

Selected Acanthoceratids from Hokkaido : Studies of the Cretaceous Ammonites from Hokkaido and Saghalien-XIX

Matsumoto, Tatsuro
Faculty of Science, Kyushu University

Muramoto, Tatsuo
Mikasa kaseki Dokokai (Mikasa Association of Non-professional Palaeontologists) : Leader

Takahashi, Takemi
Mikasa kaseki Dokokai (Mikasa Association of Non-professional Palaeontologists)

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Tatsuro MATSUMOTO
Tatsuo MURAMOTO and Takemi TAKAHASHI
Selected Acanthoceratids from Hokkaido

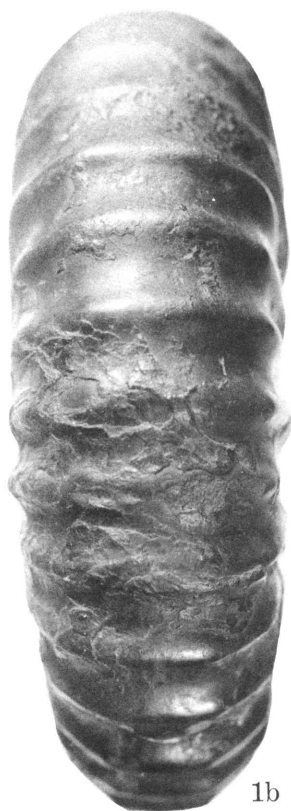
Plates 25~38

Kyushu University (I. HAYAMI) photos, without whitening.

Plate 25

Explanation of Plate 25

- Figs. 1-2. *Mantelliceras japonicum* MATSUMOTO, MURAMOTO and TAKAHASHI,
n. sp. Page 253
1. Holotype, GK. H5428 an adult shell from loc. Ik 1100, the Ikushumbets, subzone of *Mantelliceras japonicum*, lower part of unit IIb, Mikasa Formation (T. MURAMOTO Coll. 12716). Lateral (a) and ventral (b) views.
 2. Paratype, GK. H5426, an example of middle growth-stage, from the type-locality (T. MURAMOTO Coll. 27400). Lateral (a) and ventral (b) views, $\times 1$.



1b



2a



2b



1a

Plate 26

Explanation of Plate 26

- Figs. 1-3. *Mantelliceras japonicum* MATSUMOTO, MURAMOTO and TAKAHASHI,
n. sp.Page 253
1. Holotype, GK. H5428, from loc. Ik 1100, the Ikushumbets, subzone of *Mantelliceras japonicum*, lower part of unit IIB, Mikawa Formation (T. MURAMOTO Coll. 12716). Lateral view, $\times 1$.
 2. Paratype, GK. H5426, an example of middle growth-stage, from the type-locality (T. MURAMOTO Coll. 27400). Lateral (a) and frontal views, $\times 1$.
 3. Paratype, GK. H5594, an example of immature shell, from loc. Ik 1065g, Shimo-ichi-no-sawa, Ikushumbets (T. MATSUMOTO Coll.). Lateral (a) and ventral views, $\times 1.5$.

