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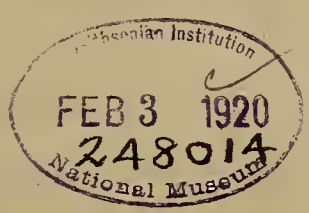
Crust. Alcock, Alfred

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Illustrations of the zoology of

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EXPLANATION OF PLATES.

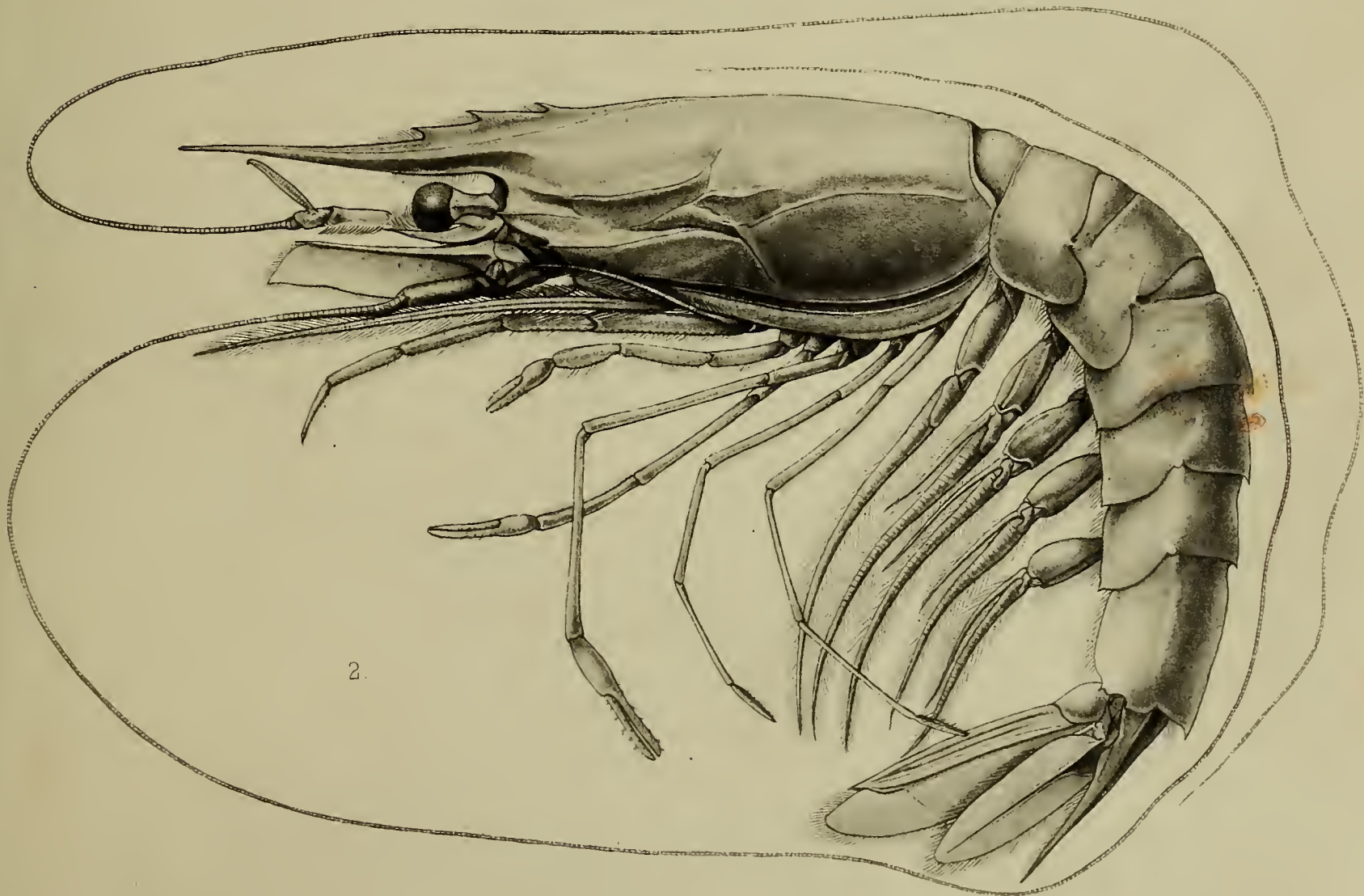
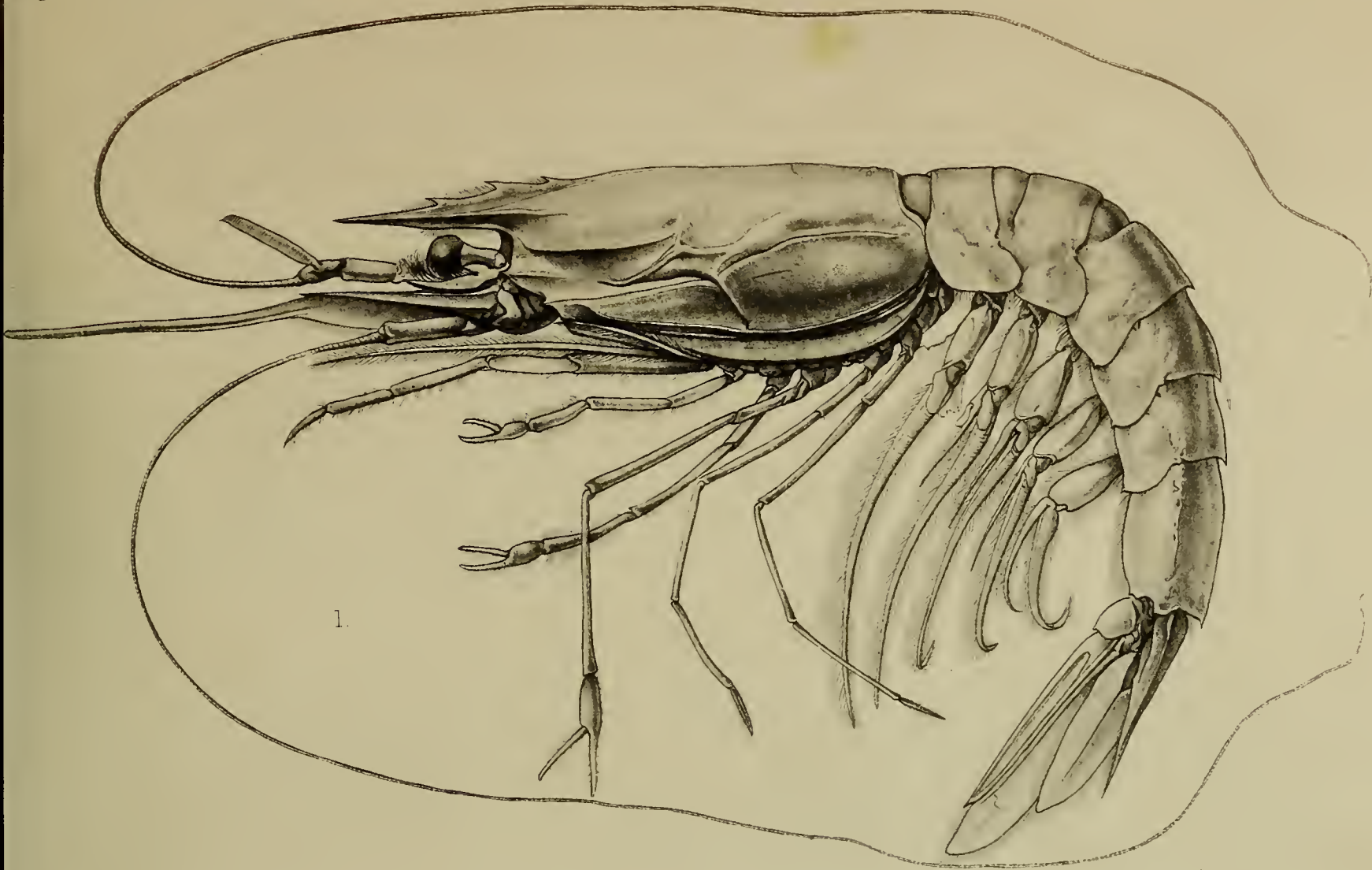
CRUSTACEA,

[UNDER THE DIRECTION OF J. WOOD-MASON.]

PLATE I.

Fig. 1.—*Aristæopsis Edwardsiana*, (Johnson), ♂.

Fig. 2.—*Aristæopsis Edwardsiana*, (Johnson), ♀, *Annals and Magazine of Natural History*, October, 1891, pp. 283 to 285.



1. *Aristæopsis Edwardsiana*, (Johnson) ♂.
 2. " " " " ♀.

A.C. Chowdhary, del.

Photo-etching from the original drawings - Survey of India Offices, Calcutta, August 1892.

EXPLANATION OF PLATES.

CRUSTACEA,

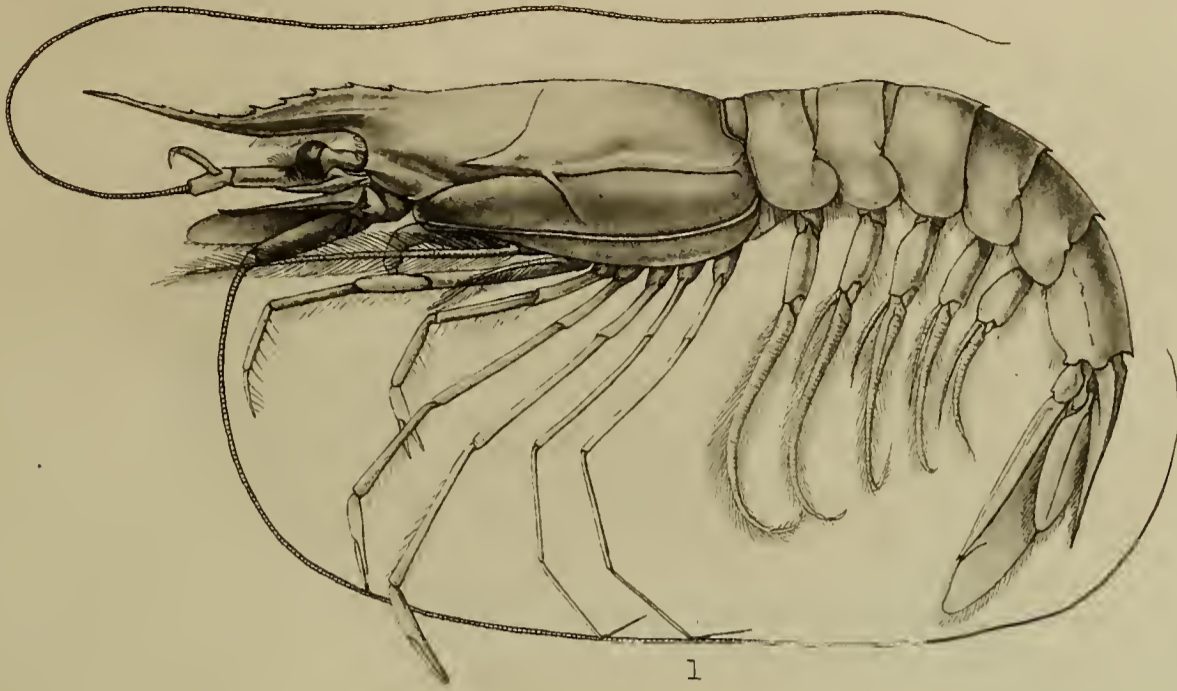
[UNDER THE DIRECTION of J. WOOD-MASON.]

PLATE II.

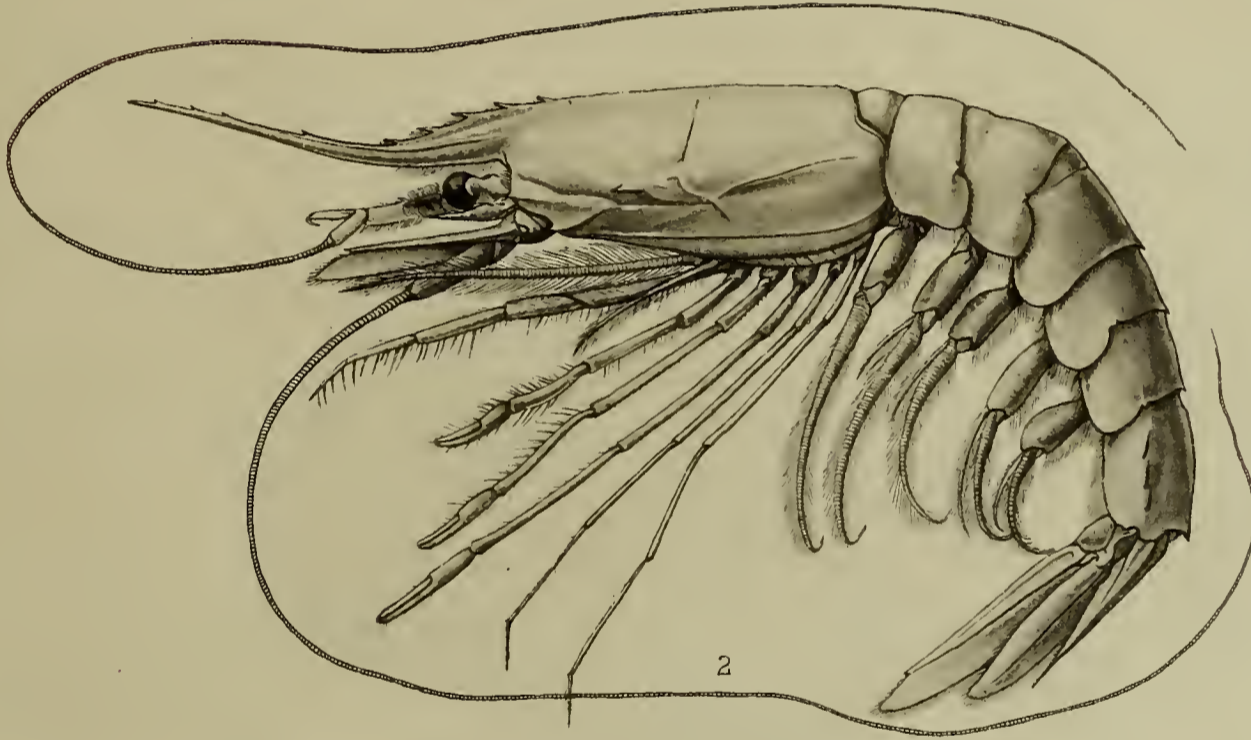
Fig. 1.—*Aristæomorpha rostridentata*, (S. Bate), ♀, Annals and Magazine of Natural History, October, 1891, p. 286.

Fig. 2.—*Aristæomorpha Giglioliana*, W.-M., ♀.

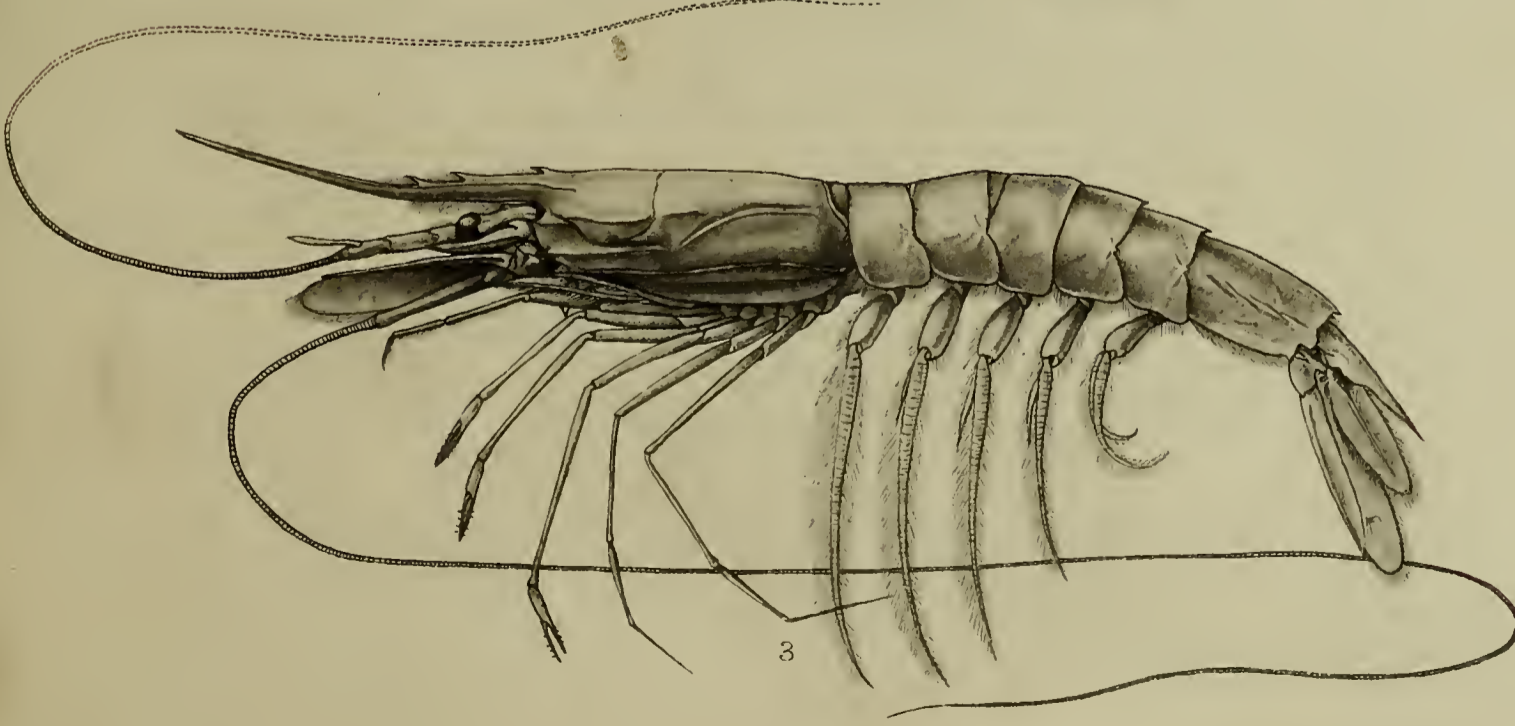
Fig. 3.—*Aristæus coruscans*, W.-M., ♀, Annals and Magazine of Natural History, October, 1891, pp. 280 and 281.



1



2



3

1. *Aristæomorpha rostridentata*, (S. Bate), ♀. 2. *Aristæomorpha Giglioliana*, W. M., ♀. 3. *Aristæus coruscans*, W. M., ♀.

EXPLANATION OF PLATES.

CRUSTACEA,

[UNDER THE DIRECTION of J. WOOD-MASON.]

PLATE III.

Fig. 1.—*Acantheephyra armata*, A. M.-E., var. ♂, Annals and Magazine of Natural History, May, 1892, pp. 359 to 361.

Fig. 2.—*Acantheephyra brachytelsonis*, Bate, ♂, Annals and Magazine of Natural History, May, 1892, pp. 362 to 364.

Fig. 3.—*Acantheephyra sanguinea*, W.-M., ♀, Annals and Magazine of Natural History, May, 1892, pp. 358 and 359.

Fig. 4.—*Acantheephyra curtirostris*, W.-M., ♀, Annals and Magazine of Natural History, February, 1891, p. 195, and May, 1892, pp. 364 and 365.

Fig. 5.—*Pasiphaë (Phye) Alcocki*, W.-M., ♂, Annals and Magazine of Natural History, February, 1891, pp. 196 and 197.

Fig. 6.—*Pasiphaë sivado*, (Risso),* ♂.

Fig. 7.—*Pasiphaë unispinosa*,* W.-M., ♀.

Fig. 8.—*Parapasiphaë Gilesii*,* W.-M., ♀.

* About to be described in the "Annals and Magazine of Natural History."



1. *Acanthephyra armata*, A. M. E., var. ♂. 2. *A. brachytelsonis*, Bate, ♂. 3. *A. sanguinea*, W. M., ♀. 4. *A. curtirostris*, W. M., ♀. 5. *Pasiphae* (Phye) Alcocki, W. M., ♂.
 6. *Pasiphae sivado*, (Russo), ♂. 7. *P. unispinosa*, W. M., ♀. 8. *Parapasiphae Gilesii*, W. M., ♀.

EXPLANATION OF PLATES.

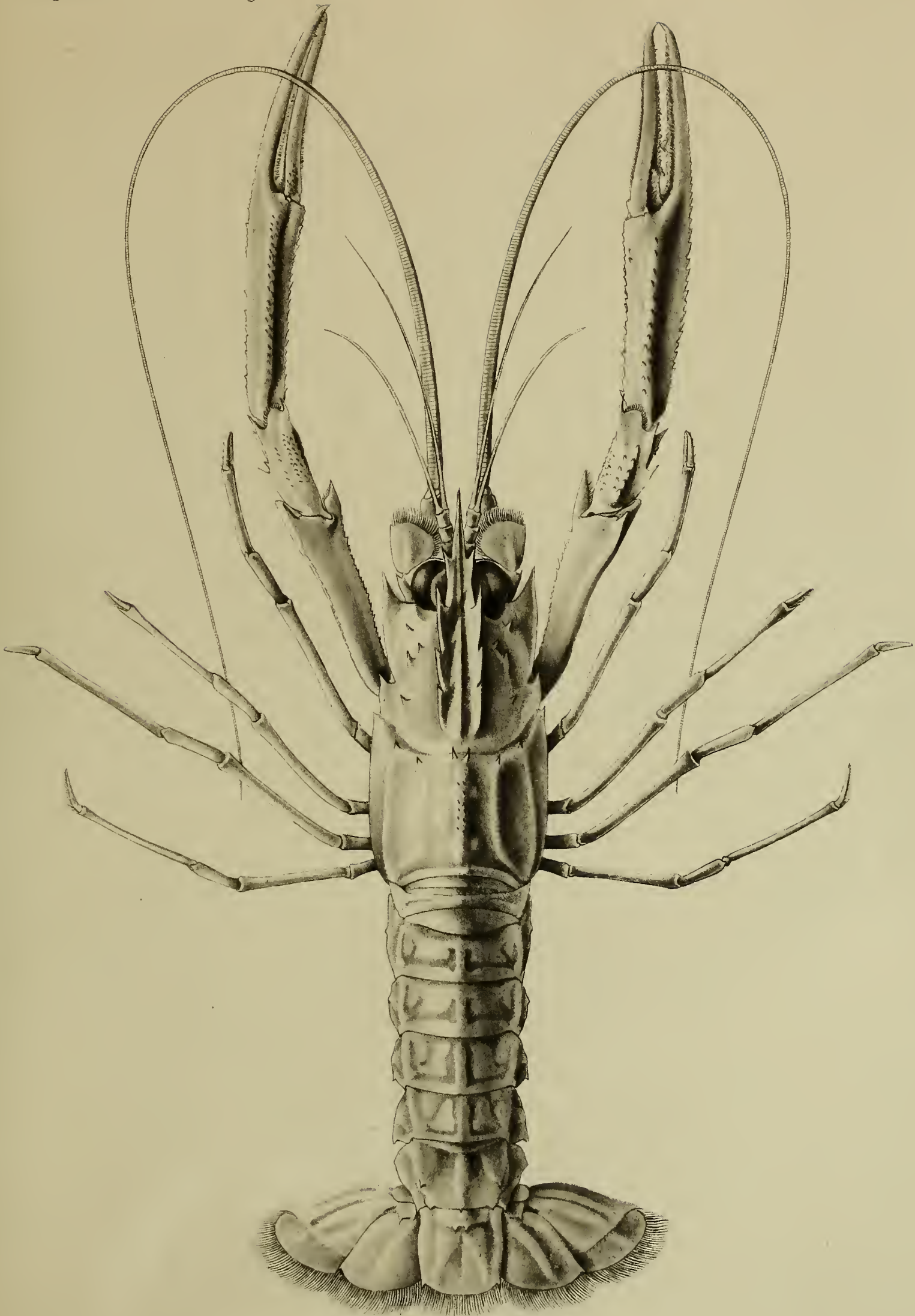
CRUSTACEA,

[UNDER THE DIRECTION of J. WOOD-MASON.]

PLATE IV.

Nephrops andamanicus,* W.-M., ♂.

* About to be described in the "Annals and Magazine of Natural History."



Nephrops Andamanicus, W.-M., ♂.

EXPLANATION OF PLATES.

CRUSTACEA,

[UNDER THE DIRECTION of J. WOOD-MASON.]

PLATE V.

Fig. 1.—*Psopheticus stridulans*,* W.-M., ♂.

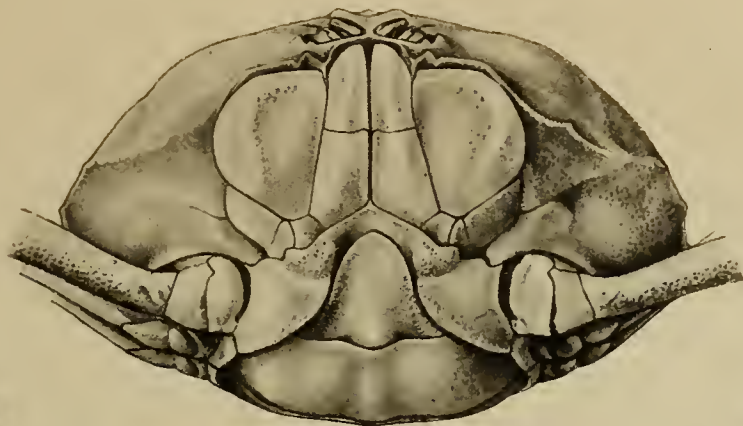
Fig. 2.—*Sphenomerus trapezioides*, W.-M., ♀, *Annals and Magazine of Natural History*, March, 1891, p. 263.

Figs. 3, 3a.—*Parilia Alcocki*, W.-M., ♀, *Annals and Magazine of Natural History*, March, 1891, pp. 264 to 266.

Fig. 4.—*Randallia pustulosa*, W.-M., ♀, *Annals and Magazine of Natural History*, March, 1891, pp. 266 and 267.

Figs. 5, 5a, 5b.—*Randallia lamellidentata*,* W.-M., ♂.

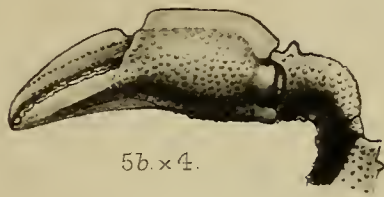
* About to be described in the "*Annals and Magazine of Natural History*."



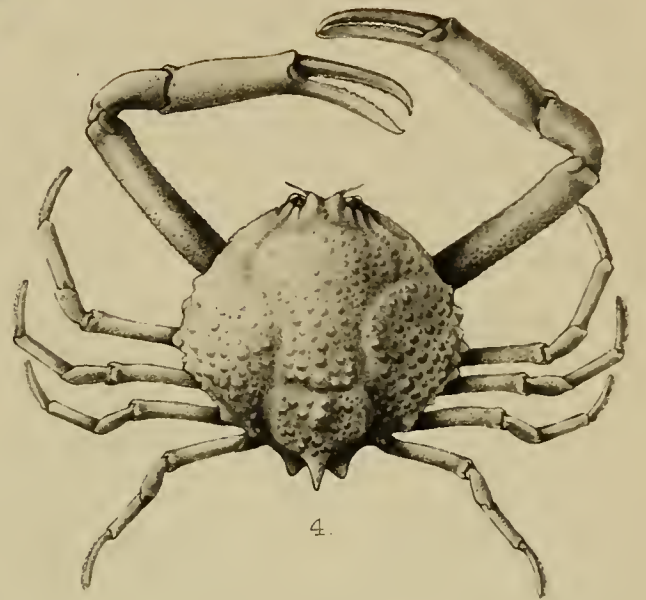
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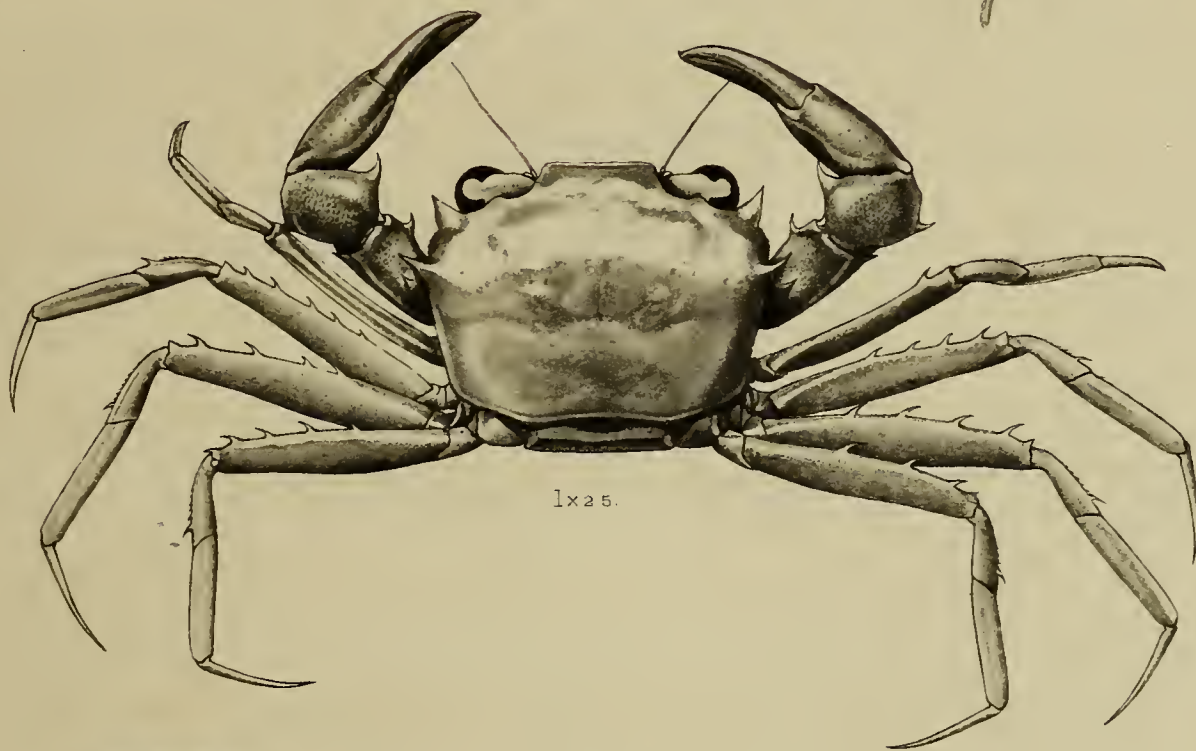
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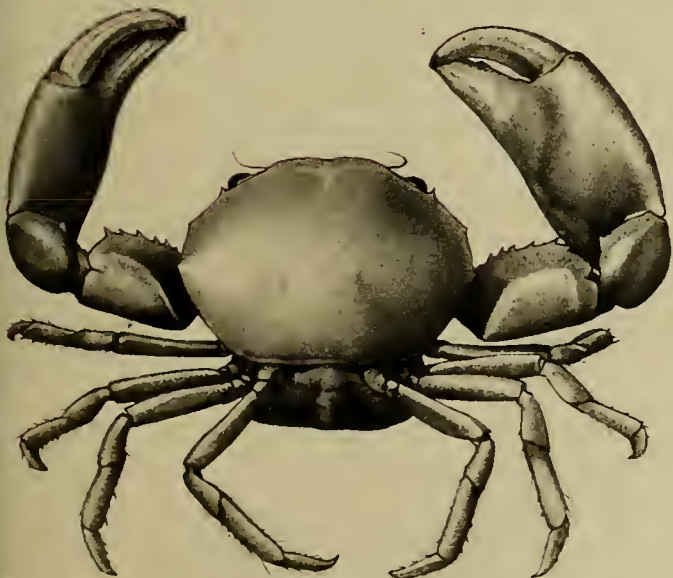
5b.x4.



4.



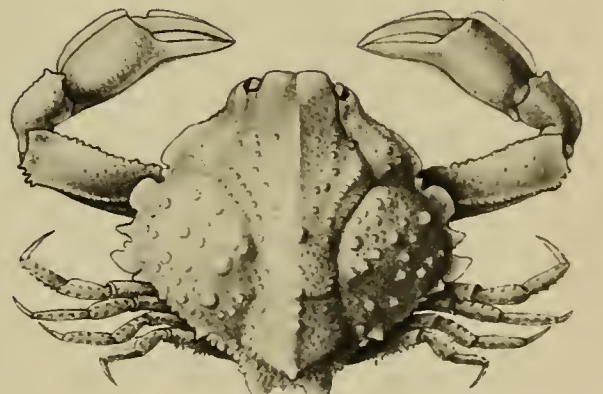
1x25.



2x3.



5a.x4.



5x3.

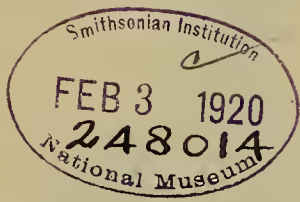
1. *Psopheticus stridulans*. W-M. ♂. 2. *Sphenomerus trapezioides*. W-M. ♀. 3. *Parilia Alcocki* W-M. ♀
 4. *Randallia pustulosa*. W-M. ♀. 5. *Randallia lamellidentata*. W-M. ♂.

Investigator

Illustrations of the zoology of

pt. 2

pl. 6-8



EXPLANATION OF PLATES.

—♦—
CRUSTACEA.

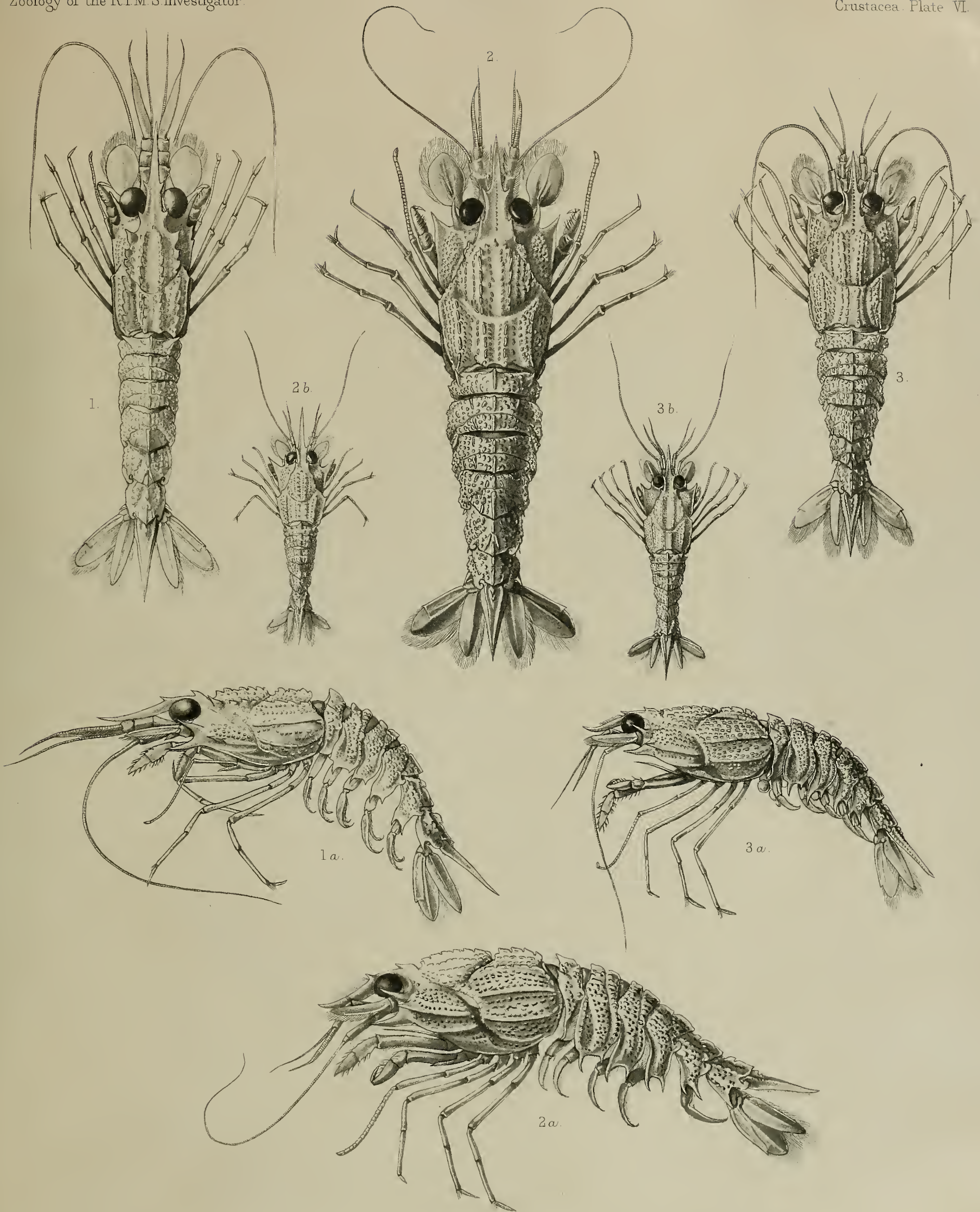
[UNDER THE DIRECTION OF THE LATE J. WOOD-MASON AND OF A. ALCOCK.]

—♦—
PLATE VI.

Figs. 1, 1a.—*Glyphocrangon priononota*, ♂, Annals and Magazine of Natural History, February, 1891, p. 192.

Figs. 2, 2a, 2b.—*Glyphocrangon investigatoris*, var. *andamanensis*, ♀, Annals and Magazine of Natural History, November, 1891, pp. 356 and 357.

Figs. 3, 3a, 3b.—*Glyphocrangon investigatoris*, ♀, Annals and Magazine of Natural History, February, 1891, p. 191.



1, 1 a, *Glyphocrangon priononota*, ♂ 2, 2 a, *Glyphocrangon investigatoris*, var. *andamanensis*, ♀ 2 b, Juv. ♀

3, 3 a, *Glyphocrangon investigatoris*, ♀ 3 b, Juv. ♀

C. Chowdhary del.
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EXPLANATION OF PLATES.

CRUSTACEA.

[UNDER THE DIRECTION OF THE LATE J. WOOD-MASON AND OF A. ALCOCK.]

PLATE VII.

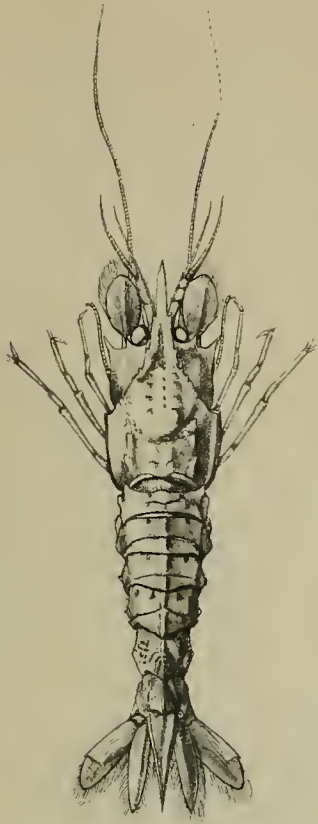
Figs. 1, 1a.—*Glyphocrangon cæca*, ♀, Annals and Magazine of Natural History, November, 1891, pp. 357 and 358.

Figs. 2, 2a.—*Glyphocrangon unguiculata*, ♀, Annals and Magazine of Natural History, February, 1891, pp. 193 and 194.

Figs. 3, 3a.—*Glyphocrangon smithii*, ♂, Annals and Magazine of Natural History, November, 1891, p. 357.

Figs. 4, 4a.—*Glyphocrangon gilesii*, ♀, Annals and Magazine of Natural History, February, 1891, p. 193.

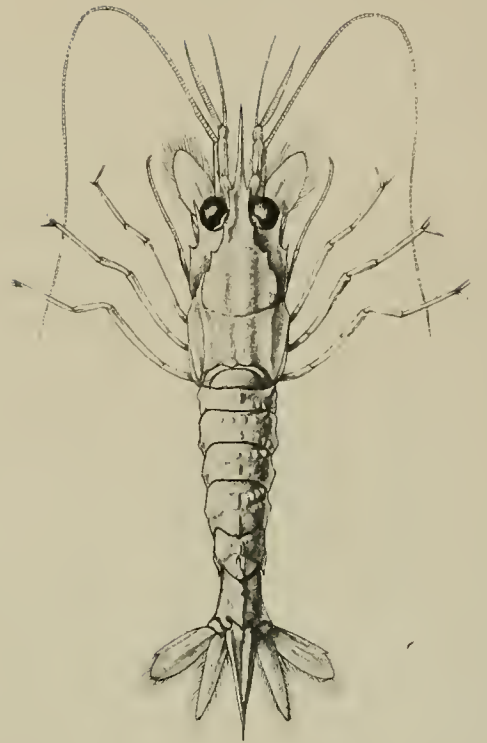
Figs. 5, 5a.—*Glyphocrangon cæcescens*, ♂, Annals and Magazine of Natural History, November, 1891, pp. 357 and 358.



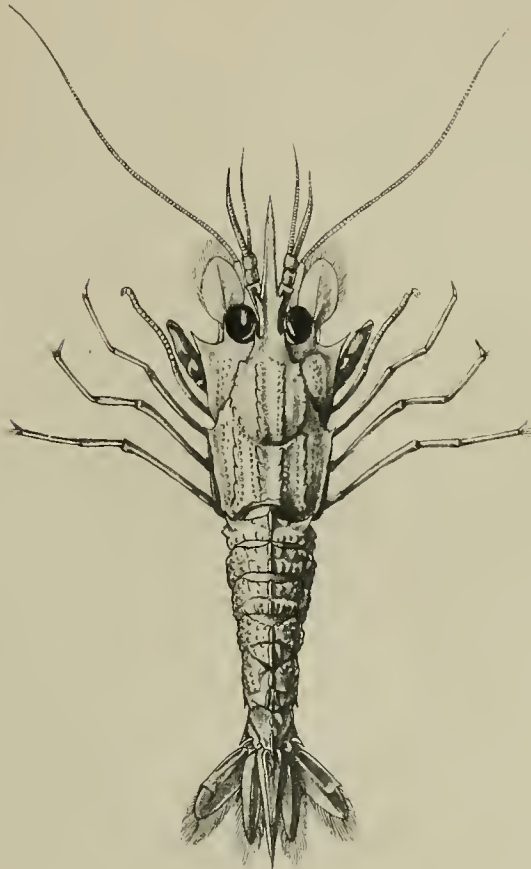
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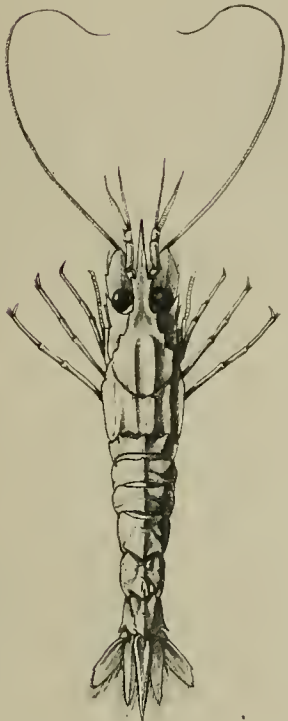
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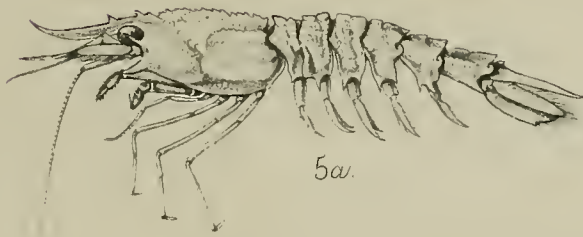
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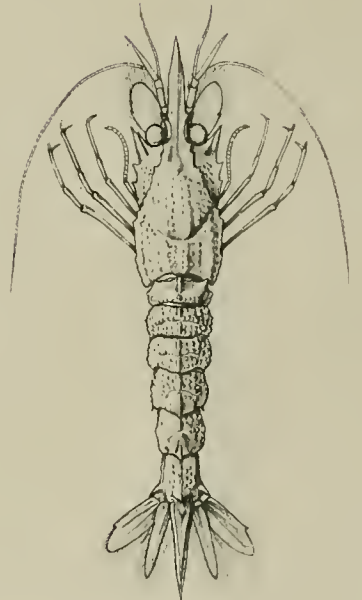
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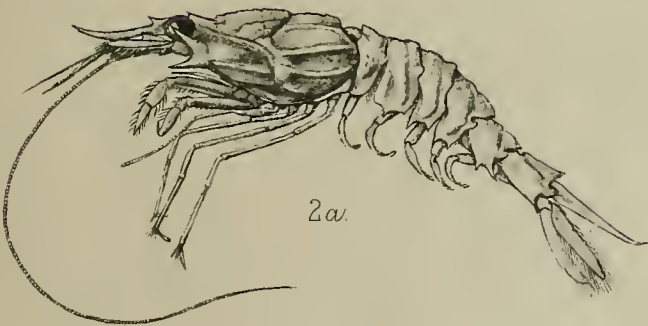
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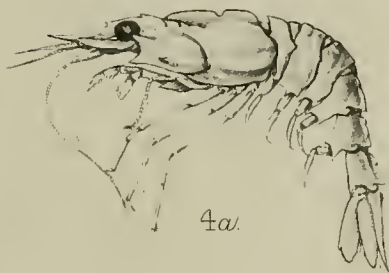
5a.



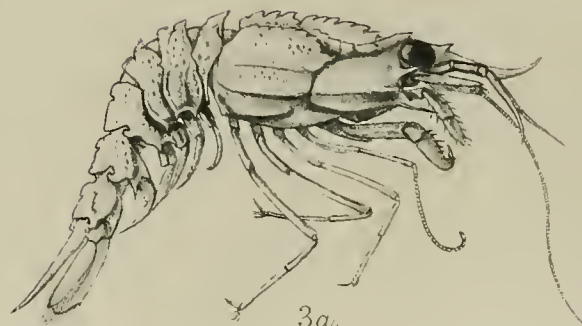
5.



2a.



4a.



3a.

1. 1a, *Glyphocrangon caeca*, ♀. 2. 2 a, *Glyphocrangon unguiculata*, ♀. 3. 3 a, *Glyphocrangon smithii*, ♂.

4. 4 a, *Glyphocrangon gilesii*, ♀. 5. 5 a. *Glyphocrangon caecescens*, ♂.

EXPLANATION OF PLATES.

CRUSTACEA.

[UNDER THE DIRECTION OF A. ALCOCK.]

PLATE VIII.

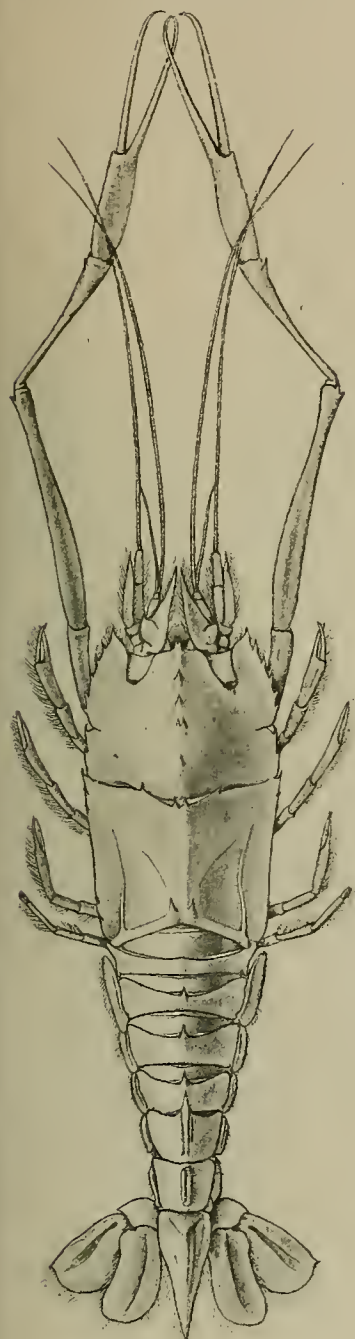
Figs. 1, 1a.—*Pentacheles cerata*, ♀, Annals and Magazine of Natural History, March, 1894, pp. 241 and 242.

Fig. 2.—*Pentacheles phosphorus*, ♀, Annals and Magazine of Natural History, March, 1894, pp. 240 and 241.

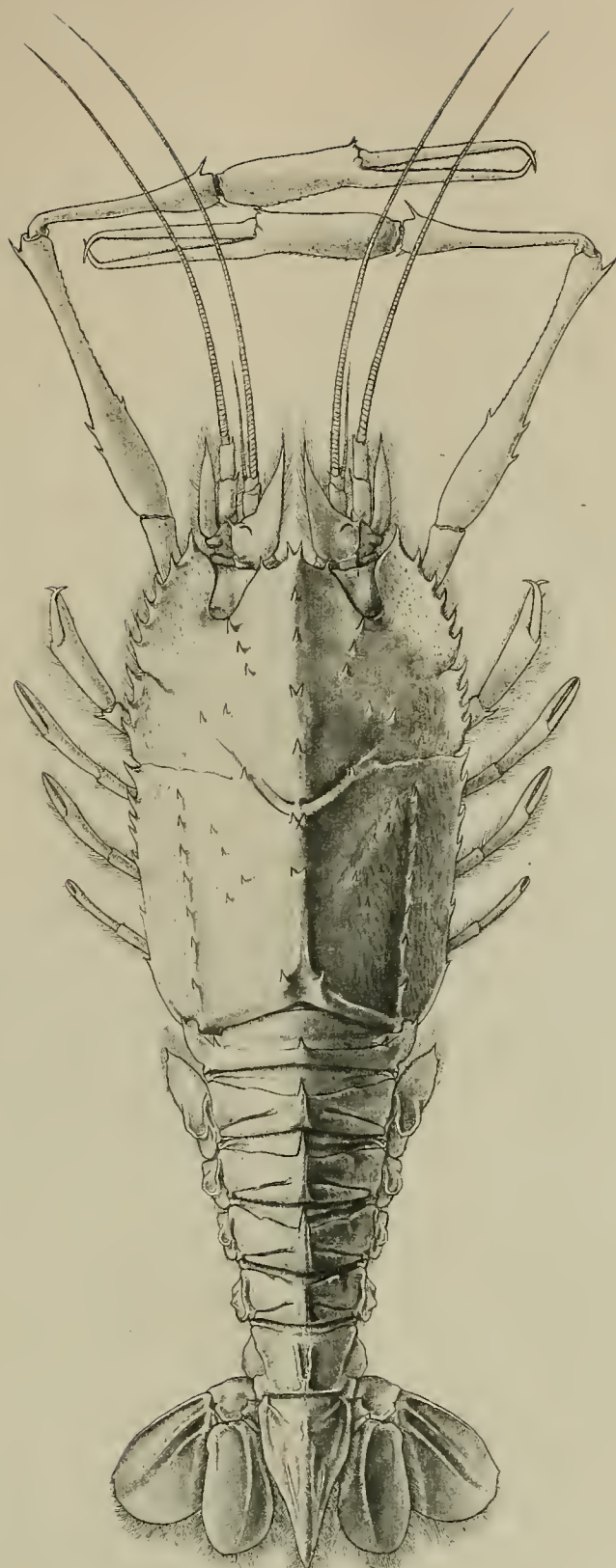
Fig. 3.—*Pentacheles beaumontii*, ♂, Annals and Magazine of Natural History, March 1894, pp. 236 and 237.

