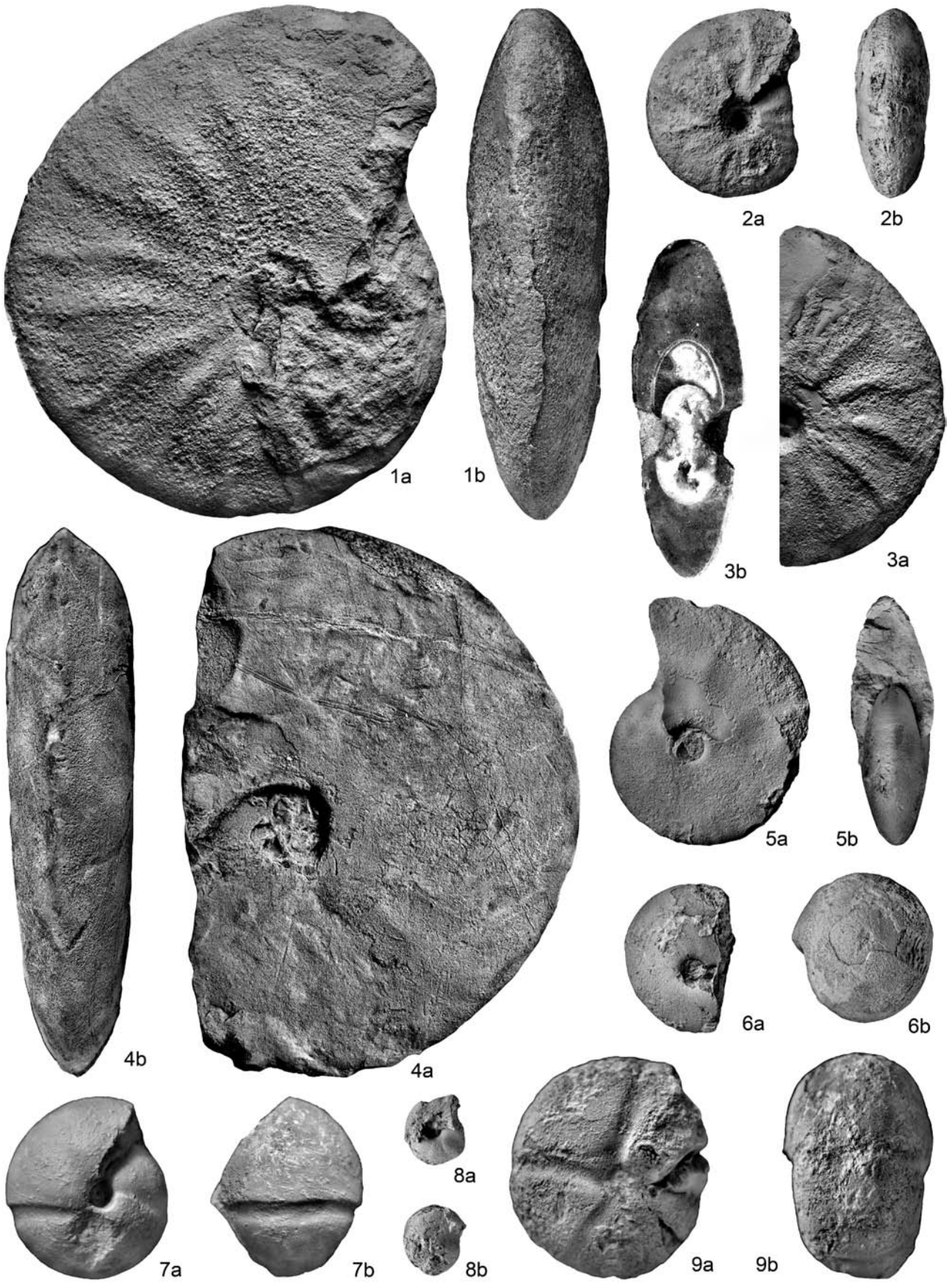
1. *Flexoptychites angustoumbilicatus* (BÖCKH, 1872) — INV 2017.278.1., Felsőörs, Bed 97, Trinodosus Zone, Pseudohungaricum Subzone, a: lateral view, b: ventral view.
2. *Flexoptychites angustoumbilicatus* (BÖCKH, 1872) — M.89.130A, Vászoly, Trench P-11/a, Bed 14, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
3. *Flexoptychites angustoumbilicatus* (BÖCKH, 1872) — INV 2017.279.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
4. *Flexoptychites angustoumbilicatus* (BÖCKH, 1872) — INV 2017.280.1., Felsőörs, Bed 111/E, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.
5. *Flexoptychites angustoumbilicatus* (BÖCKH, 1872) — INV 2017.281.1., Szentkirályszabadja, Bed 18, Reitzi Zone, Felsőeoersensis + Liepoldti Subzone, a: lateral view, b: ventral view..