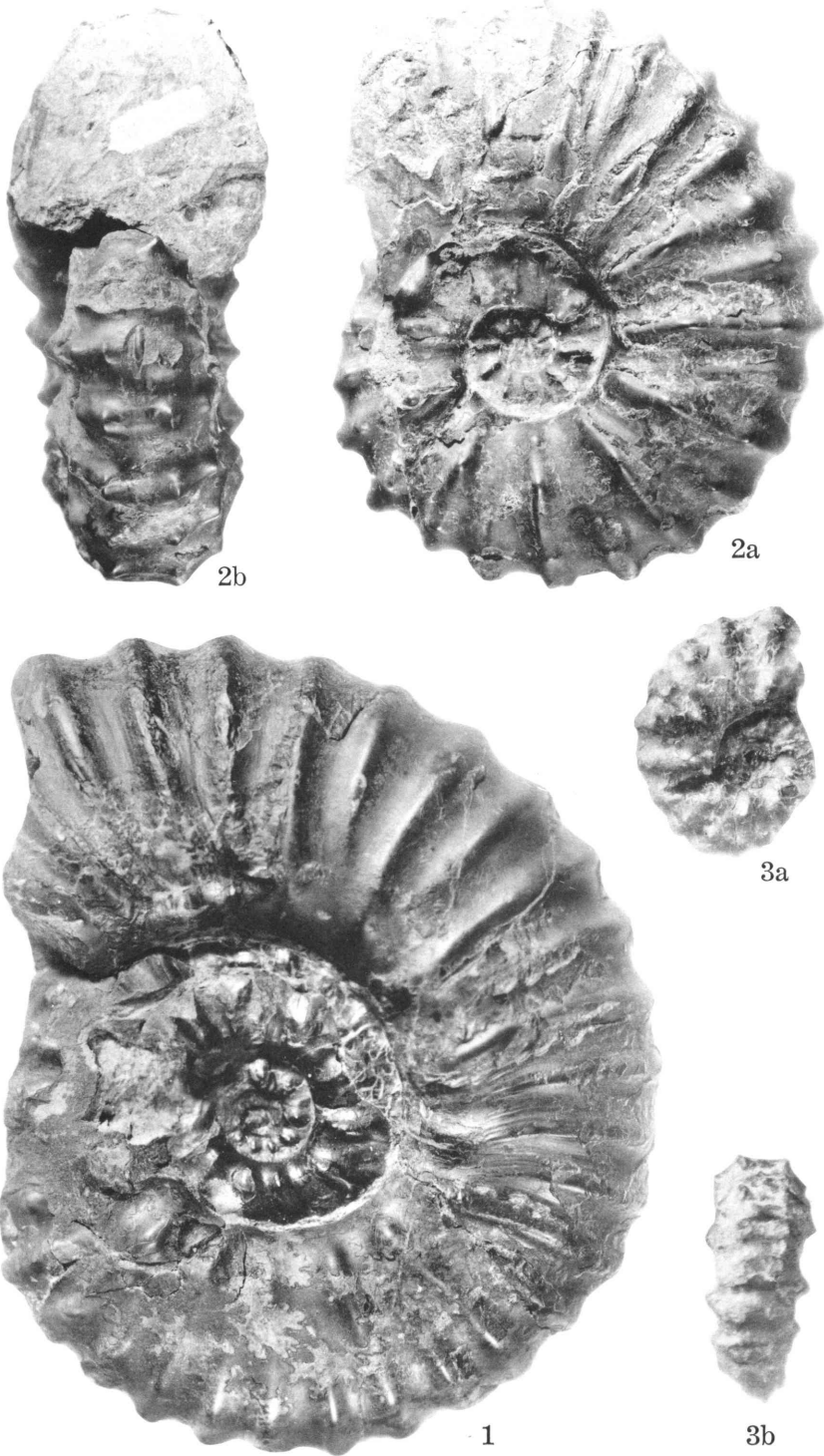


Plate 27

Explanation of Plate 27

- Figs. 1-2. *Mantelliceras japonicum* MATSUMOTO, MURAMOTO and TAKAHASHI, n. sp.Page 253
1. Paratype, GK. H5427, and immature shell, from loc. Ik 1100 (type-locality), Ikushumbets (T. MURAMOTO Coll. 12701). Lateral (a,b) and ventral (c) views, $\times 1.5$.
 2. Paratype, GK. H5609, comparatively compressed example of middle growth-stage, from loc. Ik 1100 (type-locality), Ikushumbets (T. TAKAHASHI Coll. 39.7.19.1). Lateral (a) and apertural (b) views, $\times 1$.
- Fig. 3. *Mantelliceras cantianum* SPATHPage 256
- GK. H5608, an example of middle growth-stage, from loc. Ik 1100, the Ikushumbets, lower part of unit Iib of the Mikasa Formation, subzone of *Mantelliceras japonicum* (T. TAKAHASHI Coll. 405161). Lateral (a) and ventral (b) views, $\times 1$.