Figs. 4, 4a.—*Pentacheles gibba*, ♂, Annals and Magazine of Natural History, March, 1894, pp. 234 and 235.

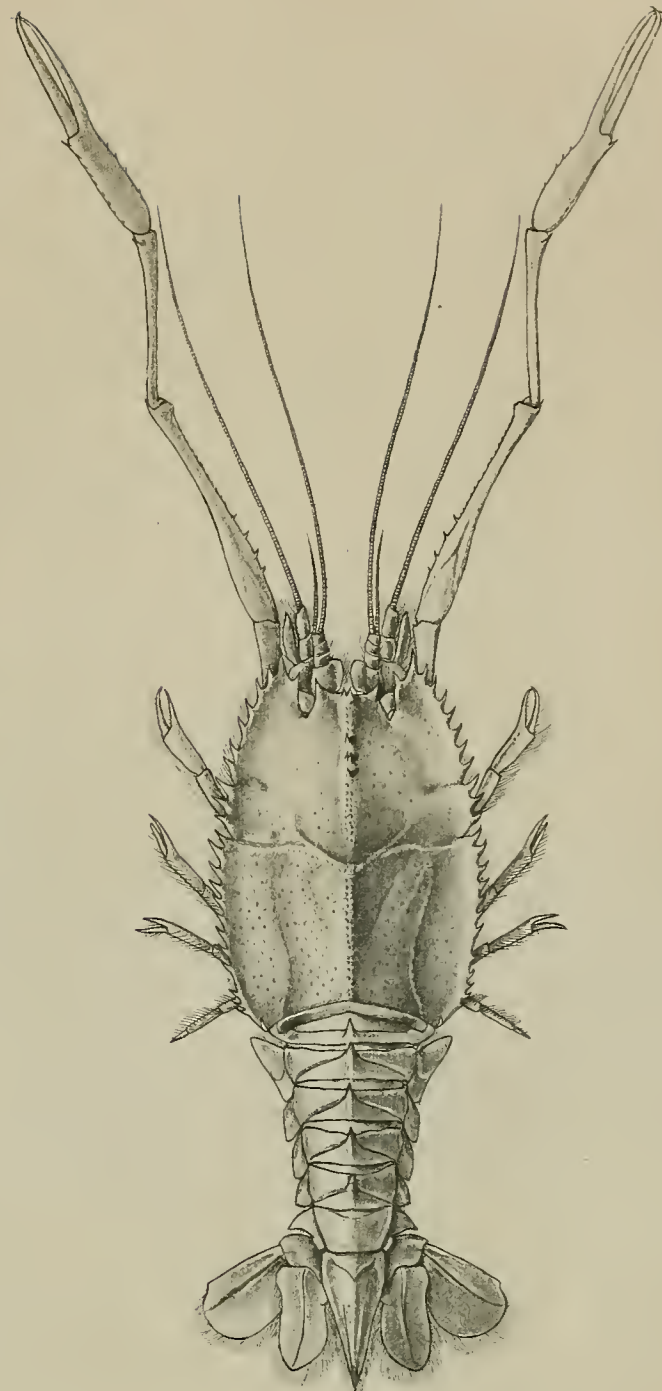
Fig. 5.—*Nephrops andamanicus*, ♂, Annals and Magazine of Natural History, March, 1894, pp. 226 to 230.



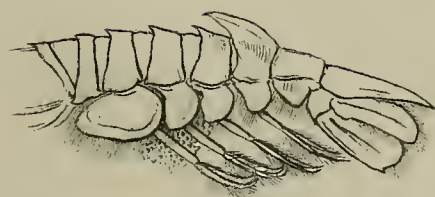
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2.



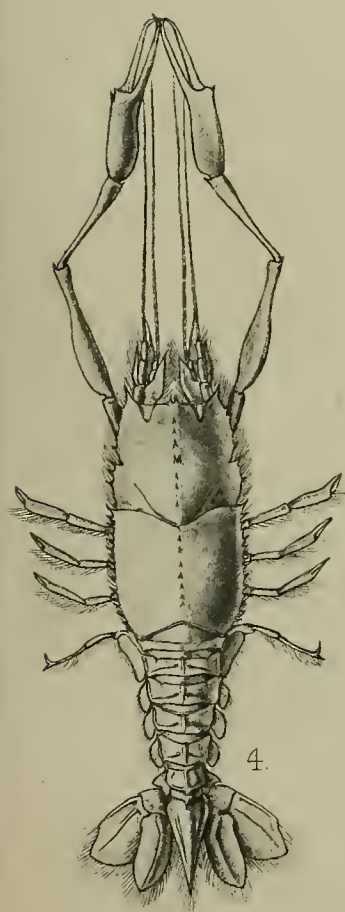
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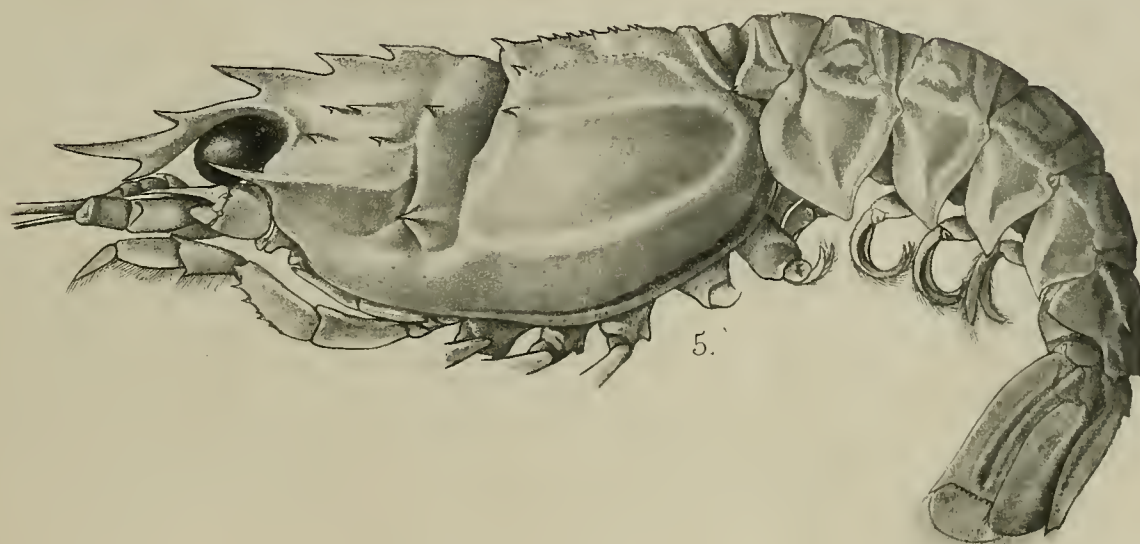
1a.



4a.



4.



5.

1. *Pentacheles cerata*, ♀. 2. *Pentacheles phosphorus*, ♀. 3. *Pentacheles beaumontii*, ♂.

ILLUSTRATIONS
OF THE
ZOOLOGY
OF THE
ROYAL INDIAN MARINE SURVEYING STEAMER
INVESTIGATOR,

UNDER THE COMMAND OF
COMMANDER A. CARPENTER, R.N., D.S.O.,
OF
THE LATE COMMANDER R. F. HOSKYN, R.N.,
AND OF
COMMANDER C. F. OLDHAM, R.N.

CRUSTACEA.

Part III, Plates IX—XV.



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INVESTIGATOR,

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EXPLANATION OF PLATES.

CRUSTACEA.

[BY A. ALCOCK AND A. R. S. ANDERSON.]

PLATE IX.

Figs. 1, 1a.—*Crangon bengalensis*, Wood-Mason, ♀. Annals and Magazine of Natural History, November, 1891, p. 360.

Figs. 2, 2a.—*Crangon andamanensis*, Wood-Mason, ♀. Annals and Magazine of Natural History, November, 1891, pp. 360, 361.

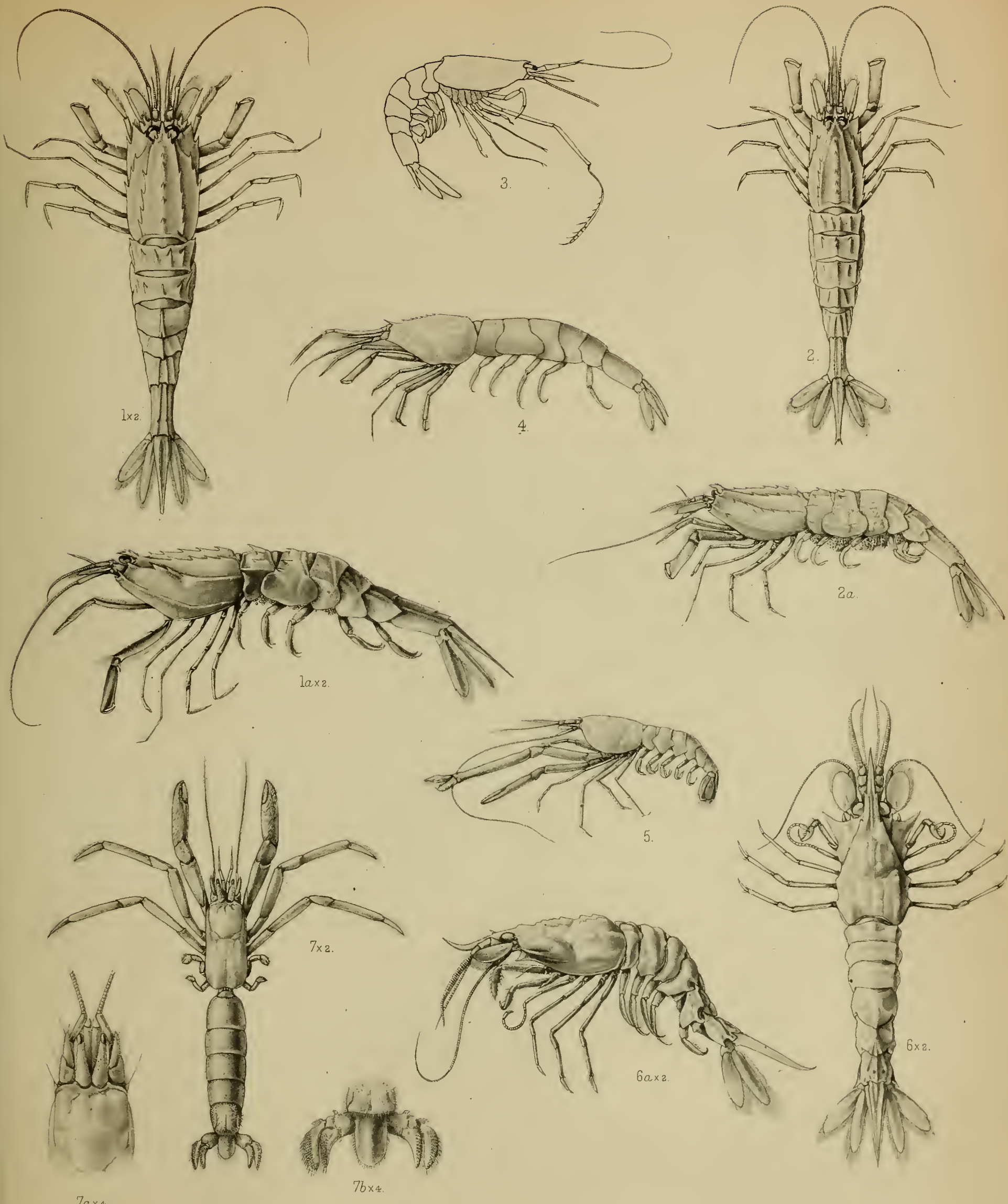
Fig. 3.—*Sergestes hamifer*, Alcock and Anderson, ♀. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, pp. 148, 149.

Fig. 4.—*Prionocrangon ommatosteres*, Wood-Mason, ♀. Annals and Magazine of Natural History, November, 1891, p. 362; and Alcock and Anderson, Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, pp. 152, 153.

Fig. 5.—*Alpheus macrosceles*, Alcock and Anderson, ♂. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, pp. 153, 154.

Figs. 6, 6a.—*Glyphocrangon cerea*, Alcock and Anderson, ♂. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, pp. 151, 152.

Fig. 7.—*Pylocheles scorpio*, Alcock, ♀. Annals and Magazine of Natural History, March, 1894, pp. 244, 245.



1. 1a. *Crangon bengalensis*. ♀. x2. 2. 2a. *Crangon andamanensis*. ♀. 3. *Sergestes hamifer*. 4. *Prionocrangon ommatosteres*. ♀. 5. *Alpheus macrosceles*. 6. 6a. *Glyphocrangon cerea*. x2. 7. *Pylocheles scorpio*. x2.

EXPLANATION OF PLATES.

CRUSTACEA.

[BY A. ALCOCK AND A. R. S. ANDERSON.]

PLATE X.

Figs. 1, 1a, 1b, 1c.—*Pentacheles carpenteri*, Alcock, ♀. Annals and Magazine of Natural History, March, 1894, pp. 235, 236.

Figs. 2, 2a, 2b, 2c.—*Pentacheles hextii*, Alcock, ♂. Annals and Magazine of Natural History, March, 1894, pp. 237-239.

Figs. 3, 3a, 3b, 3c.—*Pentacheles andamanensis*, Alcock, ♀. Annals and Magazine of Natural History, March, 1894, pp. 239, 240.



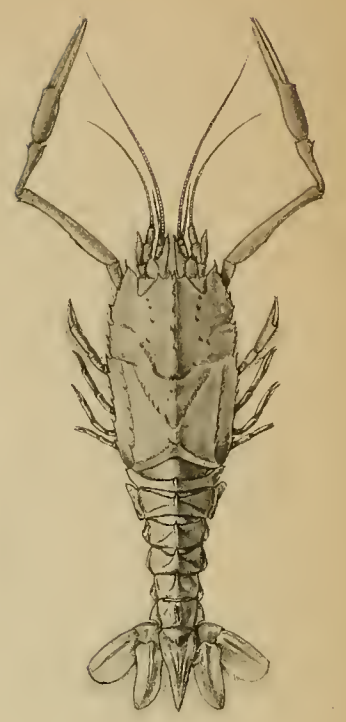
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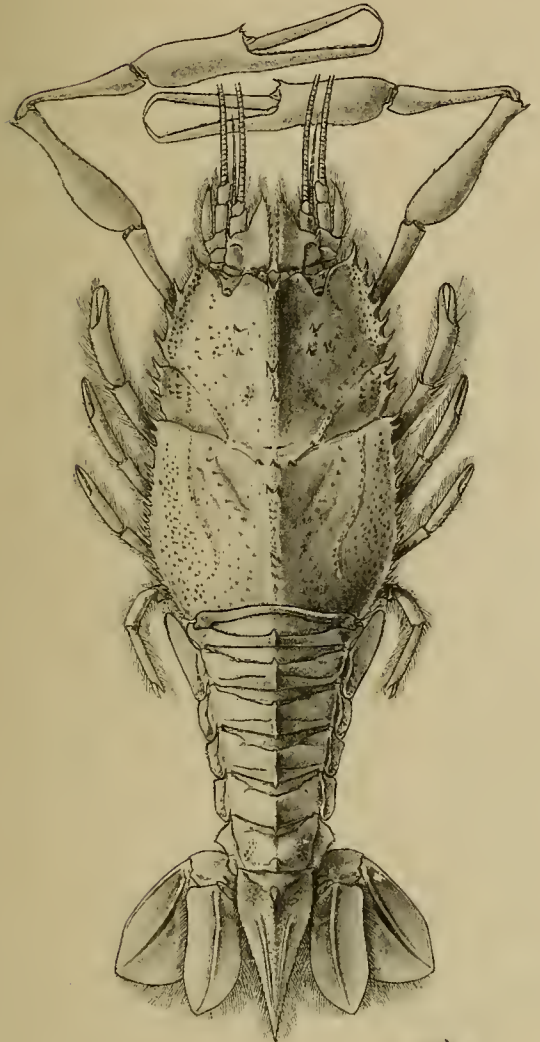
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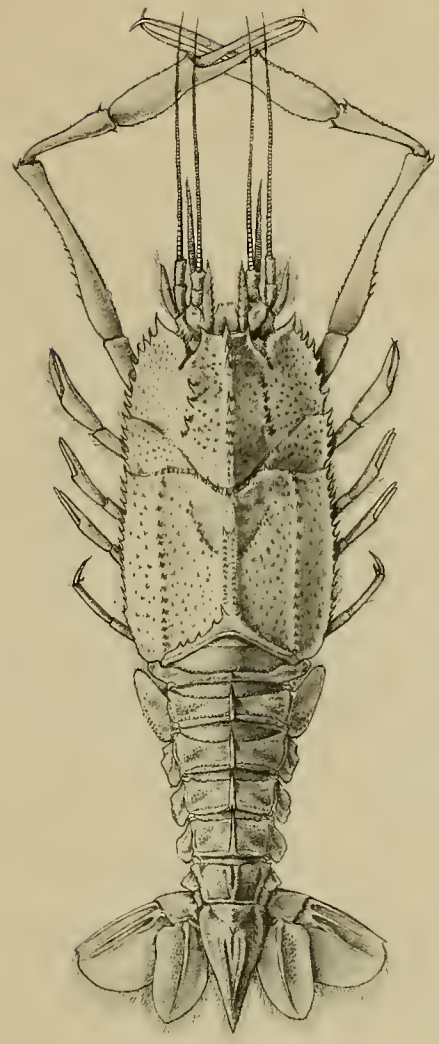
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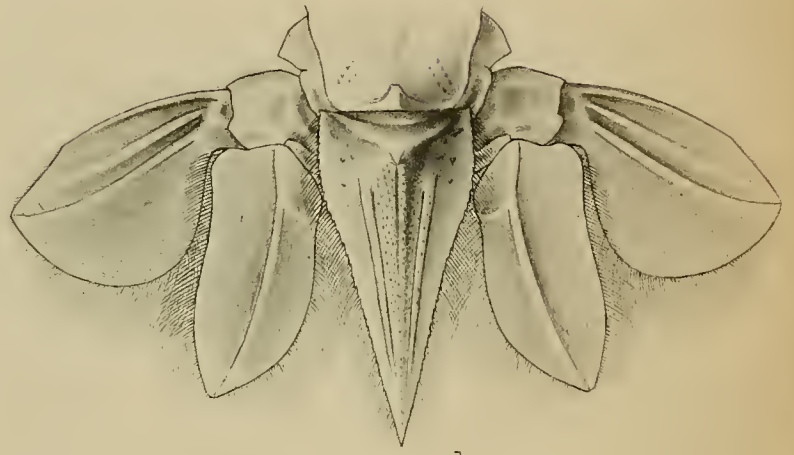
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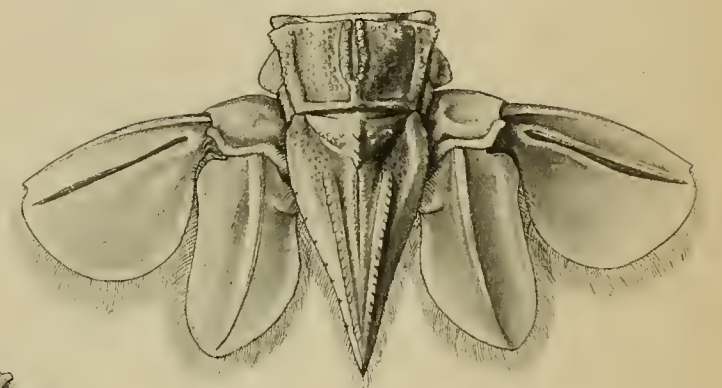
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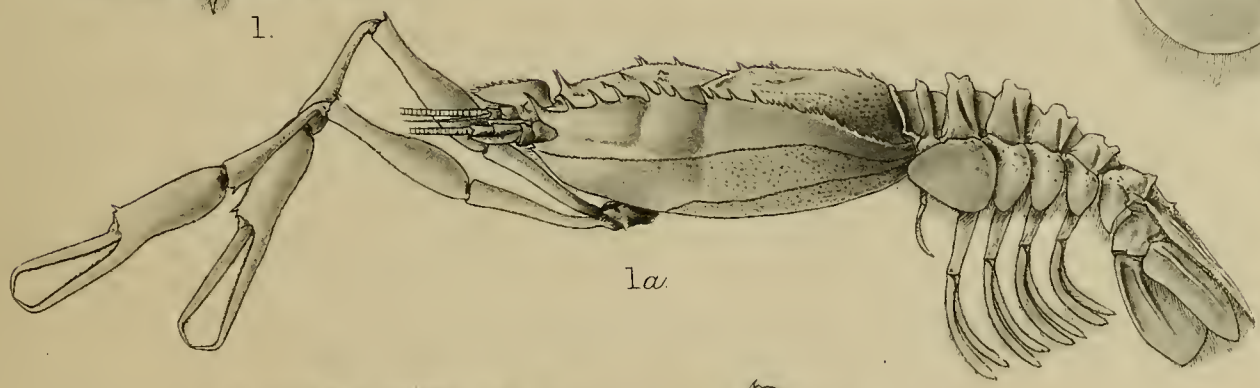
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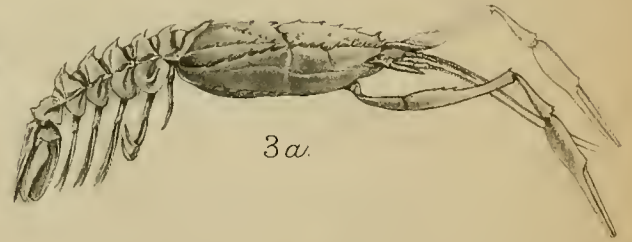
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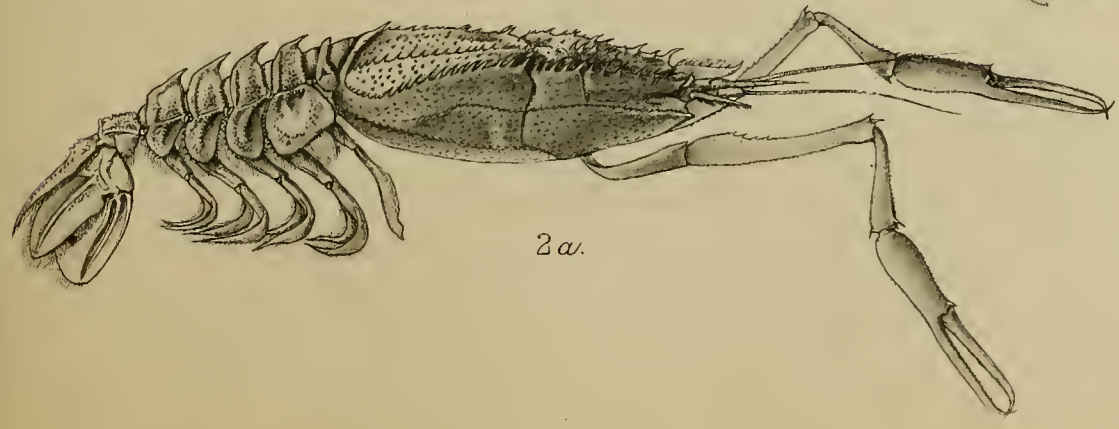
2c x 2.



1a.



3a.



2a.



3c x 2.

1. Pentacheles carpenteri, ♀. 2. Pentacheles hextii, ♂. 3. Pentacheles andamanensis, ♀.

EXPLANATION OF PLATES.

CRUSTACEA.

[BY A. ALCOCK AND A. R. S. ANDERSON.]

PLATE XI.

Fig. 1.—*Munidopsis regia*, Alcock and Anderson, ♂. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, pp. 168, 169.

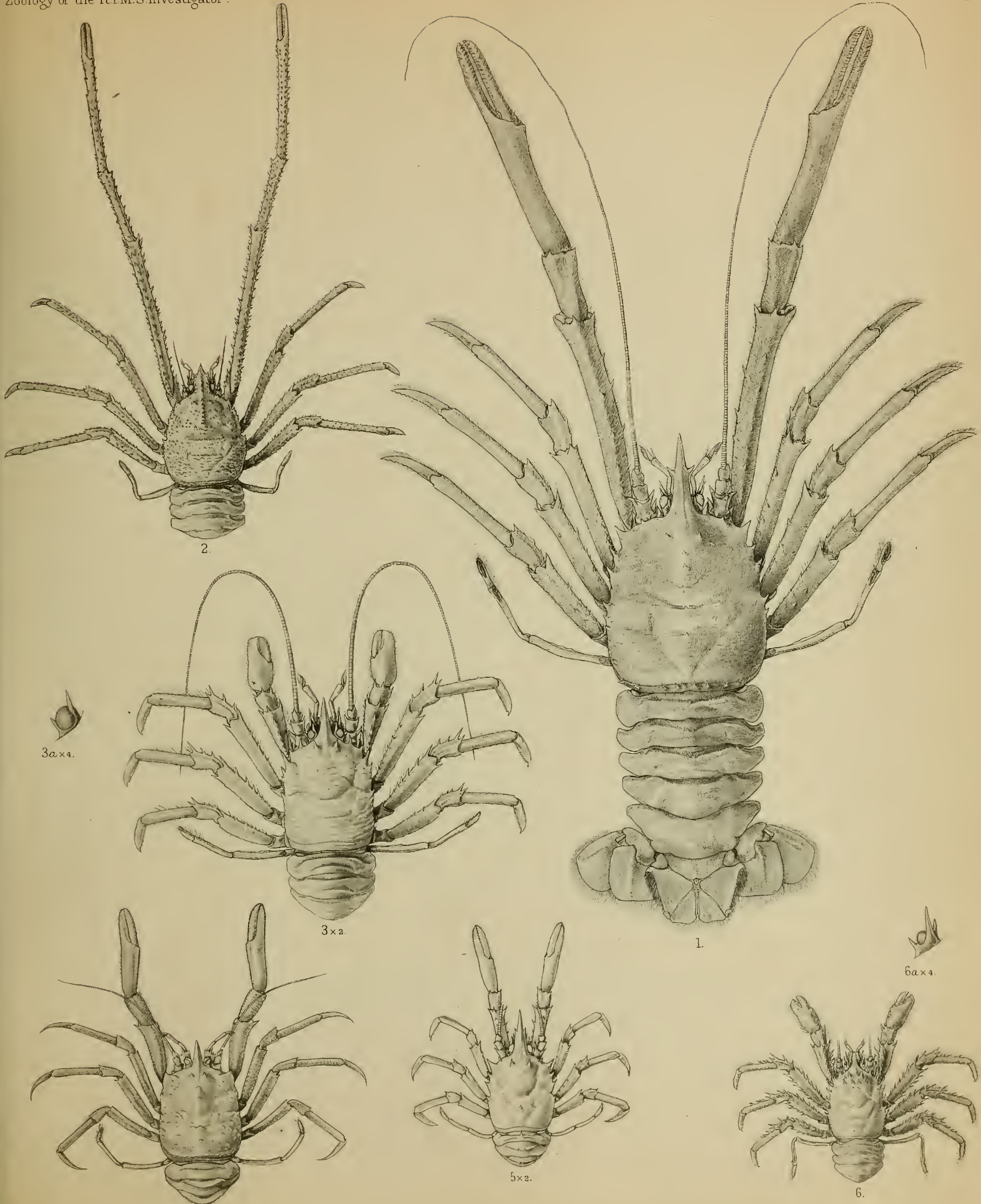
Fig. 2.—*Munidopsis trachypus*, Alcock and Anderson, ♀. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, pp. 169, 170.

Figs. 3, 3a.—*Munidopsis ciliata*, Wood-Mason, ♂. Annals and Magazine of Natural History, February, 1891, pp. 200, 201.

Fig. 4.—*Munidopsis unguifera*, Alcock and Anderson, ♀. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, p. 172.

Fig. 5.—*Munidopsis tricæna*, Alcock and Anderson, ♀. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, p. 168.

Figs. 6, 6a.—*Munidopsis centrina*, Alcock and Anderson, ♀. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, pp. 170, 171.



1. *Munidopsis regia*, ♂. 2. *Munidopsis trachypus*, ♀. 3. *Munidopsis ciliata*, ♂.
 4. *Munidopsis unguifera*, ♀. 5. *Munidopsis triæna*, ♀. 6. *Munidopsis centrina*, ♀.

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EXPLANATION OF PLATES.

CRUSTACEA.

[BY A. ALCOCK AND A. R. S. ANDERSON.]

PLATE XII.

Fig. 1.—*Munida tricarinata*, Alcock, ♀. Annals and Magazine of Natural History, April, 1894, pp. 324-326.

Fig. 2.—*Munidopsis poseidonia*, Alcock and Anderson, ♀. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, pp. 167, 168.

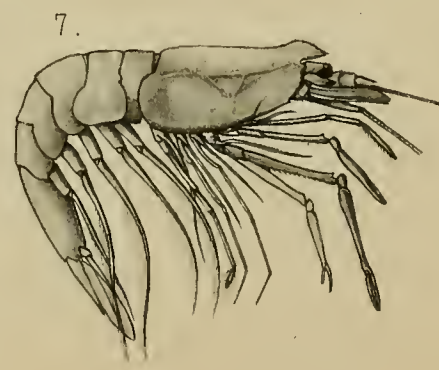
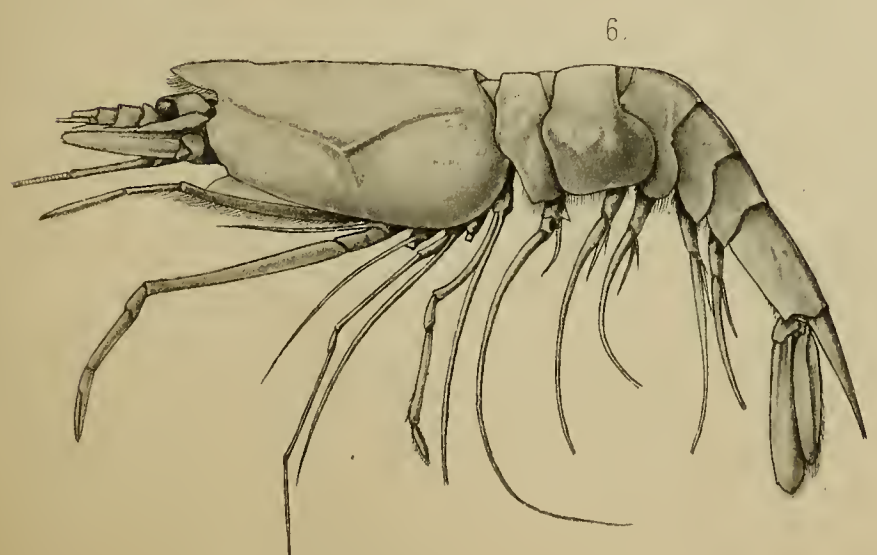
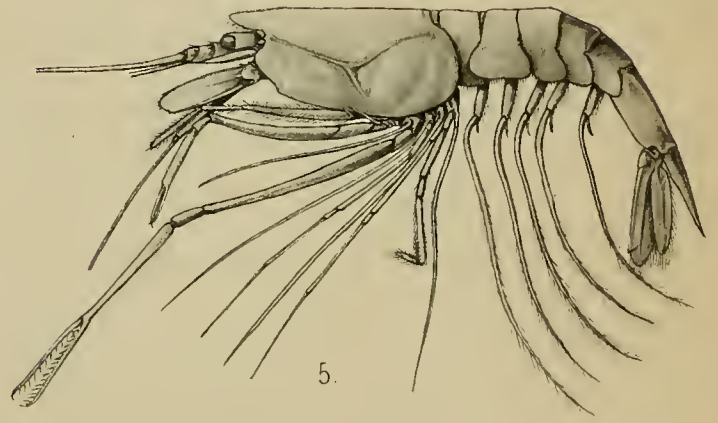
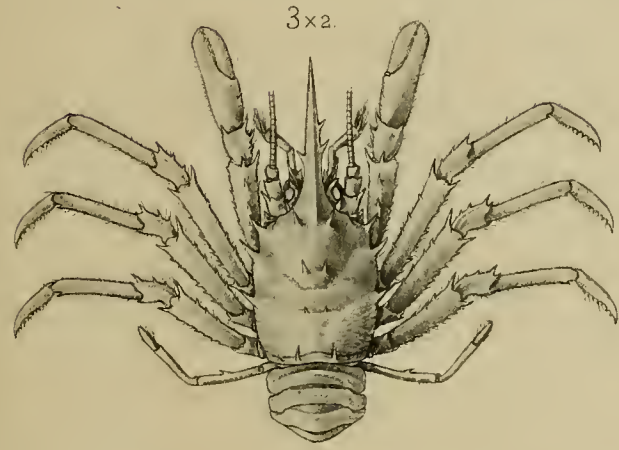
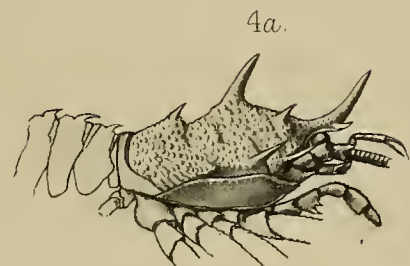
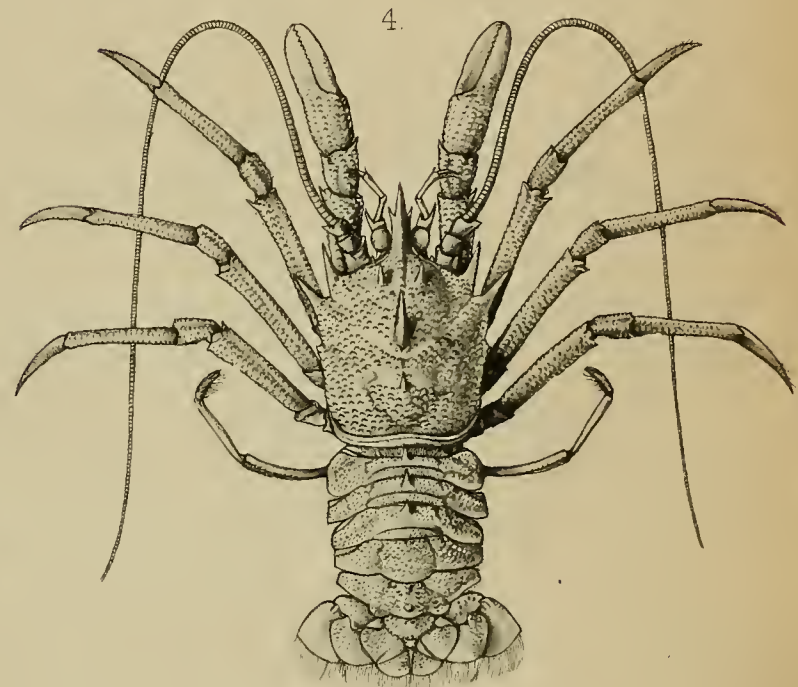
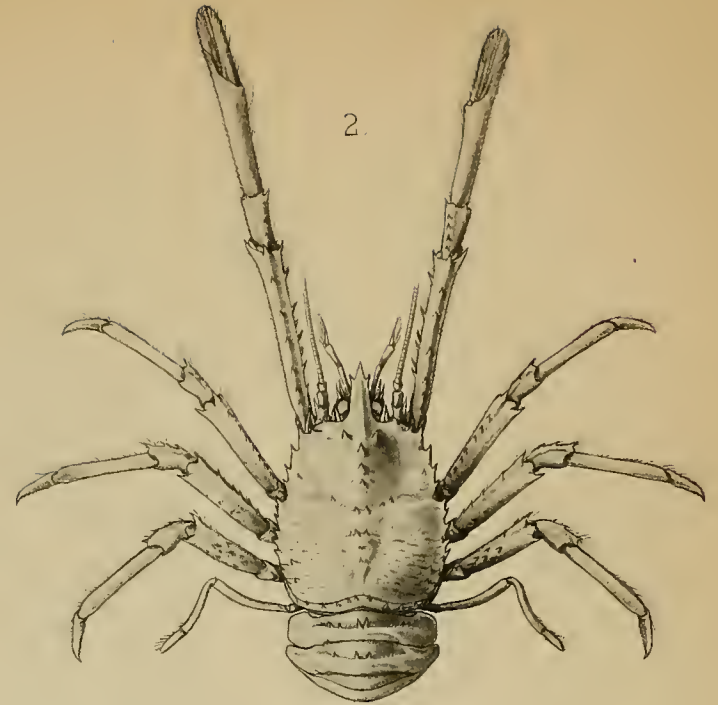
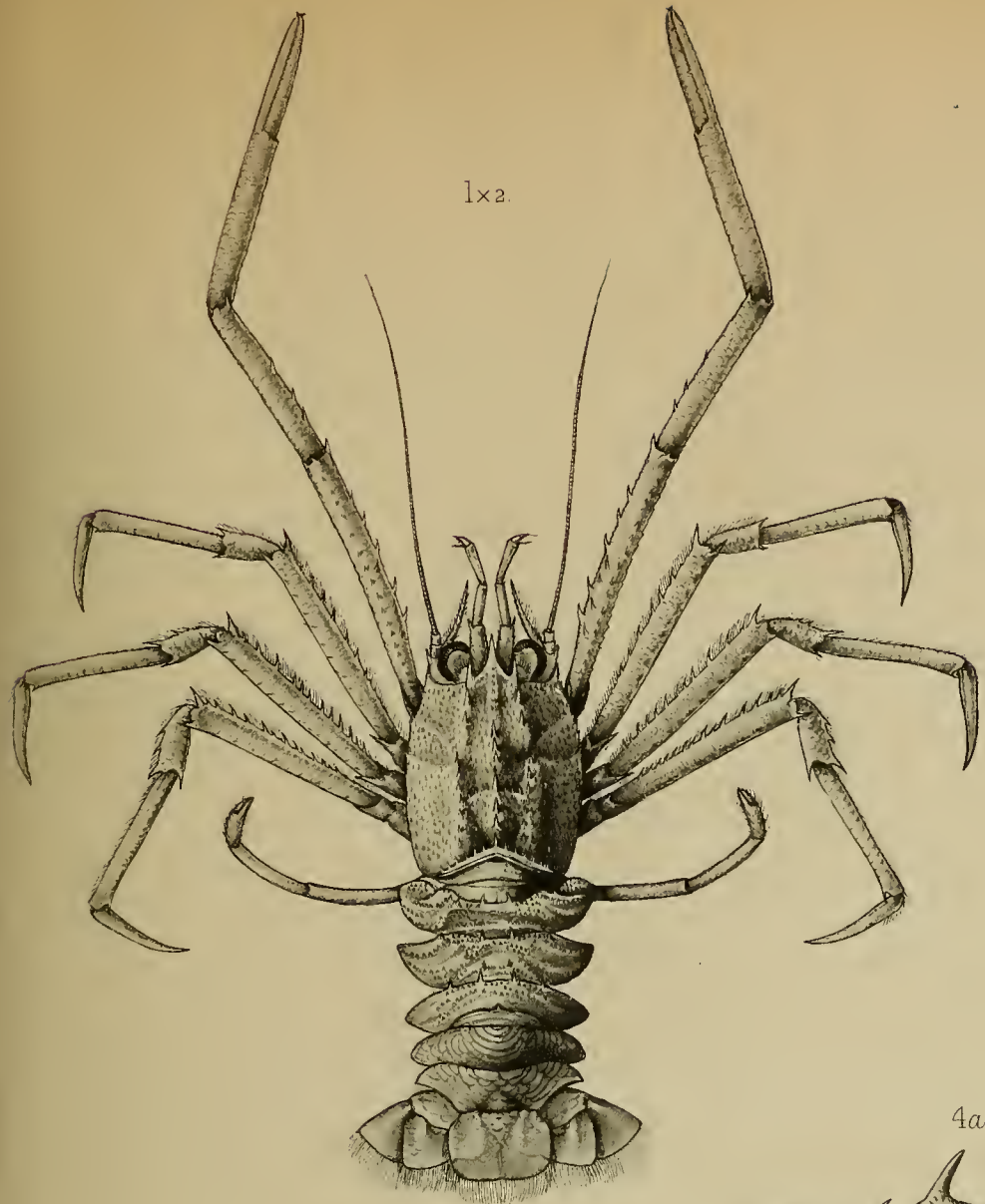
Fig. 3.—*Munidopsis arietina*, Alcock and Anderson, ♀. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, pp. 171, 172.

Figs. 4, 4a.—*Galacantha investigatoris*, Alcock and Anderson, ♀. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, p. 173.

Fig. 5.—*Psathyrocaris plumosa*, Alcock and Anderson. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, p. 159.

Fig. 6.—*Psathyrocaris platyophthalmus*, Alcock and Anderson, ♀. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, p. 158.

Fig. 7.—*Psathyrocaris infirma*, Alcock and Anderson. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, pp. 159, 160.



1. *Munida tricarinata*. ♀, x2. 2. *Munidopsis poseidonia*. ♀. 3. *Munidopsis arietina*. ♀, x2. 4. *Galacantha investigatoris*. ♀.
 5. *Psathyrocaris plumosa*. 6. *Psathyrocaris platyophthalmus*. 7. *Psathyrocaris infirma*.

REIGN OF

CHARLES THE FIRST

BY

JOHN BURNET, BISHOP OF SALISBURY

IN TWO VOLUMES

VOLUME THE SECOND

THE SECOND PART OF THE SECOND VOLUME

CONTAINING THE HISTORY OF THE

REIGN OF CHARLES THE FIRST

FROM THE DEPARTURE OF

CHARLES THE FIRST FROM ENGLAND

TO HIS RETURN TO ENGLAND

IN THE YEAR 1645

AND THE DEATH OF

CHARLES THE FIRST

IN THE YEAR 1649

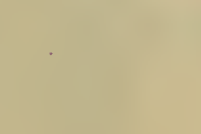
BY

JOHN BURNET, BISHOP OF SALISBURY

IN TWO VOLUMES

VOLUME THE SECOND

THE SECOND PART OF THE SECOND VOLUME



EXPLANATION OF PLATES.

CRUSTACEA.

[BY A. ALCOCK AND A. R. S. ANDERSON.]

PLATE XIII.

Fig. 1.—*Munidopsis scobina*, Alcock, ♂. Annals and Magazine of Natural History, April, 1894, pp. 330, 331.

Fig. 2.—*Munida militaris*, Hend., var. *andamanica*, Alcock, ♂. Annals and Magazine of Natural History, April, 1894, pp. 321, 322.

Fig. 3.—*Munida squamosa*, Hend., var. *prolixa*, Alcock, ♂. Annals and Magazine of Natural History, April, 1894, pp. 322–324.

Fig. 4.—*Elasmonotus cylindrophthalmus*, Alcock, ♀. Annals and Magazine of Natural History, April, 1894, pp. 333, 334.

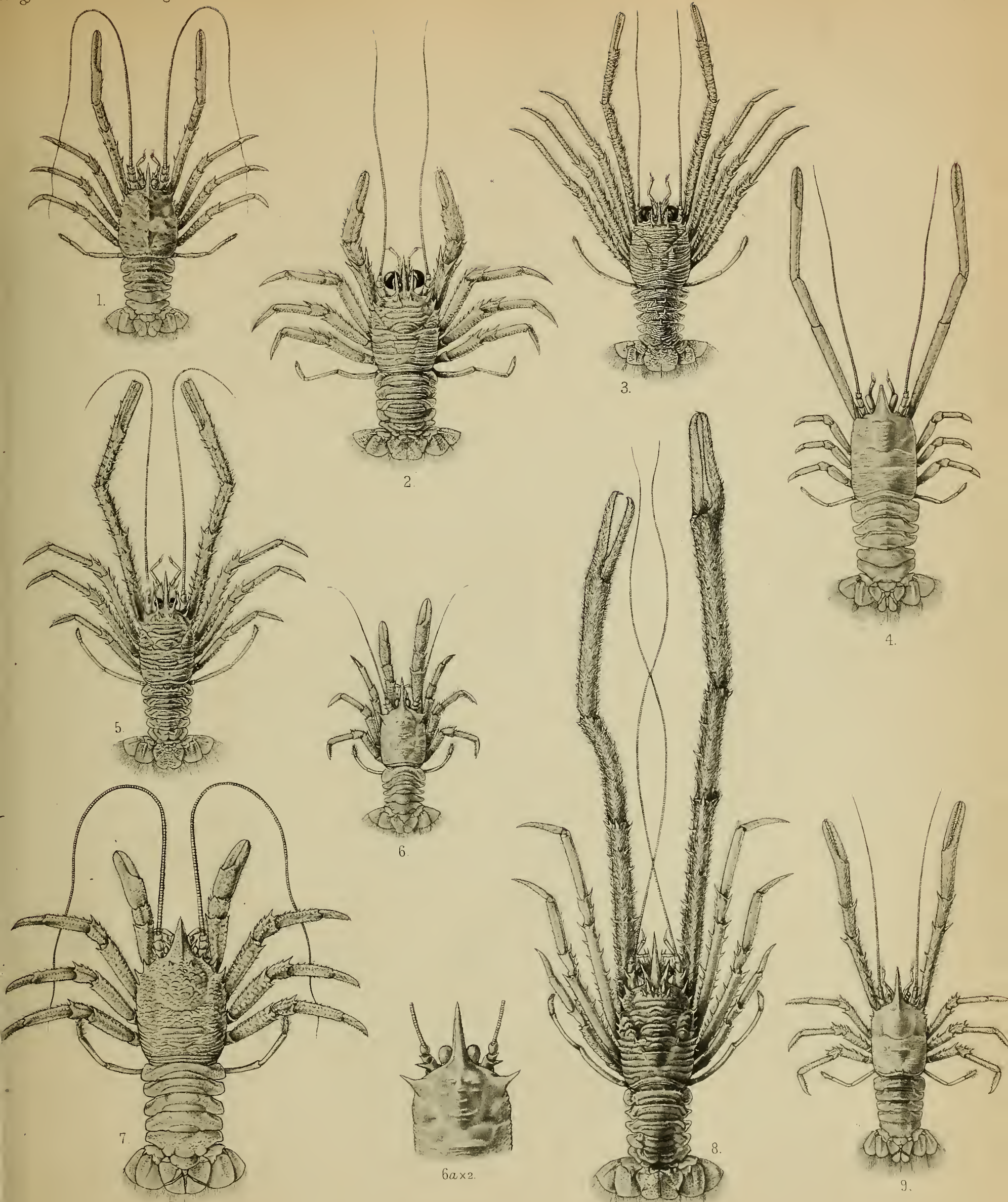
Fig. 5.—*Munida microps*, Alcock, ♂. Annals and Magazine of Natural History, April, 1894, pp. 326, 327.

Figs. 6, 6a.—*Munidopsis stylirostris*, Wood-Mason, ♂. Annals and Magazine of Natural History, February, 1891, p. 201; and Alcock, Annals and Magazine of Natural History, April, 1894, pp. 328, 329.

Fig. 7.—*Munidopsis subsquamosa*, Hend., var. *pallida*, Alcock, ♂. Annals and Magazine of Natural History, April, 1894, pp. 331–333.

Fig. 8.—*Munida lasiocheles*, Alcock, ♂. Annals and Magazine of Natural History, April, 1894, pp. 327, 328.

Fig. 9.—*Munidopsis dasyopus*, Alcock, ♀. Annals and Magazine of Natural History, April, 1894, pp. 329, 330.



1. *Munidopsis scobina*. ♂. 2. *Munida militaris*, Hend. Var. *andamanica*. ♂. 3. *Munida squamosa*, Hend. Var. *prolixa*. ♂. 4. *Elasmonotus cylindrophthalmus*. ♀ x 2.
 5. *Munida microps*. ♂. 6. *Munidopsis stylirostris*. ♂. 7. *Munidopsis subsquamosa*, Hend. Var. *pallida*. ♂. 8. *Munida lasiocheles*. ♂. 9. *Munidopsis dasyptus* ♀.

EXPLANATION OF PLATES.

CRUSTACEA.

[BY A. ALCOCK AND A. R. S. ANDERSON.]

PLATE XIV.

Figs. 1, 1a.—*Homola megalops*, Alcock, ♂. Annals and Magazine of Natural History, May, 1894, pp. 408, 409.

Fig. 2.—*Aethusa indica*, Alcock, ♀. Annals and Magazine of Natural History, May, 1894, pp. 405, 406.

Fig. 3.—*Scyramathia livermorii** (Wood-Mason), ♀. Annals and Magazine of Natural History, March, 1891, p. 260.

Figs. 4, 4a.—*Hypsophrys superciliosa*, Wood-Mason, ♀. Annals and Magazine of Natural History, March, 1891, pp. 269, 270.

Fig. 5.—*Aethusa pygmæa*, Alcock, ♀. Annals and Magazine of Natural History, May, 1894, p. 406.

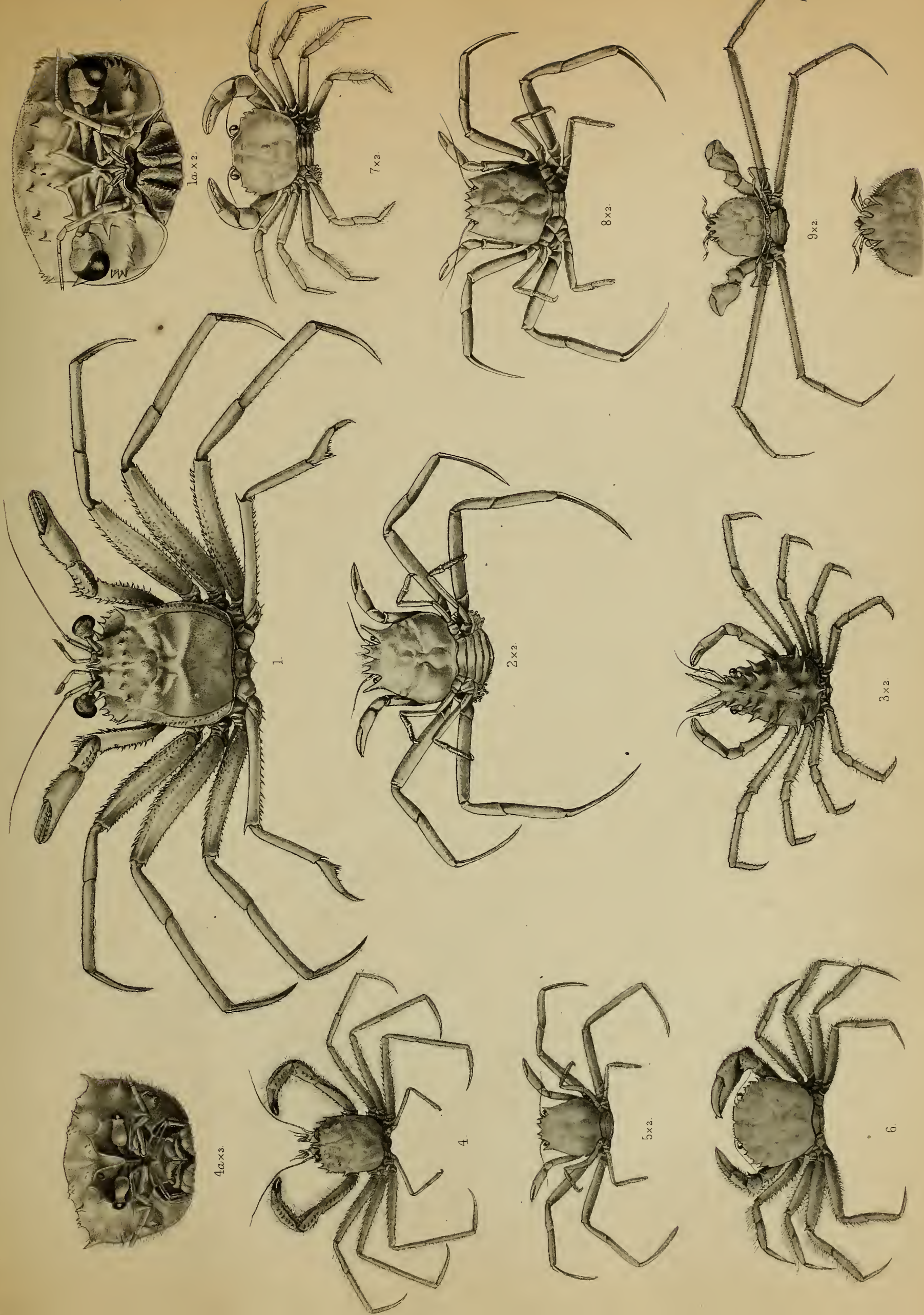
Fig. 6.—*Platypilumnus gracilipes*, Wood-Mason, ♀. Alcock, Annals and Magazine of Natural History, May, 1894, pp. 401, 402.