**Plate XLIII**

All figures are in natural size. Specimens have been coated with ammonium chloride before photography (except Fig. 3b). Specimens are deposited in the collection of the Department of Paleontology and Geology, Hungarian Natural History Museum (Budapest), under the inventory numbers prefixed by M., or INV.

1. *Flexoptychites flexuosus* (MOJSISOVICS, 1882) — INV 2017.282.1., Szentkirályszabadja, Bed 14, Reitzi Zone, Felsőeoersensis + Liepoldti Subzone, a: lateral view, b: ventral view.
2. *Flexoptychites flexuosus* (MOJSISOVICS, 1882) — INV 2017.283.1., Mencshely I, Bed 9, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
3. *Flexoptychites flexuosus* (MOJSISOVICS, 1882) — INV 2017.284.1., Szentkirályszabadja, Bed 14, Reitzi Zone, Felsőeoersensis + Liepoldti Subzone, a: lateral view, b: cross section.
4. *Flexoptychites* cf. *acutus* (MOJSISOVICS, 1882) — M.87.017, Szentbékállá, loose, Reitzi Zone (?), a: lateral view, b: ventral view.
5. *Parasturia* cf. *emmrichi* (MOJSISOVICS, 1882) — INV 2017.285.1., Mencshely I, Bed 3, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.
6. *Proarcestes* sp. — INV 2017.286.1., Mencshely I, loose, Reitzi Zone, Reitzi Subzone (?), a: lateral view, b: ventral view.
7. *Proarcestes* sp. — INV 2017.287.1., Felsőörs, Bed 111/H, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.
8. *Proarcestes* sp. — INV 2017.288.1., Mencshely I, Bed 8, Reitzi Zone, Reitzi Subzone, a: lateral view, b: ventral view.
9. *Proarcestes* sp. — INV 2017.289.1., Mencshely I, Bed 5, Reitzi Zone, Avisianum Subzone, a: lateral view, b: ventral view.



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The present volume is dedicated to the systematic description of the Late Anisian ammonoid fauna of the Balaton Highland. With 2104 identified ammonoid specimens, 85 species and 37 genera, it is one of the most diverse among the Anisian brachiopod faunas of the Alpine region and probably of the world.

The discovery of this exceptionally rich fauna is chiefly due to the pioneering geological work and publications by J. BÖCKH from 1870 to 1874, and the subsequent monograph by MOJSISOVICS (1882). In the framework of the ambitious international project entitled “Wissenschaftliche Erforschung des Balatonsees” (Scientific Research of the Lake Balaton), led and supervised by L. LÓCZY, the publications by DIENER (1899, 1900) ARTHABER (1903) and FRECH (1903) significantly contributed to the knowledge of the Anisian ammonoids of the Balaton Highland. After several decades, the field works done by I. SZABÓ and T. BUDAI (and many others) stimulated new, systematic collections of fossils done by the staff of the Geological Institute of Hungary. In the early 1980's, excavations and bed-by-bed collections of several key sections were carried out under the supervision of the present author and yielded several thousand ammonoid specimens from the Anisian strata of the Balaton Highland. The Late Anisian ammonoid fauna had significance for establishing the Ladinian GSSP; this interest invoked the modern re-evaluation of the ammonoid biostratigraphy of the Balaton Highland (VÖRÖS 1993, VÖRÖS et al. 1996, 2003b, 2009). The palaeoecological, and palaeobiogeographical aspects of the diverse ammonoid fauna were also published (VÖRÖS 1992, 1996, 2001, 2002) and some general patterns of ammonoid extinctions and diversity changes were also discussed (VÖRÖS 2010b, 2014).

The introductory part of the monograph contains a chapter on the Upper Anisian stratigraphy of the Balaton Highland, including concise description of the lithostratigraphy. The next, voluminous chapter presents the descriptions of the sections and localities; the stratigraphic columns of the sections with the ranges of the ammonoid taxa, and the full data base of the collected ammonoids.

The main part, devoted to the systematic palaeontology of the fauna, comprises descriptions of 85 species belonging to 37 genera. Four of the genera and fourteen of the species are described here as new taxa. The descriptions are illustrated with 65 drawings of cross sections and suture lines. At the end, 43 photographic plates demonstrate the external features of the described ammonoid species.

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