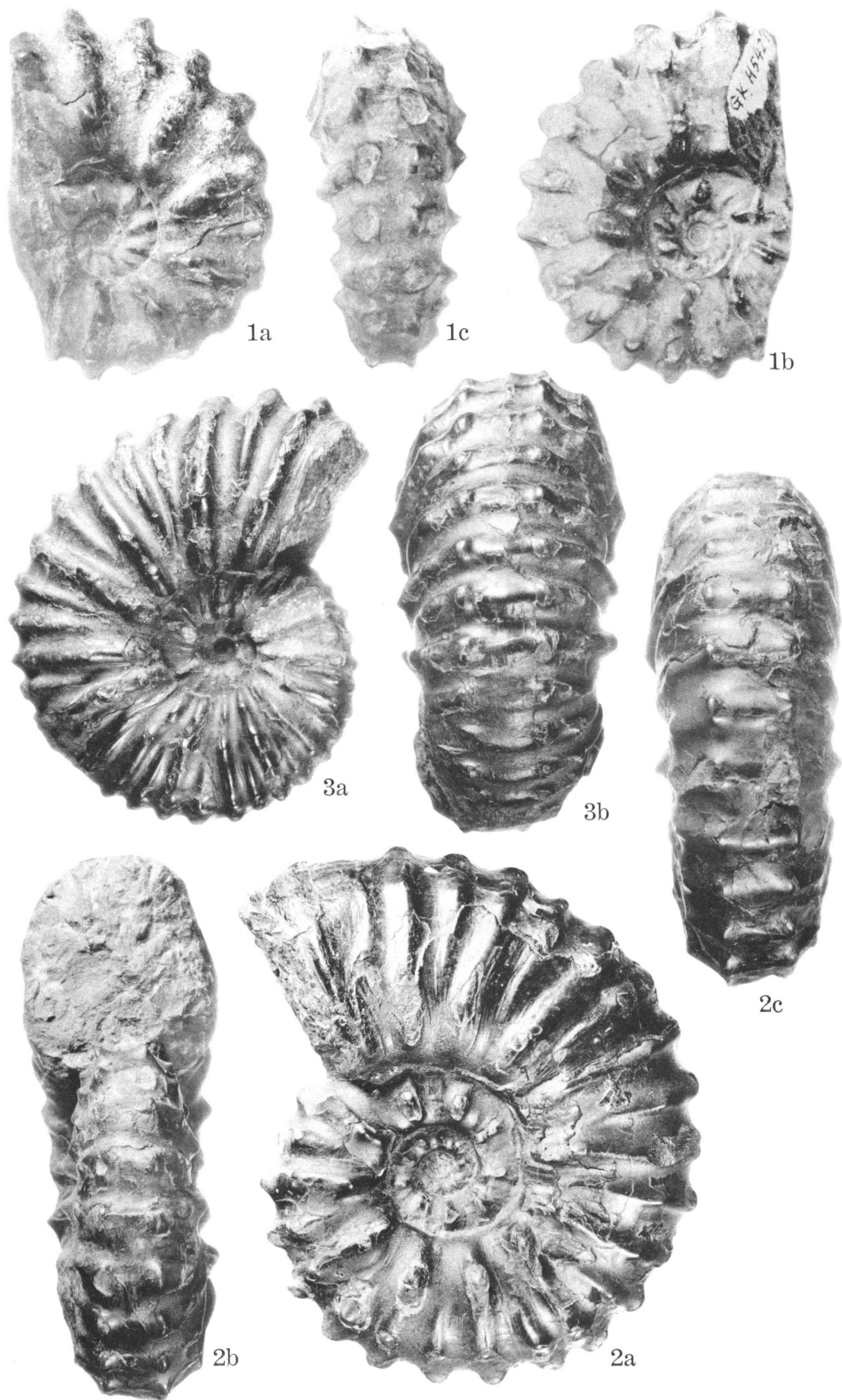


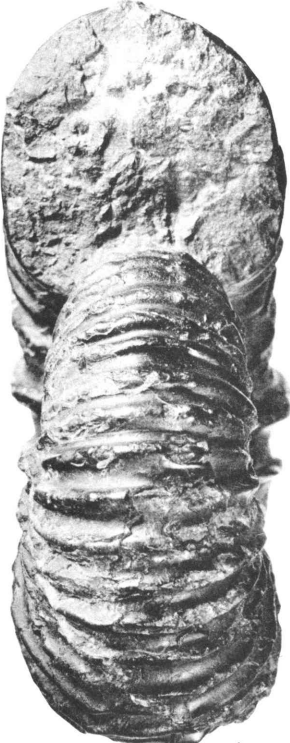
Plate 28

Explanation of Plate 28

Fig. 1. *Mantelliceras* sp. aff. *Mantelliceras cantianum* SPATHPage 256
GK. H5610, an adult shell, from loc. Ik 1100, Ikushumbets, lower part of
unit Iib, Mikasa Formation, subzone of *Mantelliceras japonicum* (T.
TAKAHASHI Coll. 40.7.18 TA 10). Two lateral (a,b), apertural (c) and
ventral (d) views, $\times 1$. This has more crowded ribs and less persistent
ribs than the typical form of *M. cantianum*. The last portion of its body-
whorl is reduced in size, especially in breadth, and tends to become evolute,
showing a scaphitoid aspect. The ribbing is partly in disorder.