Fig. 7.—*Nectopanope longipes*, Wood-Mason, ♀. Annals and Magazine of Natural History, March, 1891, pp. 262–264.

Fig. 8.—*Aethusa andamanica*, Alcock, ♂. Annals and Magazine of Natural History, May, 1894, p. 405.

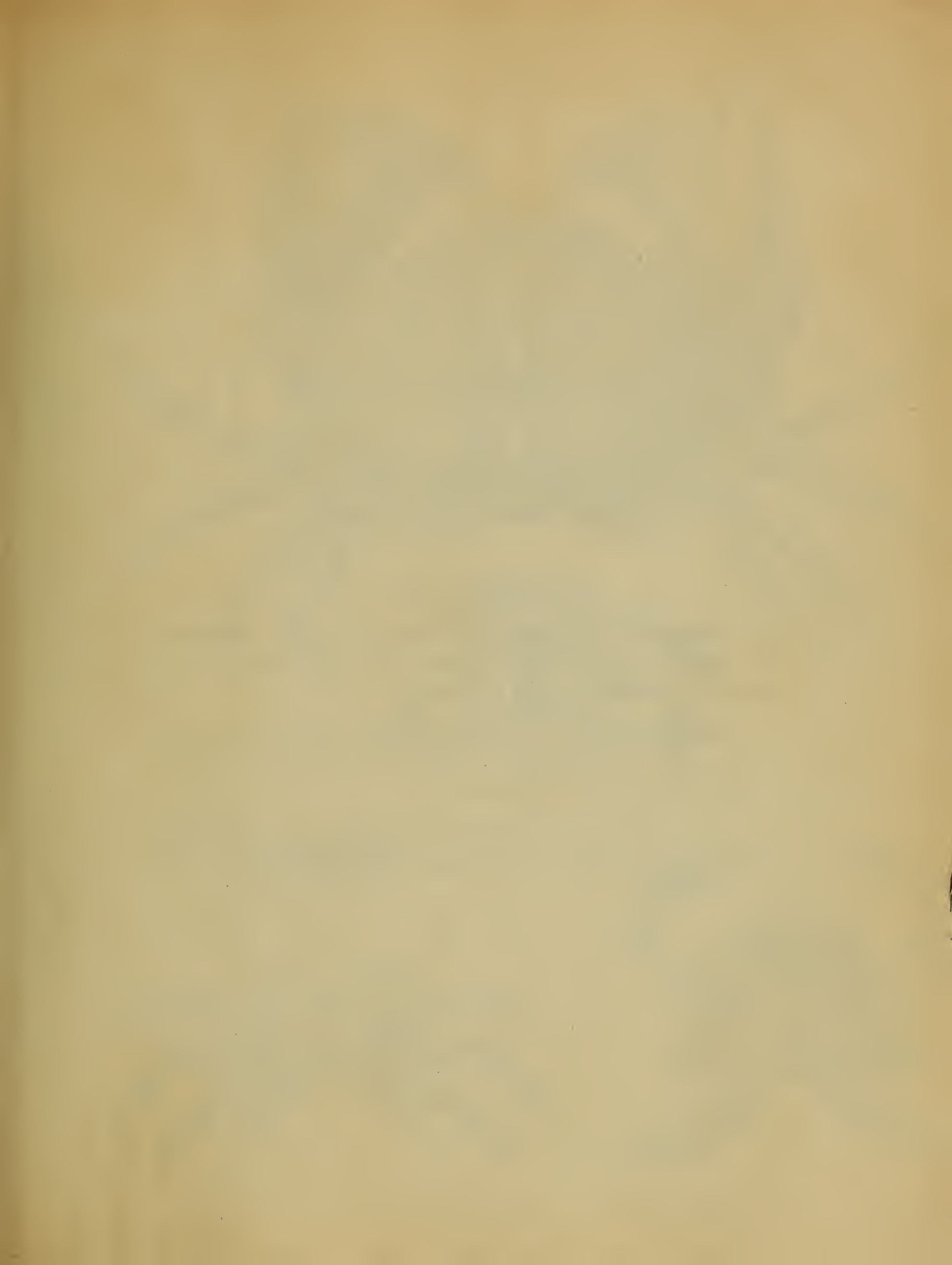
Figs. 9, 9a.—*Cyonomops glaucoma*, Alcock, ♀. Annals and Magazine of Natural History, May, 1894, pp. 406, 407.

*=*Anamathia livermorii*, Wood-Mason, *l. c.* := *Scyramathia pulchra*, Miers, *v.* Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV, pt. 2, No. 2, 1895, pp. 202, 203.



1. *Stomatopoda*, *Stomatopoda* 2. *Stomatopoda*, *Stomatopoda* 3. *Stomatopoda*, *Stomatopoda* 4. *Stomatopoda*, *Stomatopoda* 5. *Stomatopoda*, *Stomatopoda*





EXPLANATION OF PLATES.

CRUSTACEA.

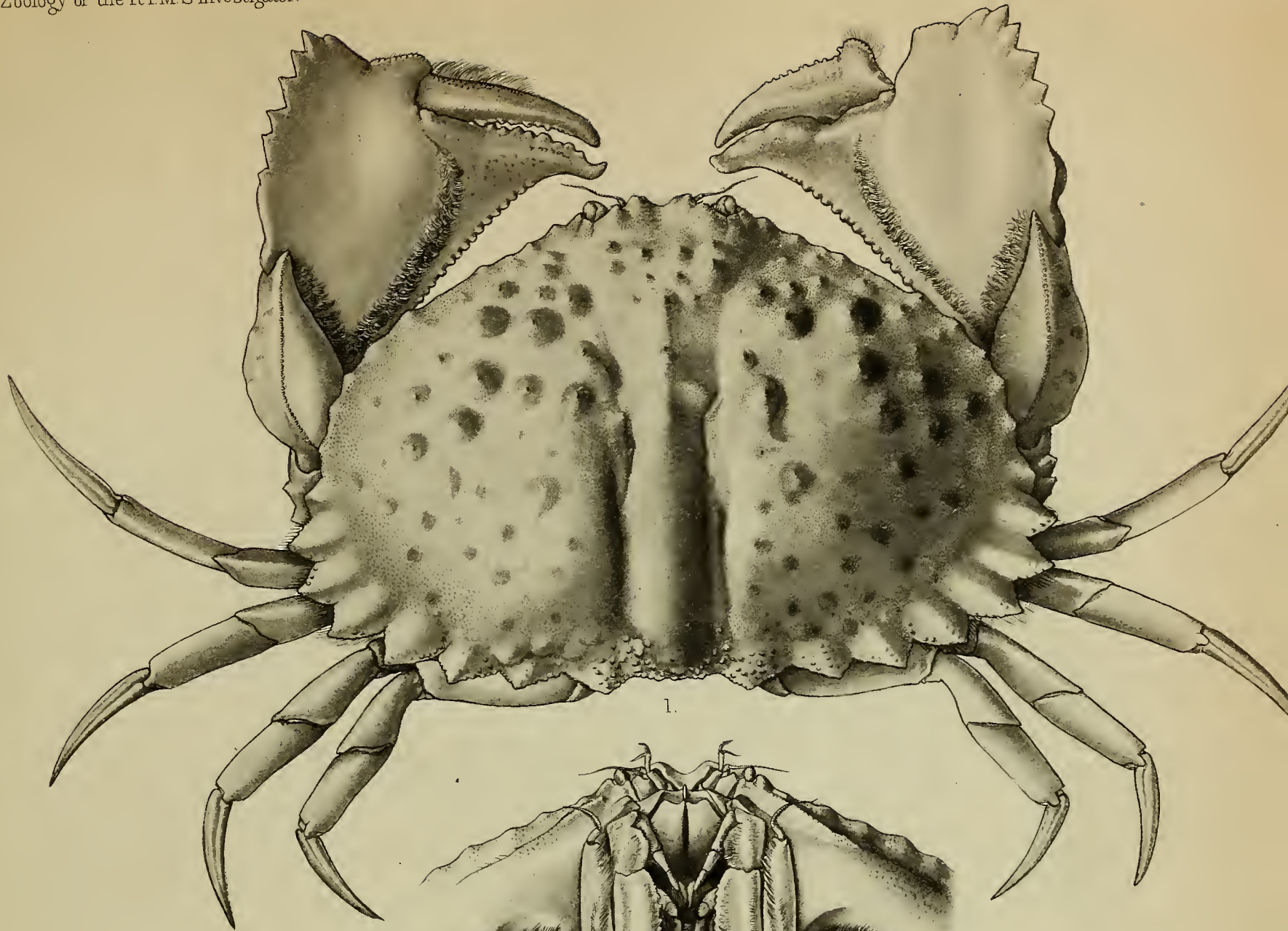
[BY A. ALCOCK AND A. R. S. ANDERSON.]

PLATE XV.

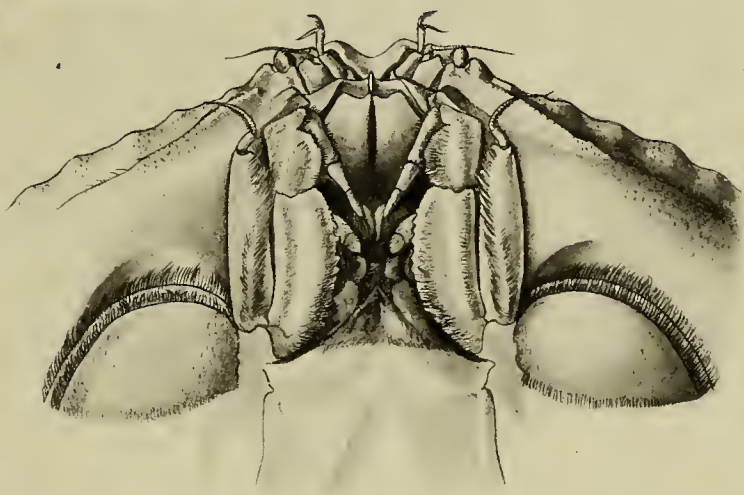
Figs. 1, 1a.—*Calappa exanthematos*a, Alcock and Anderson, ♂. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, pp. 177, 178.

Figs. 2, 2a, 2b.—*Ptenoplax notopus*,* (Alcock and Anderson), ♂. Journal, Asiatic Society of Bengal, Vol. LXIII, pt. 2, No. 3, 1894, pp. 180–183, pl. ix., figs. 3, 3*a*, 3*b*.

* *Ptenoplax notopus* = *Archæoplax notopus*, Alcock and Anderson, *loc. cit.* In the figure (pl. ix, 3*a*) in the Journal of the Asiatic Society of Bengal, *tom. cit.*, the external maxillipeds are removed for the clearer display of the mouth and deeper mouth-parts.



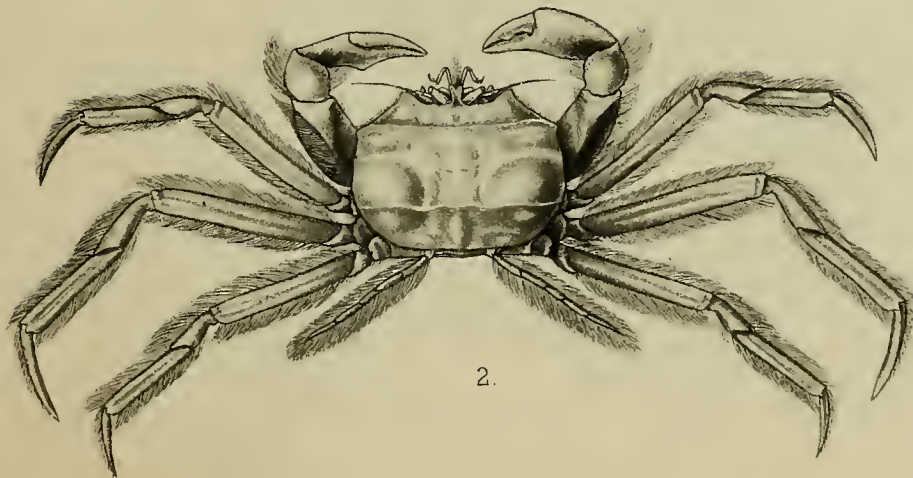
1.



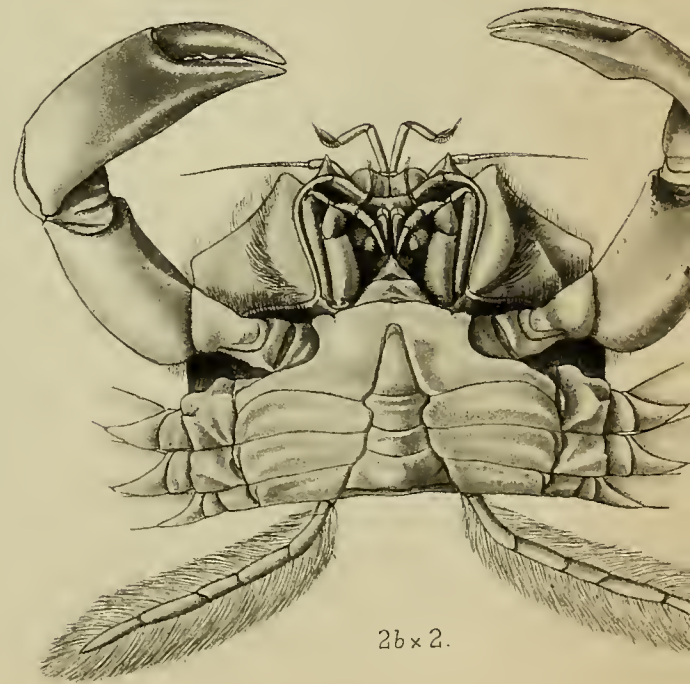
1a.



2a.



2.



2b x 2.

1. *Calappa exanthematosus*.

2. *Ptenoplax notopus*.



Fr. 61

ILLUSTRATIONS
 OF THE
ZOOLOGY
 OF THE
 ROYAL INDIAN MARINE SURVEYING STEAMER
INVESTIGATOR,
 UNDER THE COMMAND OF
 COMMANDER C. F. OLDHAM, R.N.

CRUSTACEA.
 Part IV, Plates XVI-XXVII.

UNDER THE DIRECTION OF
 A. ALCOCK, M.B., C.M.Z.S., LATE SURGEON-NATURALIST TO THE MARINE SURVEY,
 AND OF
 A. R. S. ANDERSON, B.A., M.B., SURGEON-NATURALIST TO THE MARINE SURVEY.



Published under the Authority of Captain J. Hext, R.N., C.I.C., A.D.C.,
 Director of the Royal Indian Marine.

CALCUTTA:
 OFFICE OF THE SUPERINTENDENT OF GOVERNMENT PRINTING, INDIA.
 1896.

ENTRANCE EXAMINATION

CHRISTMAS

1910

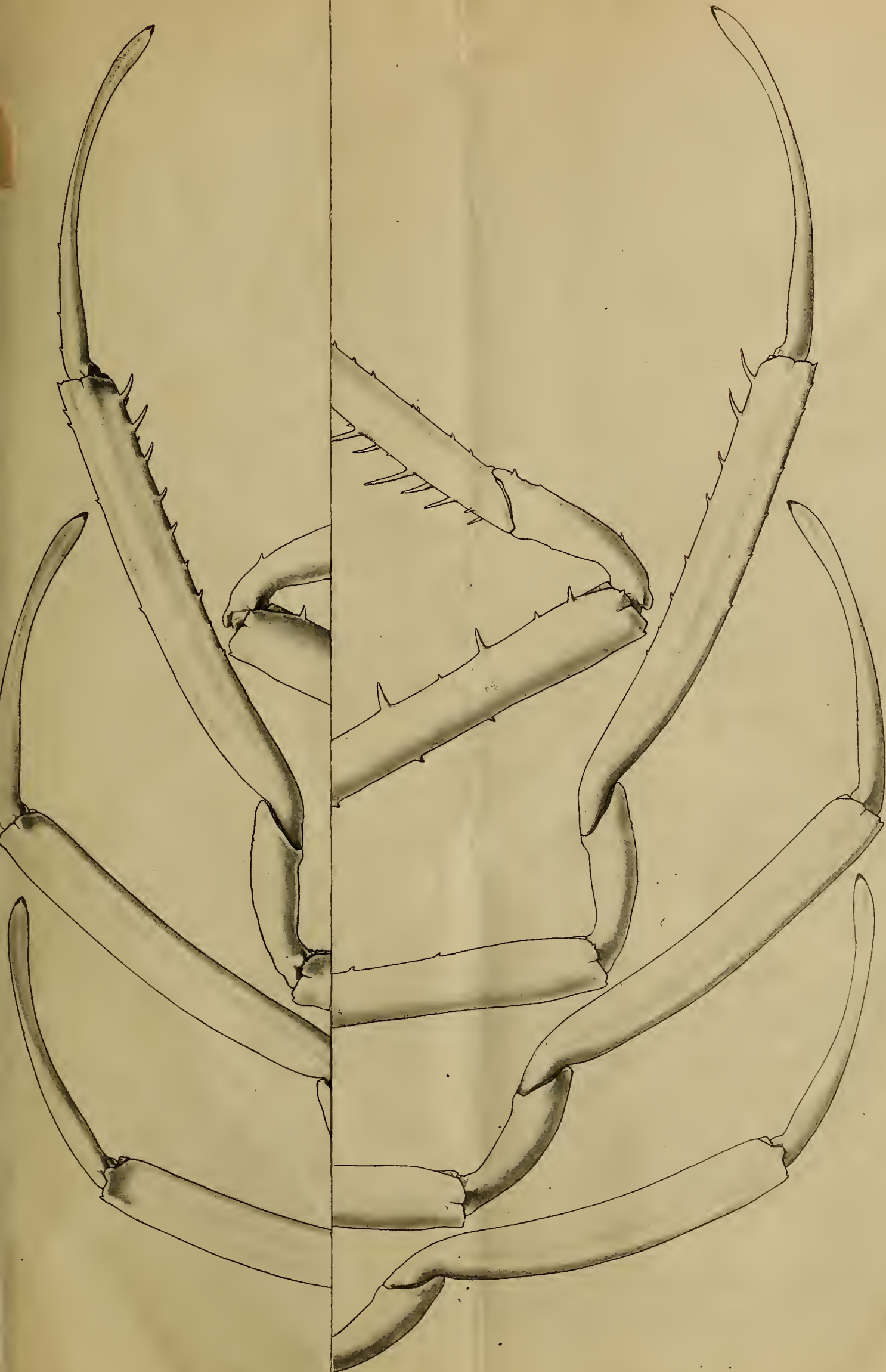
1. The first part of the examination is in English. It consists of a reading lesson and a composition. The reading lesson is on the life of George Washington. The composition is on the subject of "My Favorite Holiday".

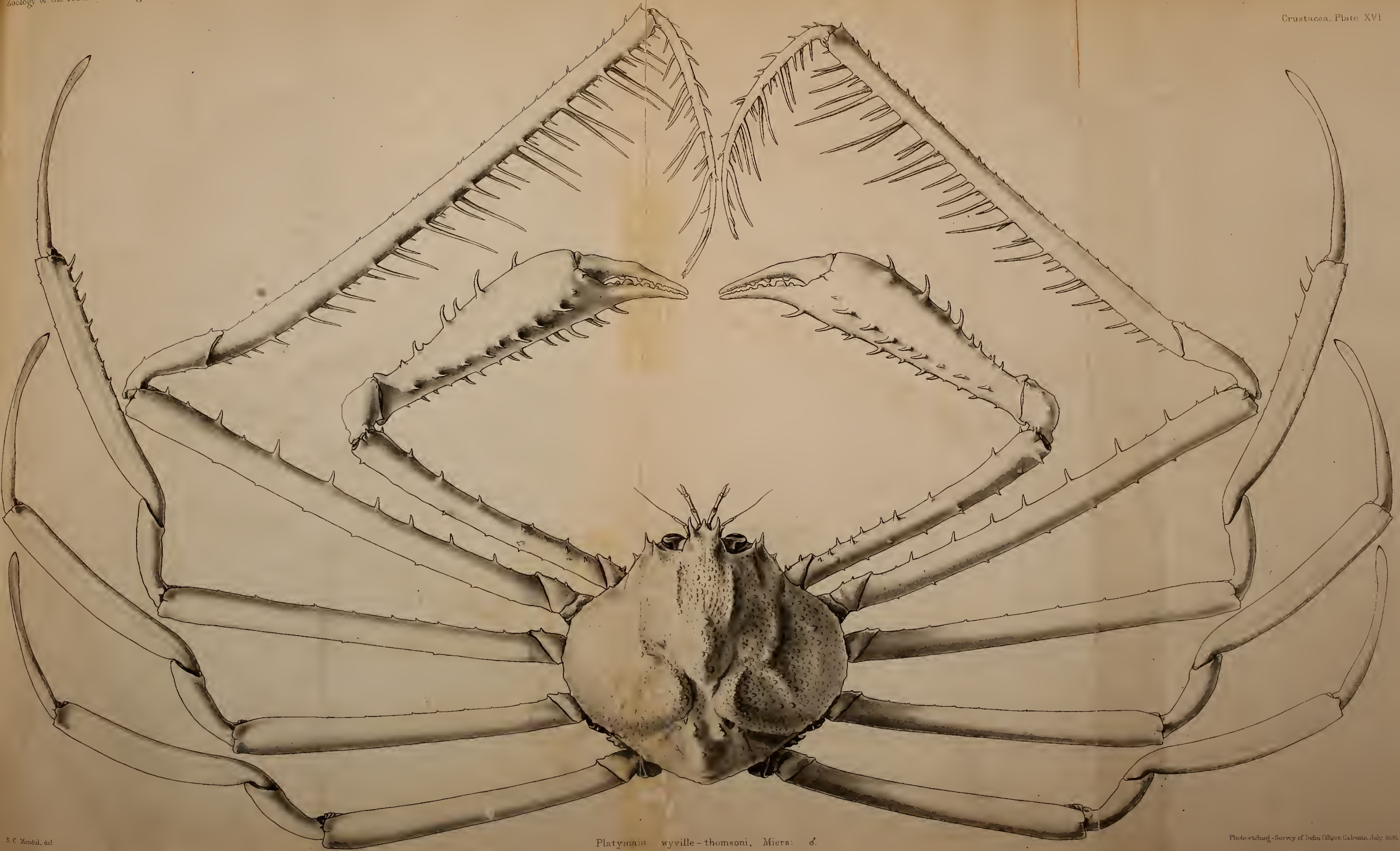
EXPLANATION OF PLATES.

—◆—
CRUSTACEA.
—◆—

PLATE XVI.

Platymaia wyville-thomsoni, Miers, ♂. Miers, Challenger Brachyura, p. 13: Wood-Mason, Annals and Magazine of Natural History, March, 1891, p. 258: Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 181.





Platymnia wyville-thomsoni, Miers: ♂.

STUDY OF MATHEMATICS

ALGEBRA

CHAPTER I

The study of algebra is a branch of mathematics that deals with the properties and operations of numbers and symbols. It is a fundamental part of mathematics and is used in many other areas of science and engineering.

Algebra is a branch of mathematics that deals with the properties and operations of numbers and symbols. It is a fundamental part of mathematics and is used in many other areas of science and engineering.

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EXPLANATION OF PLATES.

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CRUSTACEA.
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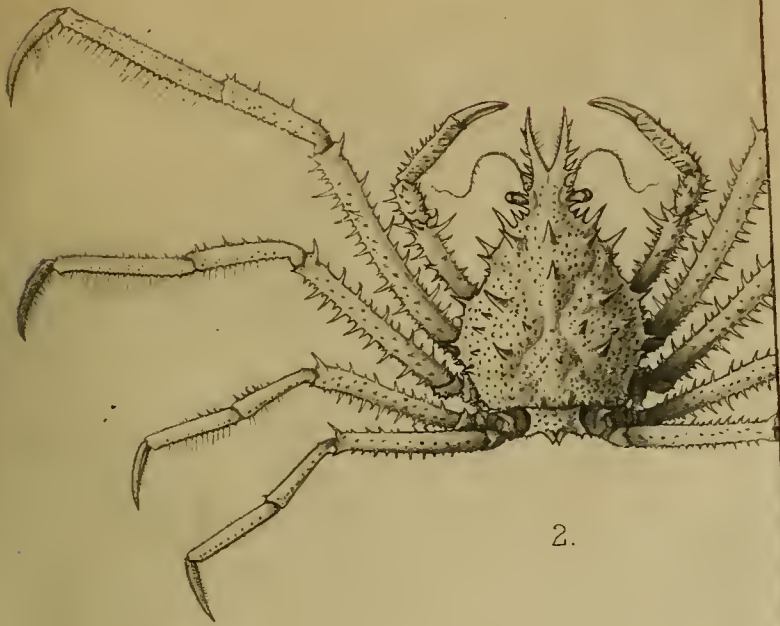
PLATE XVII.

Fig. 1.—*Echinoplax pungens*, Wood-Mason, Annals and Magazine of Natural History, March, 1891, p. 259: Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 179. ♀.

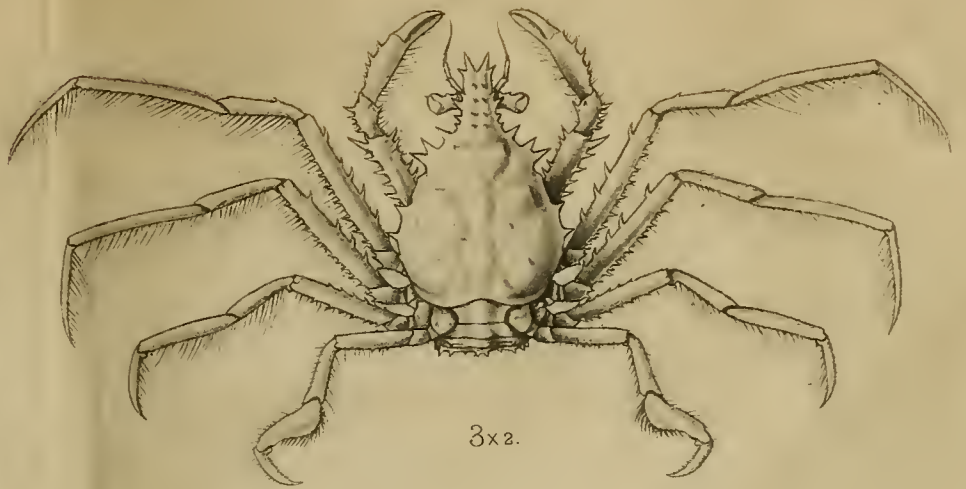
Figs. 2, 2a.—*Echinoplax rubida*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 179. ♂.

Figs. 3, 3a.—*Grypachæus hyalinus*, Alcock and Anderson, Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 205*: Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 177. ♀.

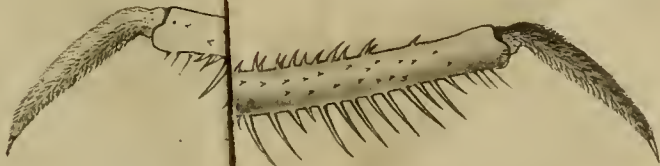
**Achæus hyalinus*.



2.



3x2.



2a.



3ax3.



2.



3x2.



1.



2a.



3ax3.

1 Echinoplax pungens, W-M., ♀. 2 Echinoplax rubida, Alc. ♂. 3 Gypachæus hyalinus, Alc. & And., ♀.

EXPLANATION OF PLATES.

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CRUSTACEA.
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PLATE XVIII.

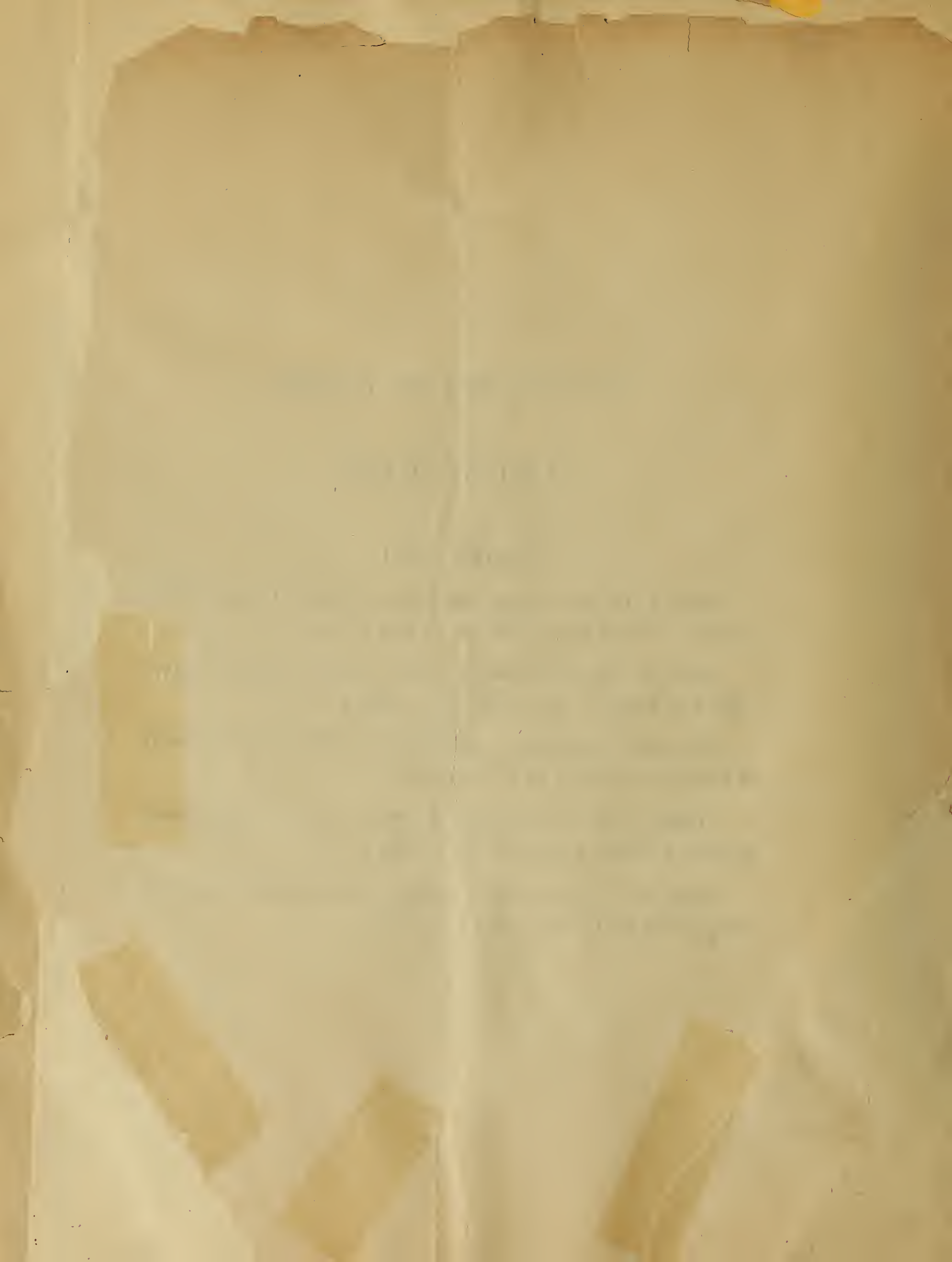
Figs. 1, 1a, 1b.—*Physachæus ctenurus*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 175. ♂. ♀.

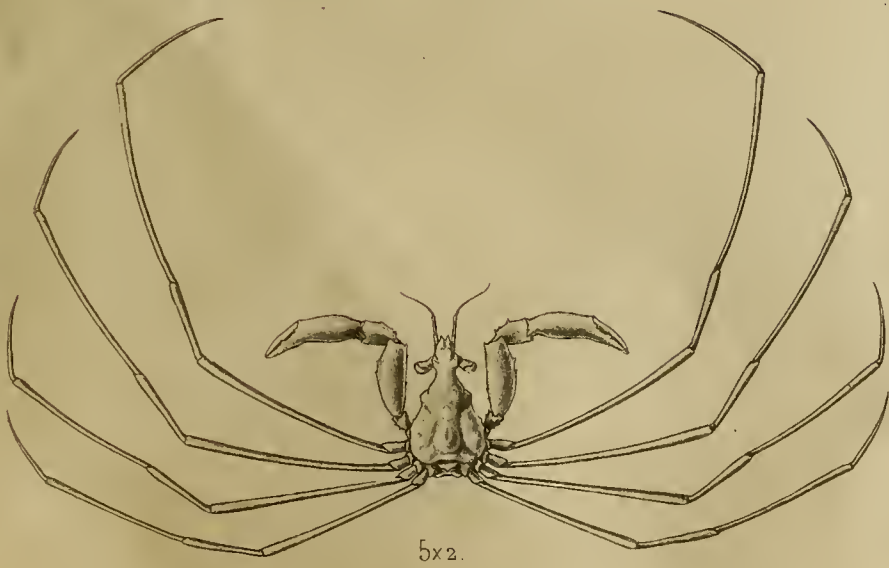
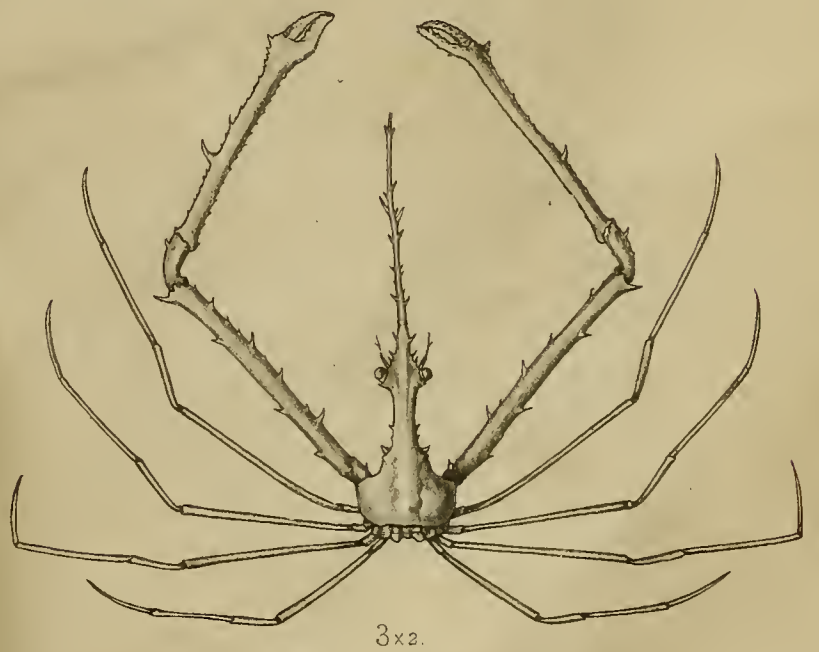
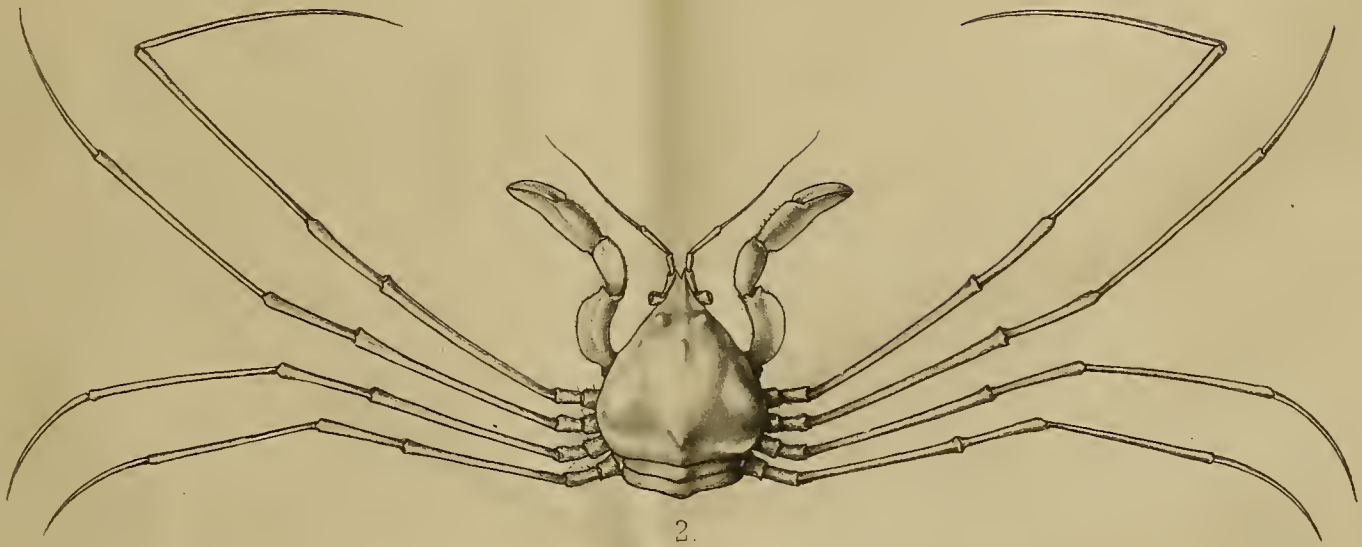
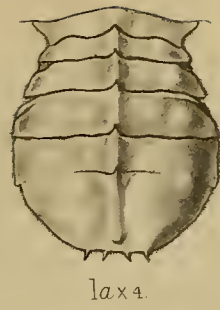
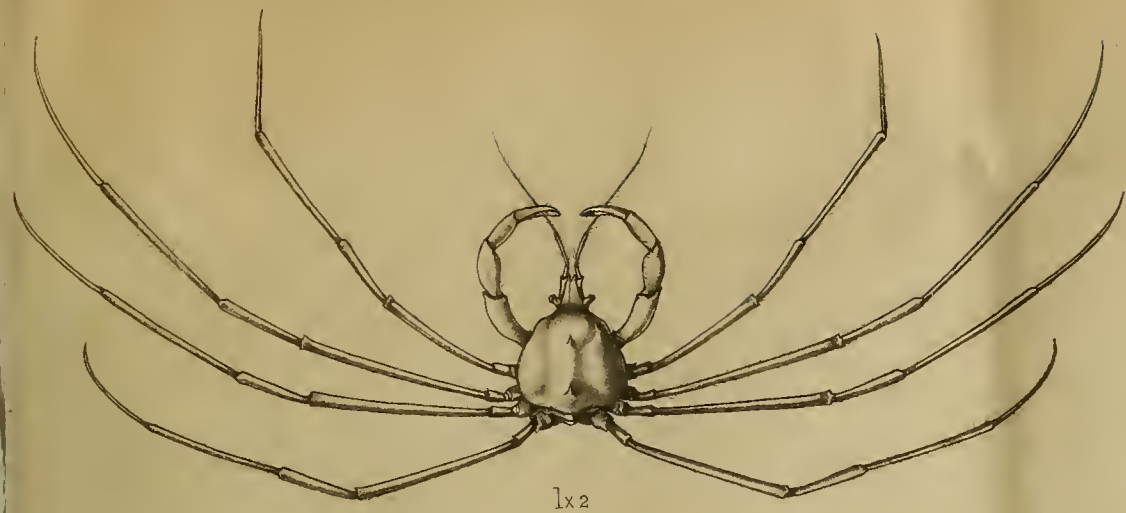
Figs. 2, 2a.—*Physachæus tonsor*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 176. ♀.

Fig. 3.—*Lambrachæus ramifer*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 168. ♂.

Figs. 4, 4a.—*Paratymolus hastatus*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 174. ♀.

Fig. 5.—*Achæus cadelli*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 171. ♂.





1. *Physachaeus ctenurus*, Alc. ♂. 2. *Physachaeus tonsor*, Alc. ♀. 3. *Lambrachaeus ramifer*, Alc. ♂.

4. *Paratymolus hastatus*, Alc. ♀. 5. *Achaeus cadelli*, Alc. ♂.



EXPLANATION OF PLATES.

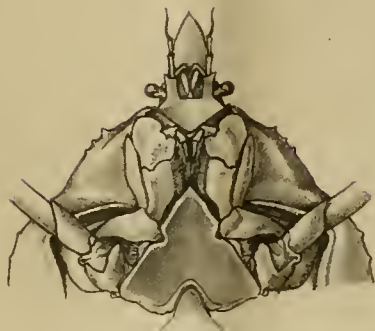
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CRUSTACEA.
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PLATE XIX.

Fig. 1.—*Collodes malabaricus*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 189. ♀.

Figs. 2, 2a.—*Encephaloides armstrongi*, Wood-Mason, Annals and Magazine of Natural History, March, 1891, p. 259: Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 187. ♂.

Figs. 3, 3a.—*Inachoides dolichorhynchus*, Alcock and Anderson, Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 206: Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 186.



2a



1. *Collodes malabaricus*, Alc. ♀ x 10. 2. *Encephaloides armstrongi* W-M ♂ 3. *Inachoides dolichorhynchus*. Alc. & And. ♂



EXPLANATION OF PLATES.

CRUSTACEA.

PLATE XX.

Figs. 1, 1a.—*Apocremnus indicus*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 188. ♂.

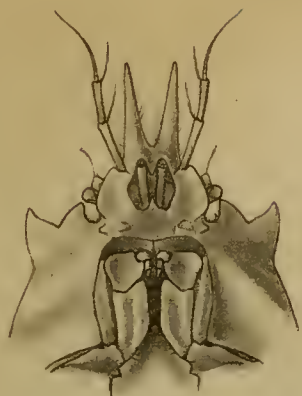
Figs. 2, 2a.—*Scyramathia beauchampi*, Alcock and Anderson, Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 185* : Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 204. ♂.

Figs. 3, 3a.—*Scyramathia globulifera*, Wood-Mason, Annals and Magazine of Natural History, March, 1891, p. 260† : Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 205. ♂.

Figs. 4, 4a.—*Chorilibinia andamanica*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 222.

* *Anamathia beauchampi*.

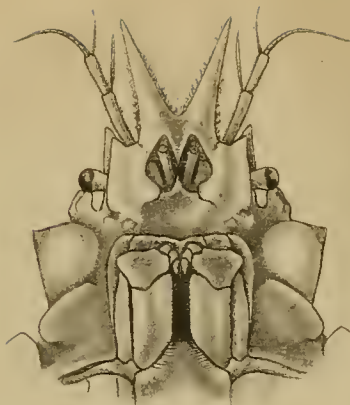
† *Pugettia globulifera*.



2a x 3.



1 x 2.



3a x 4.



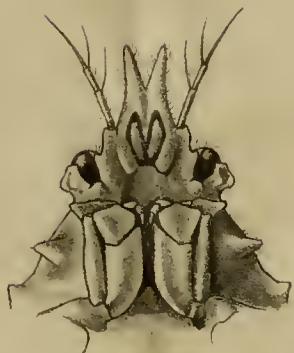
1a x 4.



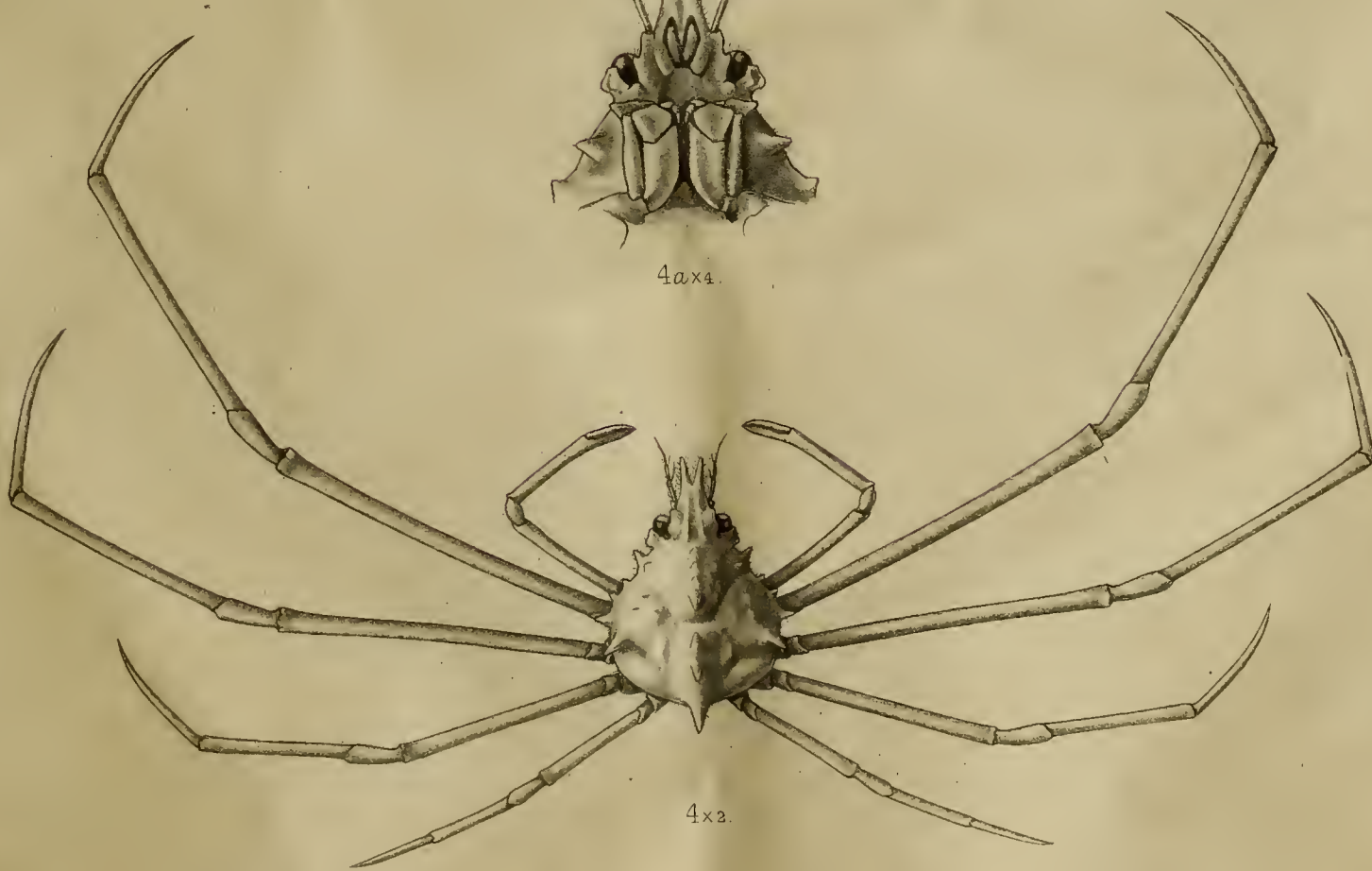
2 x 2.



3 x 2.



4a x 4.



4 x 2.

1. *Apocremnus indicus*, Alc. ♂. 2. *Scyramathia beauchampi* Alc. & And. ♂. 3. *Scyramathia globulifera*. W-M. ♂. 4. *Chorilibinia andamanica*. Alc.

EXPLANATION OF PLATES.

CRUSTACEA.

PLATE XXI.

Figs. 1, 1a.—*Sphenocarcinus cuneus*, Wood-Mason, Annals and Magazine of Natural History, March, 1891, p. 261* : Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 193. ♀.

Fig. 2.—*Hyastenus calvarius*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 213. ♀.

Figs. 3, 4.—*Macroceloma nummifer*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 255. ♀. ♂.

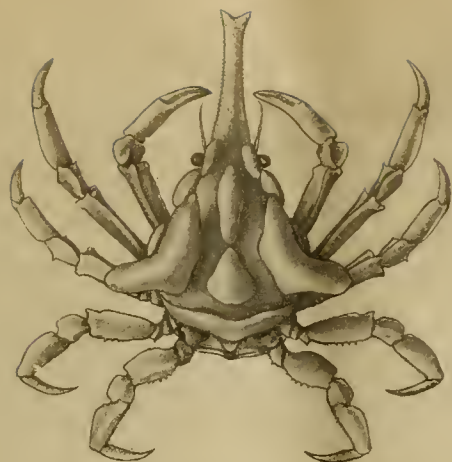
Figs. 5, 5a.—*Maia gibba*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 239. ♂.

Fig. 6.—*Naxia investigatoris*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 218.

* *Oxypleurodon cuneus*.



1a x 3.



1 x 2.



2 x 2.



3 x 2.



4 x 2.



6.



5.



5a x 2.

1. *Sphenocarcinus cuneus*, W-M. ♀. 2. *Hyastenus calvarius*, Alc. ♀. 3. *Macrocoeloma nummifer*, Alc. ♀.
 4. *Macrocoeloma nummifer*, Alc. ♂. 5. *Maia gibba*, Alc. ♂. 6. *Naxia investigatoris* Alc. ♂.

1870

1871

1872

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EXPLANATION OF PLATES.

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CRUSTACEA.
—◆—

PLATE XXII.