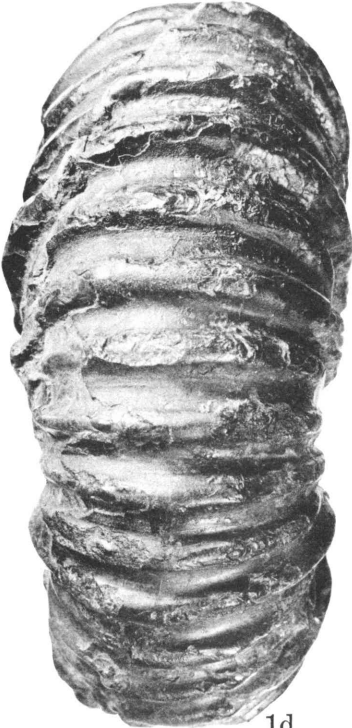
1a



1c



1b



1d

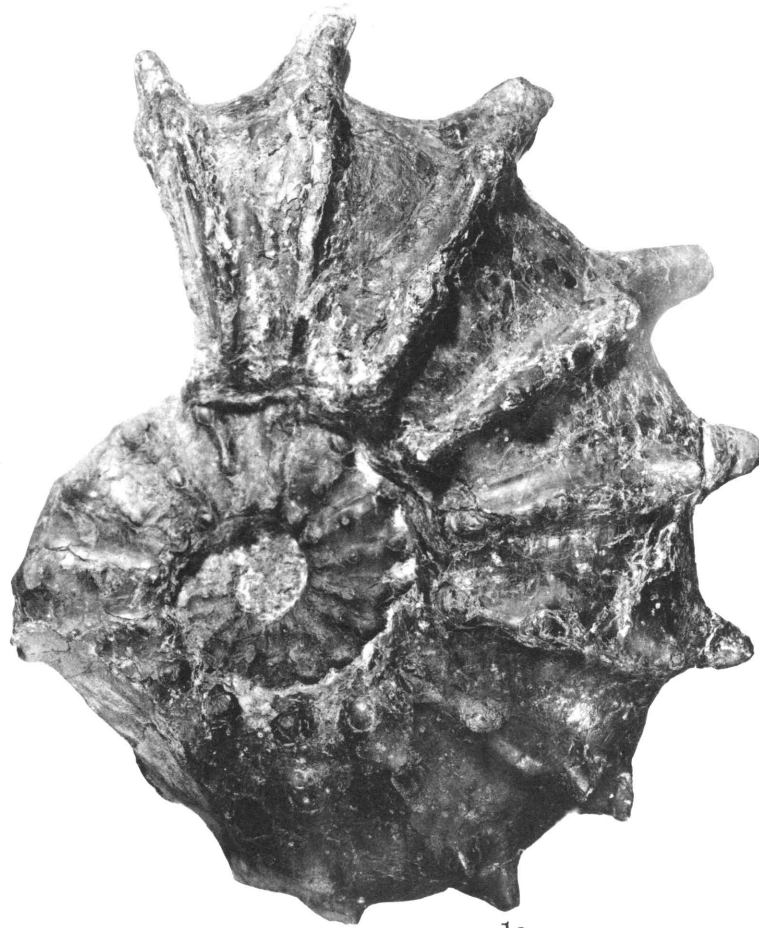
Plate 29

Explanation of Plate 29

Fig. 1. *Sharpeiceras kongo* MATSUMOTO, MURAMOTO and TAKAHASHI,
n. sp.Page 261
Holotype, T. TAKAHASHI Coll. No. 425261, from loc. Ik 1100, the Ikushumbets,
lower part of unit IIb, Mikasa Formation, subzone of *Mantelliceras japonicum*.
Lateral (a), apertural (b) and ventral (c) views of a large adult shell,
×0.4.



1b



1a



1c

Plate 30

Explanation of Plate 30

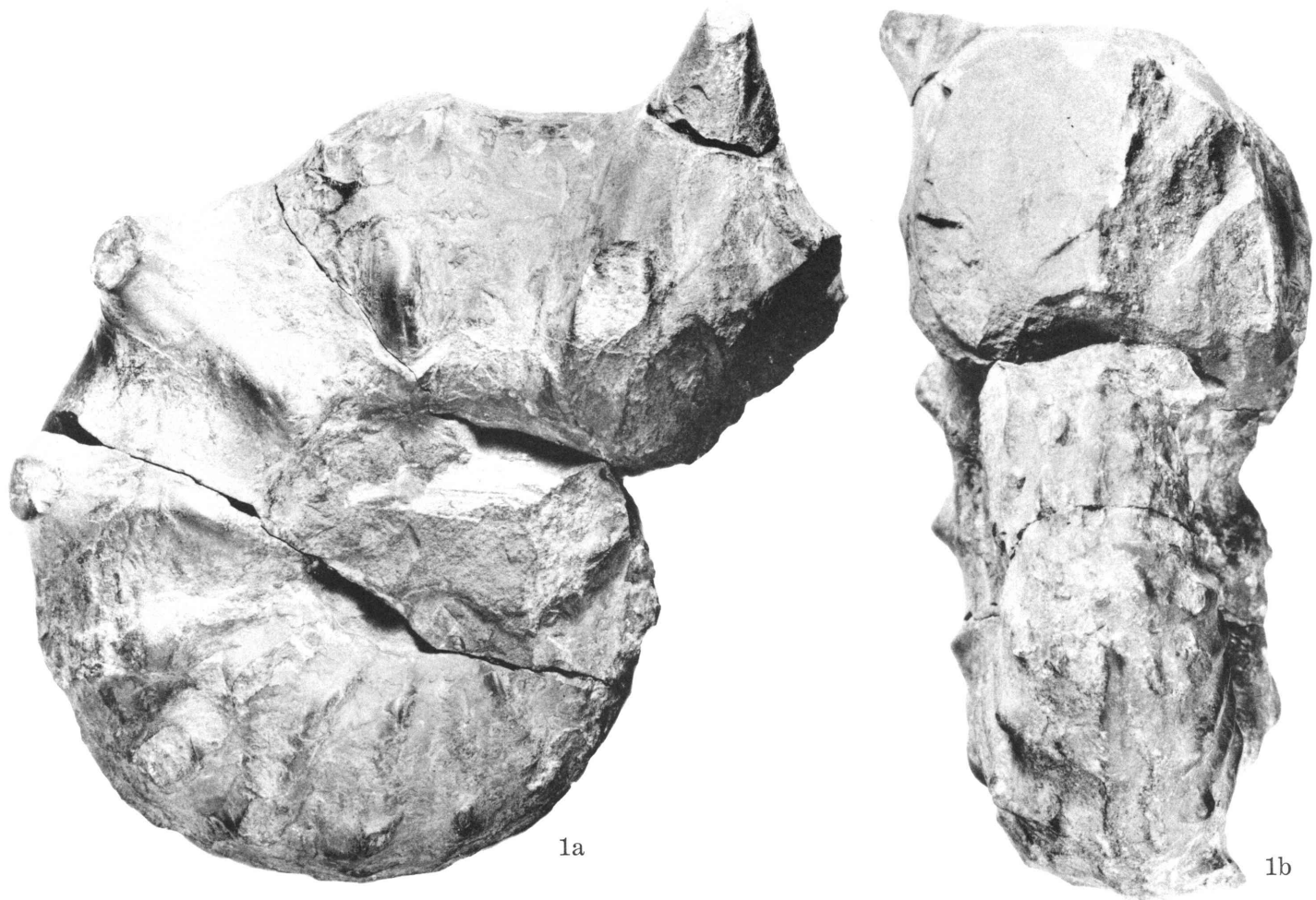
Fig. 1. *Sharpeiceras kongo* MATSUMOTO, MURAMOTO and TAKAHASHI,
n. sp.Page 261
Holotype, T. TAKAHASHI Coll. No. 425261, from loc. Ik 1100, the Ikushumbets,
lower part of unit IIb, Mikasa Formation, subzone of *Mantelliceras*
japonicum. Lateral view, $\times 0.5$. (see Pl. 29 for other views.)



Plate 31

Explanation of Plate 31

Fig. 1. *Acanthoceras amphibolum* MORROWPage 266
GK. H5593, from loc. Ik 1052, the Ikushumbets, middle part of unit IIb,
Mikasa Formation (SHIBUYA-Mikasa High School Coll.). Lateral (a) and
ventral (b) views, $\times 1$.



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Plate 32

Explanation of Plate 32

Fig. 1. *Acanthoceras cornigerum* CRICKPage 268
GK. H5607, from loc. Ik 1102, the Ikushumbets, middle part of unit IIb,
Mikasa Formation (T. TAKAHASHI Coll. 427201). Lateral (a) and ventral
(b) views, $\times 1$.



1a



1b

Plate 33

Explanation of Plate 33

- Figs. 1-2. *Euomphaloceras meridionale* (STOLICZKA)Page 272
1. GK. H5612, from loc. Ik 1052, the Ikushumbets, middle part of unit IIb, Mikasa Formation (K. MURAMOTO Coll., 12456). Lateral view of the whole specimen (1a); lateral (b), ventral (c) and frontal (d) views of inner whorl, $\times 1$.
 2. GK. H5613, an immature example from loc. Ik 1103, Nishikatsura-zawa, Mikasa Sandstone on the western wing (T. TAKAHASHI Coll. 371231). Lateral (a), ventral (b) and apertural (c) views, $\times 1.5$.