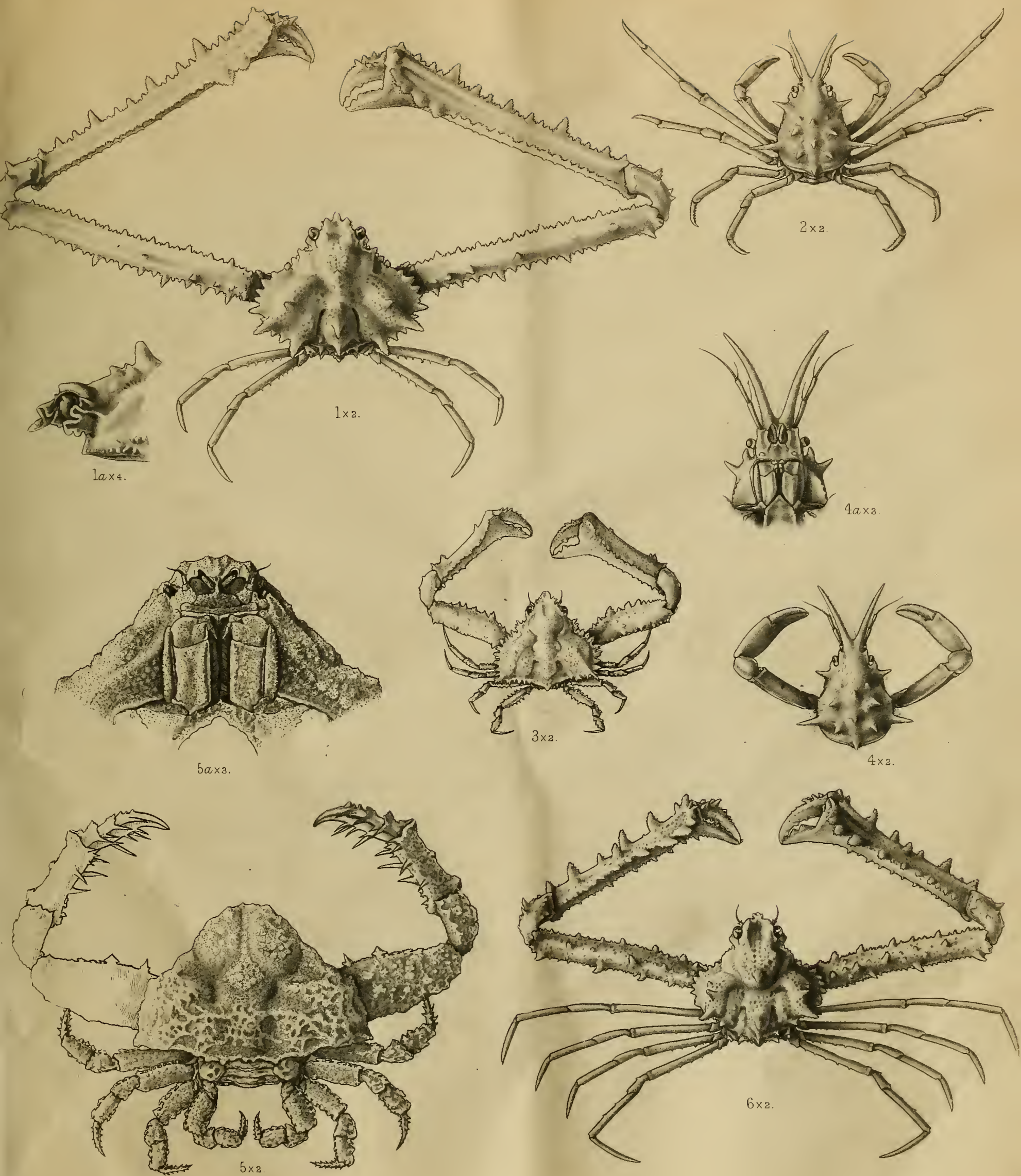
Figs. 1, 1a.—*Lambrus petalophorus*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 271. ♂.

Figs. 2, 4, 4a.—*Scyramathia rivers-andersoni*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 203. ♀. ♂.

Fig. 3.—*Lambrus beaumontii*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 276. ♂.

Figs. 5, 5a.—*Parthenope efflorescens*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 281. ♀.

Fig. 6.—*Lambrus cybelis*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895 p. 270. ♂.



1. *Lambrus petalophorus*, Alc. ♂. 2. *Scyramathia rivers-andersoni*, ♀. 3. *Lambrus beaumontii*, Alc. ♂.
 4. *Scyramathia rivers-andersoni*, ♂. 5. *Parthenope efflorescens*, Alc. 6. *Lambrus cybelis*, Alc. ♂.

EXPLANATION OF PLATES.

CRUSTACEA.

PLATE XXIII.

Figs. 1, 1a.—*Parthenope investigatoris*, Alcock. Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 296, ♀.

Fig. 2.—*Limbrus beaumontii*, Alcock. Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 276, ♀.

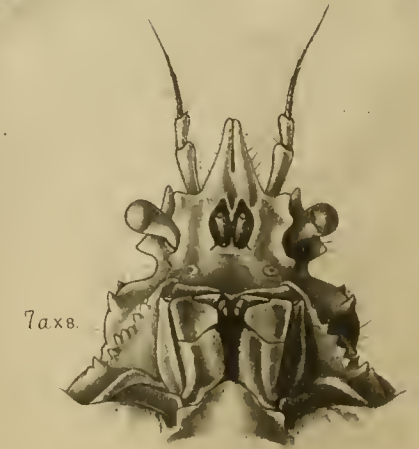
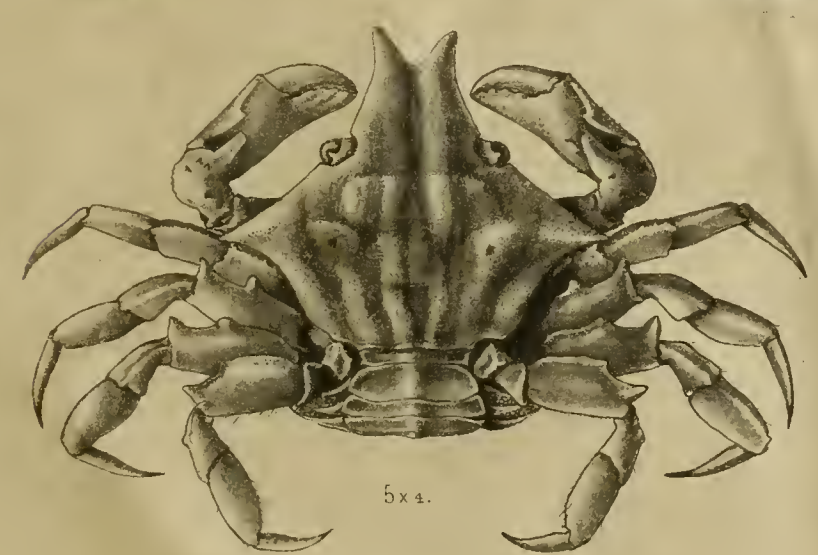
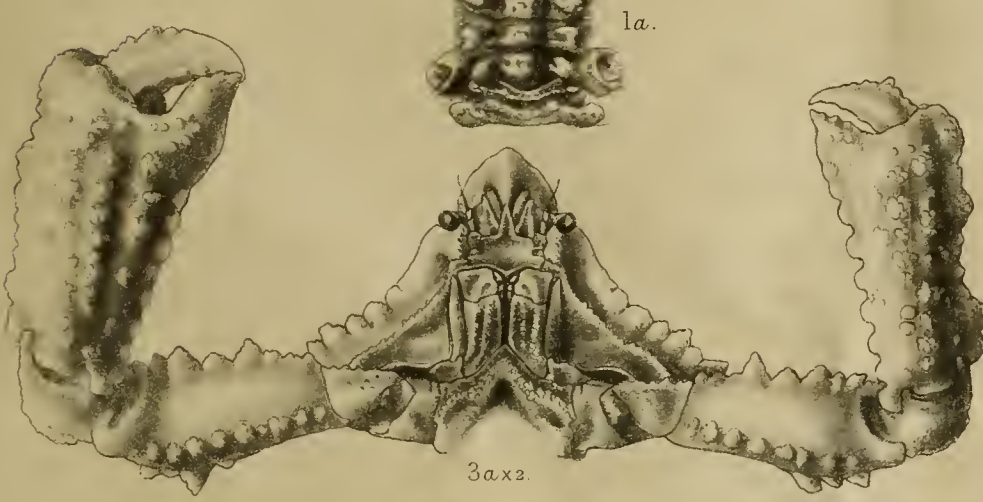
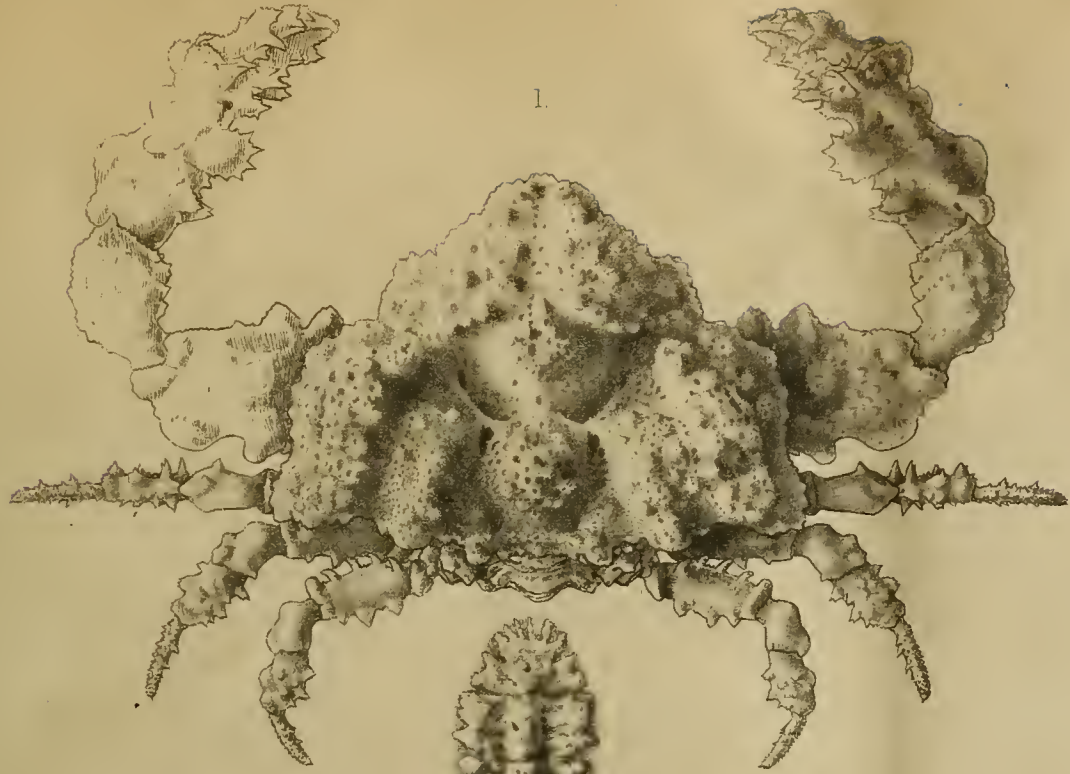
Figs. 3, 3a.—*Heterocrypta investigatoris*, Alcock. Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 284, ♀.

Fig. 4.—*Cryptopodia angulata*, var. *cippifer*, Alcock. Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 283, ♀.

Fig. 5.—*Eumedonus zebra*, Alcock. Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 288, ♀.

Fig. 6.—*Goniosoma hoplites*, Wood-Mason MS., Alcock and Anderson. Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 184, ♂.

Figs. 7, 7a.—*Mencæthiops bicornis*, Alcock. Journal, Asiatic Society of Bengal, Vol. LXIV. pt. 2, 1895, p. 289, ♀.



1. *Parthenope investigatoris*, ♀. 2. *Lambrus beaumontii*, ♀. 3. *Heterocrypta investigatoris*, ♀. 4. *Cryptopodia angulata*, var. *cippifer*.
 5. *Eumedonus zebra*, ♀. 6. *Goniosoma hoplites*, ♂. 7. *Menaethiops bicornis*, ♀.

1870

1871

1872

The following is a list of the names of the persons who have been
 admitted to the membership of the Society since the last
 meeting of the Executive Committee, held on the 15th of
 the month of January, 1872. The names are given in the
 order in which they were admitted, and are accompanied by
 the date of their admission, and the name of the person
 who presented them for admission. The names of the persons
 who were admitted by ballot are given in italics. The names
 of the persons who were admitted by subscription are given
 in plain type. The names of the persons who were admitted
 by the Executive Committee are given in plain type. The names
 of the persons who were admitted by the Executive Committee
 are given in plain type. The names of the persons who were
 admitted by the Executive Committee are given in plain type.

EXPLANATION OF PLATES.

CRUSTACEA.

PLATE XXIV.

Figs. 1, 1a.—*Dromidia kendalli*, Alcock and Anderson. Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 175, ♀.

Fig. 2.—*Pariphiculus coronatus*, Alcock and Anderson. Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 177: Alcock. Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 258, ♀

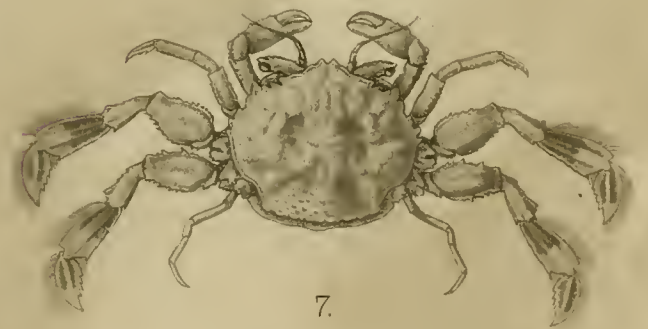
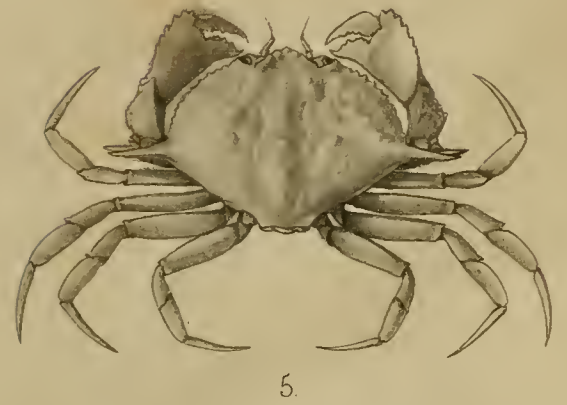
Fig. 3.—*Randallia pustulilabris*, Alcock. Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 193 (= *Leucosilia granulosa*, Alcock and Anderson. Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 207), ♀.

Fig. 4.—*Dorippe polita*, Alcock and Anderson. Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 208: Alcock. Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 281, ♀.

Fig. 5.—*Mursia bicristimana*, Alcock and Anderson. Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 179: Alcock. Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 150. ♀.

Fig. 6.—*Arcania quinquespinosa*, Wood-Mason MS. Alcock and Anderson. Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 206. Alcock. Journal, Asiatic Society of Bengal, Vol. LXV, pt. 2, 1896, p. 266, ♀.

Fig. 7.—*Cymopolia serripes*, Alcock and Anderson. Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 208, ♀.



1. *Dromidia kendalli* A & A. ♀ 2. *Randallia coronata*, A & A. ♀ 3. *Leucosilia granulosa* A & A. ♀ 4. *Dorippe pohna*, A & A. ♀

5. *Mursia bicristimana*, A & A. ♀ 6. *Arcania quinquespinosa*, W-M. ♀ 7. *Cymopelia serripes*, A & A. ♀

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PLATE XXV.

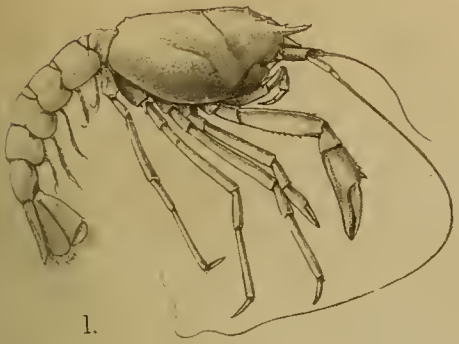
Figs. 1, 1a.—*Calastacus investigatoris*, Anderson. Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 97, ♂.

Figs. 2, 2a.—*Acantheephyra cristata*, Faxon. Bull. Mus. Comp. Zool., Vol. XXIV. 1893, p. 206; and Mem. Mus. Comp. Zool., Vol. XVIII. p. 162, pl. xliii. figs. 1, 1a, 1b: * Anderson. Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 94, ♀.

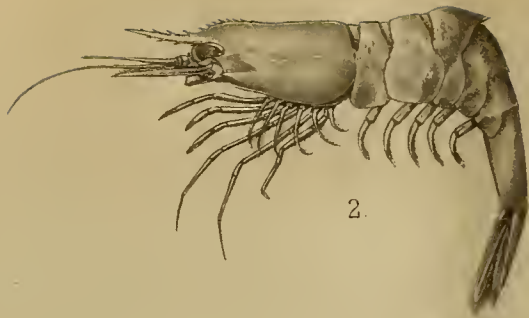
Figs. 3, 3a.—*Galacantha trachynotus*, Anderson. Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 100, ♀.

Figs. 4, 4a.—*Trichopeltarium ovale*, Anderson. Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 103, ♀.

* *Systellaspis gibba* on plate.



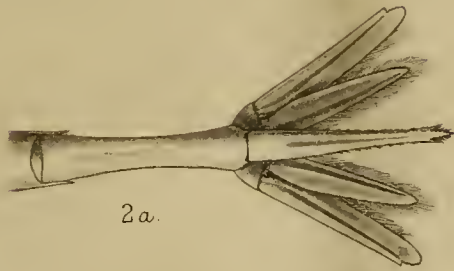
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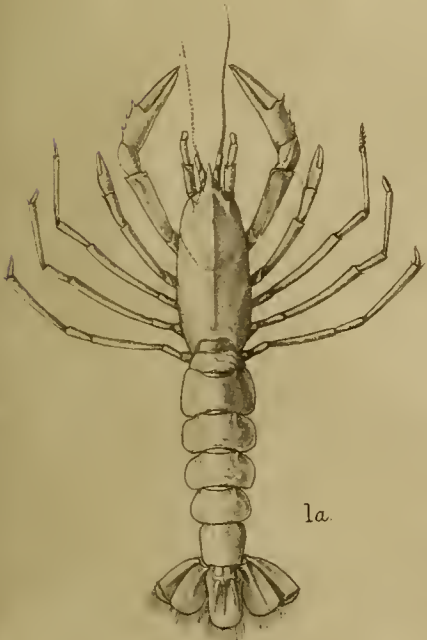
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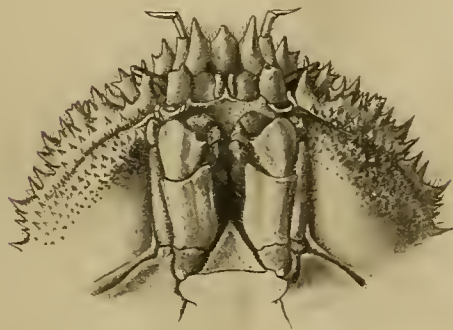
3.



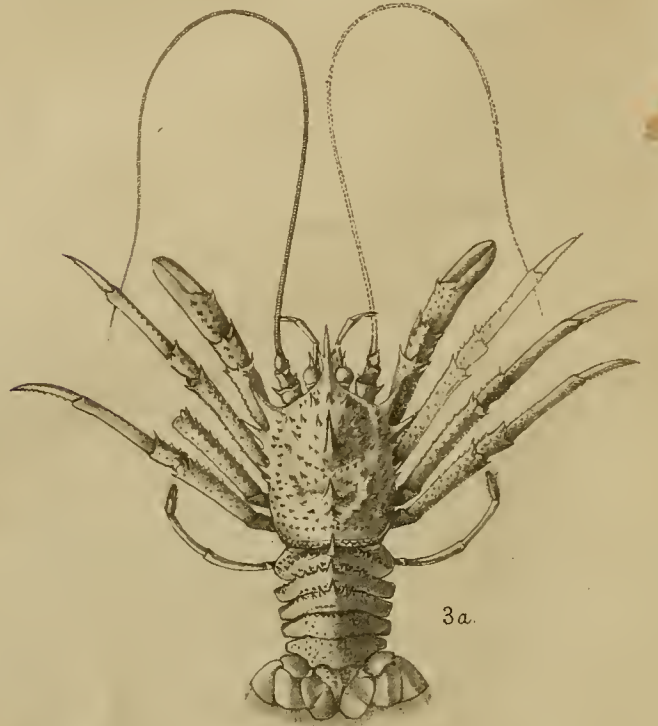
2a.



1a.



4a.



3a.



4.

1. *Axius* (*Eiconaxius*) *Investigatoris*, And. ♂. 2. *Systellaspis gibba*, And. ♀. 3. *Galacantha trachynotus*, And. ♀. 4. *Trichopeltarion ovale*, And. ♀.

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EXPLANATION OF PLATES.

CRUSTACEA.

PLATE XXVI.

Fig. 1.—*Haliporus villosus*, Alcock and Anderson. Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 146, ♀.

Figs. 2, 2a, 2b.—*Callianassa cæcigena*, Alcock and Anderson. Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 163, ♀.

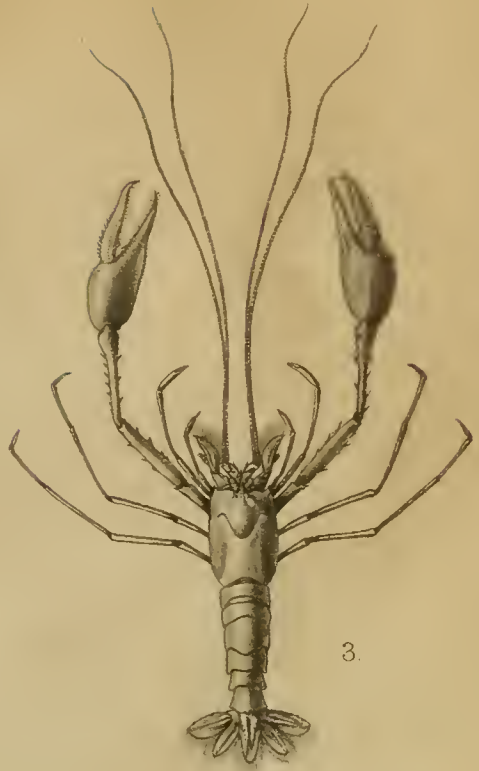
Fig. 3.—*Engystenopus palmipes*, Alcock and Anderson. Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 149, ♀.

Fig. 4.—*Palæmonella laccadivensis*, Alcock and Anderson. Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 157, ♀.

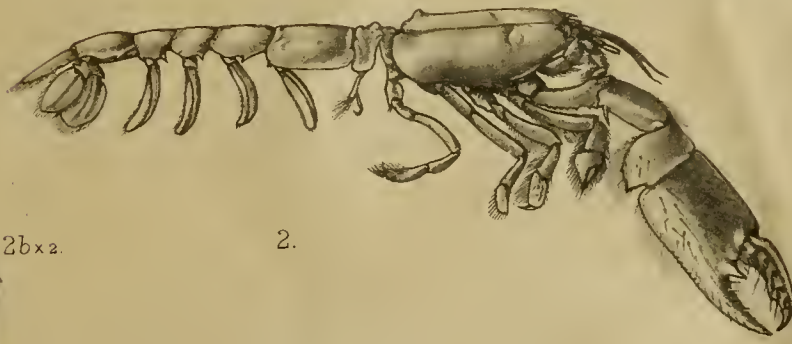
Fig. 5.—*Solenocera hextii*, Wood-Mason. Annals and Magazine of Natural History, February 1891, p. 188, ♀.



1



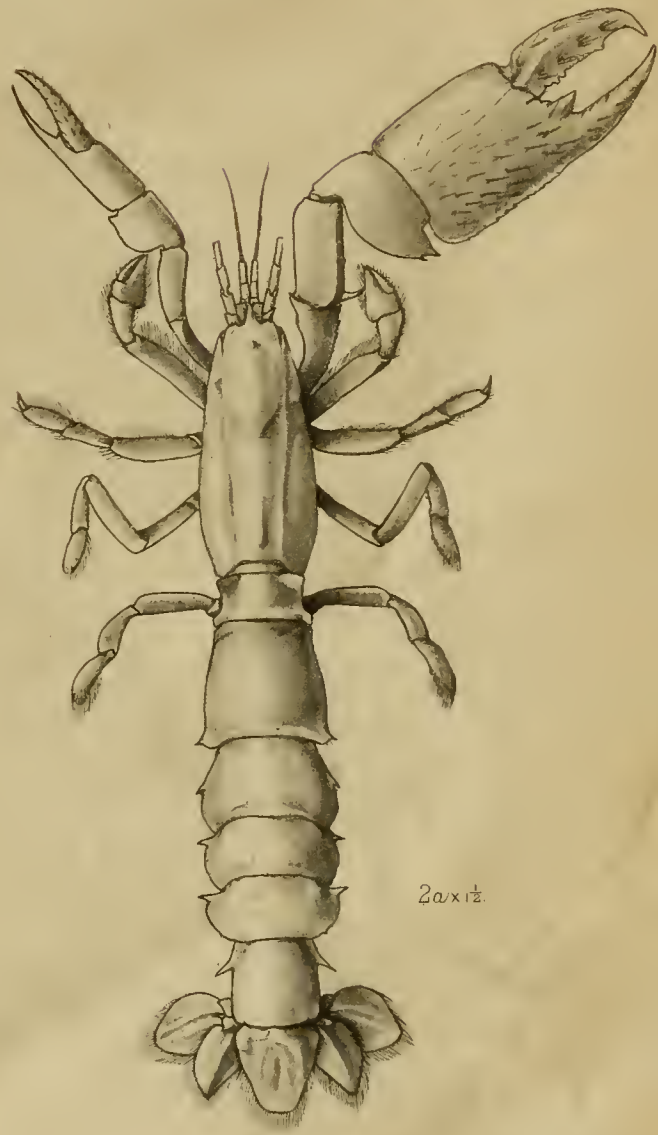
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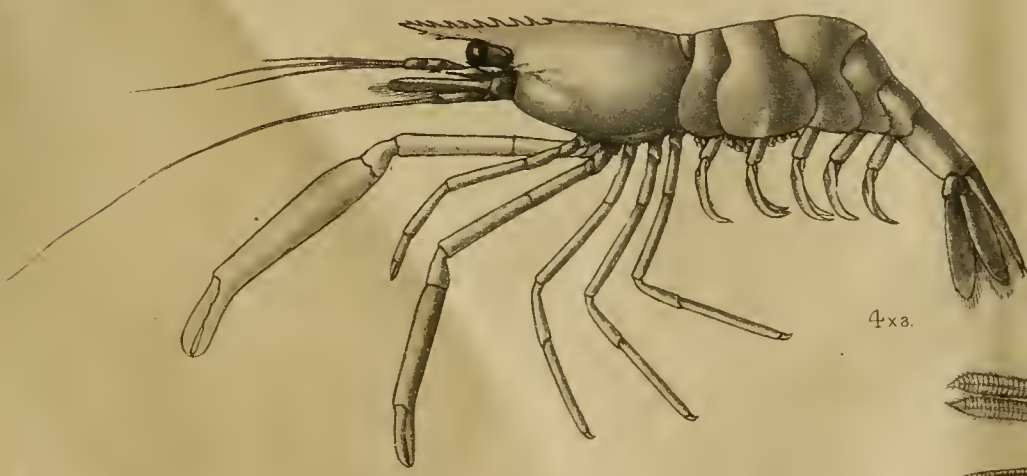
2.



2bx2.



2ax12.



4xa.



5.

1. Haliporus villosus, A & A. ♀. 2. Callianassa caecigena, A & A. ♀. 3. Engystenopus palmipes, A & A.
 4. Palaemonella laccadvensis, A & A. ♀. 5. Solenocera hextii, W-M. ♀.

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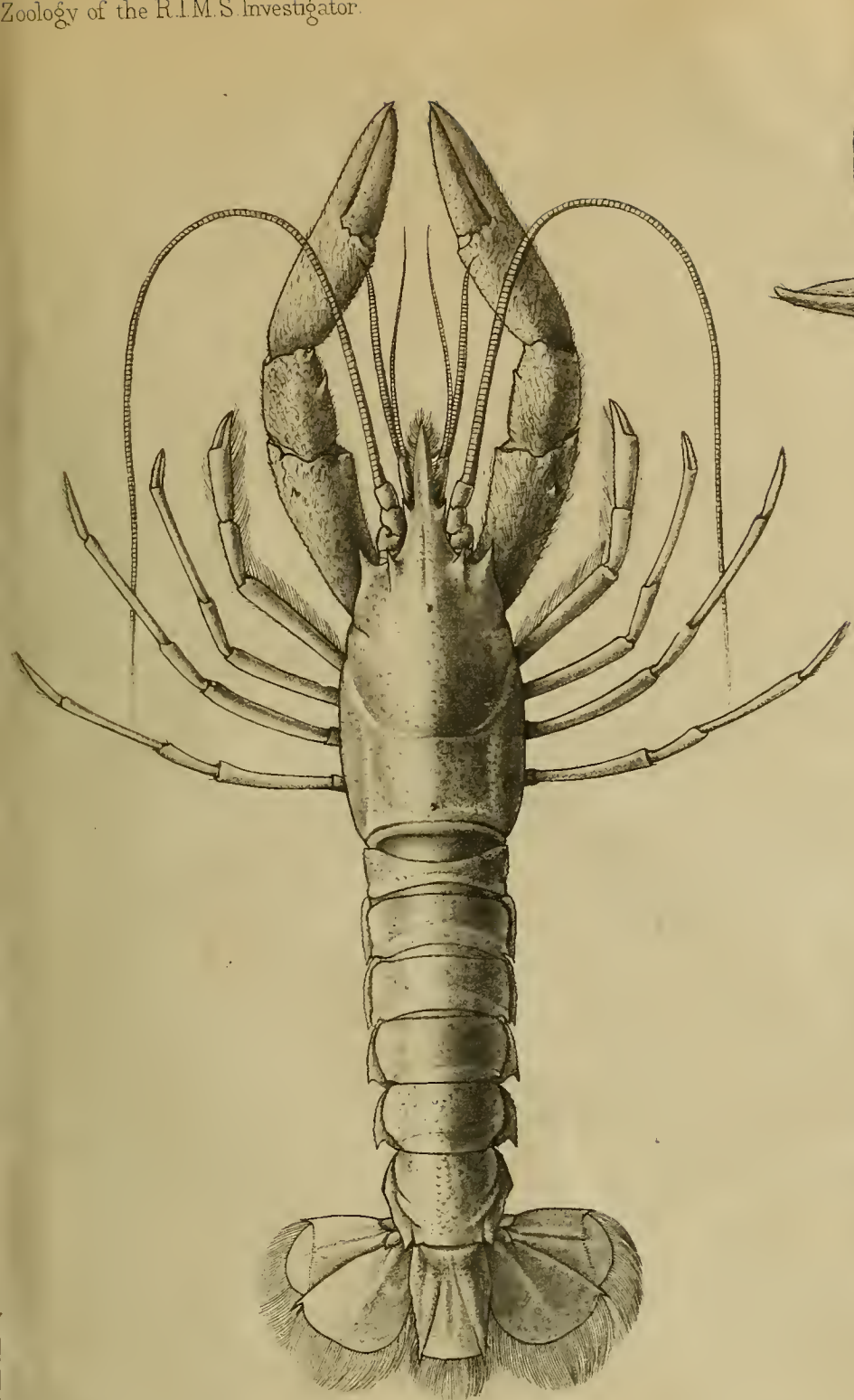
EXPLANATION OF PLATES.

—♦—
CRUSTACEA.
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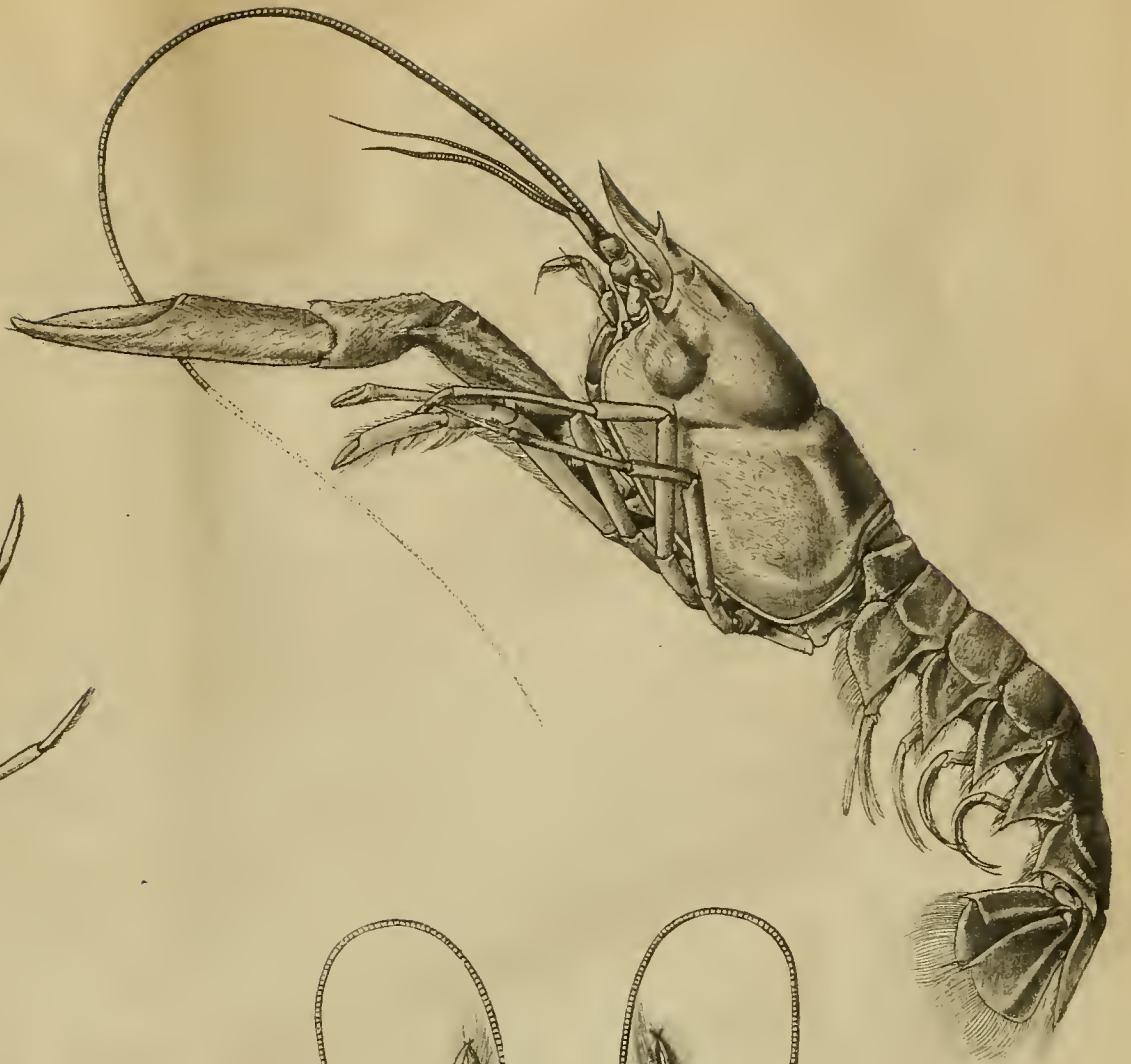
PLATE XXVII.

Figs. 1, 1a.—*Nephropsis stewartii*, Wood-Mason. Journal, Asiatic Society of Bengal, Vol. XLII. pt. 2, 1873, p. 39, pl. iv: Annals and Magazine of Natural History, (4) XII. 1873, p. 59: A. Milne-Edwards, Ann. Sci. Nat., Zool., (5) XIX. p. 7, pl. xx, figs. 1-3: Alcock, Annals and Magazine of Natural History. (6) XIII. 1894, p. 230, ♂.

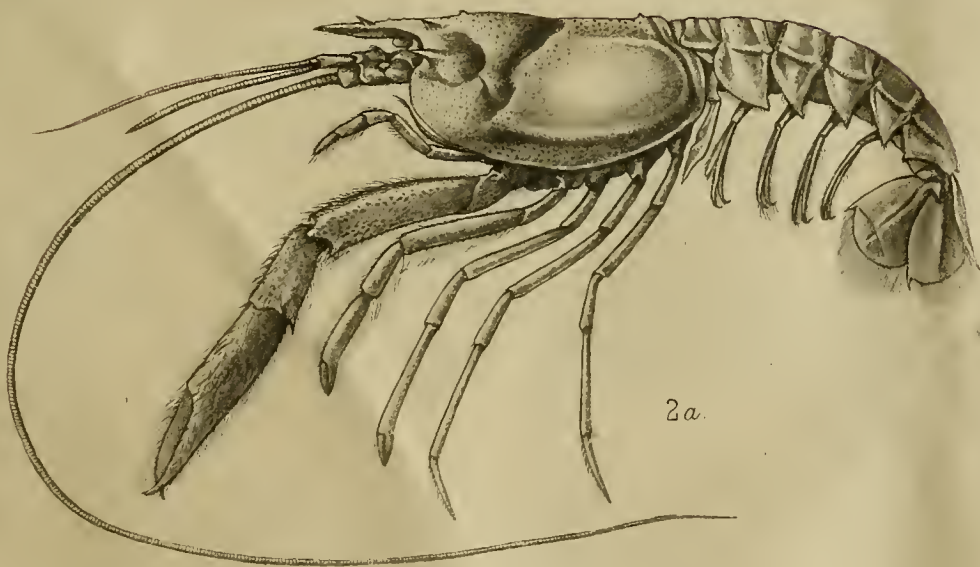
Figs. 2, 2a.—*Nephropsis carpenteri*, Wood-Mason. Proceedings, Asiatic Society of Bengal, 1885, p. 70: Alcock and Anderson. Journal, Asiatic Society of Bengal, Vol. LXIII. pt. 2, 1894, p. 161, ♂.



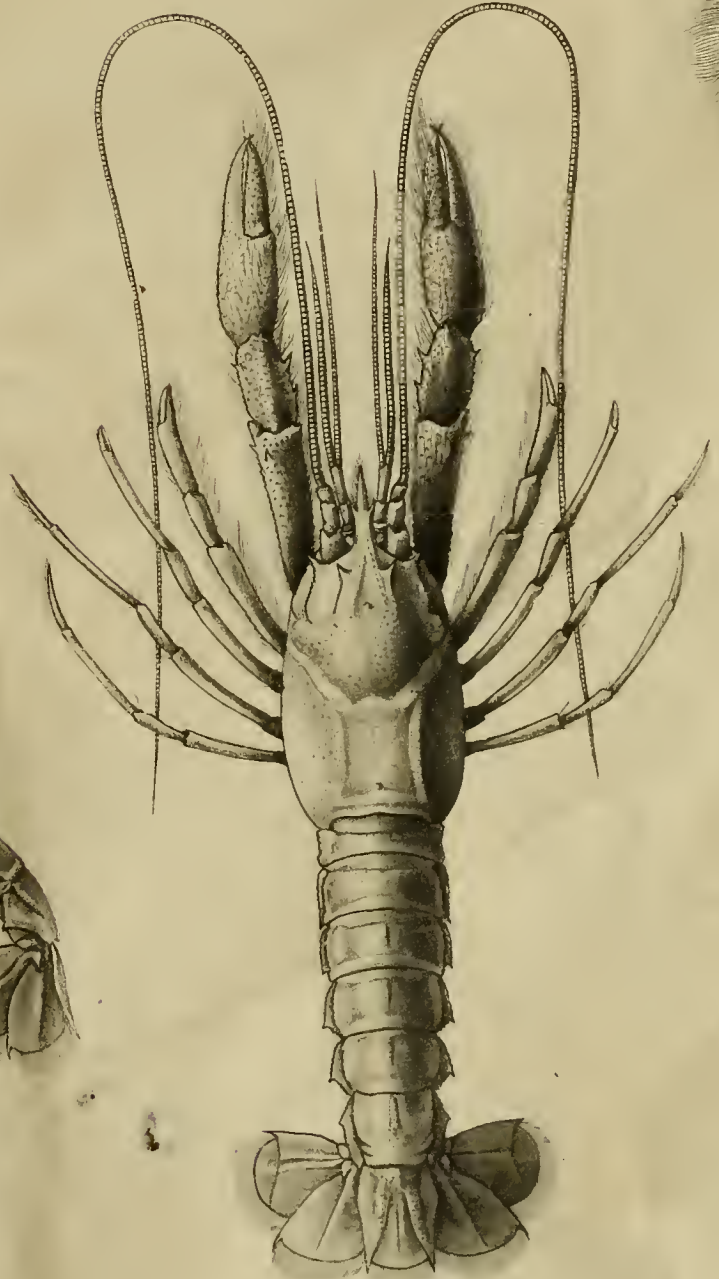
1.



1a.



2a.



2.

1. *Nephropsis stewarti*, W-M. ♂ 2. *Nephropsis carpenteri*, W-M. ♂

ILLUSTRATIONS
OF THE
ZOOLOGY
OF THE
ROYAL INDIAN MARINE SURVEYING STEAMER
INVESTIGATOR,

UNDER THE COMMAND OF
COMMANDER C. F. OLDHAM, R.N.

FISHES.—Part IV, Plate XVII.
CRUSTACEA.—Part V, Plates XXVIII—XXXII.
MOLLUSCA.—Part I, Plates I—VI.

UNDER THE DIRECTION OF
A. ALCOCK, M.B., C.M.Z.S., LATE SURGEON-NATURALIST TO THE MARINE SURVEY
AND OF
A. R. S. ANDERSON, B.A., M.B., SURGEON-NATURALIST TO THE MARINE SURVEY.



Published under the Authority of Rear Admiral Sir John Dent, R.N., R.C.N.E.,
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PHILOSOPHY

1913-1914

The following is a list of the courses offered in the Department of Philosophy during the year 1913-1914. The courses are arranged in the order in which they are given during the year. The number of credits for each course is given in parentheses. The names of the instructors are given in italics.

1. Introduction to Philosophy (3 credits) - *Dr. J. M. G. Leach*

2. History of Philosophy (3 credits) - *Dr. J. M. G. Leach*

3. Logic (3 credits) - *Dr. J. M. G. Leach*

4. Ethics (3 credits) - *Dr. J. M. G. Leach*

5. Political Philosophy (3 credits) - *Dr. J. M. G. Leach*

6. Social Philosophy (3 credits) - *Dr. J. M. G. Leach*

7. Aesthetics (3 credits) - *Dr. J. M. G. Leach*

8. The Philosophy of Science (3 credits) - *Dr. J. M. G. Leach*

9. The Philosophy of Language (3 credits) - *Dr. J. M. G. Leach*

10. The Philosophy of Mind (3 credits) - *Dr. J. M. G. Leach*

11. The Philosophy of Religion (3 credits) - *Dr. J. M. G. Leach*

12. The Philosophy of Law (3 credits) - *Dr. J. M. G. Leach*

13. The Philosophy of Education (3 credits) - *Dr. J. M. G. Leach*

14. The Philosophy of Art (3 credits) - *Dr. J. M. G. Leach*

15. The Philosophy of Music (3 credits) - *Dr. J. M. G. Leach*

16. The Philosophy of Literature (3 credits) - *Dr. J. M. G. Leach*

17. The Philosophy of History (3 credits) - *Dr. J. M. G. Leach*

18. The Philosophy of Geography (3 credits) - *Dr. J. M. G. Leach*

19. The Philosophy of Natural Science (3 credits) - *Dr. J. M. G. Leach*

20. The Philosophy of Mathematics (3 credits) - *Dr. J. M. G. Leach*

EXPLANATION OF PLATES.

CRUSTACEA.

PLATE XXVIII.

Fig. 1.—*Calappa pustulosa*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 147. ♂.

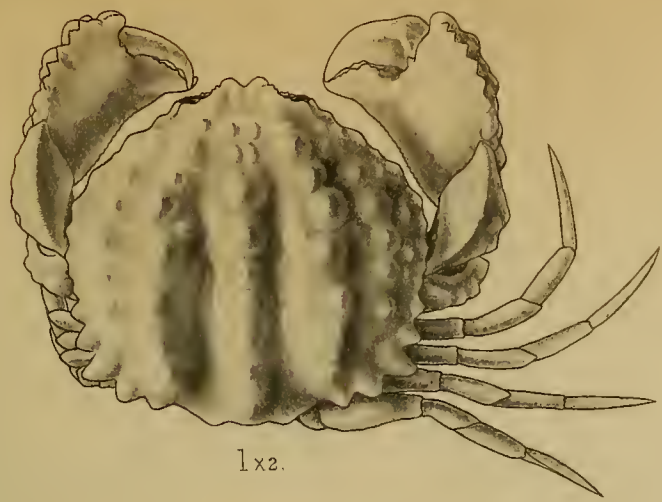
Fig. 2.—*Calappa wood-masoni*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 148. ♂.

Fig. 3.—*Actæomorpha lapillulus*, Alcock, Journal, Asiatic Society of Bengal, Vol. XLV. pt. 2, 1896, p. 173. ♀.

Fig. 4.—*Actæomorpha morum*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 172. ♀.

Fig. 5.—*Tlos patella*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 176. ♀.

Fig. 6.—*Heteronucia vesiculosa*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 177. ♀.



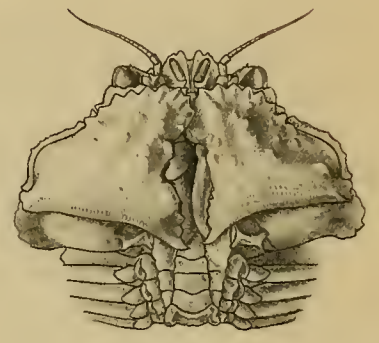
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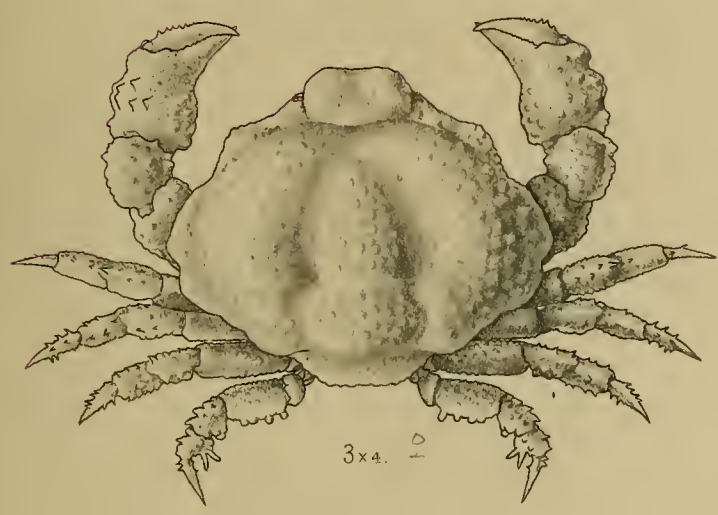
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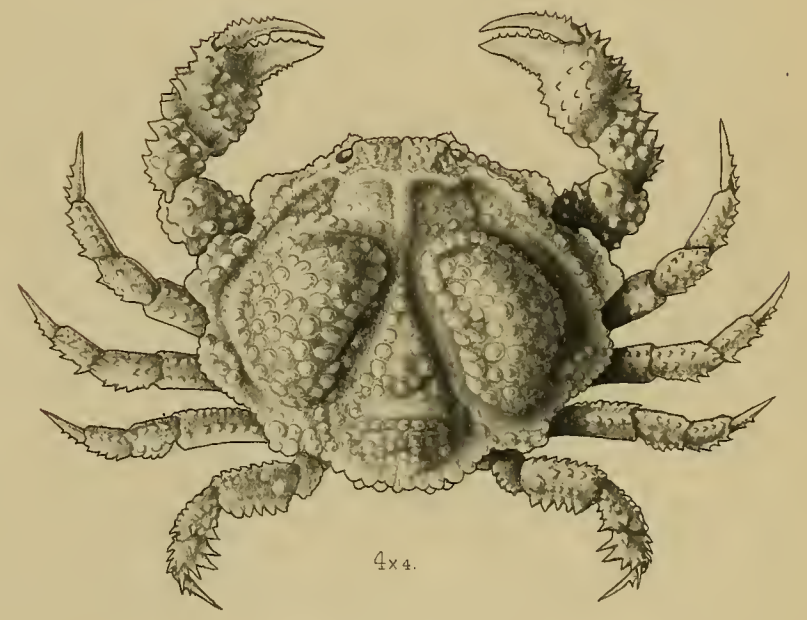
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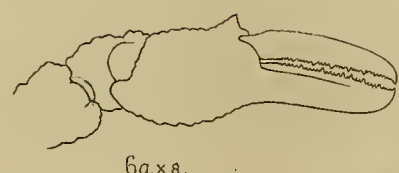
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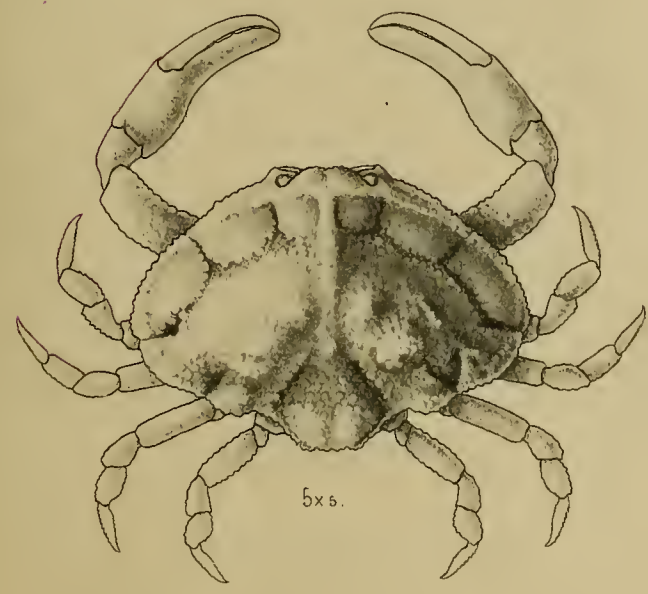
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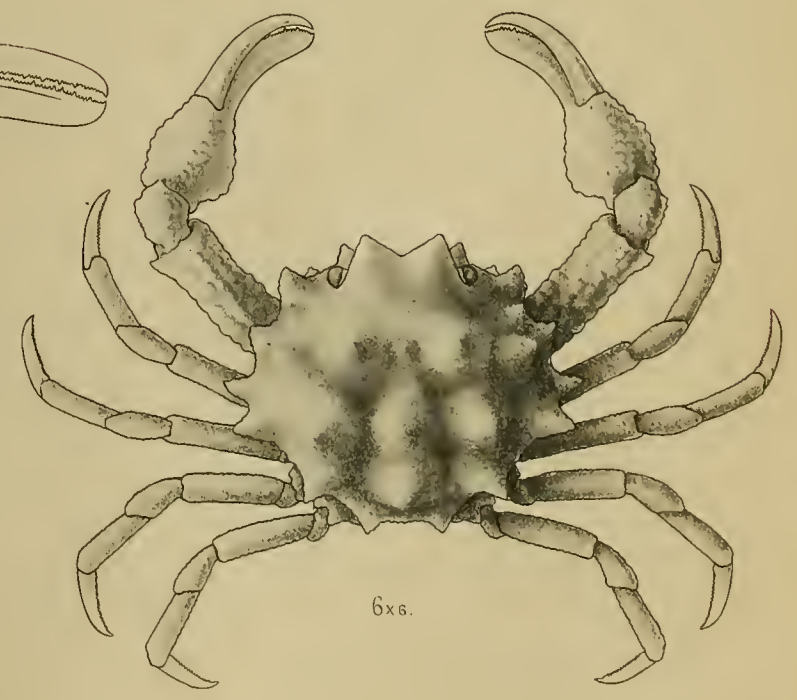
4x4.



6ax8.



5x5.



6x6.