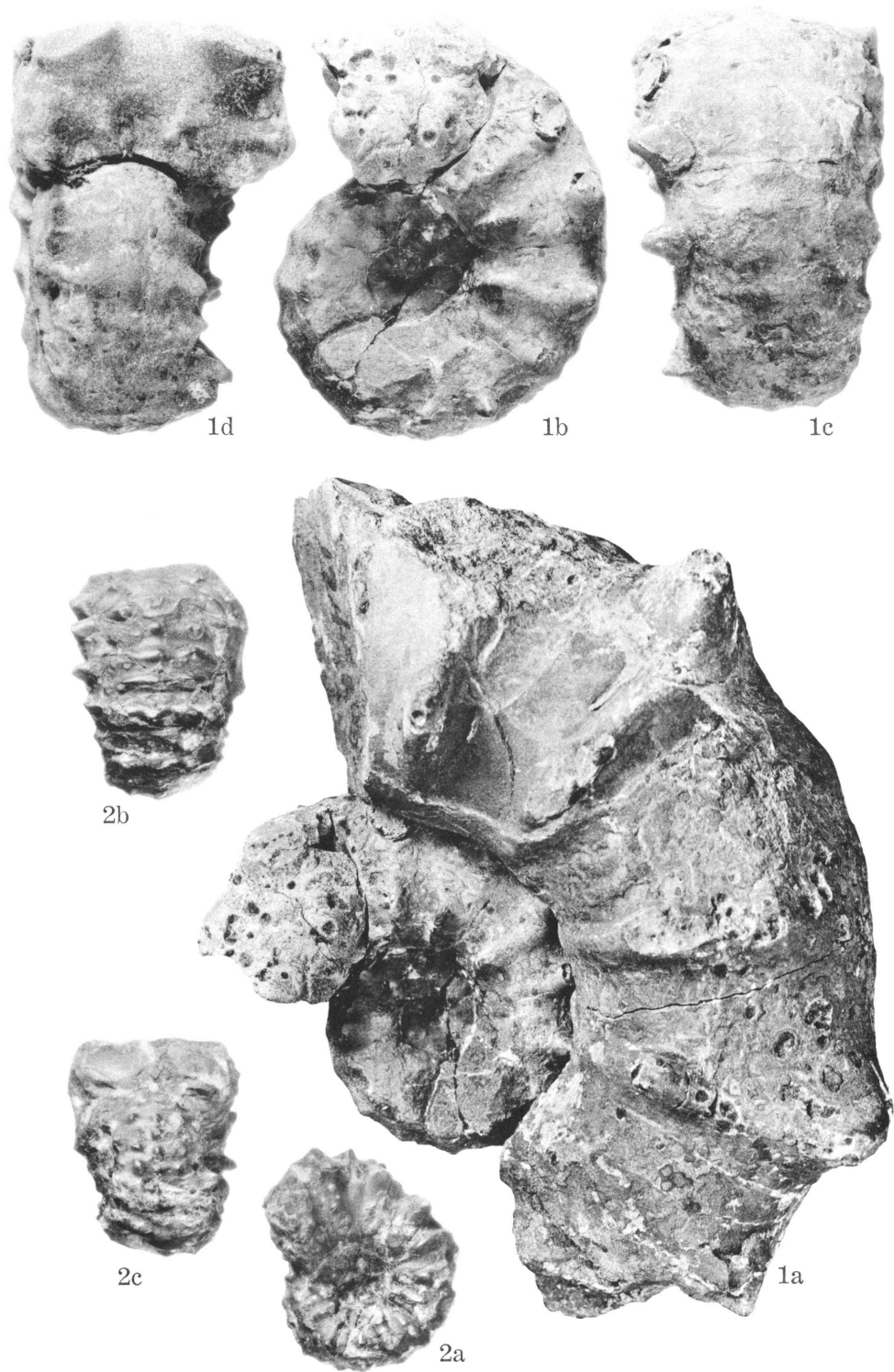


Plate 34

Explanation of Plate 34

Fig. 1. *Euomphaloceras meridionale* (STOLICZKA)Page 272
GK. H5592, a fall from loc. Ik 1052, near Ohashi, Ikushumbets valley,
probably derived from the middle part of member IIb, Mikasa Formation
(M. WADA-Mikada High School Coll.). Lateral (a) and ventral (b) views,
×0.6.

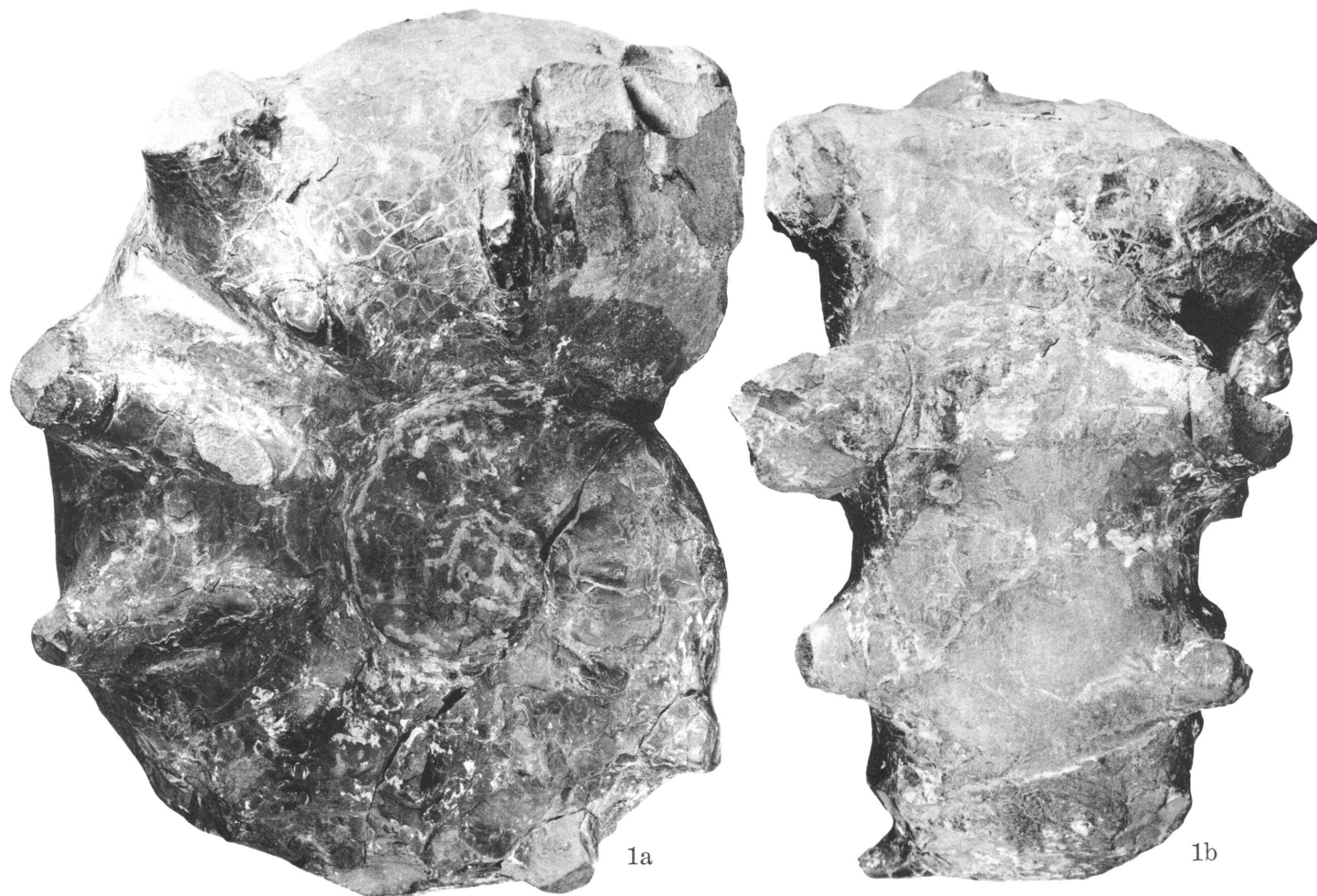


Plate 35

Explanation of Plate 35

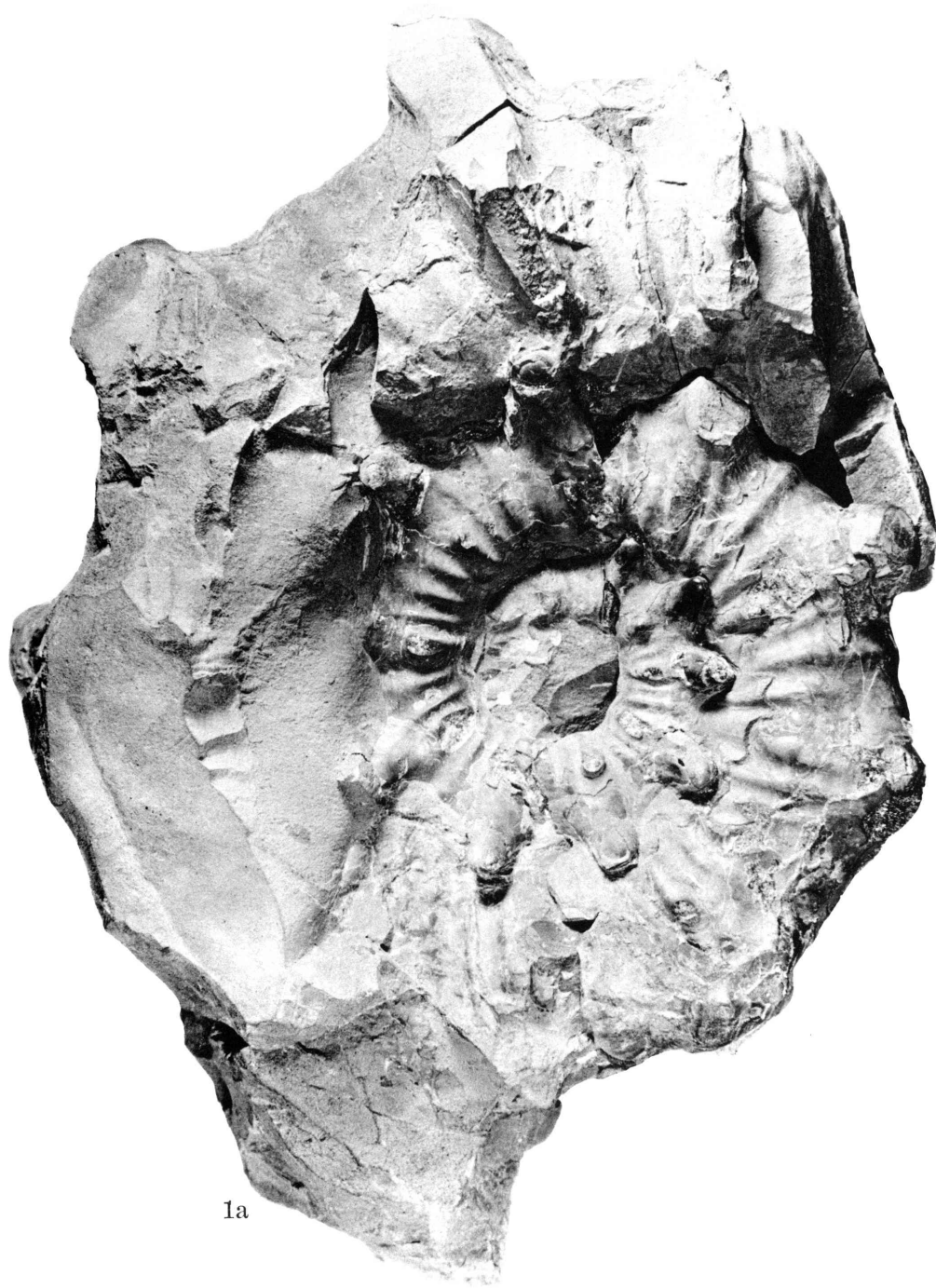
Fig. 1. *Euomphaloceras asura* MATSUMOTO and MURAMOTO, n. sp. . . . Page 277
GK. H5602, holotype, from loc. T 1165p, Saku-gakko-no-sawa, derived from
unit IIb-c, Abeshinai-Saku area, northwest Hokkaido (T. MATSUMOTO and
T. MURAMOTO Col.). Lateral (a) and ventral (b) views, $\times 0.8$.



Plate 36

Explanation of Plate 36

Fig. 1. *Euomphaloceras asura* MATSUMOTO and MURAMOTO, n. sp. . . Page 277
GK. H5602, holotype, from loc. T 1165p, Saku-gakko-no-sawa, derived from
unit IIb-c, Abeshinai-Saku area, northwest Hokkaido (T. MATSUMOTO and
T. MURAMOTO Coll.). Lateral (a) and frontal (b) views, $\times 0.8$. The frontal
view is upside down, with apertural part filled with rock matrix, in which
a fragmentary body-whorl of *Anagaudryceras* is seen.



1a



1b

Plate 37

Explanation of Plate 37

- Figs. 1-3. *Kanabicerias septemseriatum* (CRAGIN)Page 279
1. GK. H5601, an immature example, from loc. Ik 987f, Ikushumbets, uppermost part of member IIc, Mikasa Formation (Coll. T. MATSUMOTO). Two lateral (a,b), ventral (c) and frontal views, $\times 1.5$.
 2. GK. H5562, a fragmentary whorl, from Suido-no-sawa, Ikushumbets, uppermost part of member IIc, Mikasa Formation (Coll. T. TAKAHASHI). Lateral (a) and ventral (b) views, $\times 1$.
 3. GK. H5614, from loc. Ik 1038, Ikushumbets, uppermost part of member IIc, Mikasa Formation (Coll. T. MURAMOTO). Lateral (a), ventral (b) and frontal (c) views, $\times 1$.