1. *Calappa pustulosa*, Alc., ♂x2. 2. *Calappa woodmasoni*, Alc., ♂x4. 3. *Actaeomorpha lapillus*, Alc., ♀x4.
 4. *Actaeomorpha morum*, Alc., ♀x4. 5. *Tlos patella*, Alc., ♀x5. 6. *Heteronucia vesiculosa*, Alc., ♀x6.

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Faint, illegible text, likely bleed-through from the reverse side of the page.

EXPLANATION OF PLATES.

CRUSTACEA.

PLATE XXIX.

Fig. 1.—*Nursia persica*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 183. ♀.

Fig. 2.—*Nursia nasuta*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 183. ♂.

Fig. 3.—*Nursia blanfordi*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 182. ♀.

Fig. 4.—*Ebalia diadumena*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 187. ♀.

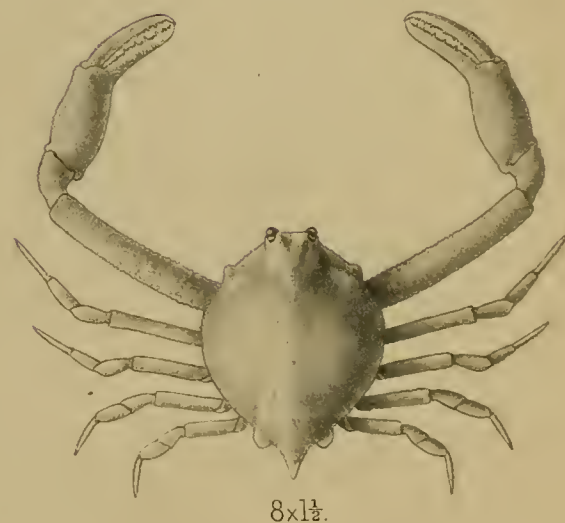
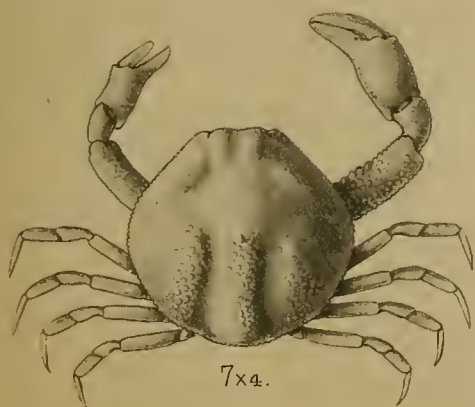
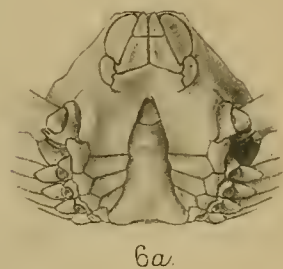
Fig. 5.—*Ebalia wood-masoni*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 188. ♂.

Figs. 6, 6a.—*Philyra sexangula*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 241. ♂.

Figs. 7, 7a.—*Philyra corallicola*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 247. ♂.

Figs. 8, 8a.—*Myra brevimana*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 206. ♂.

Fig. 9.—*Ebalia sagittifera*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 188. ♂.



1. *Nursia persica*, Alc. ♀ x3. 2. *Nursia nasuta*, Alc. ♂ x6. 3. *Nursia blanfordi*, Alc. ♀ x4. 4. *Ebalia diadumena*, Alc. ♀ x4.
 5. *Ebalia woodmasoni*, Alc. ♂ x4. 6. *Philyra sexangula*, Alc. ♂ x2. 7. *Philyra corallicola*, Alc. ♂ x4.
 8. *Myra brevimana*, Alc. ♂ x1½. 9. *Ebalia sagittifera*, Alc. ♂ x4.

1875

RECAPITULATION

The following table shows the results of the various experiments conducted during the year 1875, and compares them with those obtained in the preceding years. It will be seen that the results are generally in accordance with the expectations formed from the theory, and that the experiments have been conducted with great care and accuracy.

The first experiment was conducted on the 1st of January, and the results were as follows:—

The second experiment was conducted on the 15th of January, and the results were as follows:—

The third experiment was conducted on the 30th of January, and the results were as follows:—

The fourth experiment was conducted on the 15th of February, and the results were as follows:—

The fifth experiment was conducted on the 30th of February, and the results were as follows:—

The sixth experiment was conducted on the 15th of March, and the results were as follows:—

The seventh experiment was conducted on the 30th of March, and the results were as follows:—

The eighth experiment was conducted on the 15th of April, and the results were as follows:—

The ninth experiment was conducted on the 30th of April, and the results were as follows:—

The tenth experiment was conducted on the 15th of May, and the results were as follows:—

The eleventh experiment was conducted on the 30th of May, and the results were as follows:—

The twelfth experiment was conducted on the 15th of June, and the results were as follows:—

The thirteenth experiment was conducted on the 30th of June, and the results were as follows:—

The fourteenth experiment was conducted on the 15th of July, and the results were as follows:—

The fifteenth experiment was conducted on the 30th of July, and the results were as follows:—

The sixteenth experiment was conducted on the 15th of August, and the results were as follows:—

The seventeenth experiment was conducted on the 30th of August, and the results were as follows:—

The eighteenth experiment was conducted on the 15th of September, and the results were as follows:—

The nineteenth experiment was conducted on the 30th of September, and the results were as follows:—

The twentieth experiment was conducted on the 15th of October, and the results were as follows:—

The twenty-first experiment was conducted on the 30th of October, and the results were as follows:—

The twenty-second experiment was conducted on the 15th of November, and the results were as follows:—

The twenty-third experiment was conducted on the 30th of November, and the results were as follows:—

The twenty-fourth experiment was conducted on the 15th of December, and the results were as follows:—

The twenty-fifth experiment was conducted on the 30th of December, and the results were as follows:—

EXPLANATION OF PLATES.

CRUSTACEA.

PLATE XXX.

Fig. 1.—*Leucosia sima*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 227. ♀.

Fig. 2.—*Leucosia corallicola*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 224.

Fig. 3.—*Leucosia truncata*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 234. ♀.

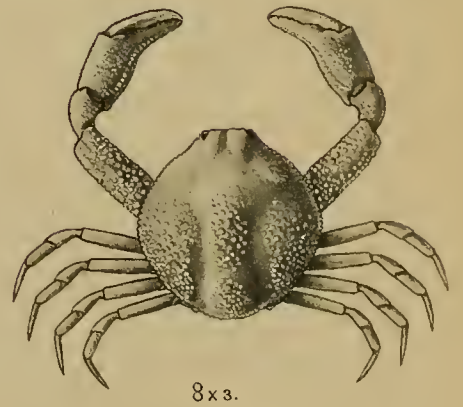
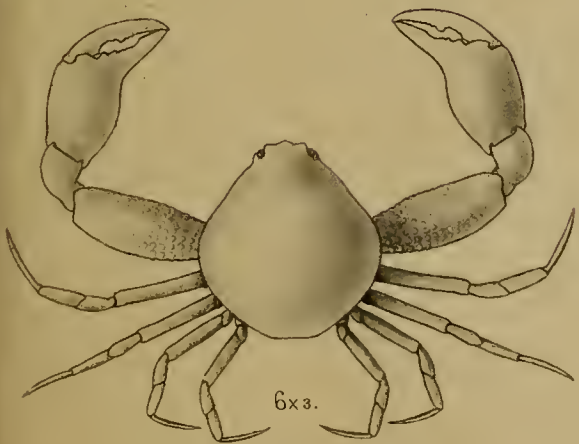
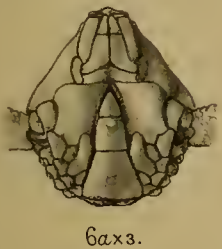
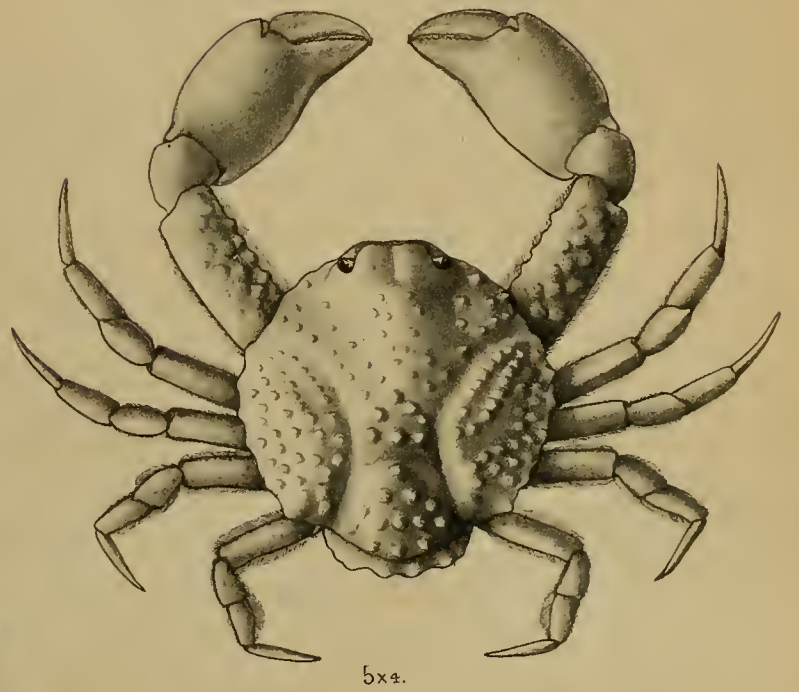
Fig. 4.—*Randallia eburnea*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 197. ♂.

Figs. 5, 5a.—*Randalia lanata*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 193. ♂.

Figs. 6, 6a.—*Pseudophilyra wood-masoni*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 250 ♂.

Fig. 7.—*Pariphiculus rostratus*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 259.

Figs. 8, 8a.—*Pseudophilyra blanfordi*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 252. ♂.



1. *Leucosia sima*, Alc., ♀x2. 2. *Leucosia corallicola*, Alc. juv. x3. 3. *Leucosia bruncata*, Alc ♀x2.
 4. *Randallia eburnea*, Alc. ♂x1.5. 5. *Randallia lanata*, Alc x4. 6. *Pseudophilyra woodmasoni*, Alc., ♂x3.
 7. *Pariphiculus rostratus* Alc. 8. *Pseudophilyra blanfordi*, Alc. ♂x3.

EXPLANATION OF PLATES.

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—♦—

PLATE XXXI.

Fig. 1.—*Eupagurus pergranulatus*, Henderson, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 520.

Fig. 2.—*Pylopagurus magnimanus*, Henderson, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 522.

Figs. 3, 3a, 3b, 3c.—*Catapagurus muricatus*, Henderson, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 524.

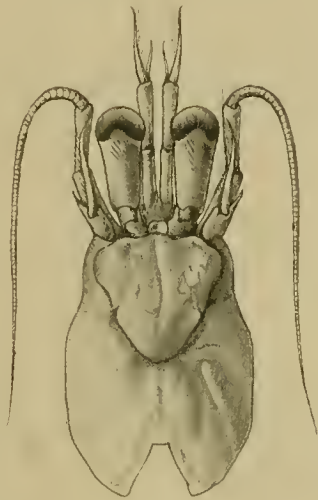
Figs. 4, 4a.—*Paguristes pusillus*, Henderson, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 526.



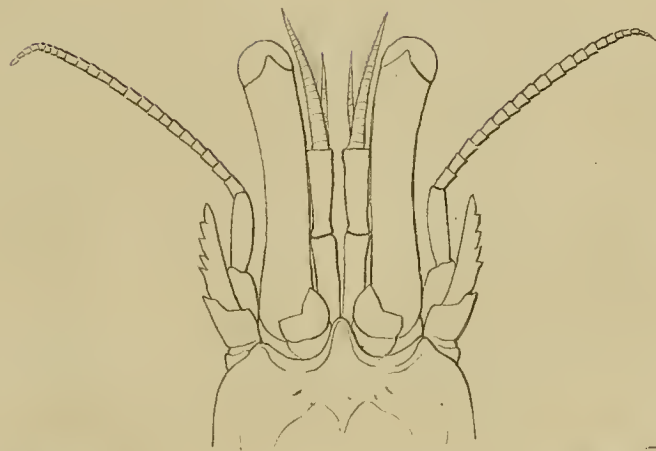
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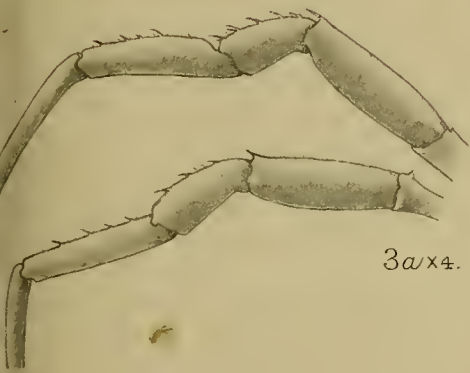
2x3/4



3x4.



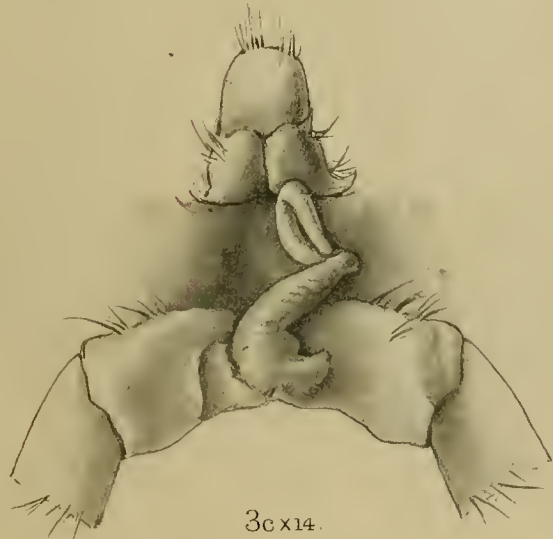
4a x 8.



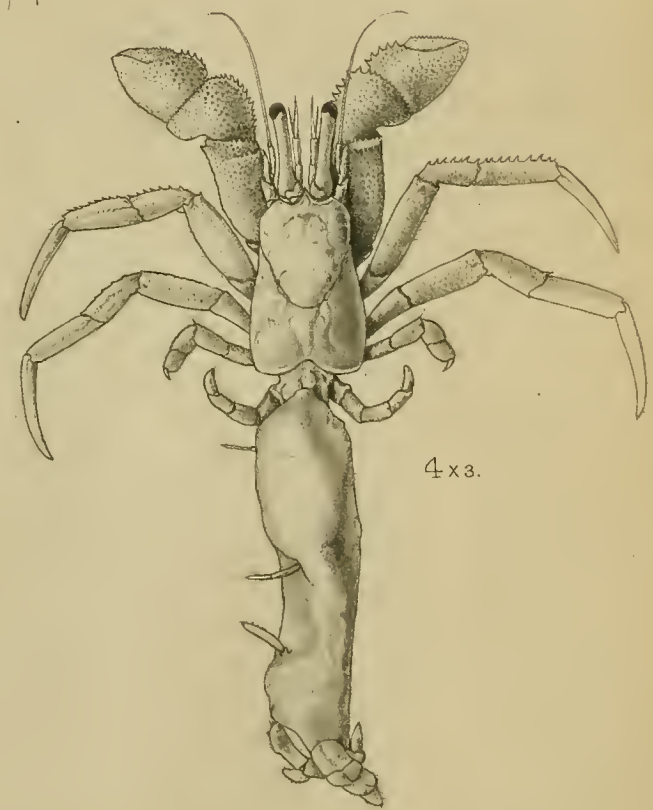
3a x 4.



3b x 4.



3c x 14.



4 x 3.

1. *Eupagurus pergranulatus*, Hend. x 3.
 3. *Catapagurus muricatus*, Hend. x 4 : 3c x 14.

2. *Pylopagurus magnimanus*, Hend. x 3/4.
 4. *Paguristes pusillus*, Hend. x 3 : 4a x 8.

EXPLANATION OF PLATE

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Fig. 4. - *Strophomena* *...* (Lower Devonian)

Fig. 5. - *Strophomena* *...* (Lower Devonian)
Fig. 6. - *Strophomena* *...* (Lower Devonian)

Fig. 7. - *Strophomena* *...* (Lower Devonian)
Fig. 8. - *Strophomena* *...* (Lower Devonian)

PLATE II

EXPLANATION OF PLATES.

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Fig. 4.—*Sympagurus monstrosus*,* Alcock, Annals and Magazine of Natural History, (6) XIII, March, 1894, p. 243: Henderson, Journal, Asiatic Society of Bengal, Vol. LXV. pt. 2, 1896, p. 533.

* (?) *Parapagurus monstrosus*.



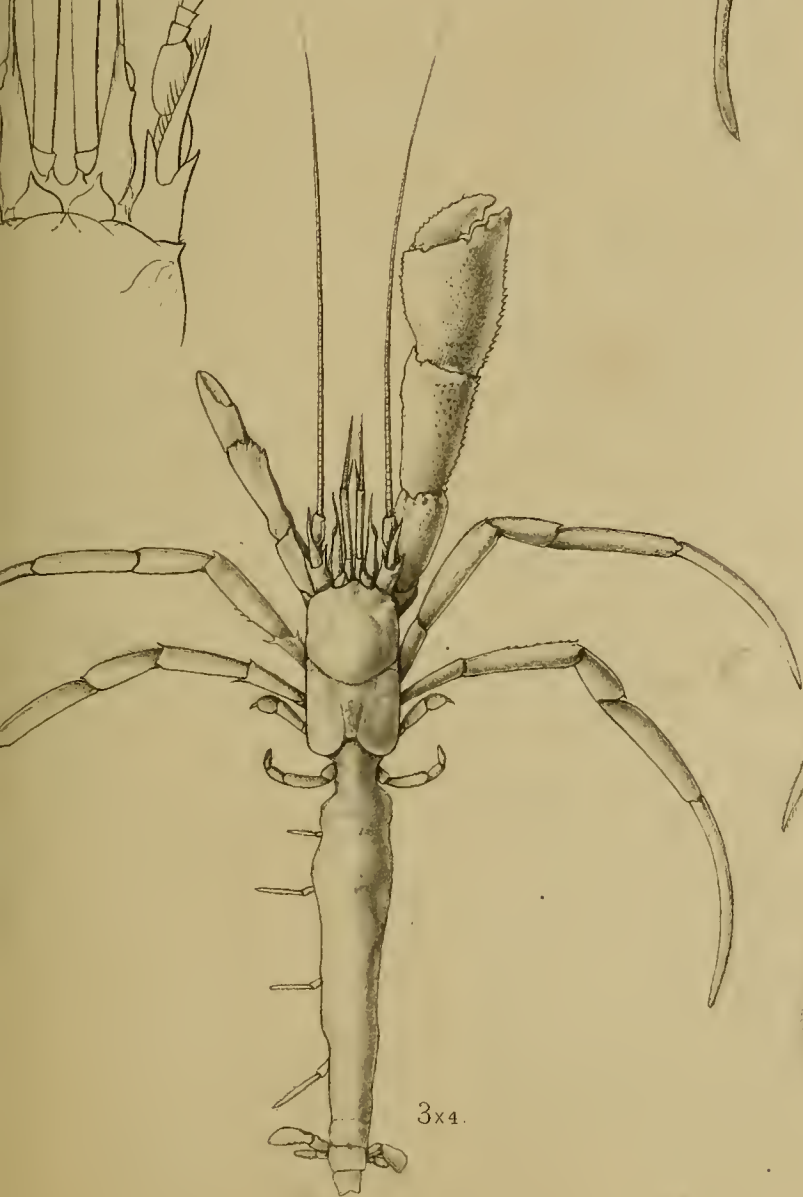
1x2.



3ax10



2x2.



3x4.



4x3.

1. *Paguristes puniceus*, Hend. x2.
 3. *Parapağurus minutus*, Hend. x4; 3ax10.

2. *Parapağurus andersoni*, Hend. x2.
 4. *Sympağurus monstrosus*, (Alc.) x3.

162370

ILLUSTRATIONS
OF THE
ZOOLOGY
OF THE
ROYAL INDIAN MARINE SURVEY SHIP
INVESTIGATOR,

UNDER THE COMMAND OF
COMMANDER T. H. HEMING, R.N.

FISHES.—Part V, Plates XVIII—XXIV.
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UNDER THE DIRECTION OF
A. ALCOCK, M. B., C.M.Z.S., SUPERINTENDENT OF THE INDIAN MUSEUM, FORMERLY
SURGEON-NATURALIST TO THE INDIAN MARINE SURVEY
AND OF
A. R. S. ANDERSON, B.A., M.B., SURGEON-NATURALIST TO THE INDIAN MARINE SURVEY.



Published under the Authority of Captain W. S. Goodridge, R.N.
Director of the Royal Indian Marine.

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1898.

EXPLANATION OF PLATE.

CRUSTACEA.

PLATE XXXIII.

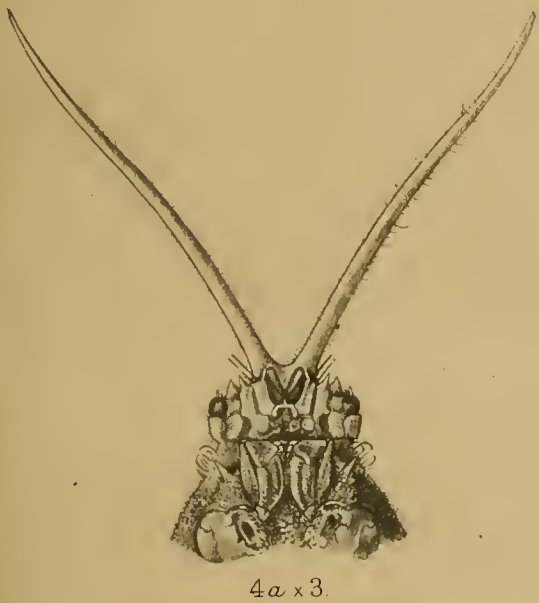
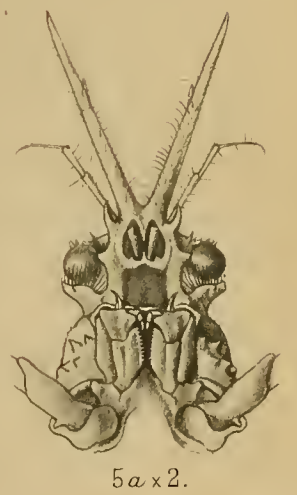
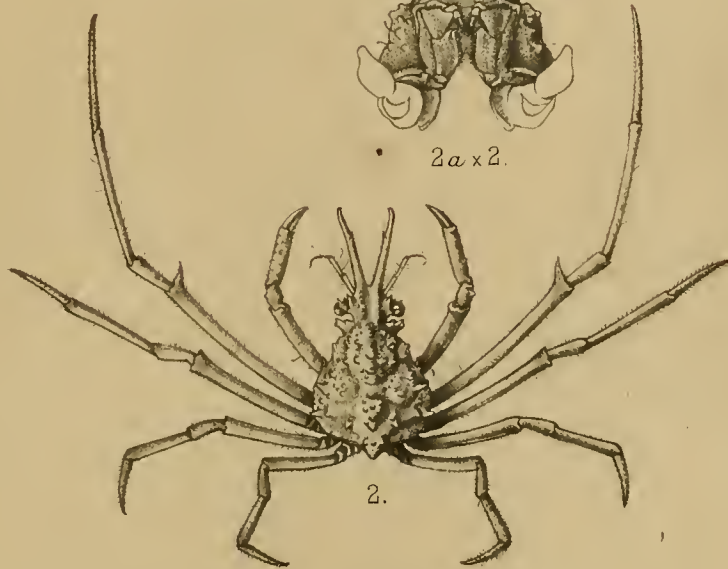
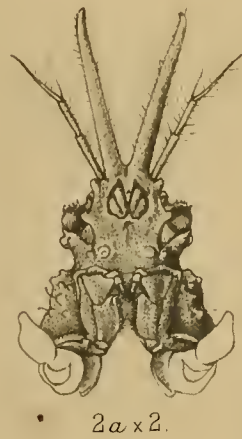
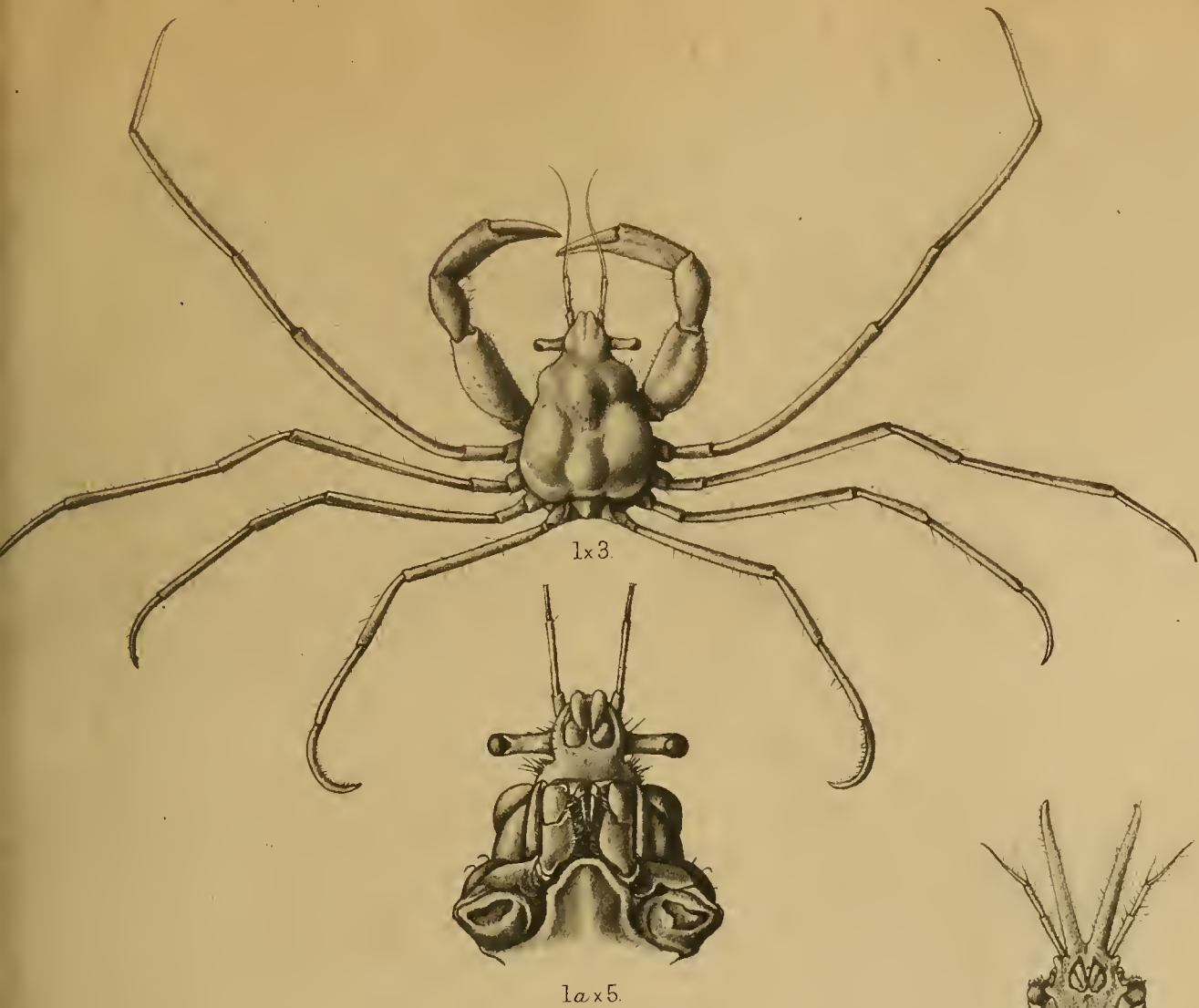
Figs. 1, 1a.—*Achaeus lacertosus*, Stimpson, Proc., Academy Natural Science, Philad. 1857, p. 218. [*Vide* Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV, pt. 2, 1895, p. 172, *Carcinological Fauna of India.*]

Figs. 2, 2a.—*Naxia cerastes*, Ortmann, in Semon's Forschun-
gsr. Austral. u. Malay. Arch., Crust. (Jena. Denk. Bd., VIII) p. 43.
[*Vide* Alcock, Carcinol. Faun. Ind. *loc. cit.*, p. 220.]

Figs. 3, 3a.—*Xenocarcinus tuberculatus*, White, Proc. Zool.
Soc. 1847, p. 119. [*Vide* Alcock, Carcinol. Faun. Ind. *loc. cit.*,
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Figs. 4, 4a.—*Hyastenus tenuicornis*, Pocock, Annals and
Magazine of Natural History, (6) V, 1890, p. 76. [*Vide* Alcock,
Carcinol. Faun. Ind. *loc. cit.*, p. 215.]

Figs. 5, 5a.—*Naxia taurus*, Pocock, Annals and Magazine
of Natural History, (6) V, 1890, p. 77. [*Vide* Alcock, Carcinol.
Faun. Ind. *loc. cit.*, p. 219.]



1, *Achaeus lacertosus*, St. ♂ 2, *Naxia cerastes*, Ortm. ♂ 3, *Xenocarcinus tuberculatus*, White. ♀
 4, *Hyastenus tenuicornis*, Poc. ♂ 5, *Naxia taurus*, Poc. ♂

EXPLANATION OF PLATE.

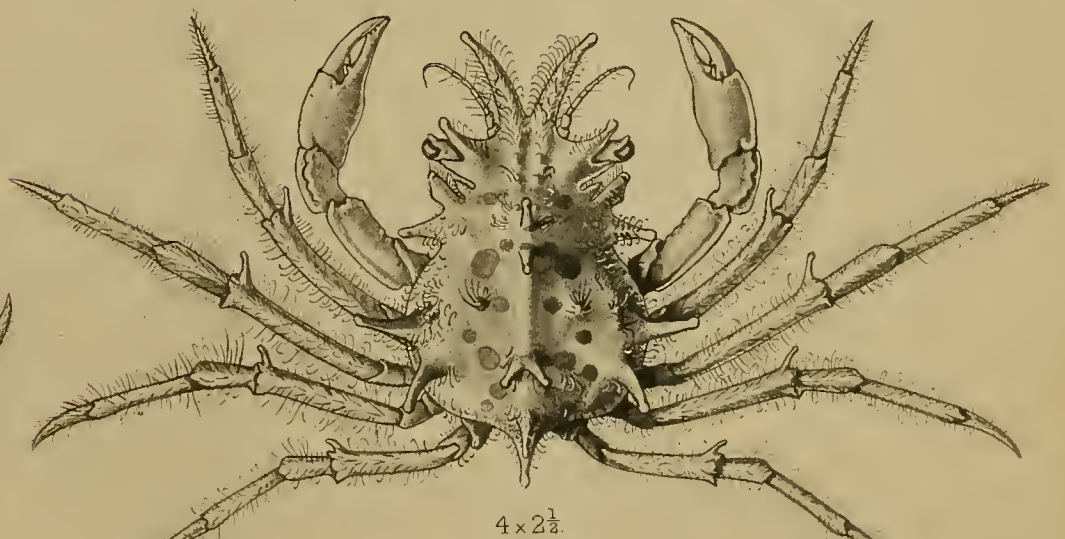
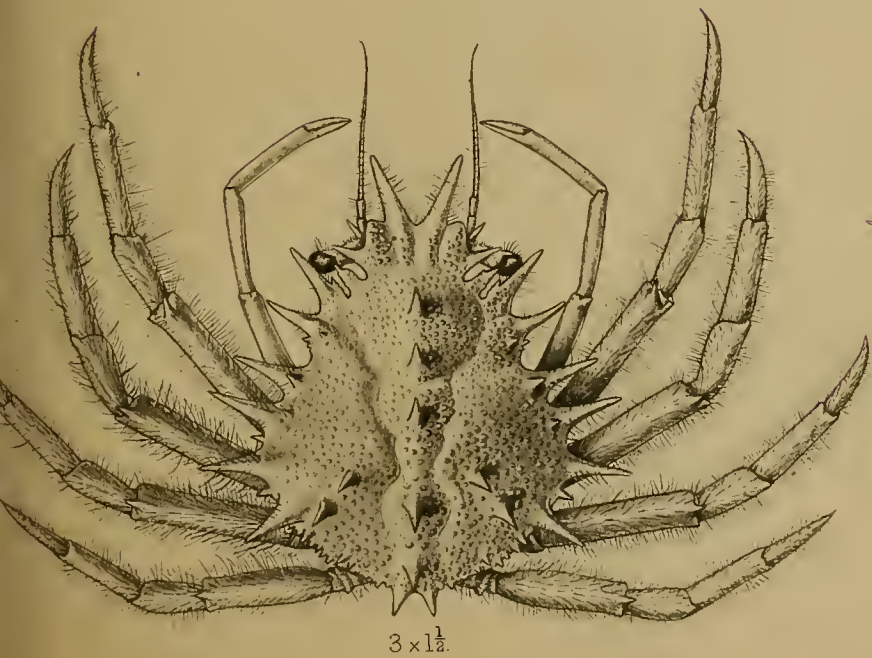
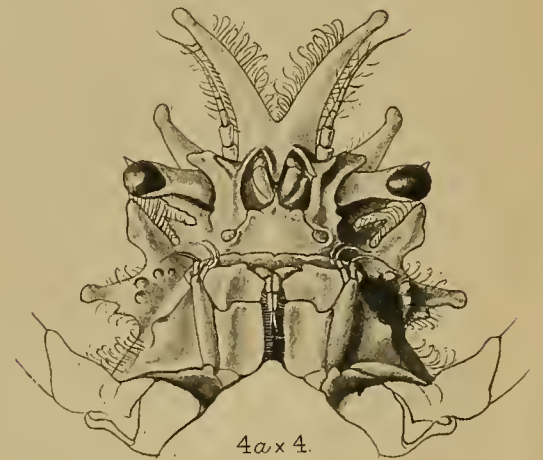
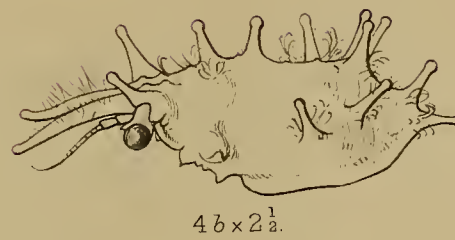
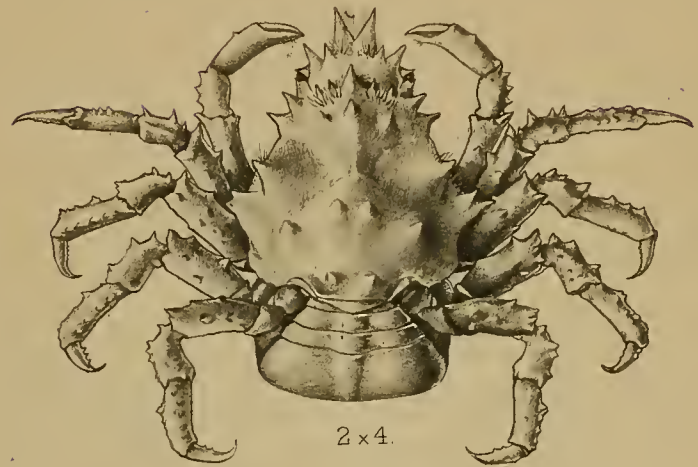
CRUSTACEA.

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Figs. 1, 1a ♂, 2, 2a ♀.—*Hoblophrys oatesii*, Henderson, Trans. Linn. Soc., Zool., (2) V, 1893, p. 347. [*Vide* Alcock, Carcinol. Faun. Ind., *loc. cit.*, p. 233.]

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1. *Hoplophrys oatesii*, Hendrsn. ♂. 2. *Hoplophrys oatesii*, Hendrsn. ♀.
 3. *Maia spinigera*, (De H.). 4. *Chlorinoides longispinus*, (De H.). ♂.

EXPLANATION OF PLATE.

—♦—
CRUSTACEA.
—♦—

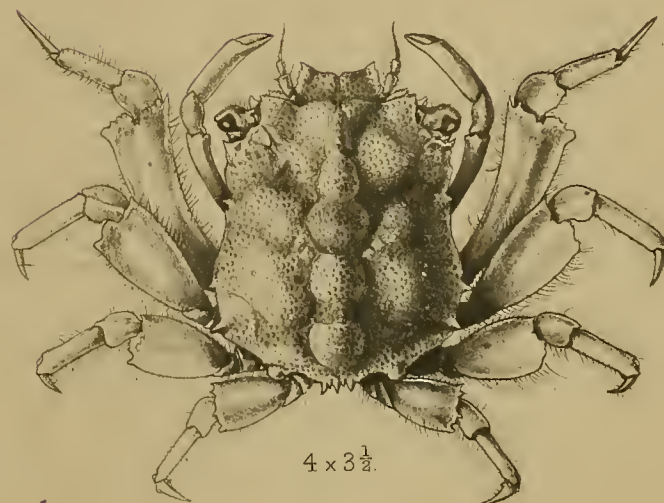
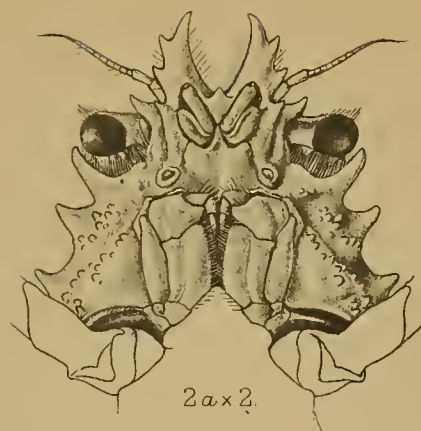
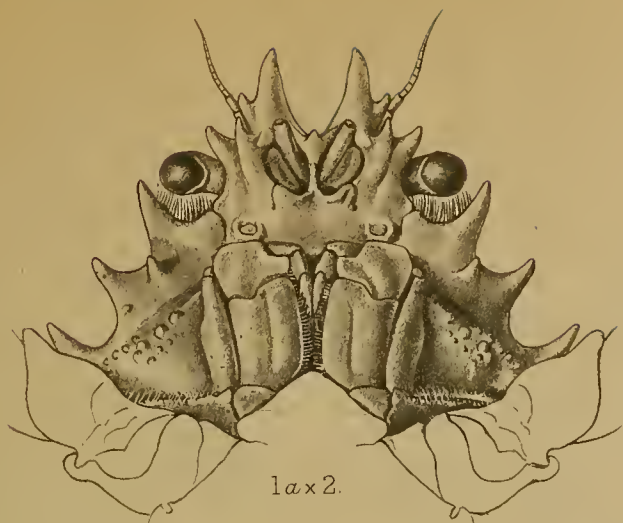
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Figs. 1, 1a.—*Schizophrys aspera*, Milne Edwards, Hist. Nat. Crust. I, 320. [*Vide* Alcock, Carcinol. Faun. Ind., *loc. cit.*, p. 243.]

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Figs. 3, 3a.—*Micippe margaritifera*, Henderson, Trans. Linn. Soc., Zool., (2) V, 1893, p. 348. [*Vide* Alcock, Carcinol. Faun. Ind., *loc. cit.*, p. 253.]

Figs. 4, 4a.—*Micippe margaritifera*, var. *parca*, Alcock, Carcinol. Faun. Ind., *loc. cit.*, p. 253.



1. *Schizophrys aspera*, Edw. ♂. 2. *Schizophrys dama*, Herbst. ♂. 3. *Micippe margaritifera*, Hend. ♂.
 4. *Micippe margaritifera*, Hend. Var. *parca*. ♀.

ILLUSTRATIONS
OF THE
ZOOLOGY
OF THE
ROYAL INDIAN MARINE SURVEY SHIP
INVESTIGATOR,

UNDER THE COMMAND OF
COMMANDER T. H. HEMING, R.N.

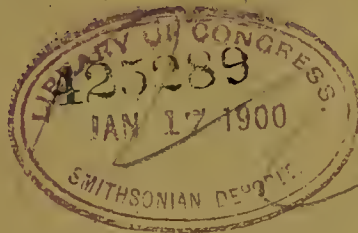
FISHES.—Part VI, Plates XXV—XXVI.
CRUSTACEA.—Part VII, Plates XXXVI—XLV.

UNDER THE DIRECTION OF
A. ALCOCK, M.B., C.M.Z.S, SUPERINTENDENT OF THE INDIAN MUSEUM, FORMERLY
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Published under the Authority of Captain W. S. Goodridge, R.N.,
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EXPLANATION OF PLATE.

CRUSTACEA.

PLATE XXXVI.

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Fig. 3.—*Lioxantho tumidus*, Alcock, *tom. cit.*, p. 91.

Fig. 4.—*Carpilodes pediger*, Alcock, *tom. cit.*, p. 83.

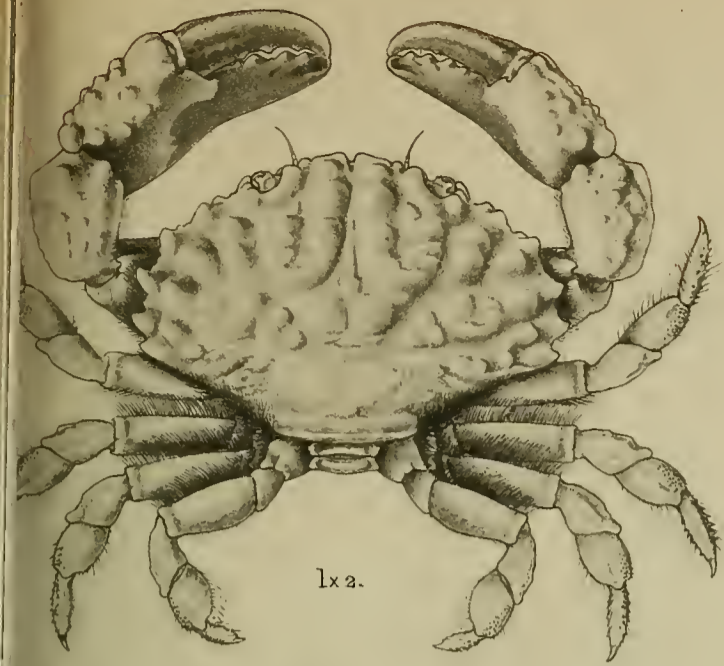
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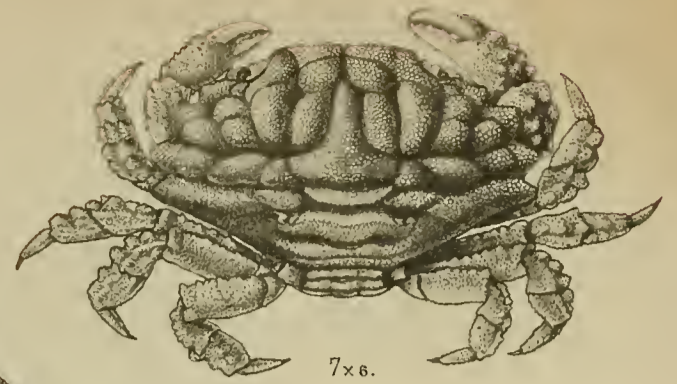
Fig. 7.—*Carpilodes cariosus*, Alcock, *tom. cit.*, p. 86.

Fig. 8.—*Orphnoxanthus microps*, Alcock, *tom. cit.*, p. 128.

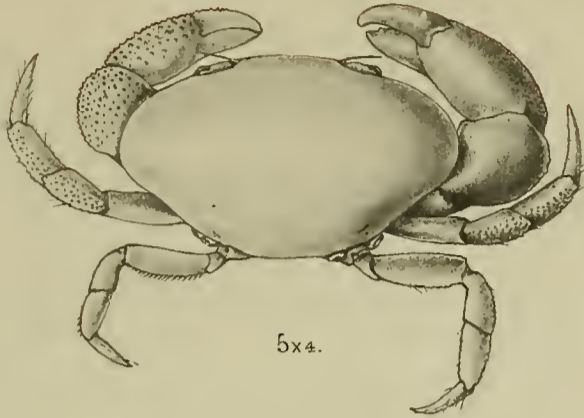
Fig. 9.—*Lioxantho asperatus*, Alcock, *tom. cit.*, p. 92.



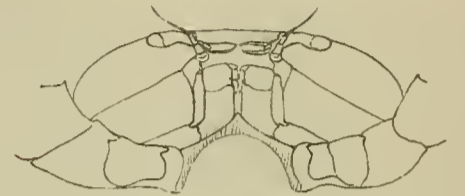
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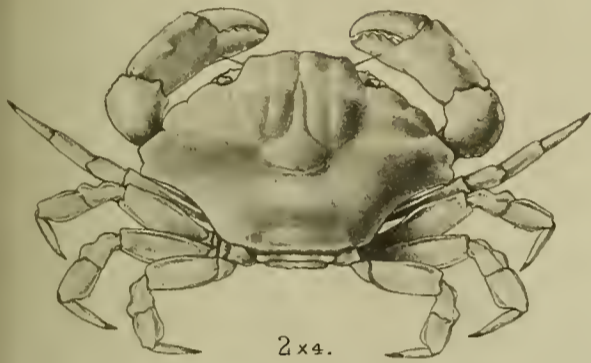
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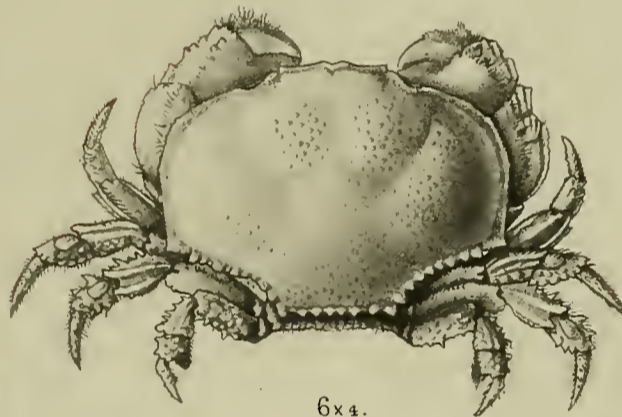
5x4.



5ax4.



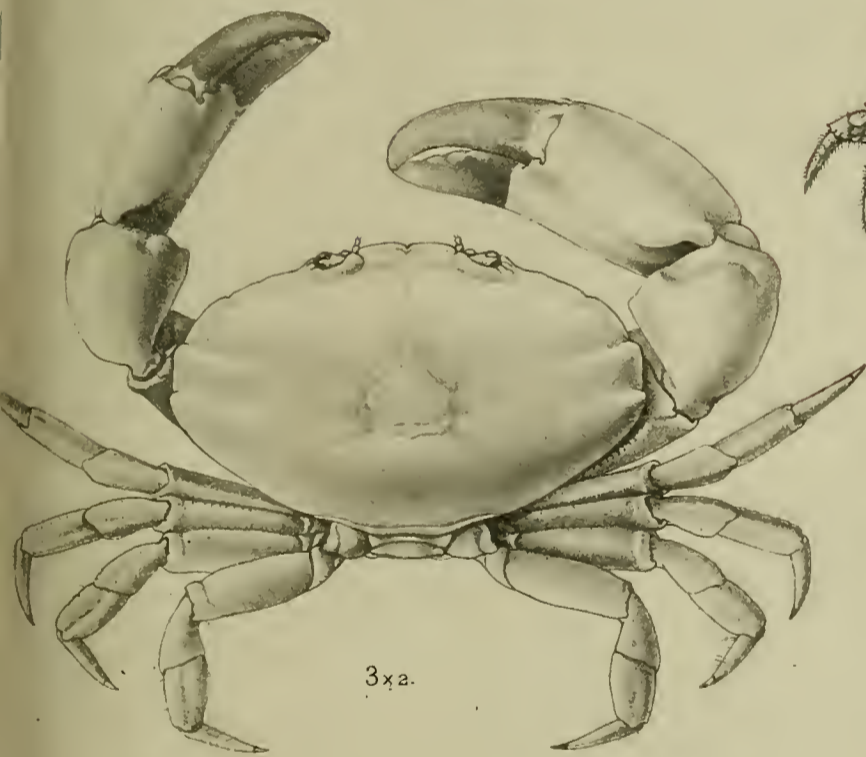
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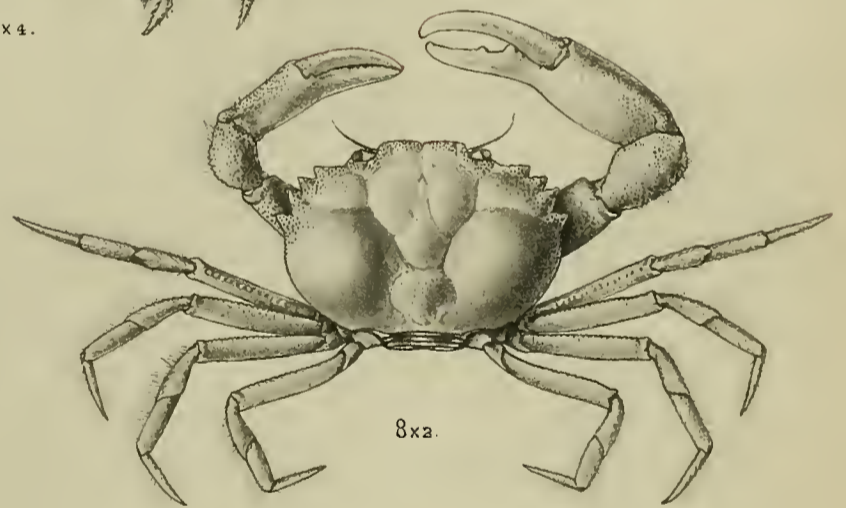
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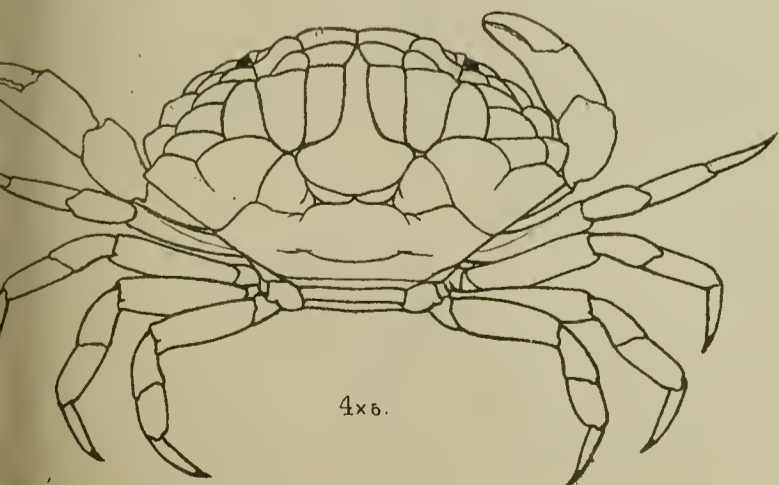
6ax5.



3x2.