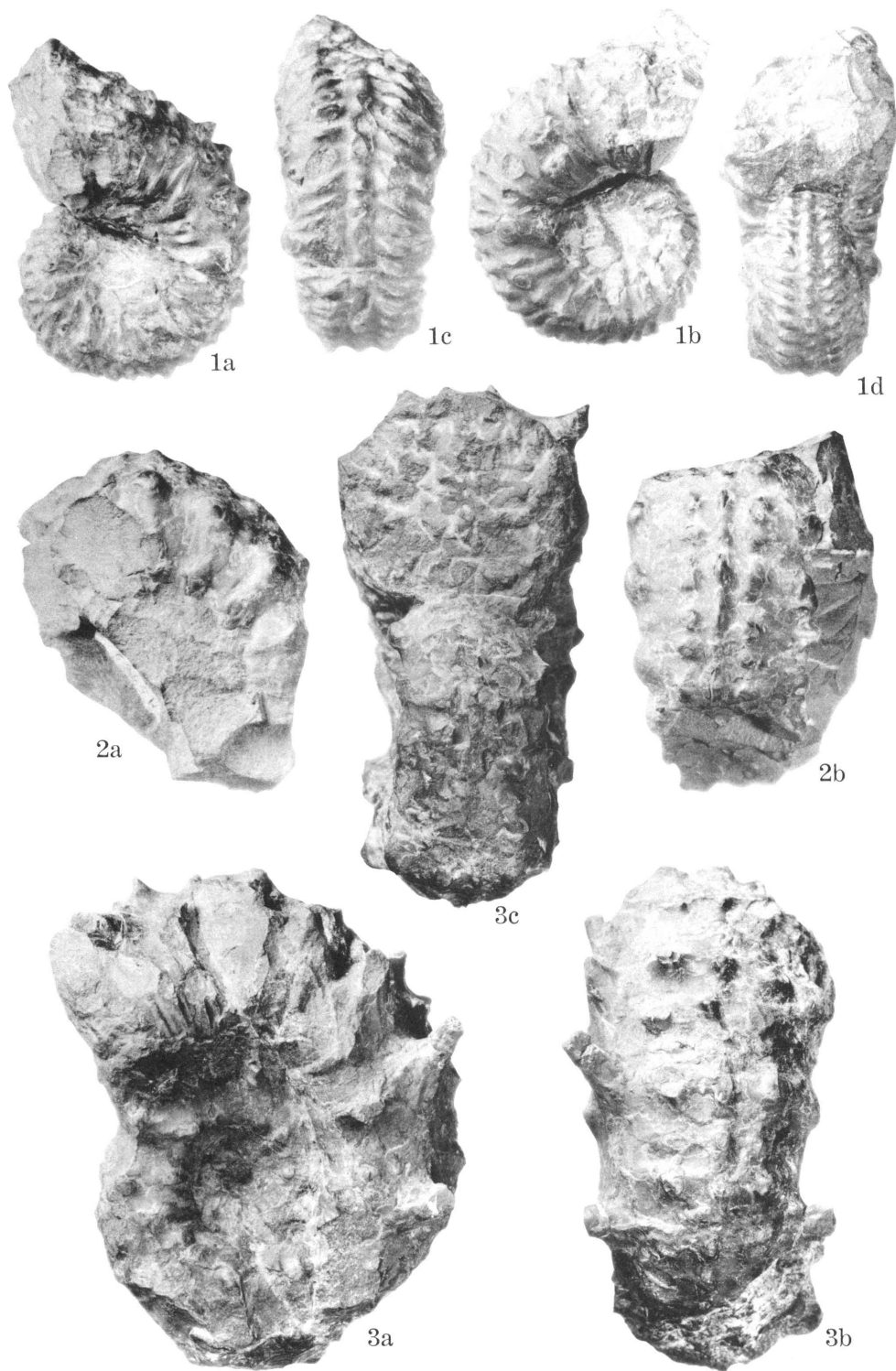


Plate 38

Explanation of Plate 38

- Figs. 1-4. *Sumitomoceras faustum* MATSUMOTO and MURAMOTO, sp. nov.Page 283
1. Holotype, GK. H5595, adult shell, from loc. Ik 1038, uppermost part of member IIc, Mikasa Formation, Ikushumbets valley (T. MURAMOTO Coll.). Two lateral (a,b), frontal (c) and ventral (d) views, $\times 1$.
 2. Paratype, GK. H5617, early immature shell, from loc. Ik 1038 (type-locality) (T. MURAMOTO Coll.). Lateral (a) and ventral views, $\times 2$.
 3. Paratype, GK. H5600, late immature shell, from loc. Ik 980p, near the type-locality (T. MURAMOTO Coll.). Two lateral (a,b), frontal (c) and ventral (d) views, $\times 1.5$. A part of the last whorl is secondarily deformed.
 4. Paratype, GK. H5561, from loc. Ik 1038 (type-locality) (T. TAKAHASHI Coll.). Lateral view, $\times 1$. This specimen is nearly as large as the holotype but wholly septate.