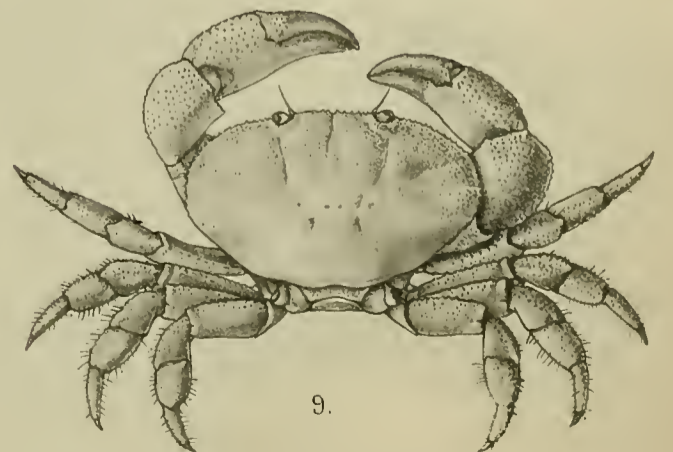
8x2.



4x6.



4ax4.5.



9.

1. *Leptodius euglyptus*, A.A. ♂. 2. *Carpilodes lophopus*, A.A. ♀. 3. *Lioxantho tumidus*, A.A. ♂. 4. *Carpilodes pediger*, ♀. A.A. 5. *Liomera sodalis*, A.A. ♀. 6. *Lophactæa corallina*, A.A. ♀. 7. *Carpilodes cariosus*, A.A. ♀. 8. *Orphnoxanthus microps*, A.A. ♂. 9. *Lioxantho. asperatus*, Alc. ♂.

EXPLANATION OF PLATE.

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Fig. 3.—*Actæa echinus*, Alcock, *tom. cit.*, p. 149.

Fig. 4.—*Actæa flosculata*, Alcock, *tom. cit.*, p. 151.

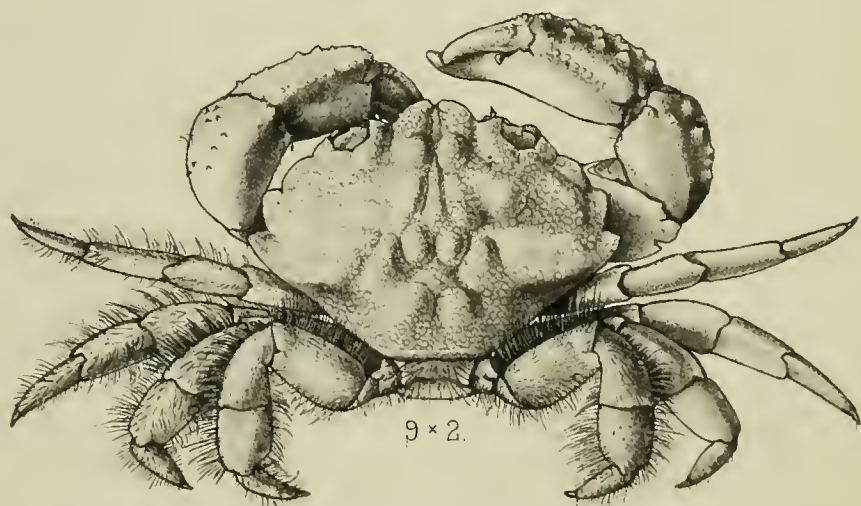
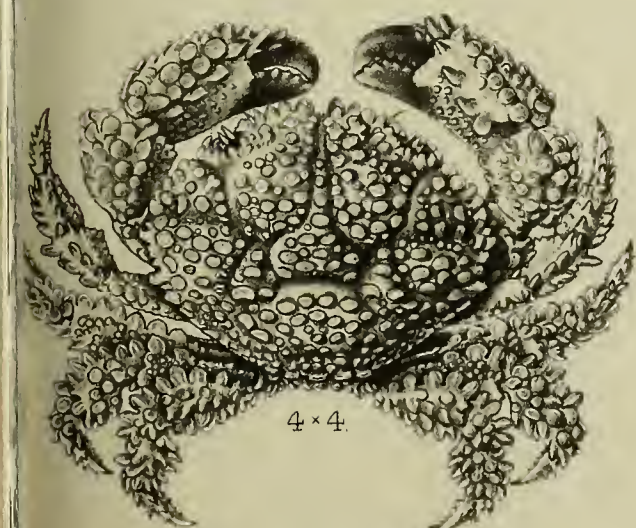
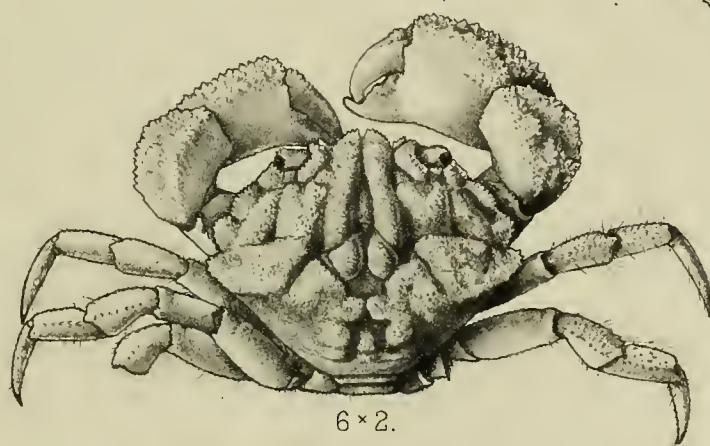
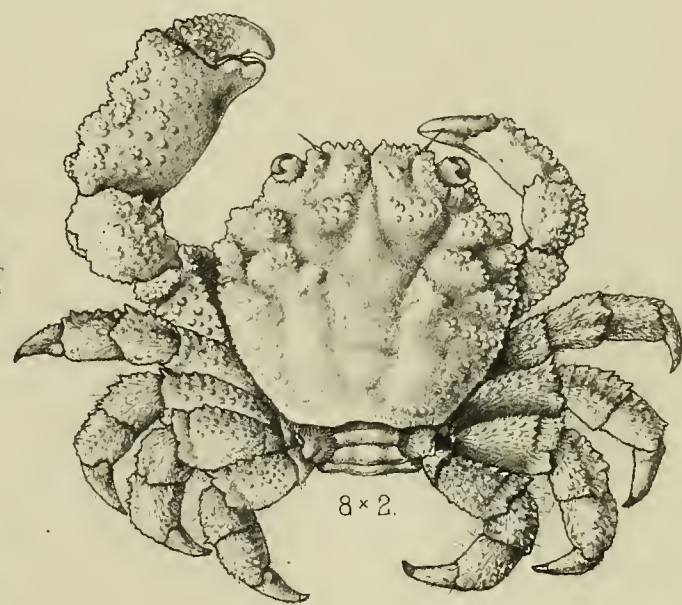
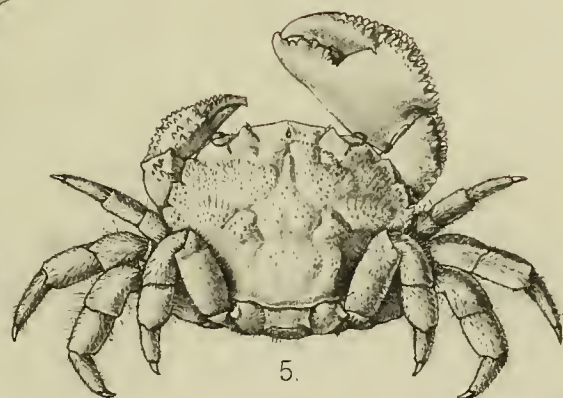
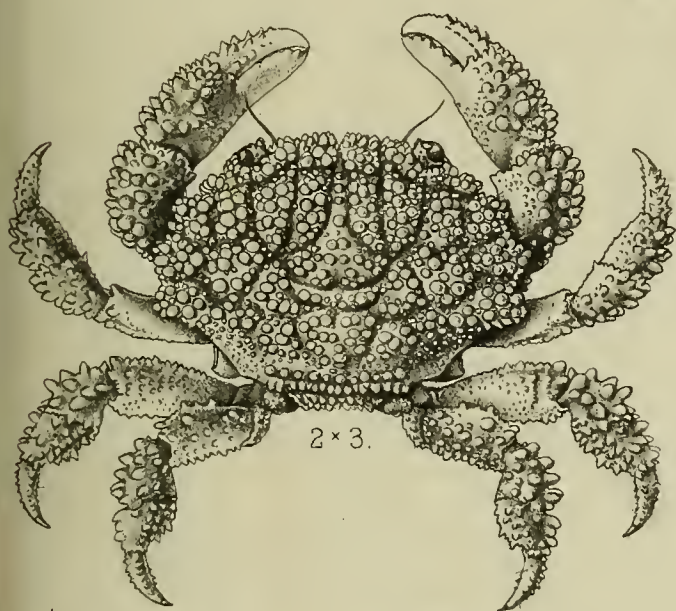
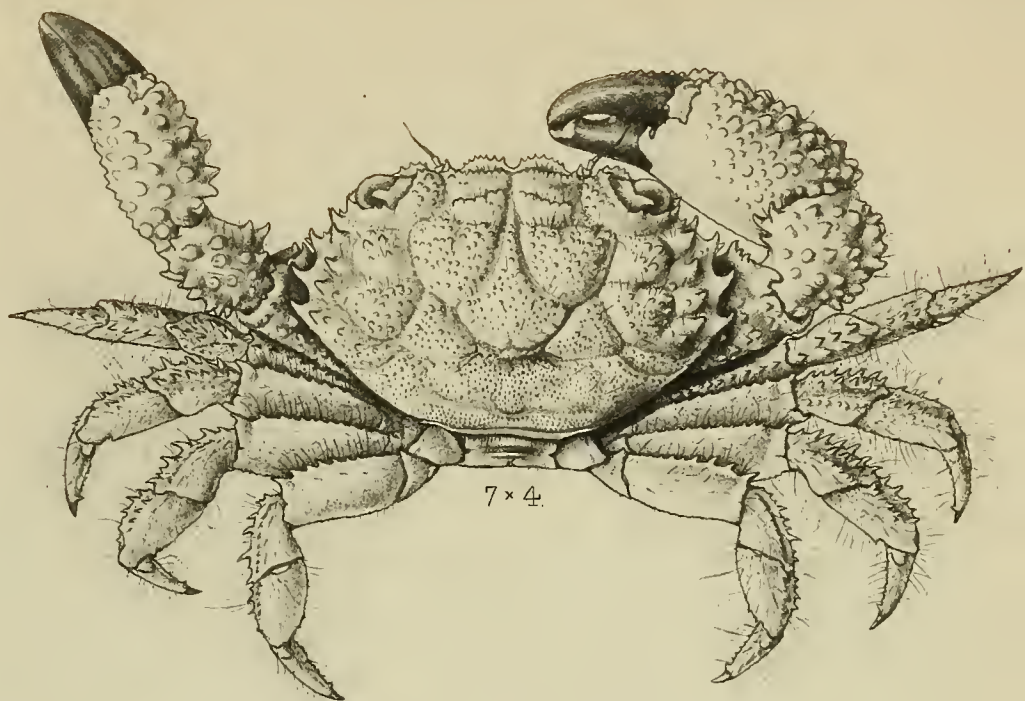
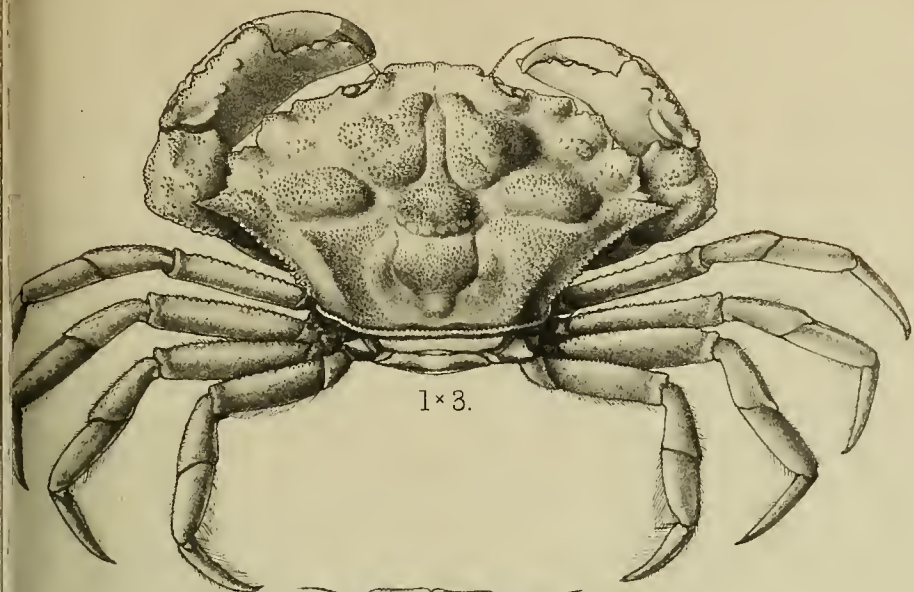
Fig. 5.—*Actumnus fissifrons*, Alcock, *tom. cit.*, p. 204.

Fig. 6.—*Actumnus arbutum*, Alcock, *tom. cit.*, p. 205.

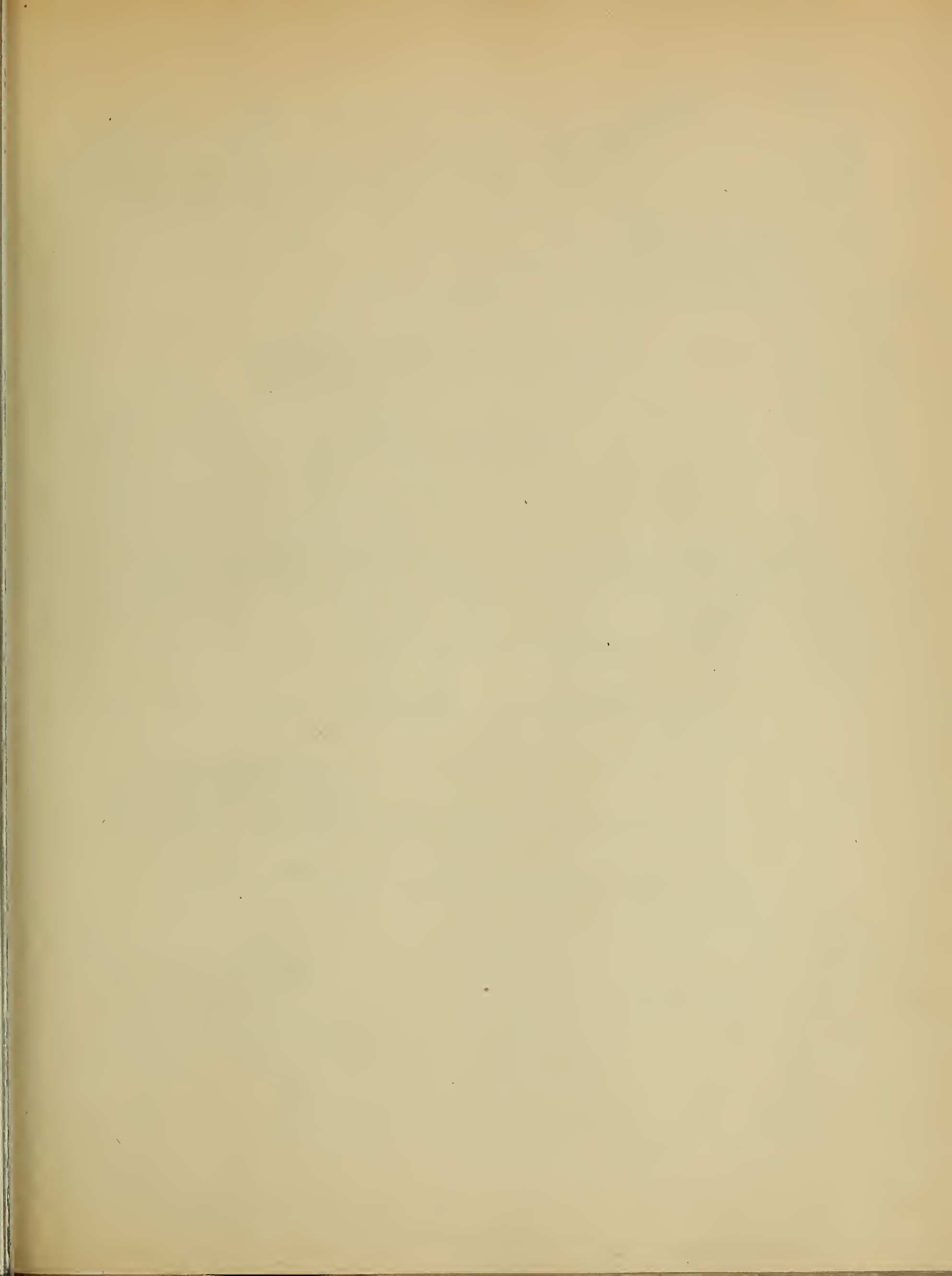
Fig. 7.—*Chlorodopsis Wood-Masoni*, Alcock, *tom. cit.*, p. 170.

Fig. 8.—*Cymo quadrilobatus*, Miers, Zoology of H. M. S. "Alert," p. 533: Alcock, *tom. cit.*, p. 175.

Fig. 9.—*Actumnus tessellatus*, Alcock, *tom. cit.*, p. 205.



1. *Hoploxanthus hextii*, ♀ A.A. 2. *Actaea nodulosa* var. *bullifera*, ♂ A.A. 3. *Actaea echinus*, ♂ A.A.
 4. *Actaea flosculata*, A.A. ♂ 5. *Actumnus fissifrons*, A.A. ♀ 6. *Actumnus arbutum*, Alc. ♂
 7. *Chlorodopsis wood-masoni*, A.A. 8. *Cymo quadrilobatus*, ♀ Miers. 9. *Actumnus tessellatus*, A.A. ♂



EXPLANATION OF PLATE.

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CRUSTACEA.
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PLATE XXXVIII.

Fig. 1.—*Quadrella boopsis*, Alcock, Journal, Asiatic Society of Bengal, Vol. LXVII, pt. 2, 1898, p. 227.

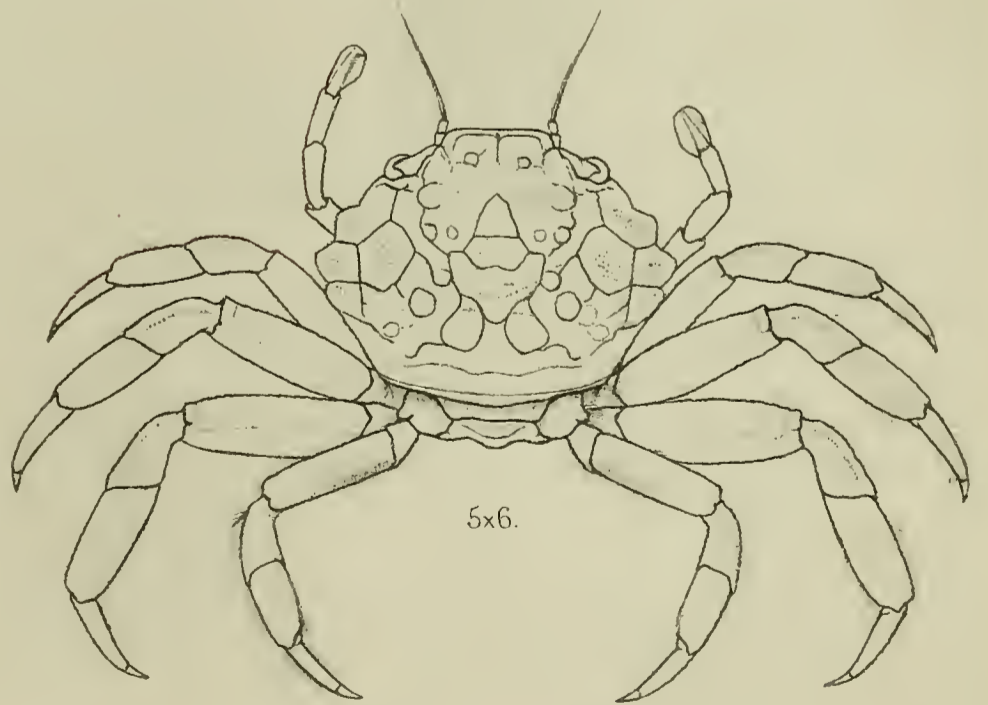
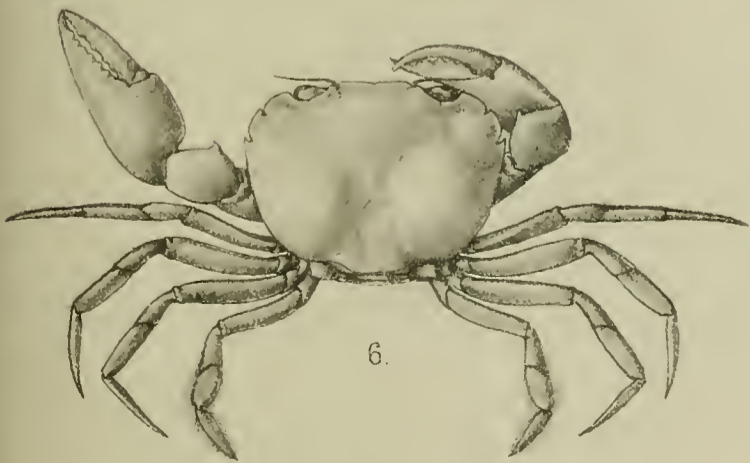
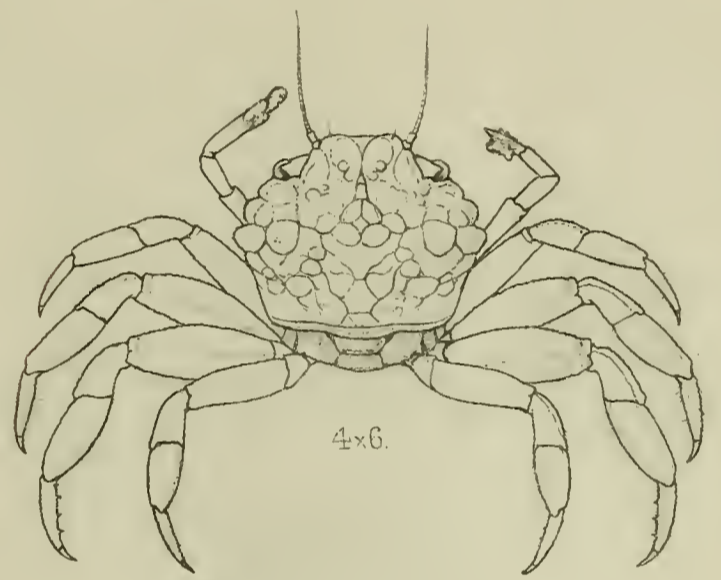
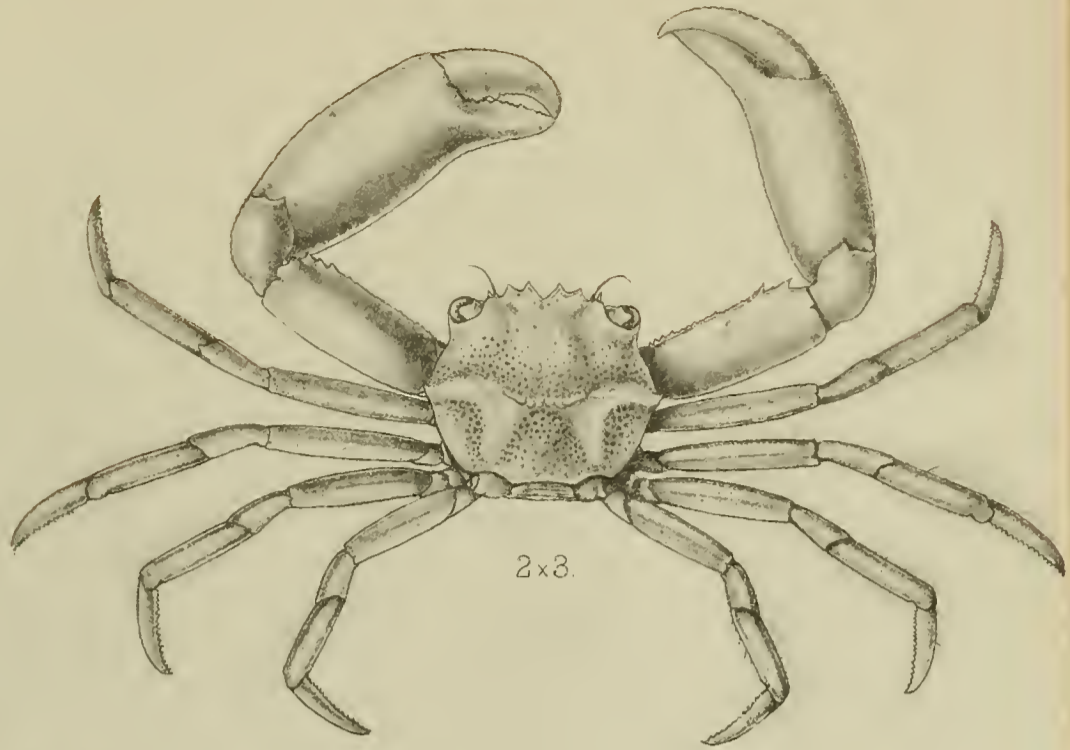
Fig. 2.—*Quadrella coronata*, var. *maculosa*, Alcock, *tom. cit.*, p. 226.

Fig. 3.—*Baptozius vinosus*, Milne Edwards, Histoire Naturelle des Crustacés, I., p. 422: Alcock, *tom. cit.*, p. 189.

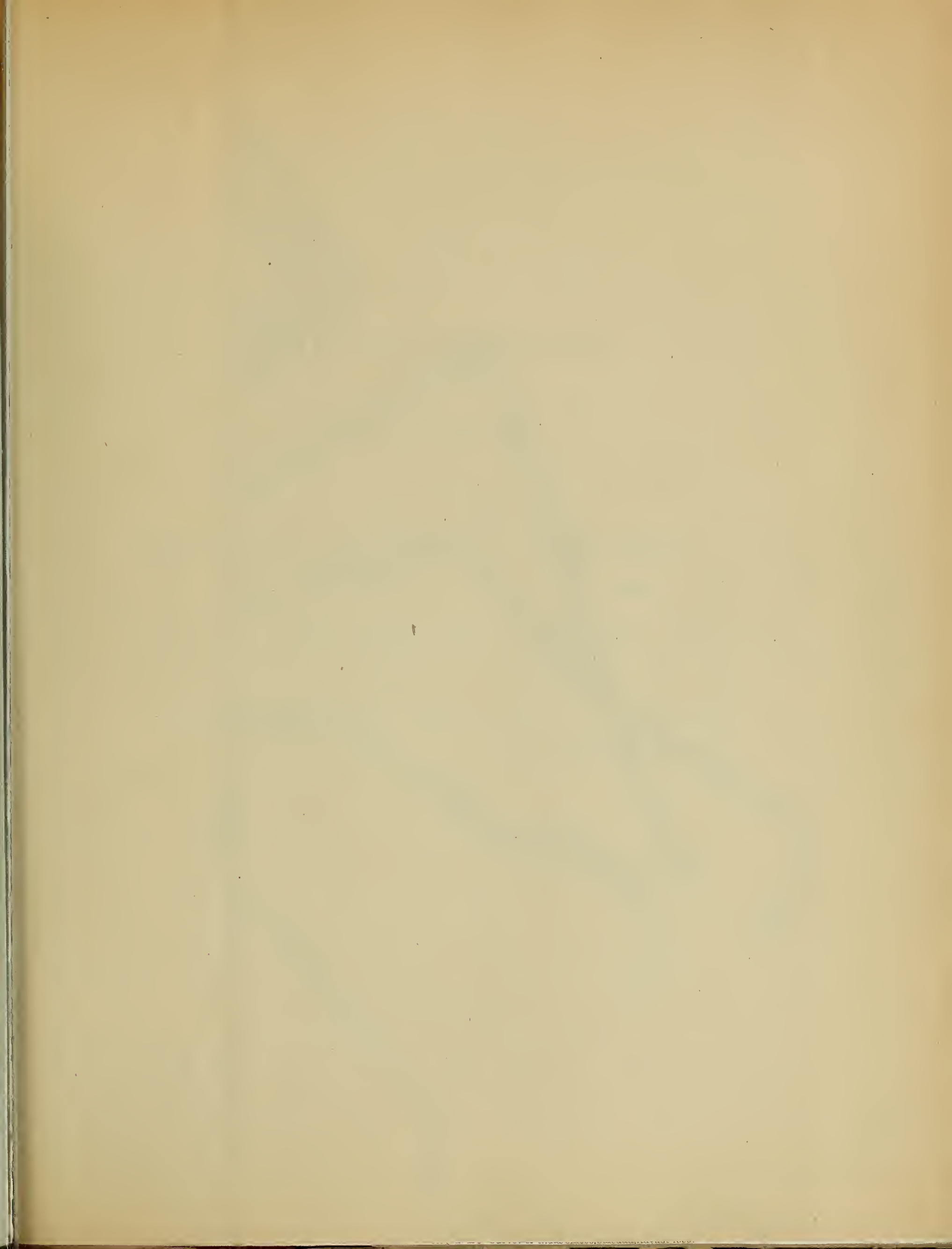
Fig. 4.—*Melia cæstifer*, Alcock, *tom. cit.*, p. 231.

Fig. 5.—*Melia pugil*, Alcock, *tom. cit.*, p. 231.

Fig. 6.—*Nectepanope rhodobaphes*, Wood-Mason, Annals and Magazine of Natural History, March 1891, p. 261: Alcock, *tom. cit.*, p. 213.



1. *Quadrella boopsis*, ♀ A. A. 2. *Quadrella coronata* var. *maculosa*, ♂ A. A. 3. *Baptozius vinosus*, Edw. ♀
 4. *Melia cæstifer*, A. A. ♂ 5. *Melia puñil*, A. A. ♀ 6. *Nectopanope rhodobaphes*, W. M. ♀

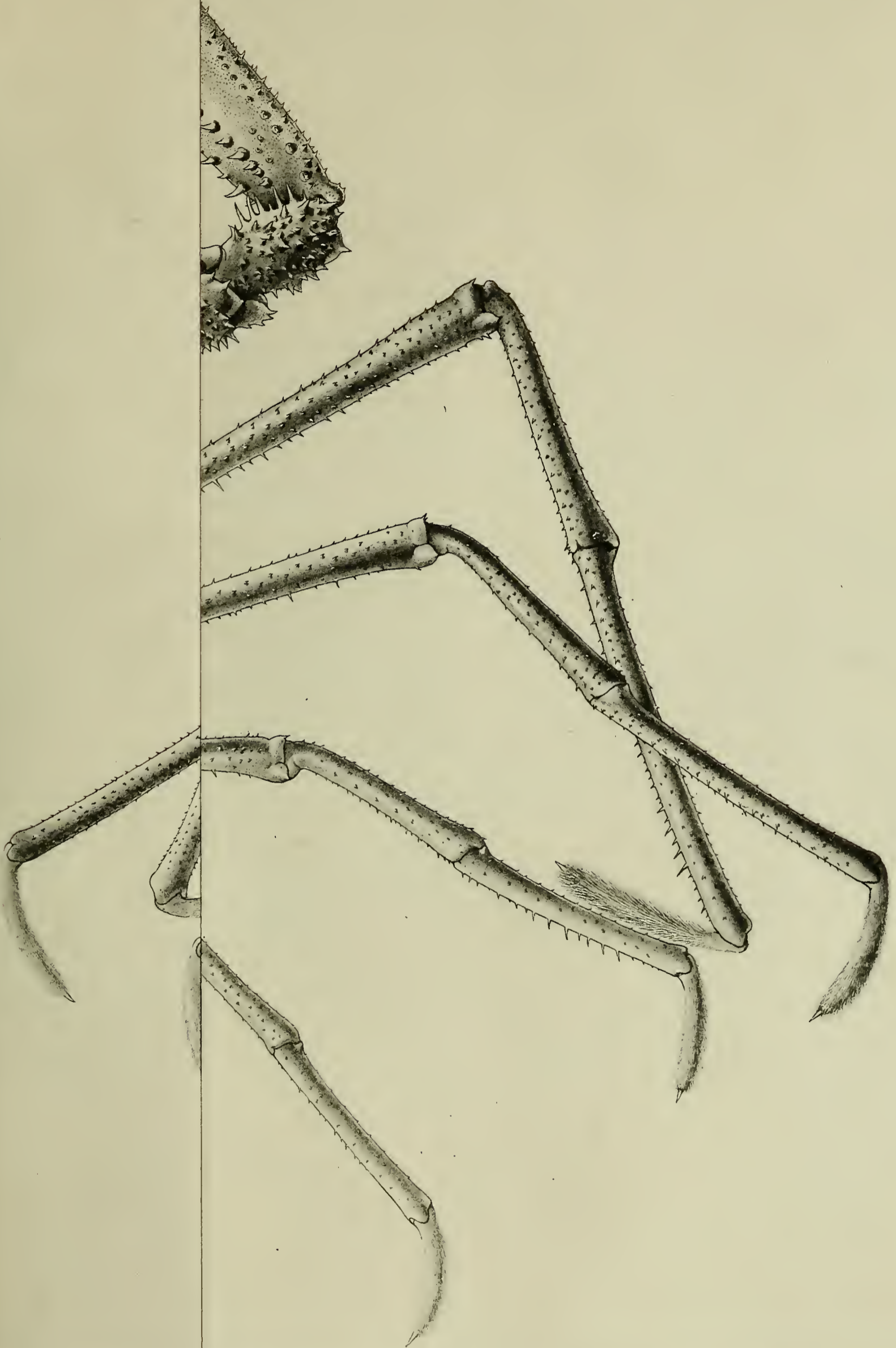


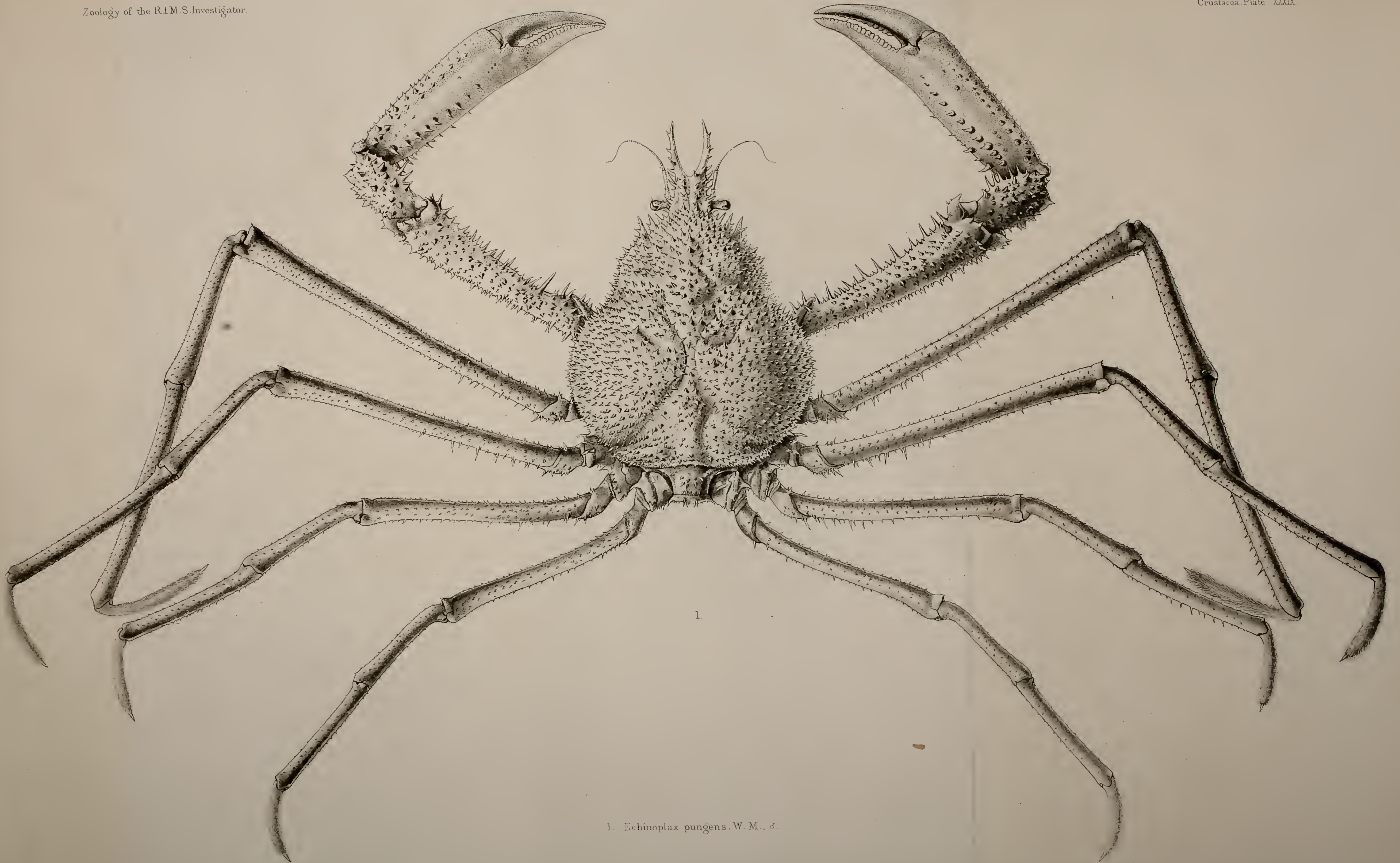
EXPLANATION OF PLATE.

—♦—
CRUSTACEA.
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PLATE XXXIX.

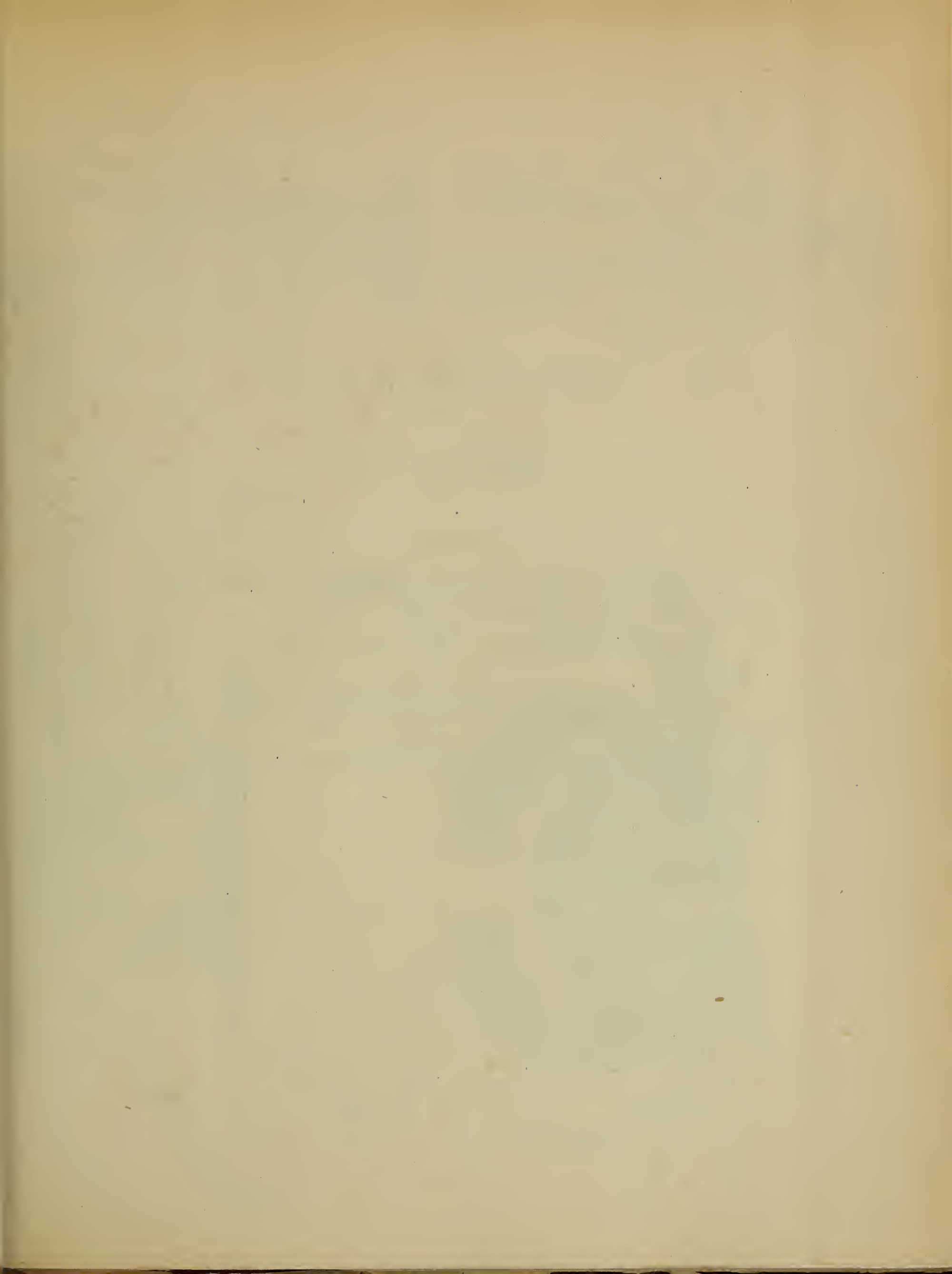
Echinoplax pungens, Wood-Mason. Male, natural size. Wood-Mason, Annals and Magazine of Natural History, March 1891, p. 259. Alcock, Journal, Asiatic Society of Bengal, Vol. LXIV, pt. 2, 1895, p. 179: Illustrations of the Zoology of the Investigator, Crustacea, plate xvii, fig. 1 (adult female): and "Investigator" Deep Sea Brachyura, p. 43.





1.

1. *Echinoplax pungens*. W. M., ♂.



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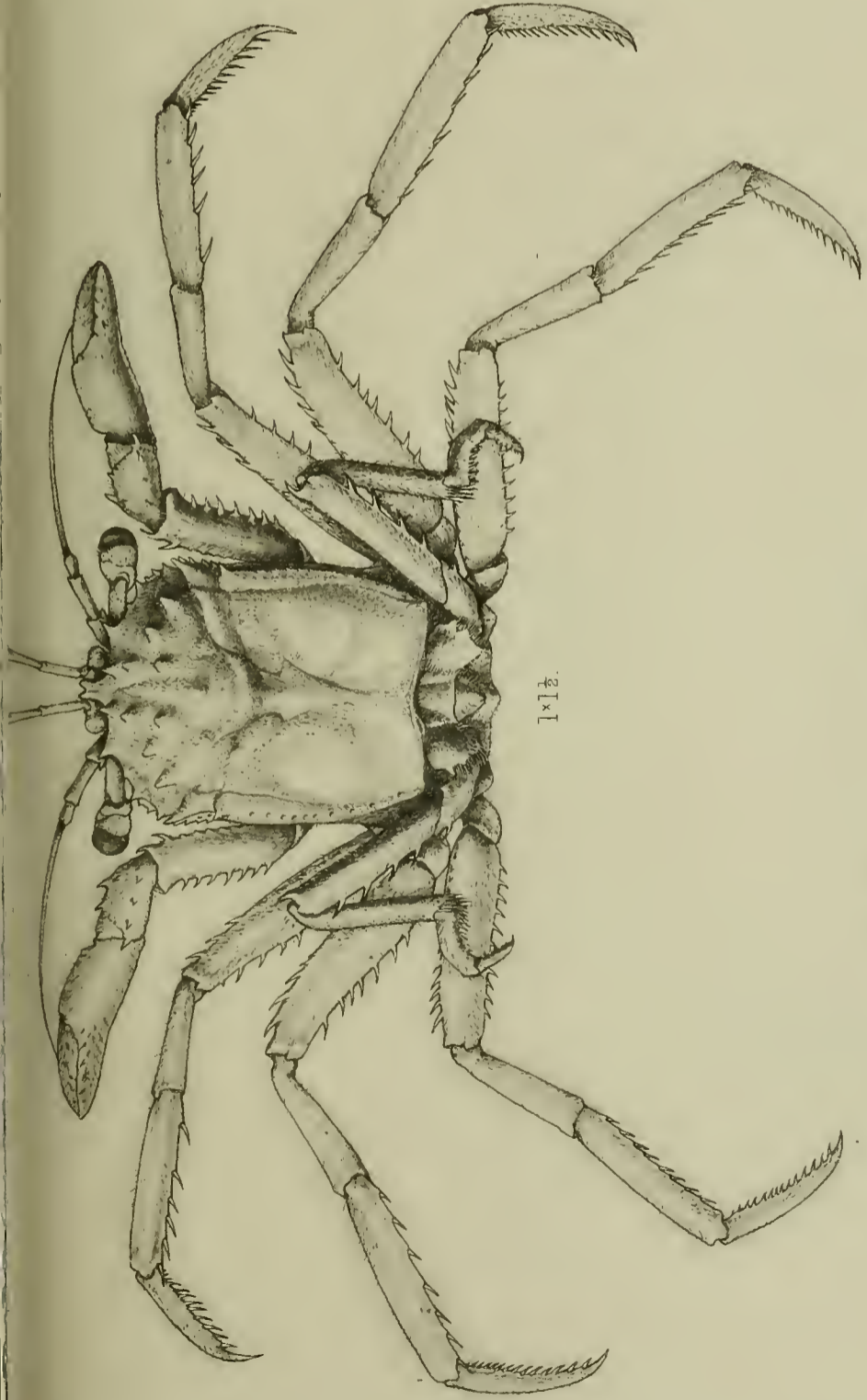
PLATE XL.

Fig. 1.—*Homola andamanica*, Alcock, An Account of the Investigator Deep Sea Brachyura, p. 7.

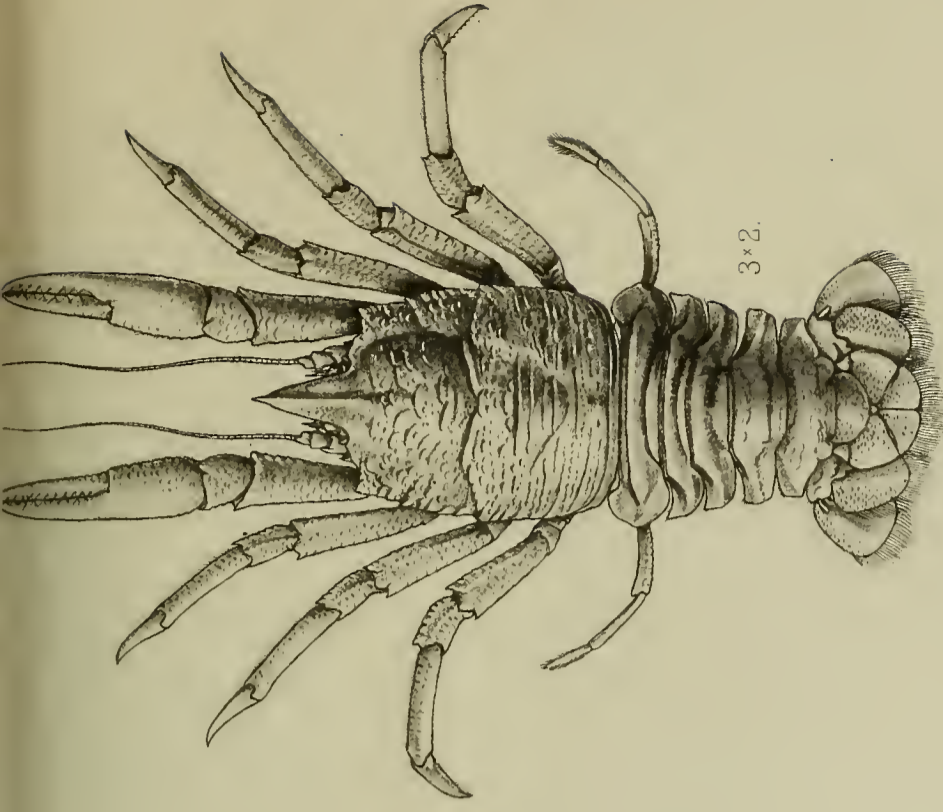
Fig. 2.—*Mursia aspera*, Alcock, *op. cit.*, p. 24.

Fig. 3.—*Munidopsis Moresbyi*, Alcock and Anderson, Annals and Magazine of Natural History, January, 1899, p. 22.

Fig. 4.—*Munidopsis rosacea*, A. Milne Edwards: Alcock and Anderson, *tom. cit.*, p. 19.



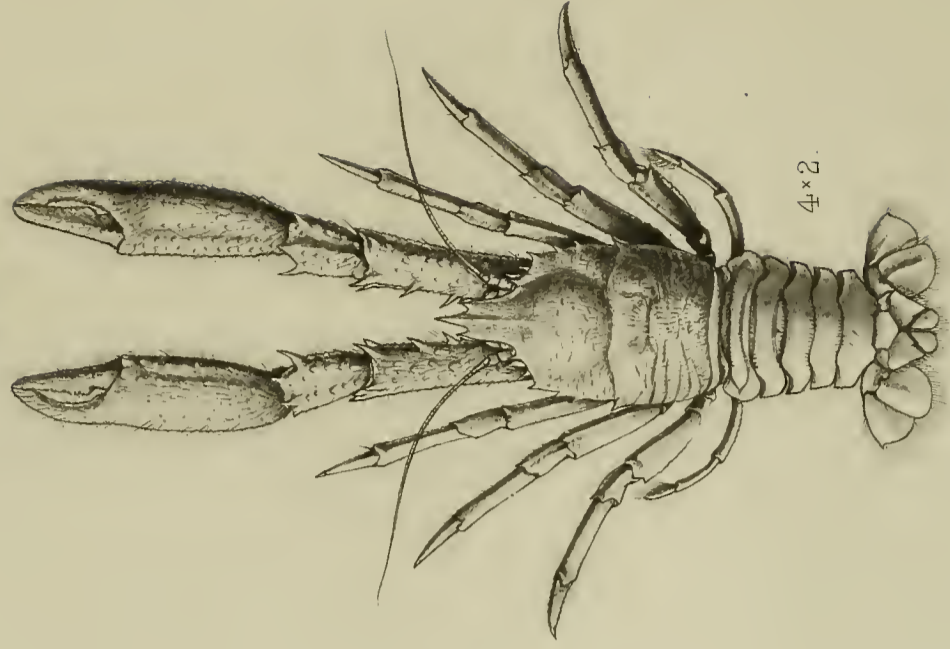
1 1/2 x



3 x 2



2



4 x 2

1. *Homola andamanica*. 2. *Mursia aspera*. 3. *Munidopsis moresbyi*. 4. *Munidopsis rosacea*.

EXPLANATION OF PLATE.

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PLATE XLI.

Figs. 1, 1a, 1b.—*Parapeneus investigatoris*, Anderson, Annals and Magazine of Natural History, April 1899, p. 279.

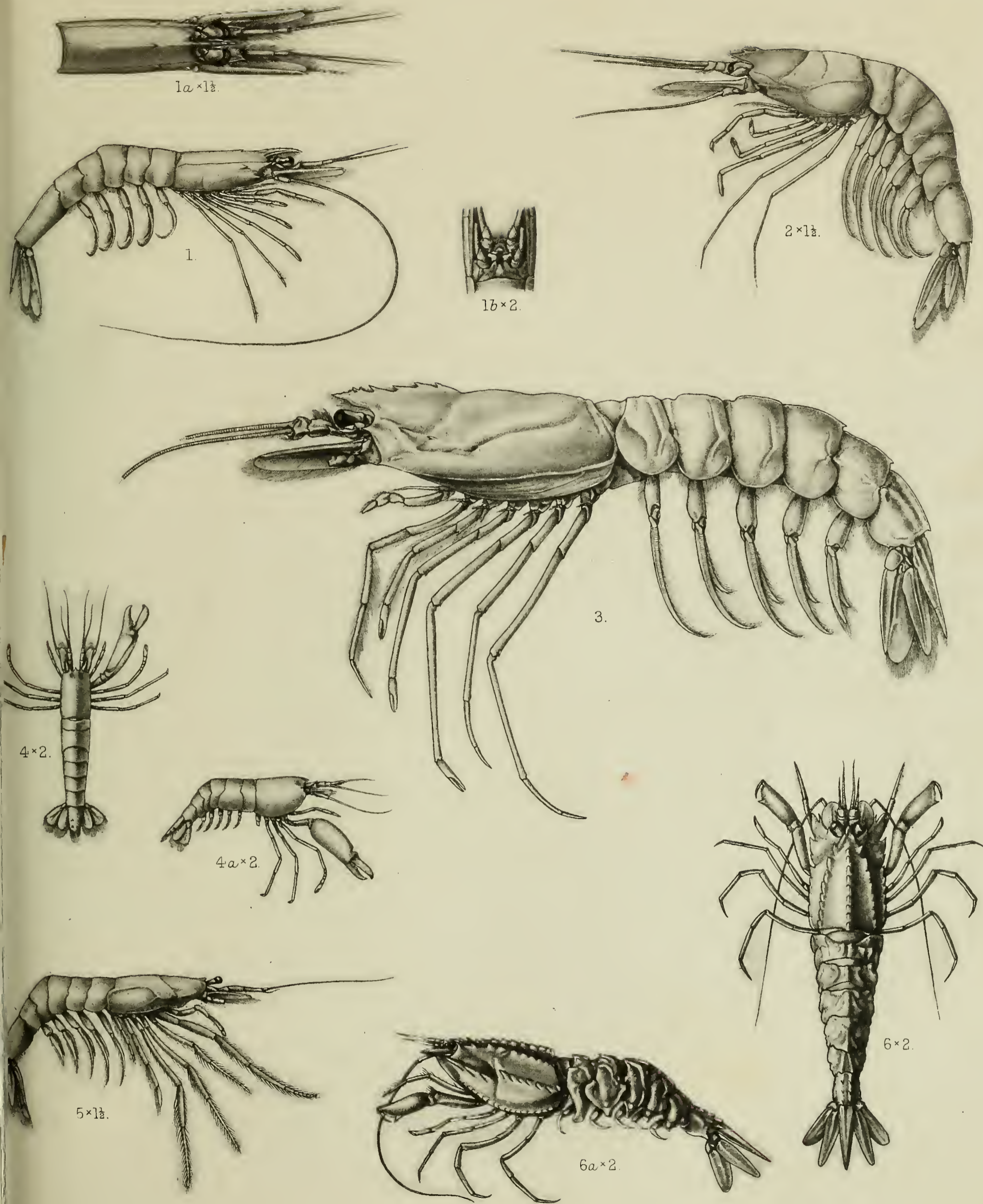
Fig. 2.—*Benthesicymus investigatoris*, Anderson, *tom. cit.*, p. 282.

Fig. 3.—*Haliporus taprobanensis*, Anderson, *tom. cit.*, p. 280.

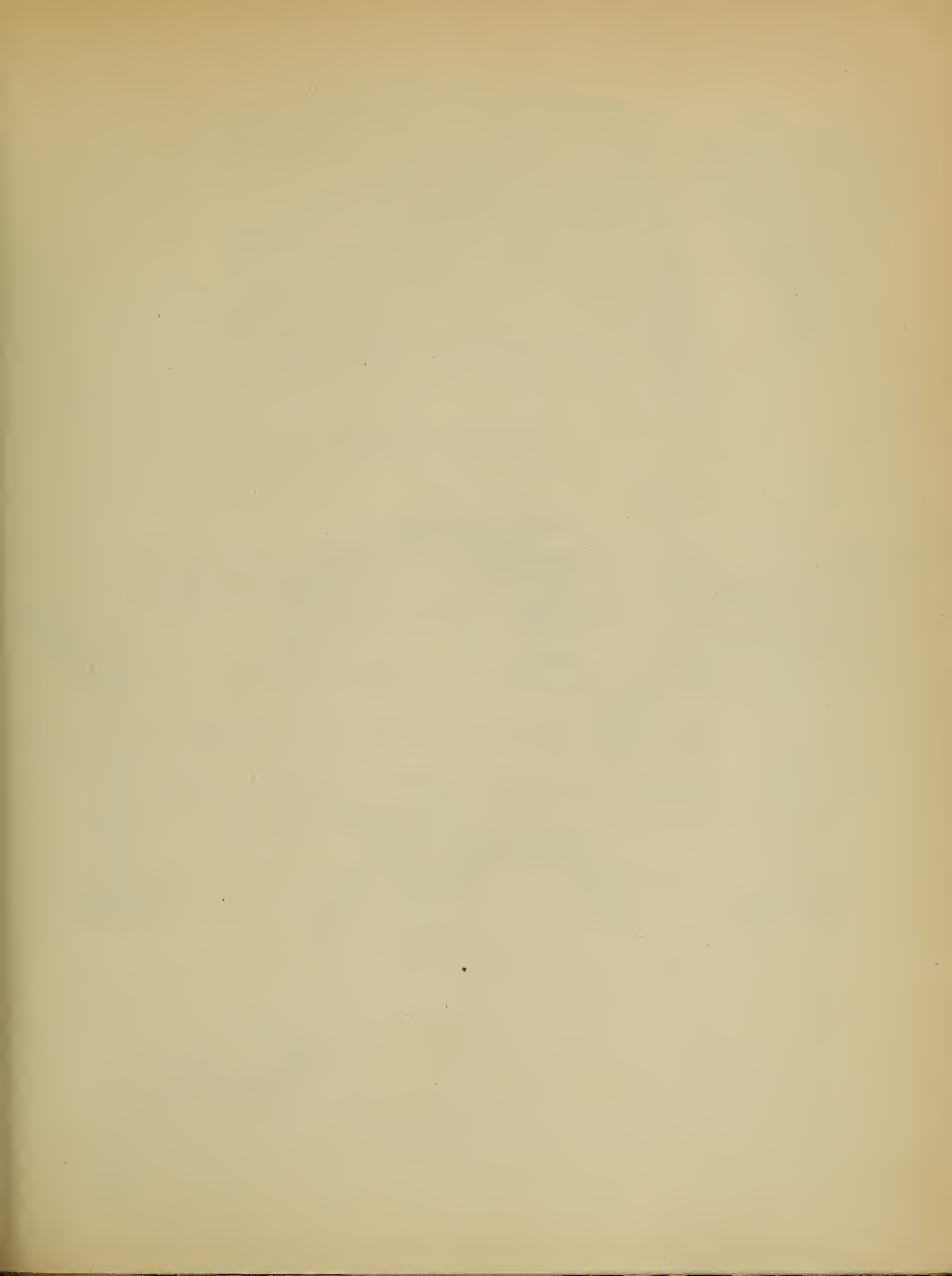
Figs. 4, 4a.—*Alpheus Shearmeri*, Anderson, *tom. cit.*, p. 283.

Fig. 5.—*Sergestes rubroguttatus*, Wood-Mason, Annals and Magazine of Natural History, November, 1891, p. 354.

Figs. 6, 6a.—*Pontocaris media*, Alcock, Annals and Magazine of Natural History, April, 1899, p. 282.



1. *Parapeneus investigatoris*. 2. *Benthescymus investigatoris*. 3. *Haliporus taprobanensis*.
 4. *Alpheus shearmeii*. 5. *Sergestes rubroguttatus*. 6. *Pantocaris media*.



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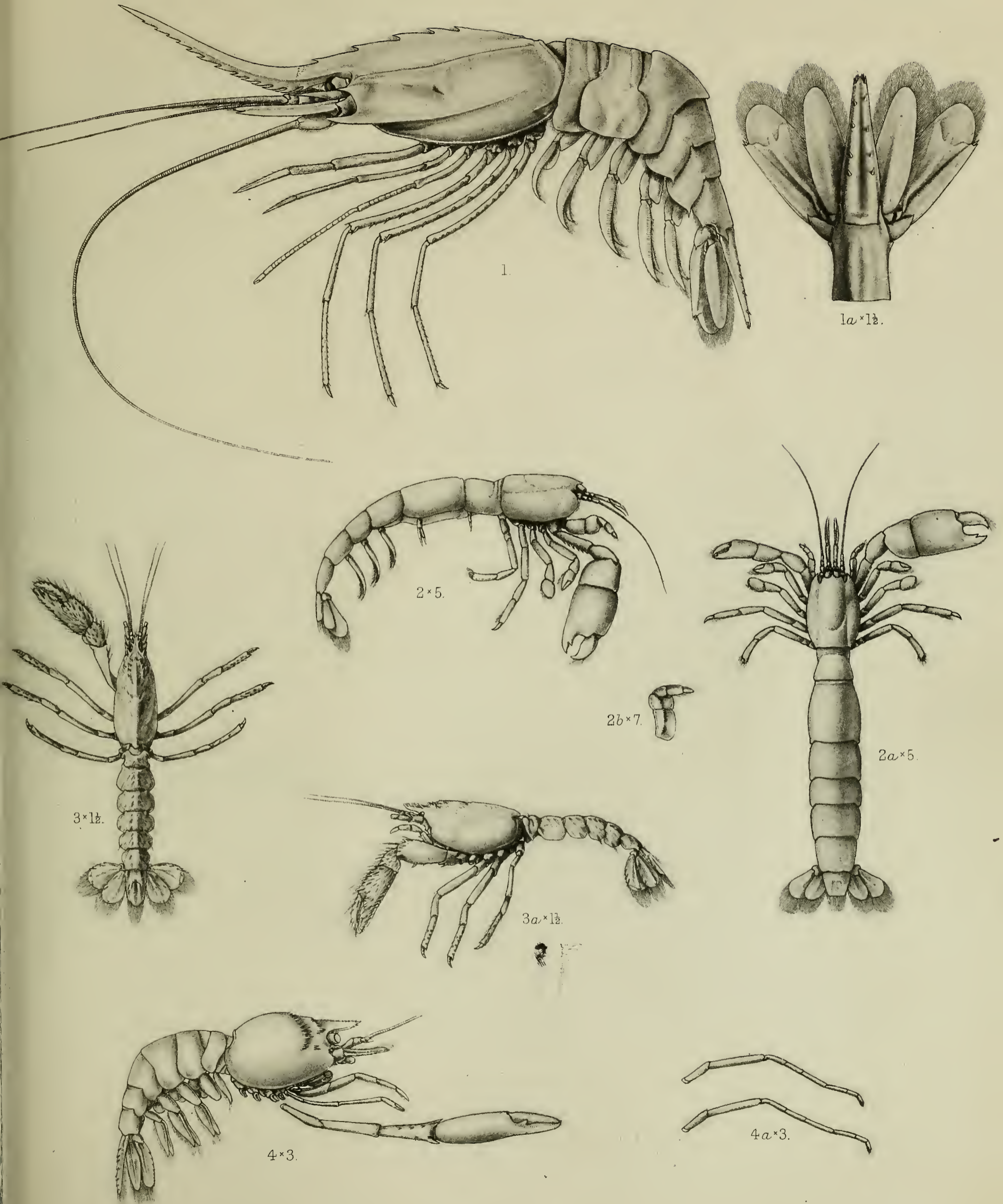
PLATE XLII.

Figs. 1, 1a.—*Heterocarpus laevigatus*, Spence Bate, Challenger Macrurous Crustacea, p. 636, pl. cxii., fig. 3: Anderson, Annals and Magazine of Natural History, April 1899, p. 285.

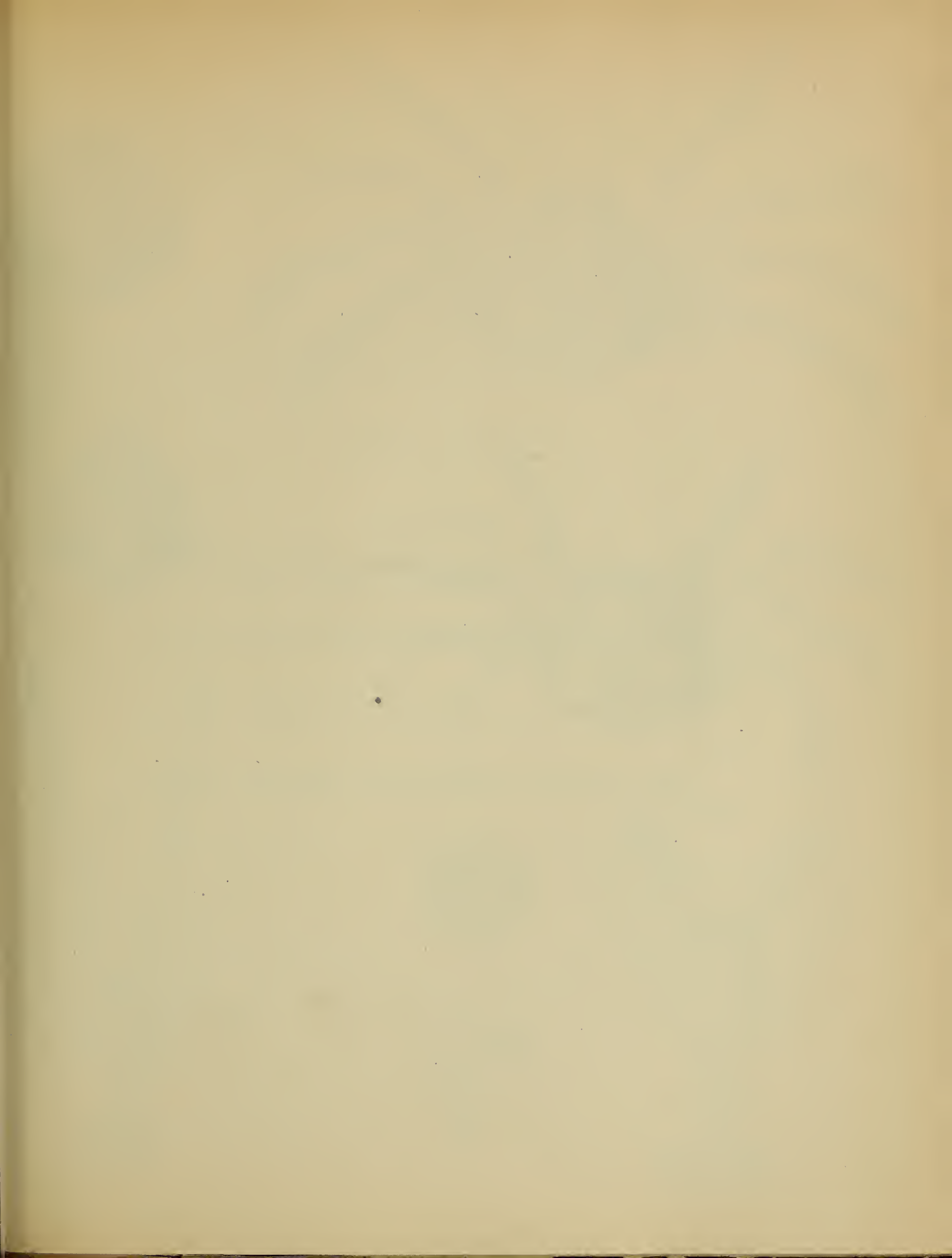
Figs. 2, 2a, 2b.—*Callianassa lignicola*, Anderson, Annals and Magazine of Natural History, April 1899, p. 288.

Figs. 3, 3a.—*Calastacus felix*, Anderson, *tom. cit.*, p. 287.

Figs. 4, 4a.—*Richardina spongicola*, Alcock and Anderson, Annals and Magazine of Natural History, April, 1899, p. 291.



1. *Heterocarpus laevigatus*. 2. *Callianassa lignicola*. 3. *Calastacus felix*. 4. *Richardina spongicola*.



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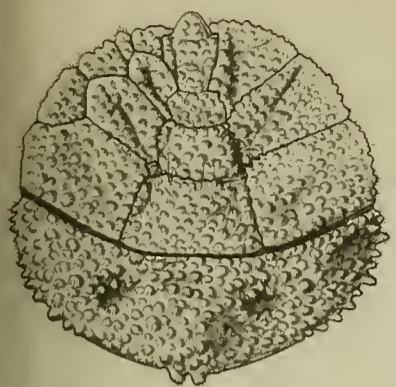
PLATE XLIII.

Figs. 1, 1a.—*Paralomis investigatoris*, Alcock and Anderson, Annals and Magazine of Natural History, January, 1899, p. 17.

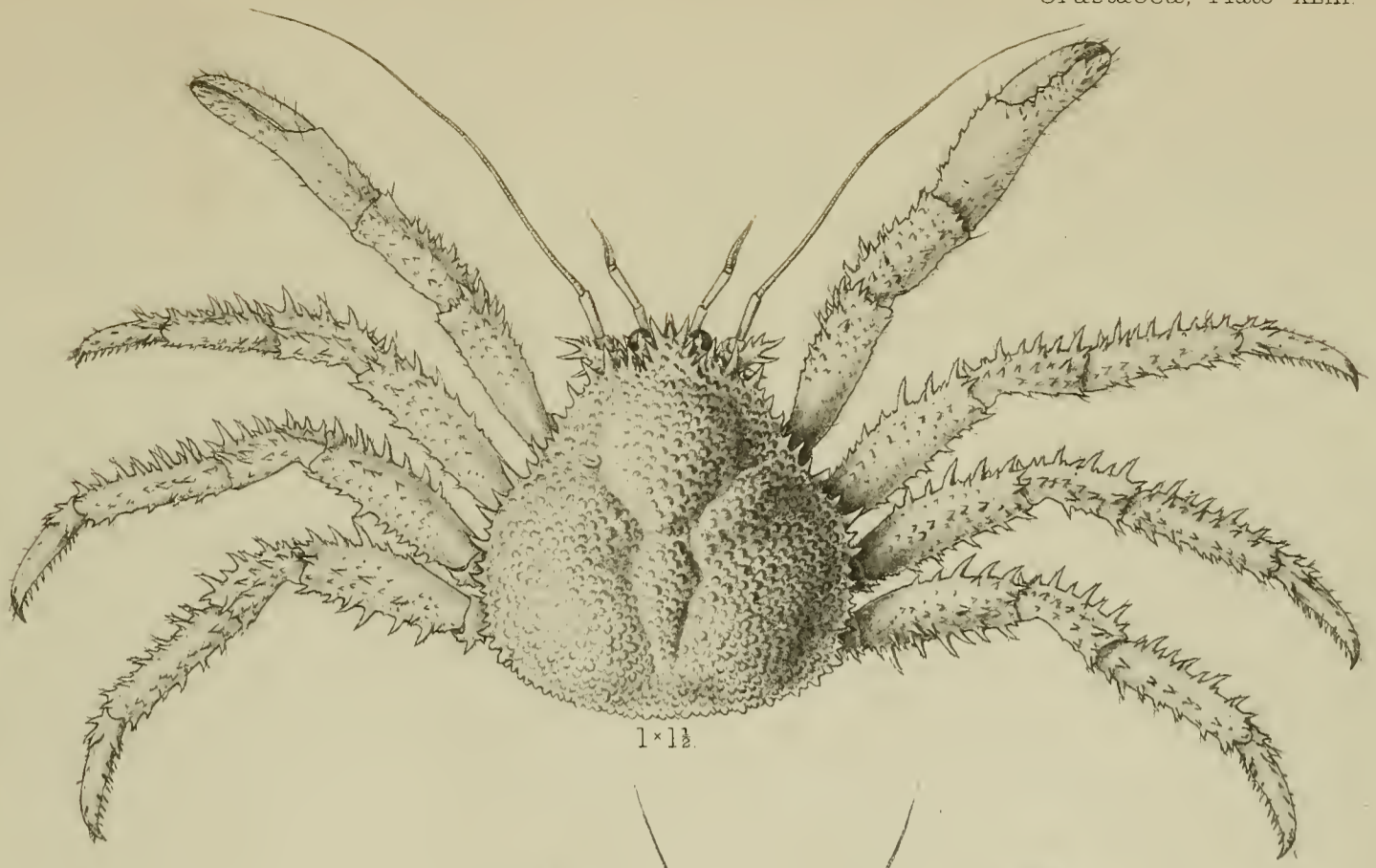
Figs. 2, 2a.—*Paralomis indica*, Alcock and Anderson, *tom. cit.*, p. 15.

Fig. 3.—*Munida comorina*, Alcock and Anderson, *tom. cit.*, p. 18.

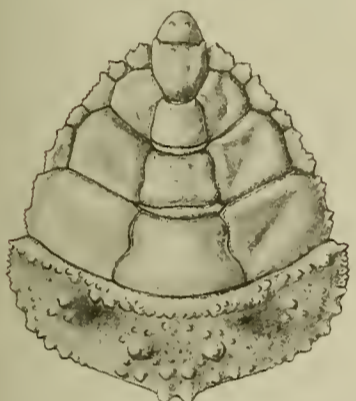
Figs. 4, 4a, 4b.—*Fylocheles Miersi*, Alcock and Anderson, *tom. cit.*, p. 14.



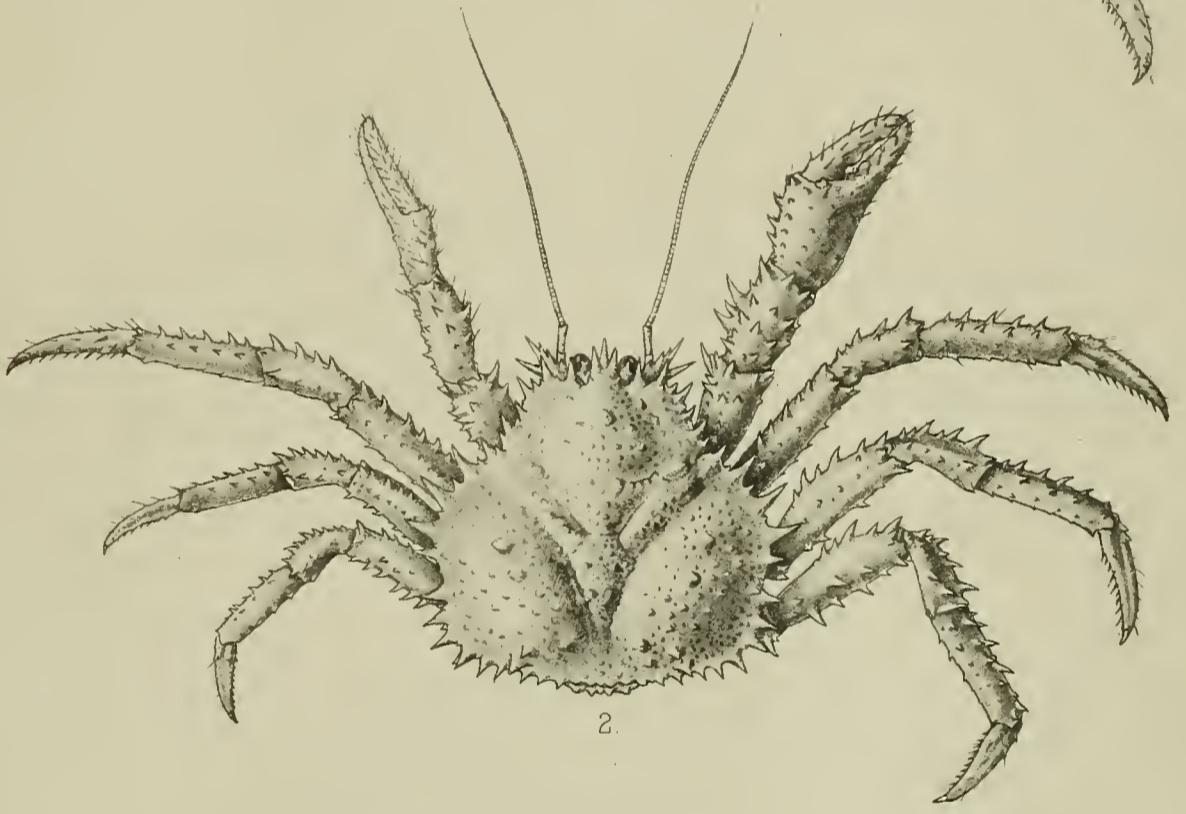
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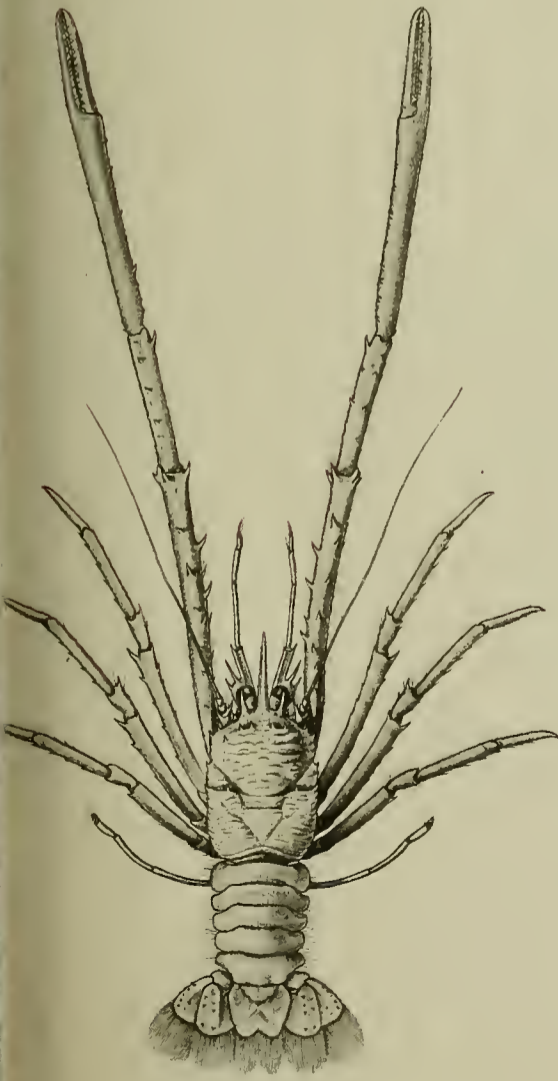
1 x 1 1/2.



2a x 1 1/2.



2.



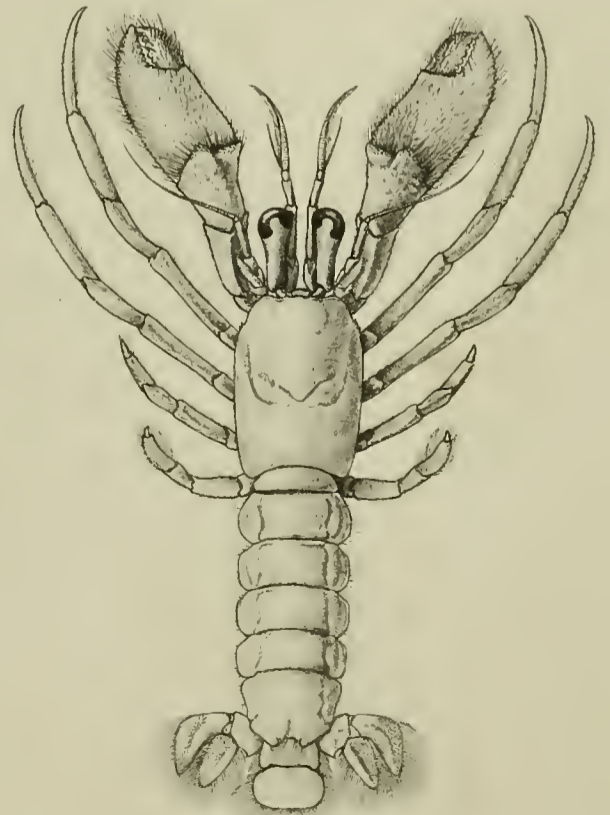
3 x 3.



4a x 2.

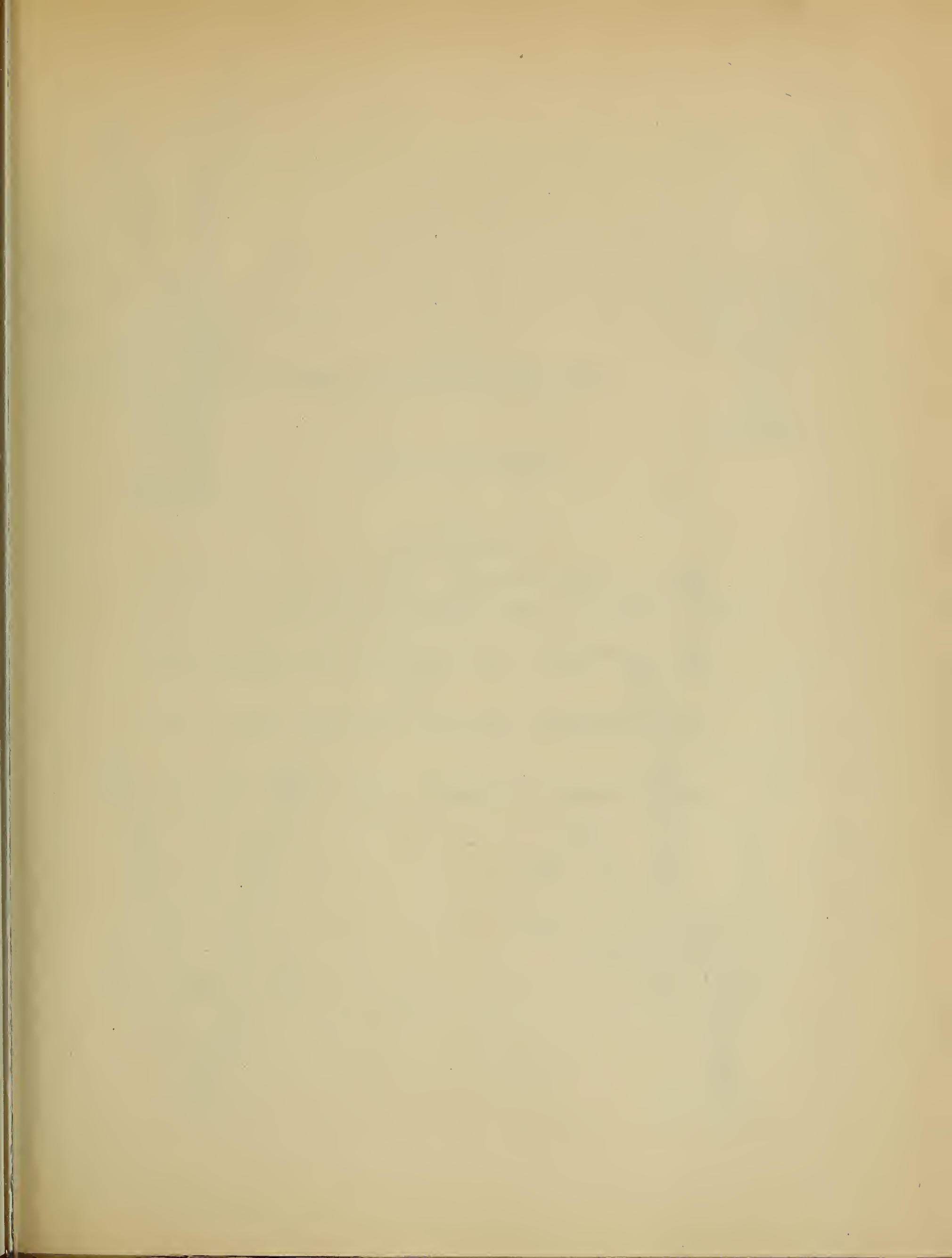


4b x 4.



4 x 2.

1. *Paralomis investigatoris*. 2. *Paralomis indica*. 3. *Munida comorina*. 4. *Pylocheles miersi*.



EXPLANATION OF PLATE.

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PLATE XLIV.

Figs. 1, 1a, 1b.—*Munidopsis iridis*, Alcock and Anderson, Annals and Magazine of Natural History, January 1899, p. 20.

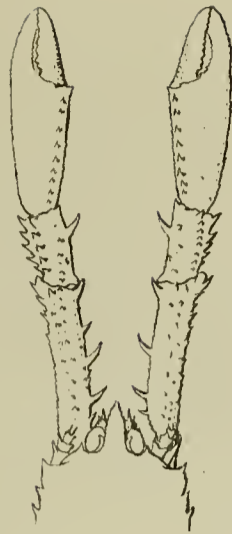
Fig. 2.—*Munidopsis Goodridgii*, Alcock and Anderson, *tom. cit.*, p. 21.

Fig. 3.—*Uroptychus cavirostris*, Alcock and Anderson, *tom. cit.*, p. 26.

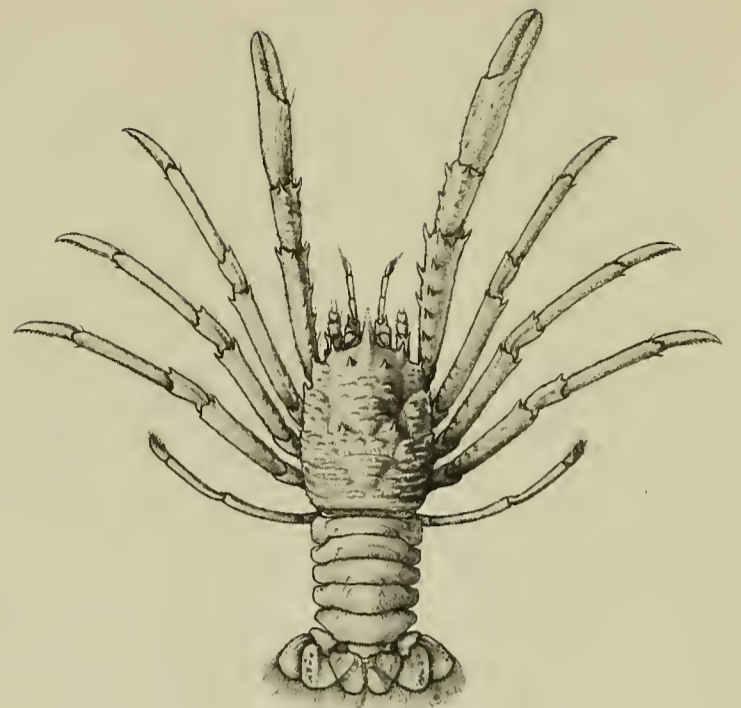
Fig. 4.—*Uroptychus fusimanus*, Alcock and Anderson, *tom. cit.*, p. 26.



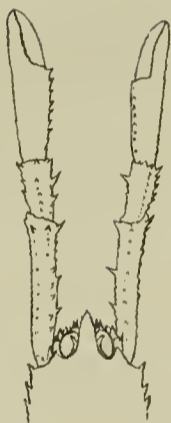
1x2.



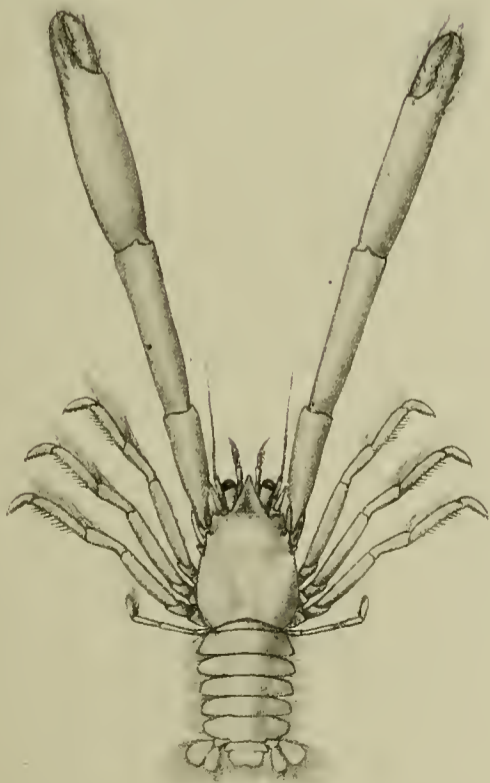
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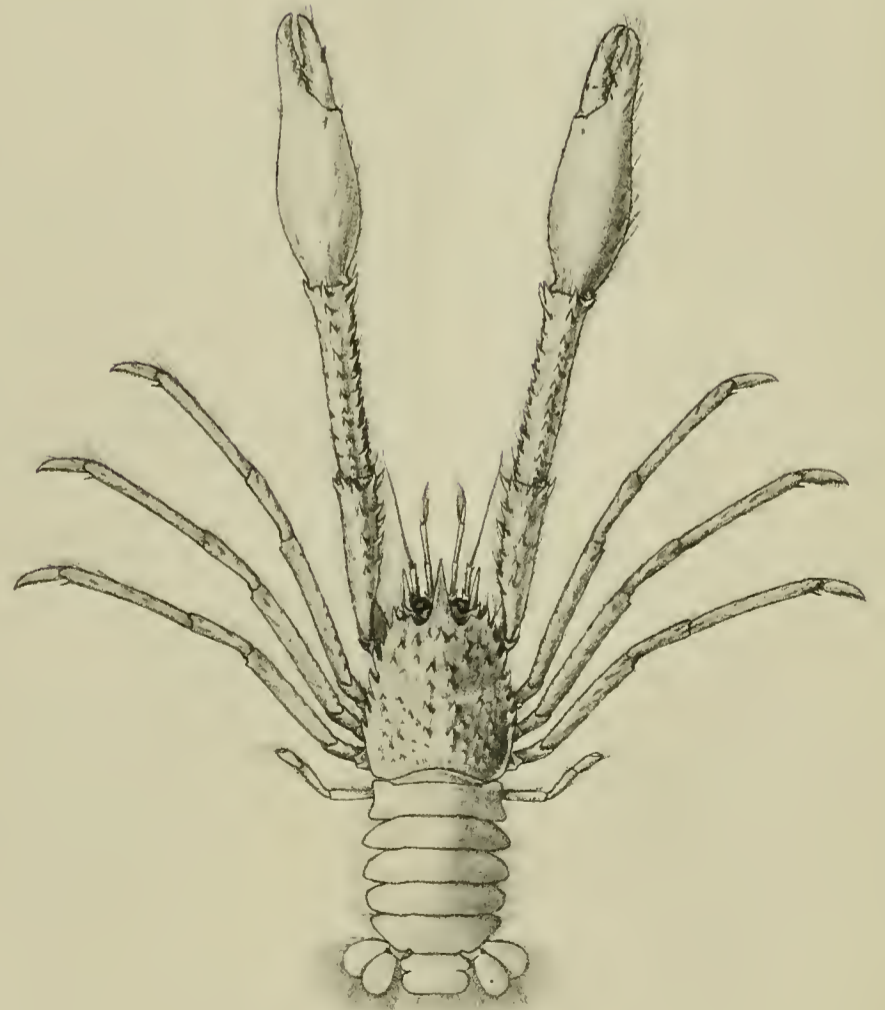
2x2.



1bx2.



3x2.



4x1½.

1. Mumidopsis iridis. 2. Mumidopsis goodridgii. 3. Uroptychus cavirostris. 4. Uroptychus fusimanus.

EXPLANATION OF PLATE.

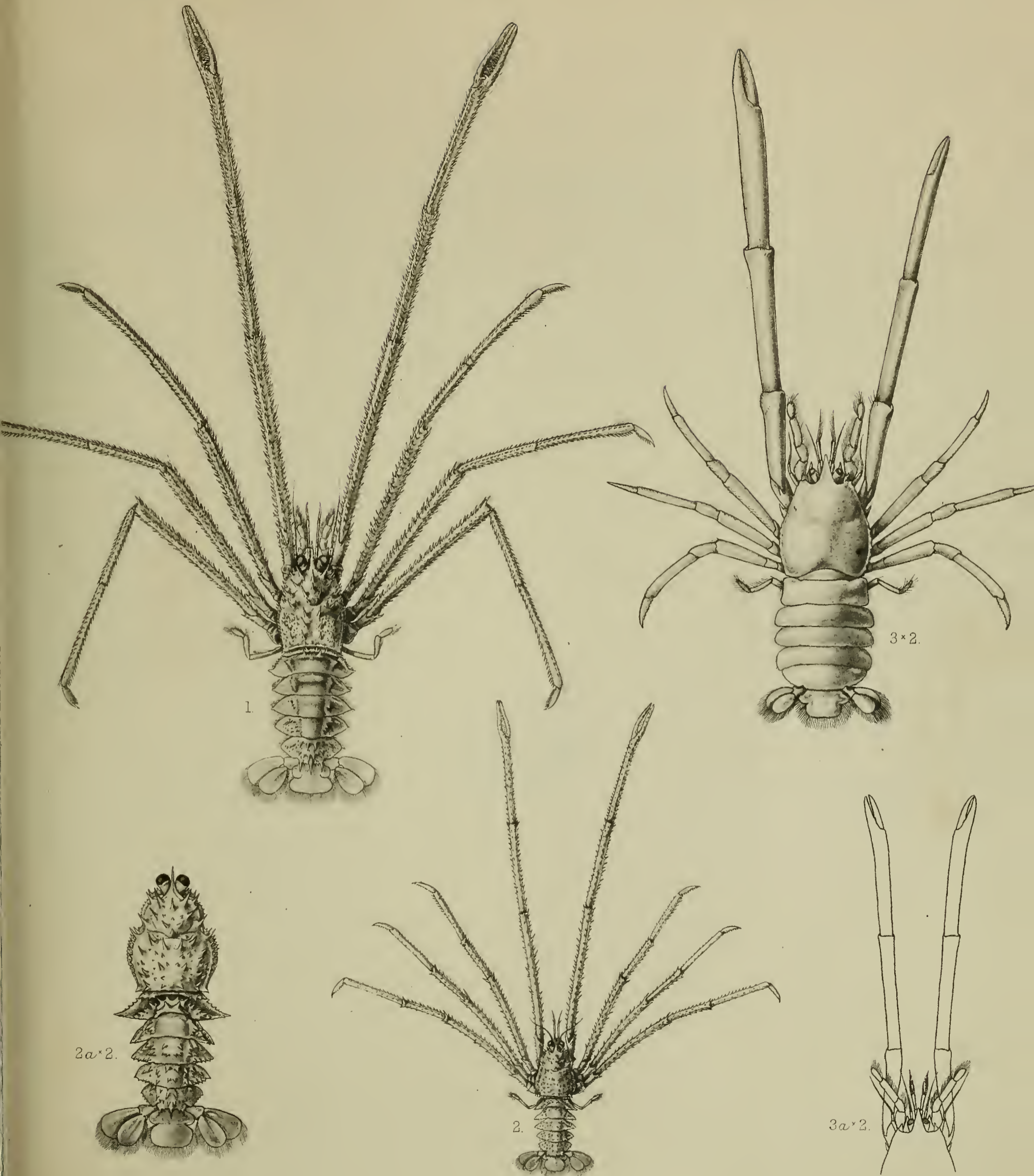
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PLATE XLV.

Fig. 1.—*Ptychogaster investigatoris*, Alcock and Anderson, Annals and Magazine of Natural History, January 1899, p. 24.

Figs. 2, 2a.—*Ptychogaster Hendersoni*, Alcock and Anderson, *tom. cit.*, p. 23.

Figs. 3, 3a.—*Uroptychus bacillimanus*, Alcock and Anderson, *tom. cit.*, p. 25.

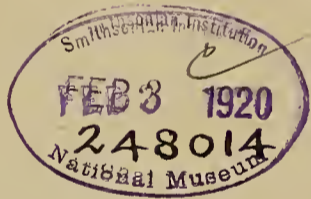


1. *Ptychogaster investigatoris*. 2, 2a. *Ptychogaster hendersoni*. 3, 3a. *Uroptychus bacillimanus*.

Investigator

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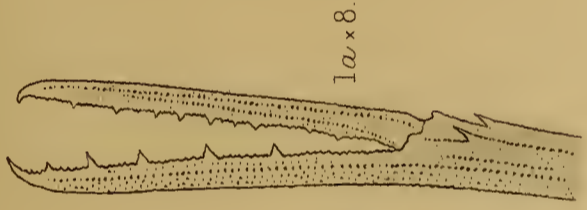
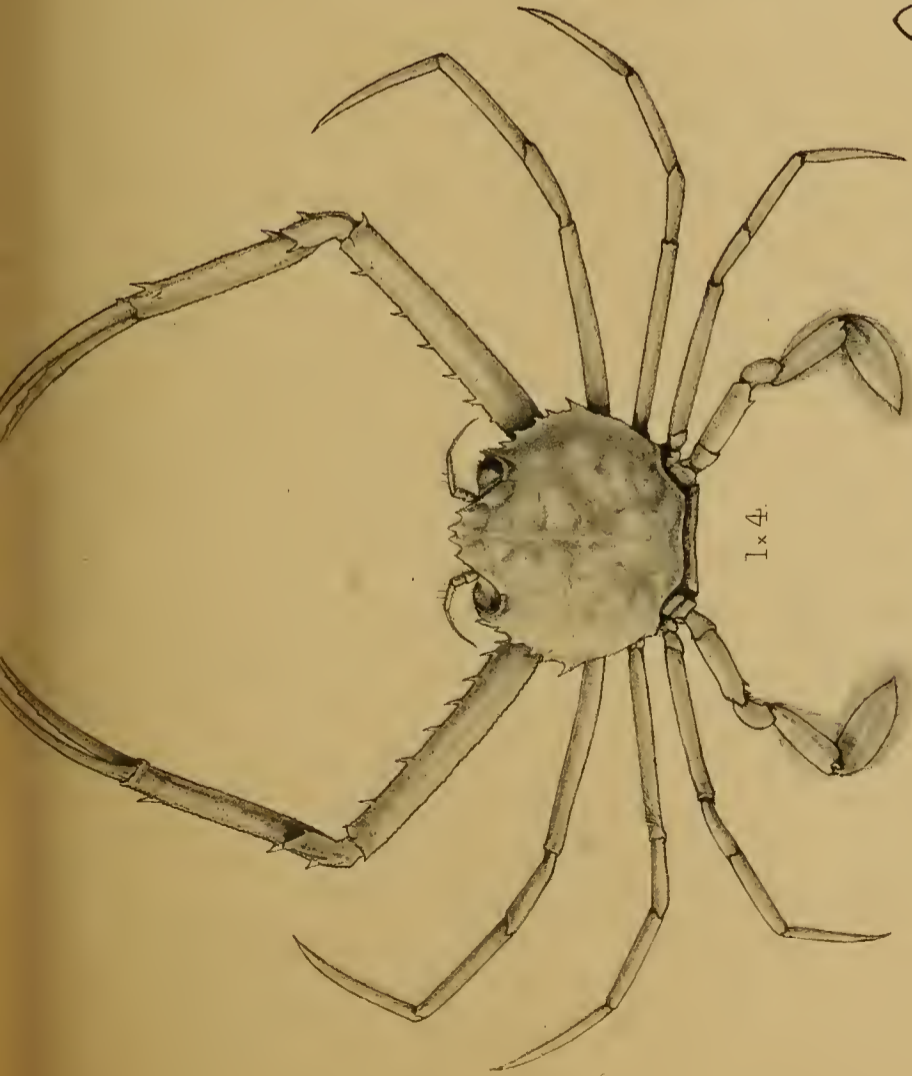
PLATE XLVI.

Figs. 1, 1a.—*Lupocyclus strigosus*, Alcock, "Carcinological Fauna of India," Journal of the Asiatic Society of Bengal, Vol. LXVIII, Part 2, 1899, p. 24.

Fig. 2.—*Neptunus petreus*, Alcock, "Carcinological Fauna of India," J. A. S. B., *tom. cit.*, p. 37.

Figs. 3, 3a.—*Charybdis (Goniosoma) Rivers-Andersoni*, Alcock, "Carcinological Fauna of India," J. A. S. B., *tom. cit.*, p. 53.

Fig. 4.—*Charybdis (Gonioneptunus) investigatoris*, Alcock, "Carcinological Fauna of India," J. A. S. B., *tom. cit.*, p. 70.



1. *Lupocyclus strigosus*. 2. *Nepanus petreus*. 3. *Charybdis rivers-andersoni*. 4. *Charybdis (Gomoneptimus) investigatoris*

EXPLANATION OF PLATE.

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PLATE XLVII.

Figs. 1, 1a.—*Thalamita investigatoris*, Alcock, "Carcinological Fauna of India," Journal of the Asiatic Society of Bengal, Vol. LXVIII, Part 2, 1899, p. 85.

Figs. 2, 2a.—*Thalamita exetastica*, Alcock, "Carcinological Fauna of India," J. A. S. B., *tom. cit.*, p. 86.

Figs. 3, 3a.—*Thalamita imparimanus*, Alcock, "Carcinological Fauna of India," J. A. S. B., *tom. cit.*, p. 87.

Figs. 4, 4a.—*Thalamita Hanseni*, Alcock, "Carcinological Fauna of India," J. A. S. B., *tom. cit.*, p. 88.



1. *Thalamita investigatoris*. 2. *Thalamita exetastica*. 3. *Thalamita imparimanus*. 4. *Thalamita hansenii*.

EXPLANATION OF PLATE.

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PLATE XLVIII.

Figs. 1, 1a.—*Thalamita Wood-Masoni*, Alcock, "Carcinological Fauna of India," Journal of the Asiatic Society of Bengal, Vol. LXVIII, Part 2, 1899, p. 90.

Figs. 2, 2a.—*Thalamita Wood-Masoni*, var. *taprobanica*, Alcock, "Carcinological Fauna of India," J. A. S. B., *tom. cit.*, p. 90.

Figs. 3, 3a.—*Thalamita oculea*, Alcock, "Carcinological Fauna of India," J. A. S. B., *tom. cit.*, p. 91.

Fig. 4.—*Podophthalmus nacreus*, Alcock, "Carcinological Fauna of India," J. A. S. B., *tom. cit.*, p. 93.



1. *Thalamita wood-masoni*. 2. *Thalamita wood-masoni* var. *taprobamica*. 3. *Thalamita oculata*. 4. *Podophthalmus nacreus*.

ILLUSTRATIONS
OF THE
ZOOLOGY
OF THE
ROYAL INDIAN MARINE SURVEY SHIP
INVESTIGATOR,
UNDER THE COMMAND OF
COMMANDER T. H. HEMING, R.N.

CRUSTACEA.—Part IX, Plates XLIX—LV.
MOLLUSCA.—Part III, Plates IX—XIII.

UNDER THE DIRECTION OF
A. ALCOCK, M.B., LL.D., F.R.S., SUPERINTENDENT OF THE INDIAN MUSEUM,
FORMERLY SURGEON-NATURALIST TO THE INDIAN MARINE SURVEY,
AND OF
A. F. McARDLE, B.A., M.B., SURGEON-NATURALIST TO THE
INDIAN MARINE SURVEY.



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Published under the Authority of Captain W. S. Goodridge, R.N., C.F.C.,
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1901.

EXPLANATION OF PLATE.

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PLATE XLIX.

Fig. 1.—*Aristeus (Hemipeneus) crassipes*, Wood-Mason, ♀.
See Alcock, Descriptive Catalogue of the Indian Deep Sea Crustacea
Decapoda Macrura and Anomala, p. 33.

Fig. 2.—*Aristeus (Hemipeneus) crassipes*, Wood-Mason, ♂.
Op. cit., p. 33.

Fig. 3.—*Aristeus semidentatus*, Spence Bate ♂. *Op. cit.*, p. 31.

Fig. 4.—*Aristeus (Hemipeneus) carpenteri*, Wood-Mason, ♀.
Op. cit., p. 32.

Fig. 5.—*Peneus (Parapeneus) rectacutus*, Spence Bate, ♂.
Op. cit., p. 17.

Fig. 6.—*Solenocera (Parasolenocera) annectens*, Wood-Mason,
Op. cit., p. 21.



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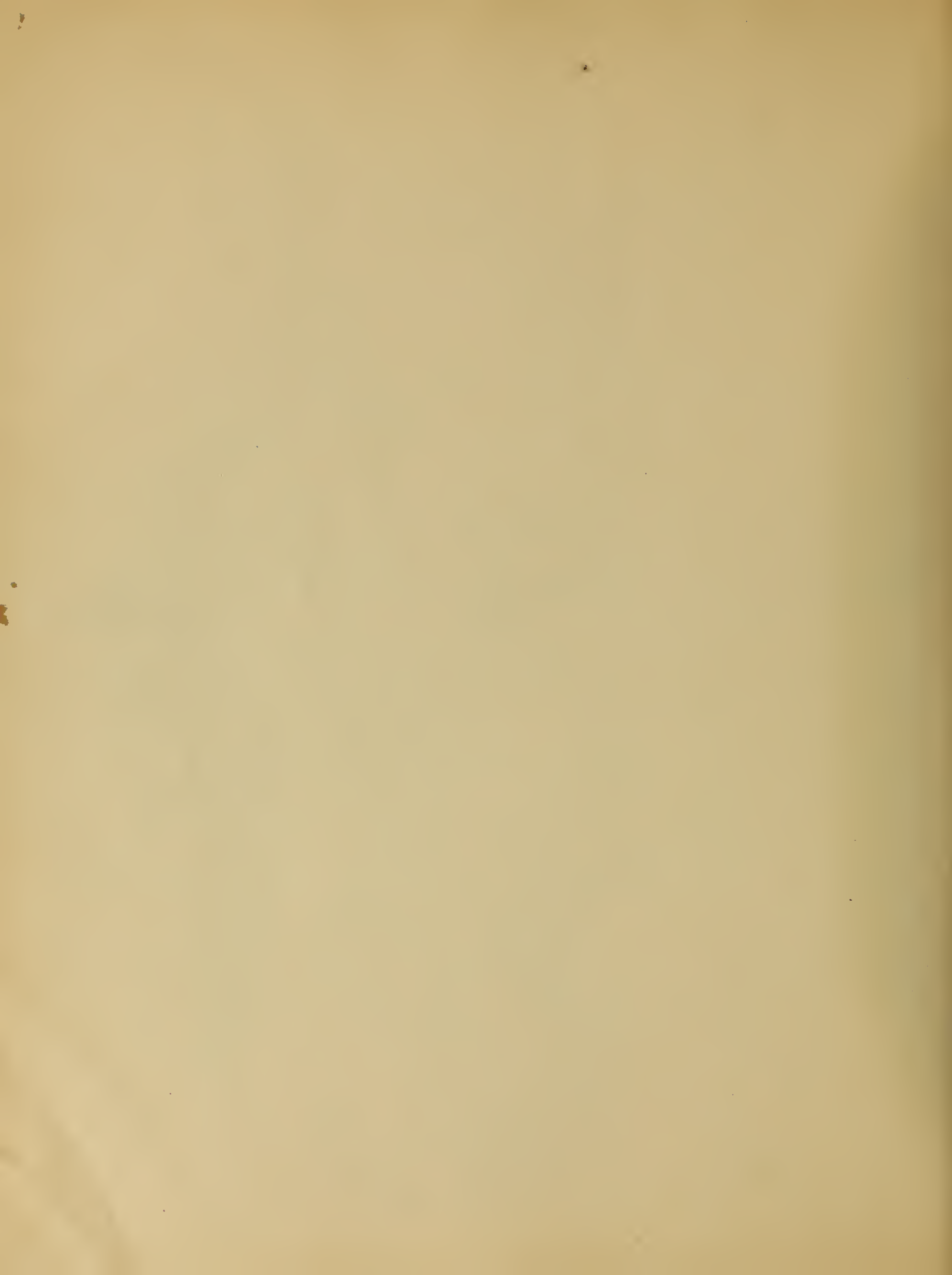
6x2.

1.

3x1½.

5.

1. *Aristeus (Hemipeneus) crassipes*, o. 2. *Aristeus (Hemipeneus) crassipes*, o. 3. *Aristeus semidentatus*, o.



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PLATE L.

Figs. 1, 1a.-b.—*Sergestes bisulcatus*, Wood-Mason, ♀. See Alcock, Descriptive Catalogue of the Indian Deep Sea Crustacea Decapoda Macrura and Anomala, p. 49.

Figs. 2, 2a.-b.—*Peneus (Metapeneus) coniger*, Wood-Mason, ♂. *Op. cit.*, p. 16.

Fig. 3.—*Eryonicus indicus*, A. & And. *Op. cit.*, p. 176.

Figs. 4, 4a.—*Calocaris alcocki*, McArdle. *Op. cit.*, p. 190.

Fig. 5.—*Engystenopus palmipes*, A. & And. *Op. cit.*, p. 144.



1. *Sergestes bisulcatus*, ♀. 2. *Metapeneus comiger*, ♂. 3. *Eryoniscus indicus*. 4. *Calocaris alcocki*. 5. *Engystenopus palmipes*.

EXPLANATION OF PLATE

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PLATE LI.

Fig. 1.—*Heterocarpus tricarinatus*, A. & And. ♀. See Alcock, Descriptive Catalogue of the Indian Deep Sea Crustacea Decapoda Macrura and Anomala, p. 107.

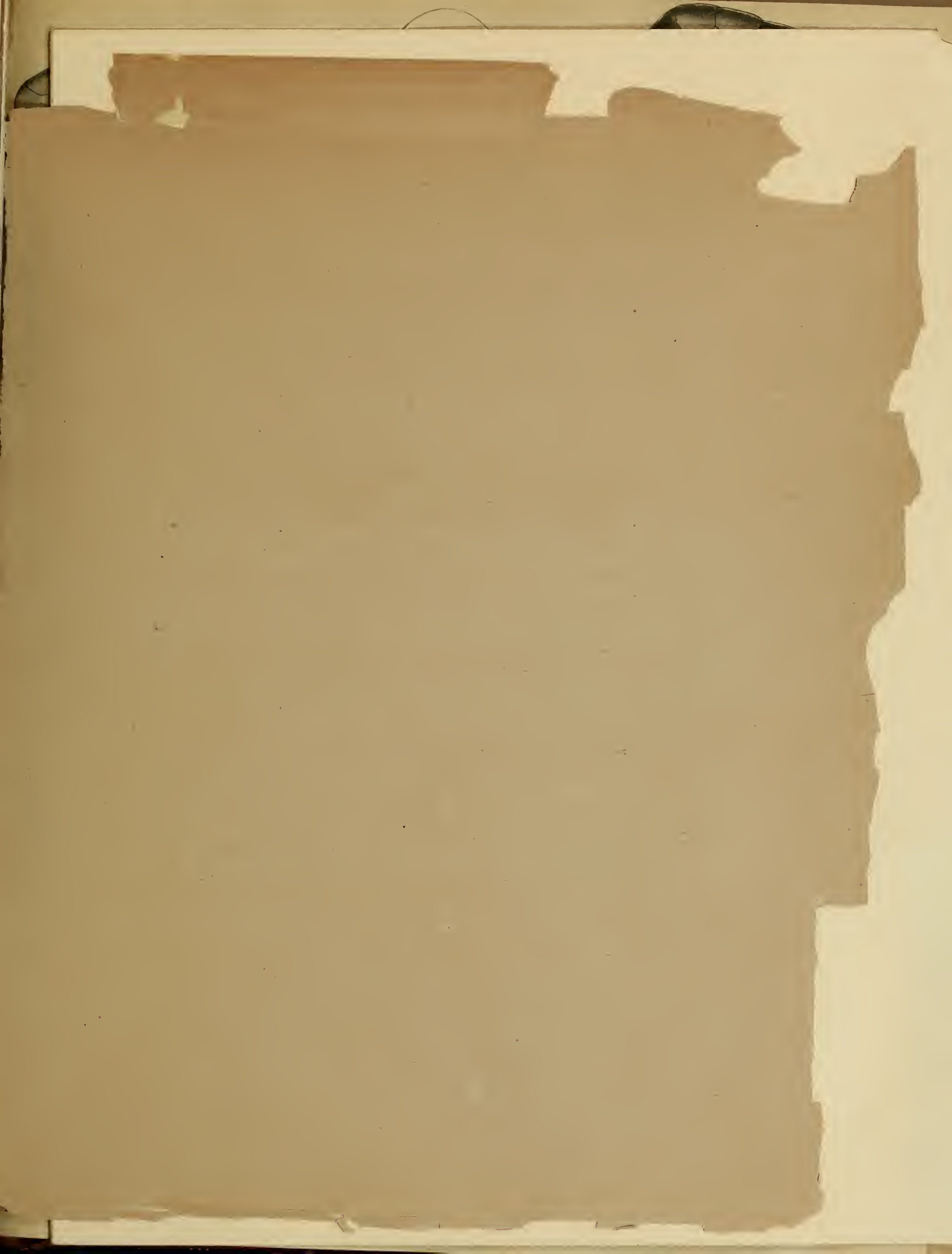
Fig. 2.—*Heterocarpus wood-masoni*, Alcock. *Op. cit.*, p. 108.

Fig. 3, 3a.—*Aegeon affine*, Alcock, ♀. *Op. cit.*, p. 118.

Fig. 4.—*Aegeon affine*, Alcock, ♂. *Op. cit.*, p. 118.

Figs. 5, 5a.-b.—*Psolidopus huxleyi*, Wood-Mason. *Op. cit.*, p. 112.

Fig. 6.—*Pandalus (Plesionika) bifurca*, Alc. & And. *Op. cit.*, p. 98.



EXPLANATION OF PLATE.

CRUSTACEA.

PLATE LII.

Fig. 1.—*Parapasiphæa latirostris*, Wood-Mason. See Alcock, Descriptive Catalogue of Indian Deep Sea Crustacea Decapoda Macrura and Anomala, p. 65.

Fig. 2.—*Pandalus (Plesionika) alcocki*, Anderson, ♂. *Op. cit.*, p. 97.

Fig. 3.—*Ephyrina hoskynii*, Wood-Mason. *Op. cit.*, p. 84.

Fig. 4.—*Pandalus (Plesionika) alcocki*, Anderson, ♀. *Op. cit.*, p. 97.

Fig. 5.—*Psathyrocaris fragilis*, Wood-Mason. *Op. cit.*, p. 69.

Figs. 6, 6a.-b.—*Phye alcocki*, Wood-Mason. *Op. cit.*, p. 61.

Fig. 7.—*Sympasiphæa annectens*, Alcock. *Op. cit.*, p. 63.



1. *Parapasiphaea latirostis* ♀. 2. *Pandalus (Plesionika) alcocki*, ♀. 3. *Ephyrina hoskynii*, W-M. 4. *Pandalus (Plesionika) alcocki* ♀.
 5. *Psathyrocaris fragilis*, W-M. 6. *Phye alcocki*, W-M. 7. *Sympasiphaea annectens*.

5x2.

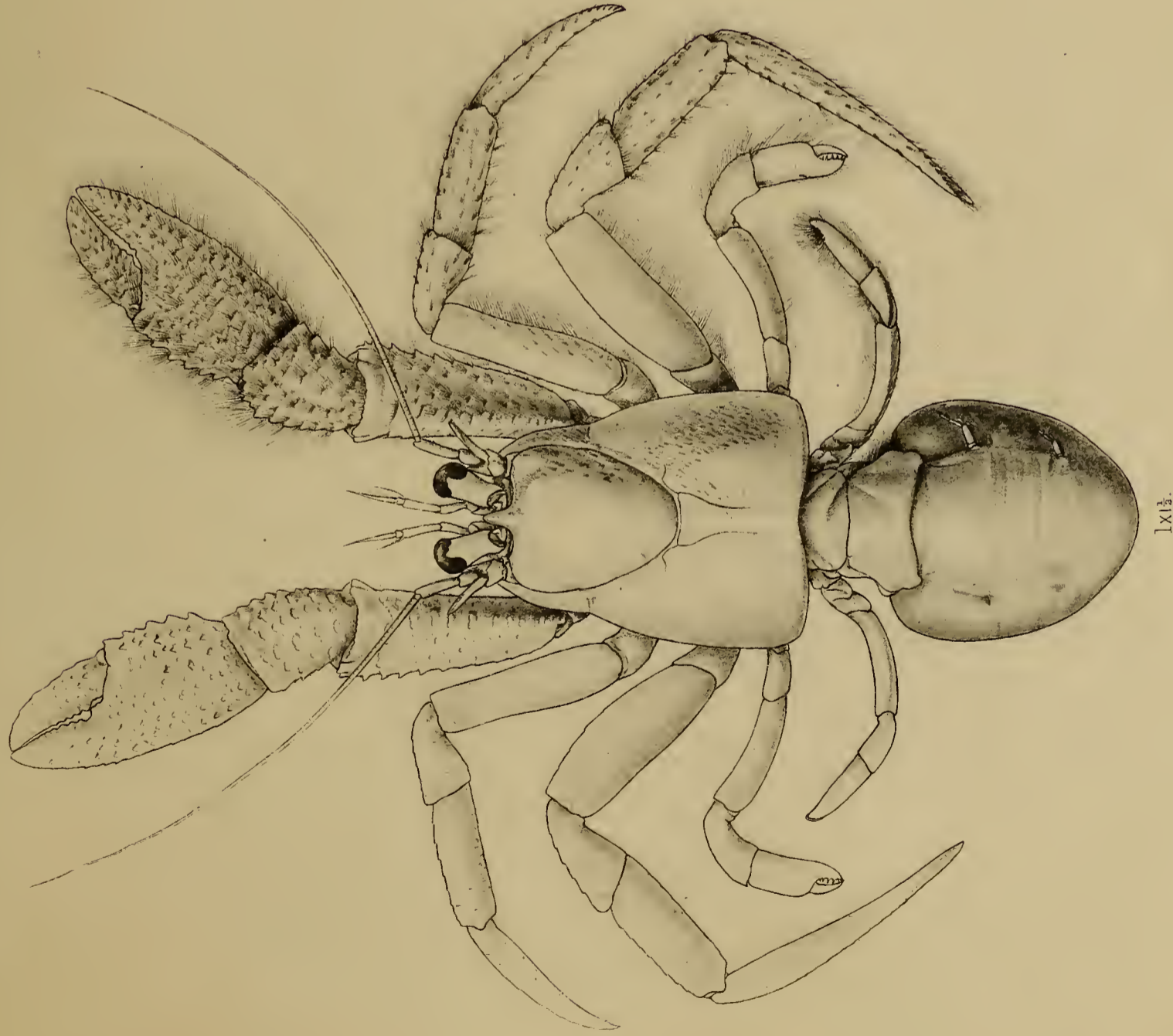
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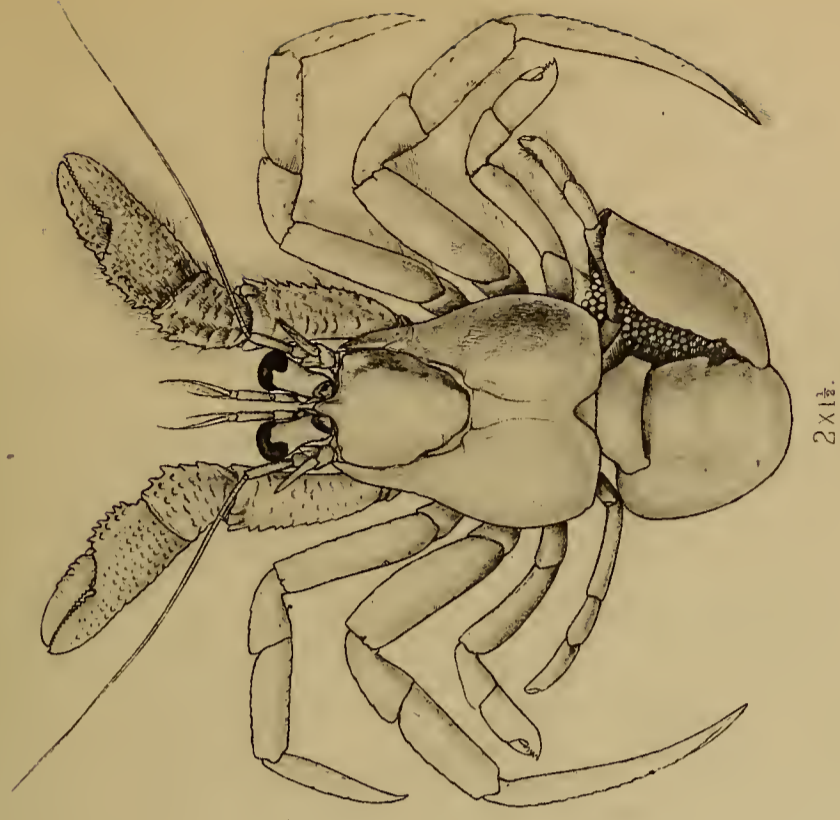
PLATE LIII.

Figs. 1, 1a.—*Chlænopagurus andersoni*, Alcock, ♂. Alcock, Descriptive Catalogue of Indian Deep Sea Crustacea Decapoda Macrura and Anomala, p. 229

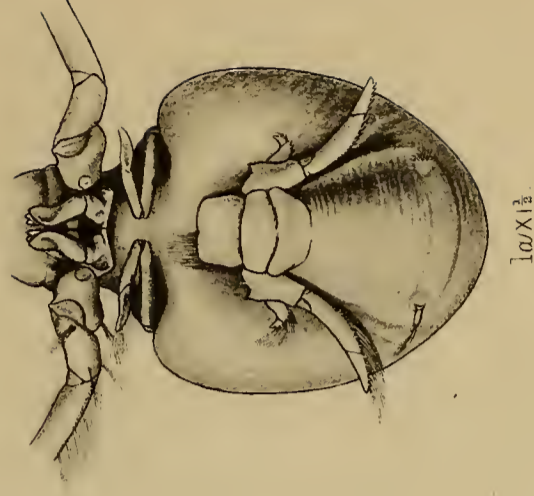
Fig. 2.—*Chlænopagurus andersoni*, Alcock. ♀. *Op. cit.*, p. 229.



1. *Chlænopagurus andersoni*. ♂



2. *Chlænopagurus andersoni*. ♀



EXPLANATION OF PLATE.

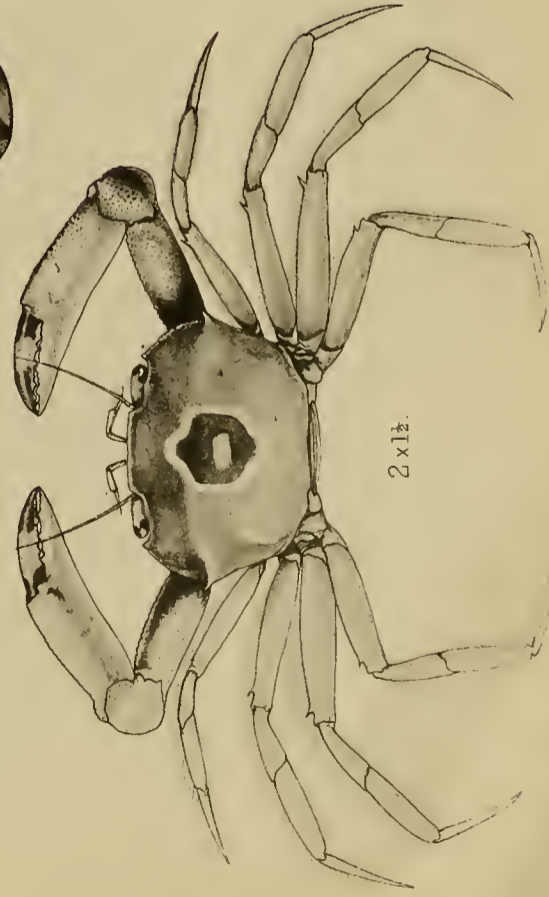
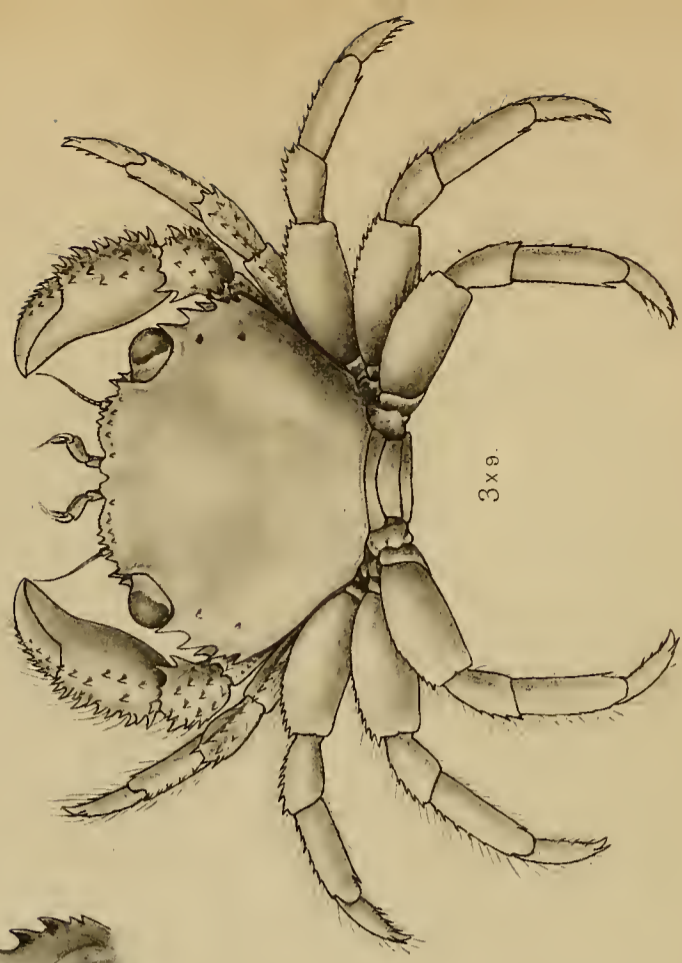
CRUSTACEA.

PLATE LIV.

Figs. 1, 1a.—*Chlænopagurus andersoni*, Alcock, Descriptive Catalogue of Indian Deep Sea Crustacea Decapoda Macrura and Anomala, p. 229.

Fig. 2.—*Psopheticus insignis*, Alcock, Materials for a Carcinological Fauna of India, No. 6. The Brachyura Catometopa or Grapsoidea. Journal of the Asiatic Society of Bengal, Vol. LXIX, part 2, 1900, p. 311.

Figs. 3, 3a.—*Domecia glabra*, Alcock, Journal of the Asiatic Society of Bengal, Vol. LXVIII, part 2, 1899, p. 117.



1. *Chlaenopagurus andersoni*. 2. *Psopheticus insignis*. 3. *Domecia glabra*.

EXPLANATION OF PLATE.

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PLATE LV.

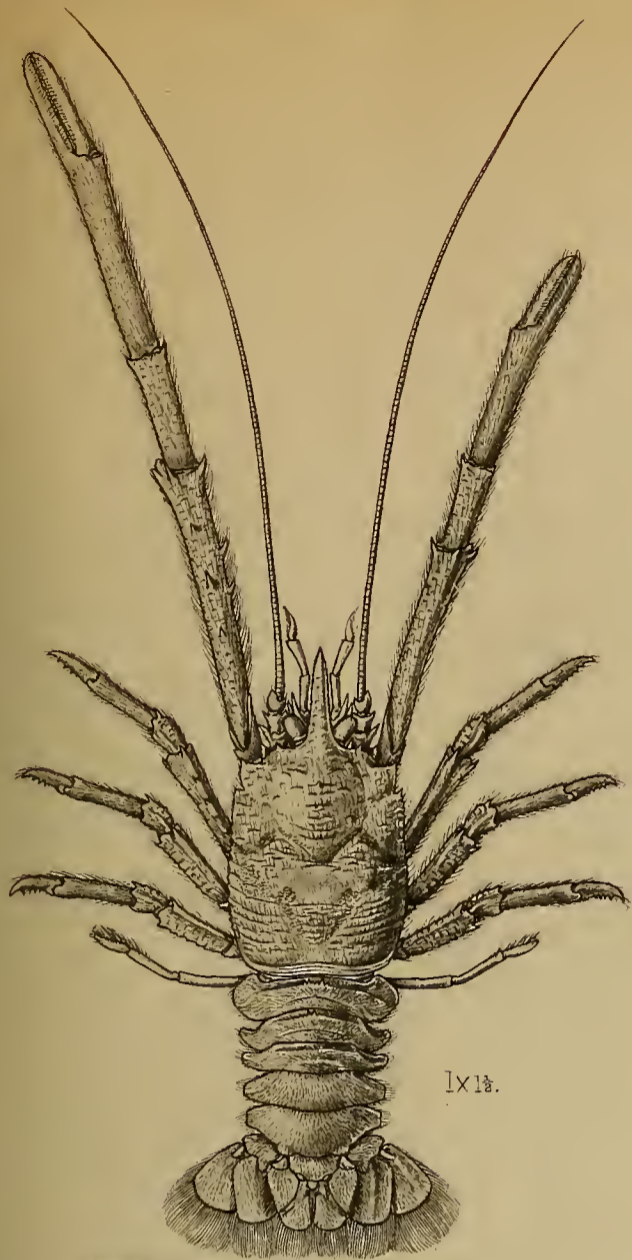
Fig. 1.—*Munidopsis wardeni*, Anderson. See Alcock, Descriptive Catalogue of Indian Deep Sea Crustacea Decapoda Macrura and Anomala, p. 257.

Fig. 2.—*Bathyanstyristes spinosus*, Alc. & And. *Op. cit.*, 273.
(=*Munidopsis Bathyanstyristes tenax.*)

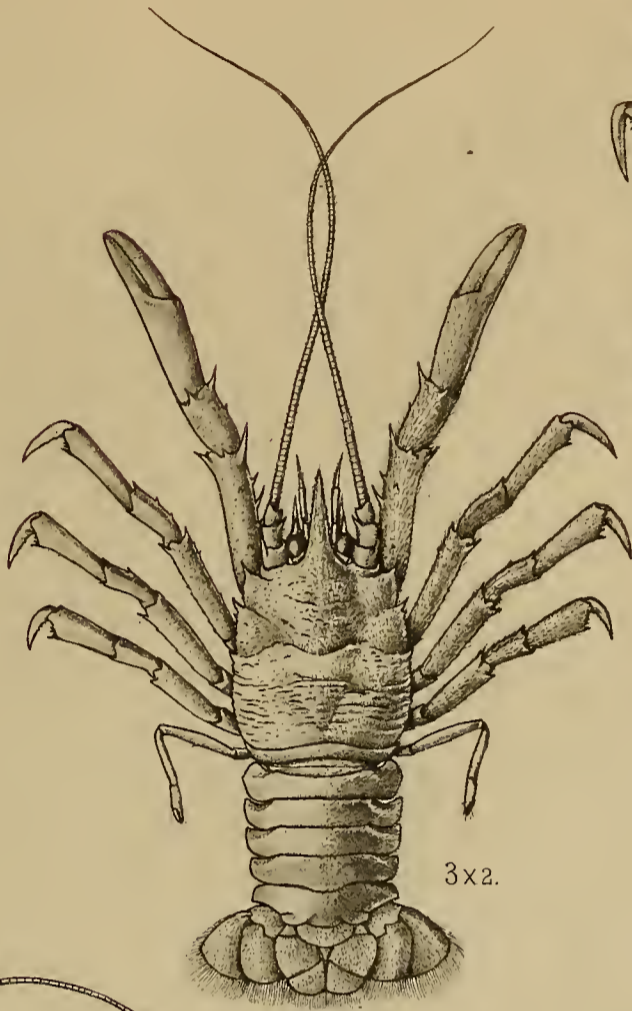
Fig. 3.—*Bathyanstyristes levis*, Alc. & And. *Op. cit.*, p. 274.

Fig. 4.—*Munidopsis hemingi*, Alc. & And. *Op. cit.*, p. 251.

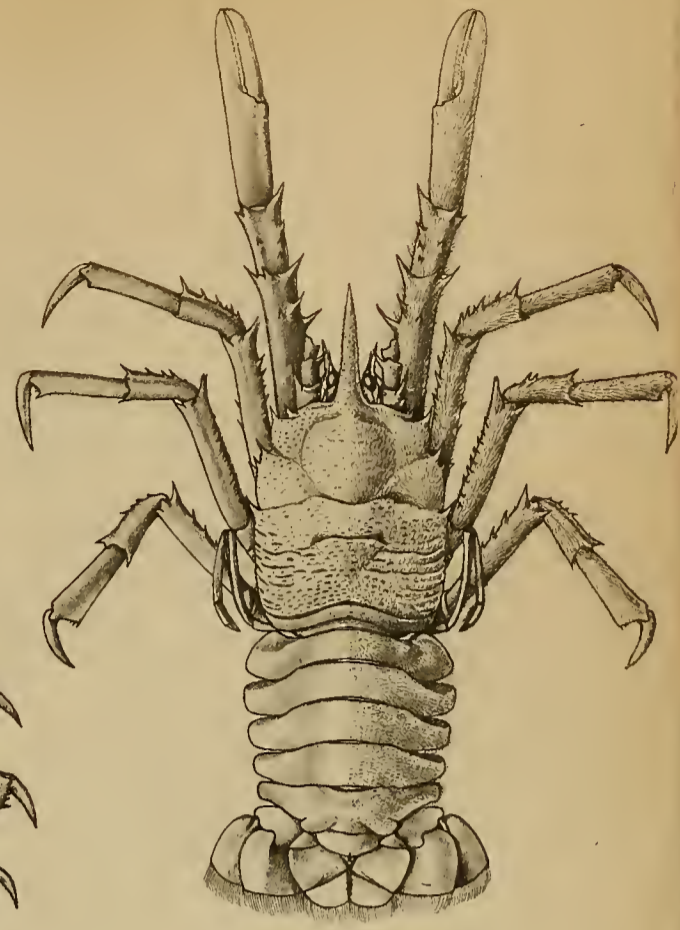
Figs. 5, 5a.—*Galacantha areolata*, Wood-Mason. *Op. cit.*, p. 275. (= *Galacantha rostrata*, A. Milne Edwards.)



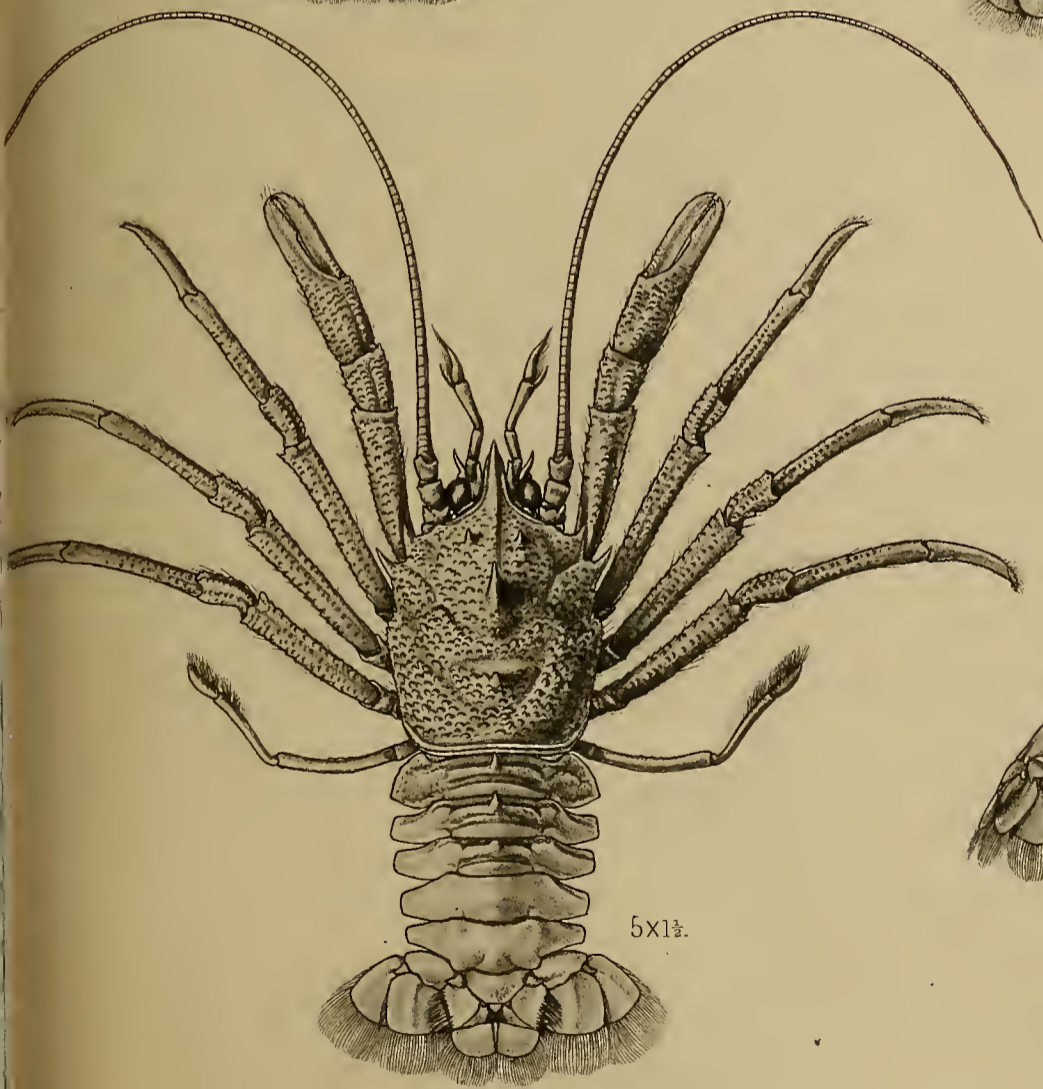
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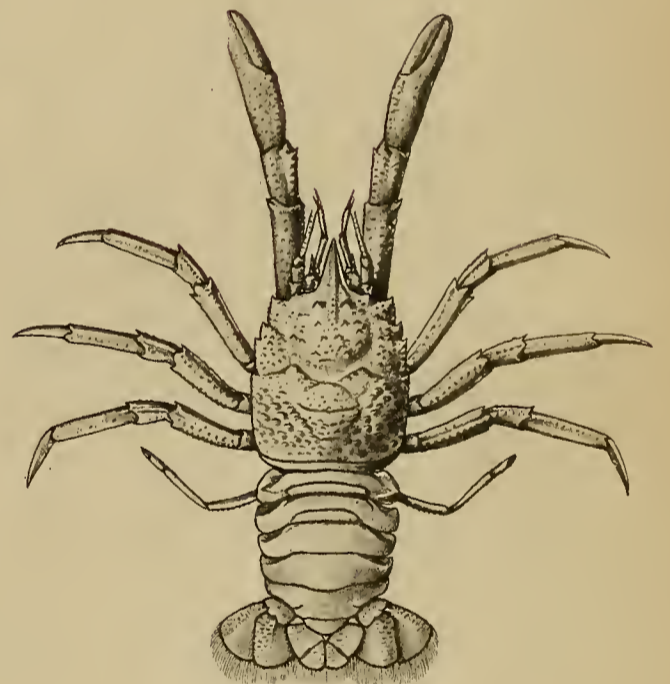
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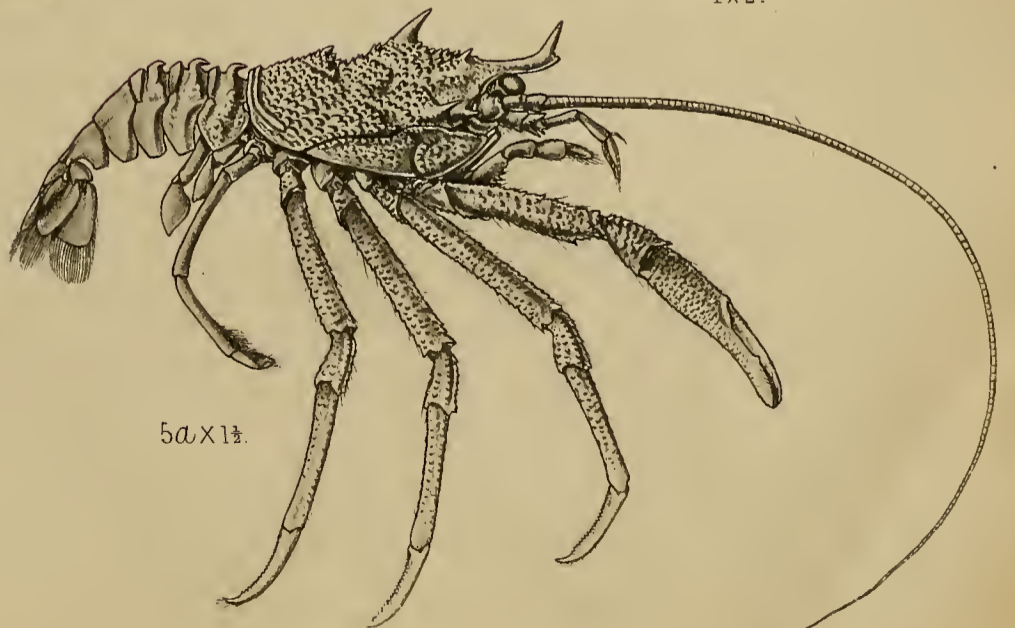
2.



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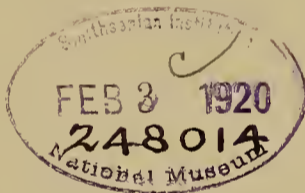
Munidopsis wardeni. 2. Bathyan kyristes spinosus. 3. Bathyan kyristes levis. 4. Munidopsis hemingi. 5. Galacantha areolata.

Investigator

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PLATE LVI.

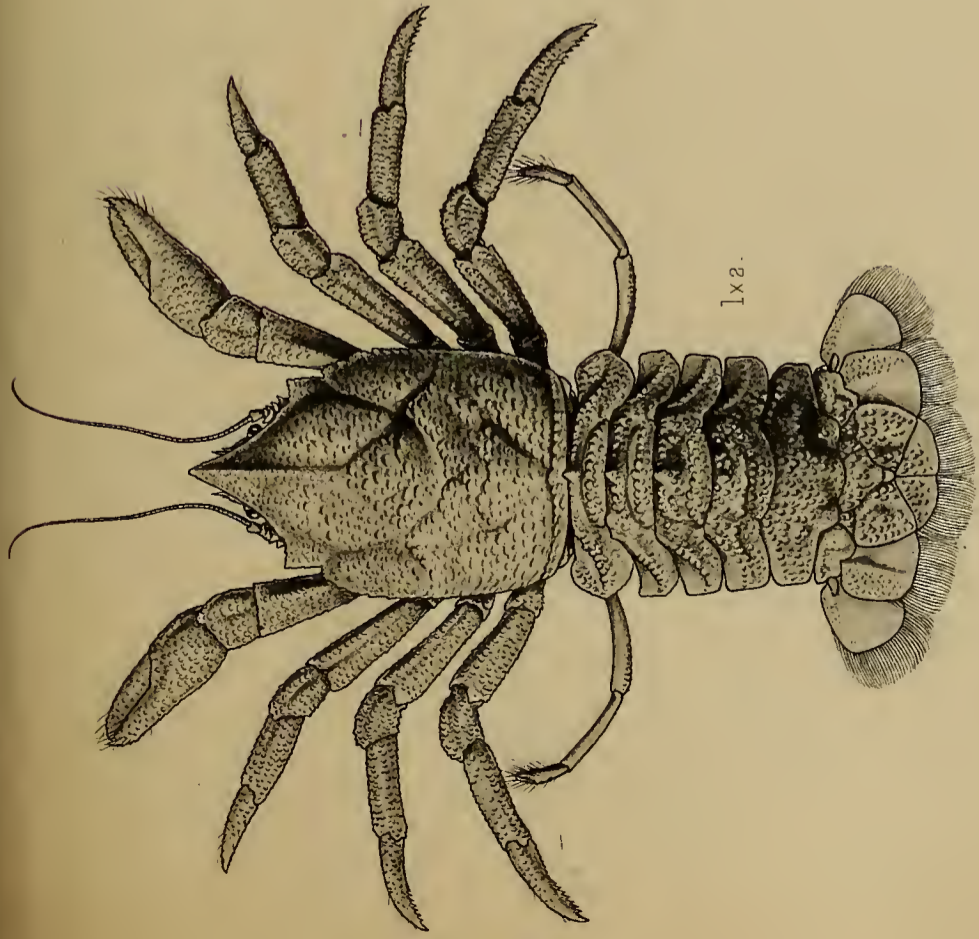
Fig. 1.—*Munidopsis (Orophorhynchus) granosa*, Alcock, Descriptive Catalogue of Indian Deep Sea Crustacea Decapoda Macrura and Anomala, p. 266.

Fig. 2.—*Munidopsis (Orophorhynchus) edwardsii*, (Wood-Mason.) *Op. cit.*, p. 265.

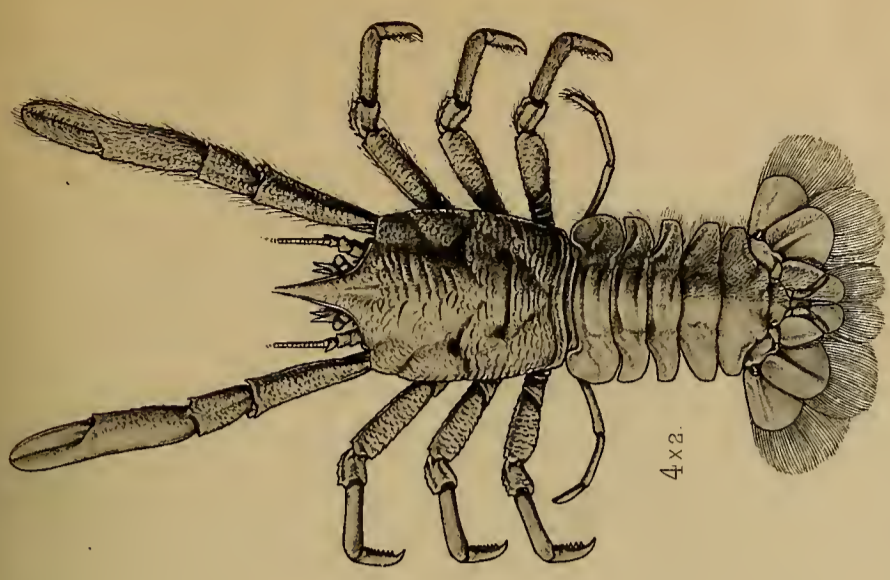
Fig. 3.—*Uroptychus nigricapillis*, Alcock. *Op. cit.*, p. 283.

Fig. 4.—*Munidopsis (Elasmonotus) sinclairi*, McArdle, Annals and Magazine of Natural History, Series 7, Vol. viii, December, 1901, p. 524.

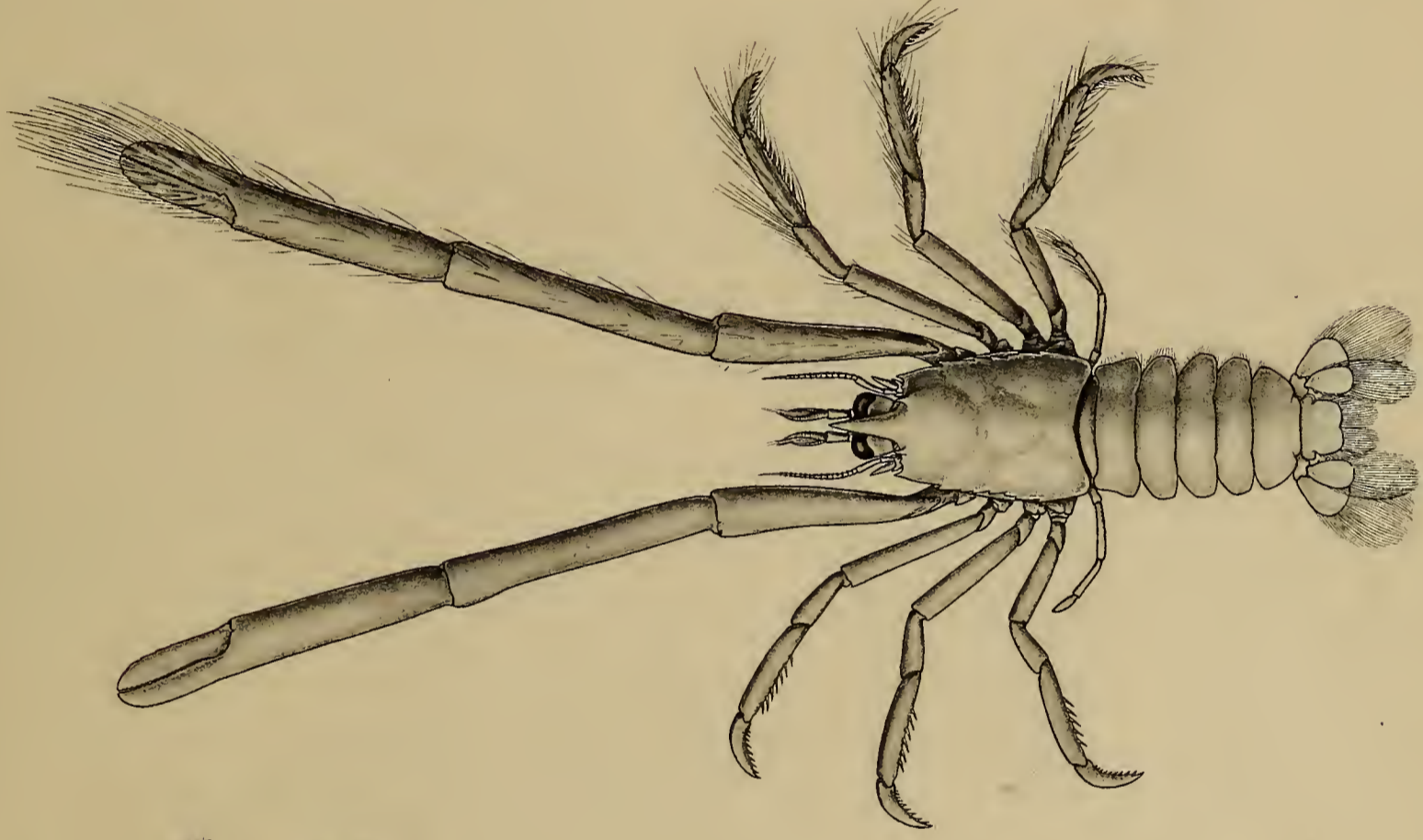
Fig. 5.—*Munidopsis orcina*, McArdle. *Op. cit.*, p. 523.



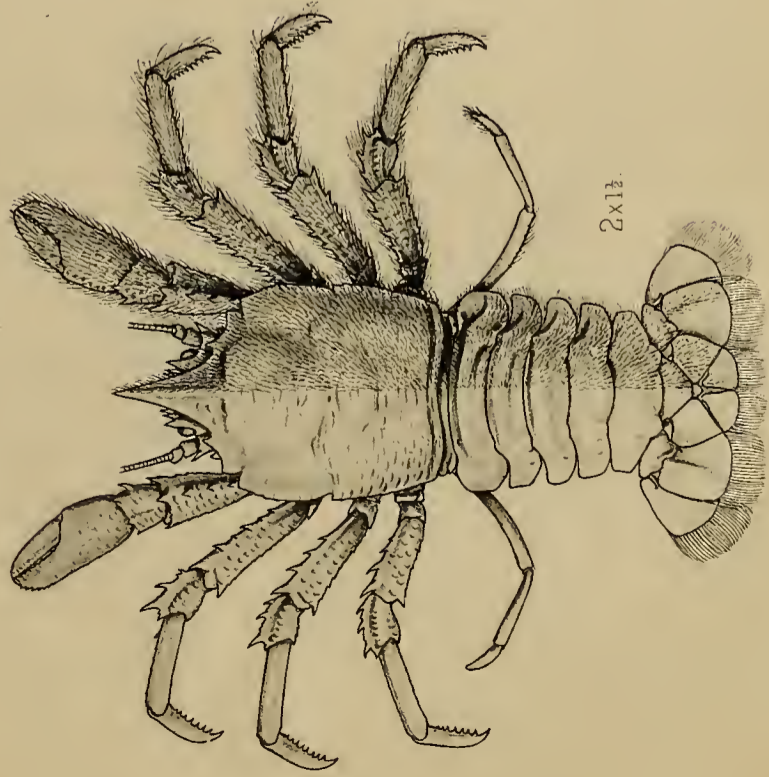
1x2.



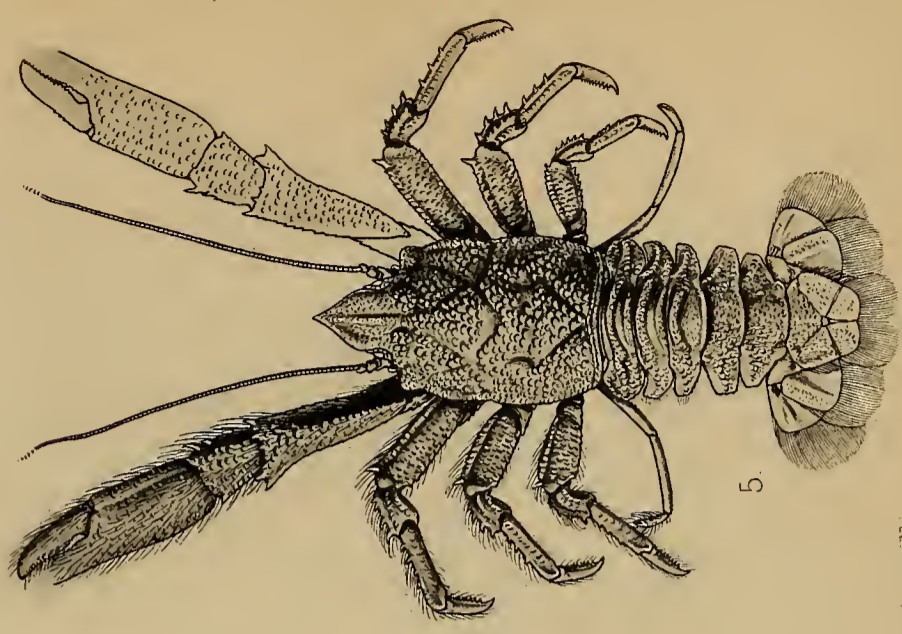
4x2.



3x3.

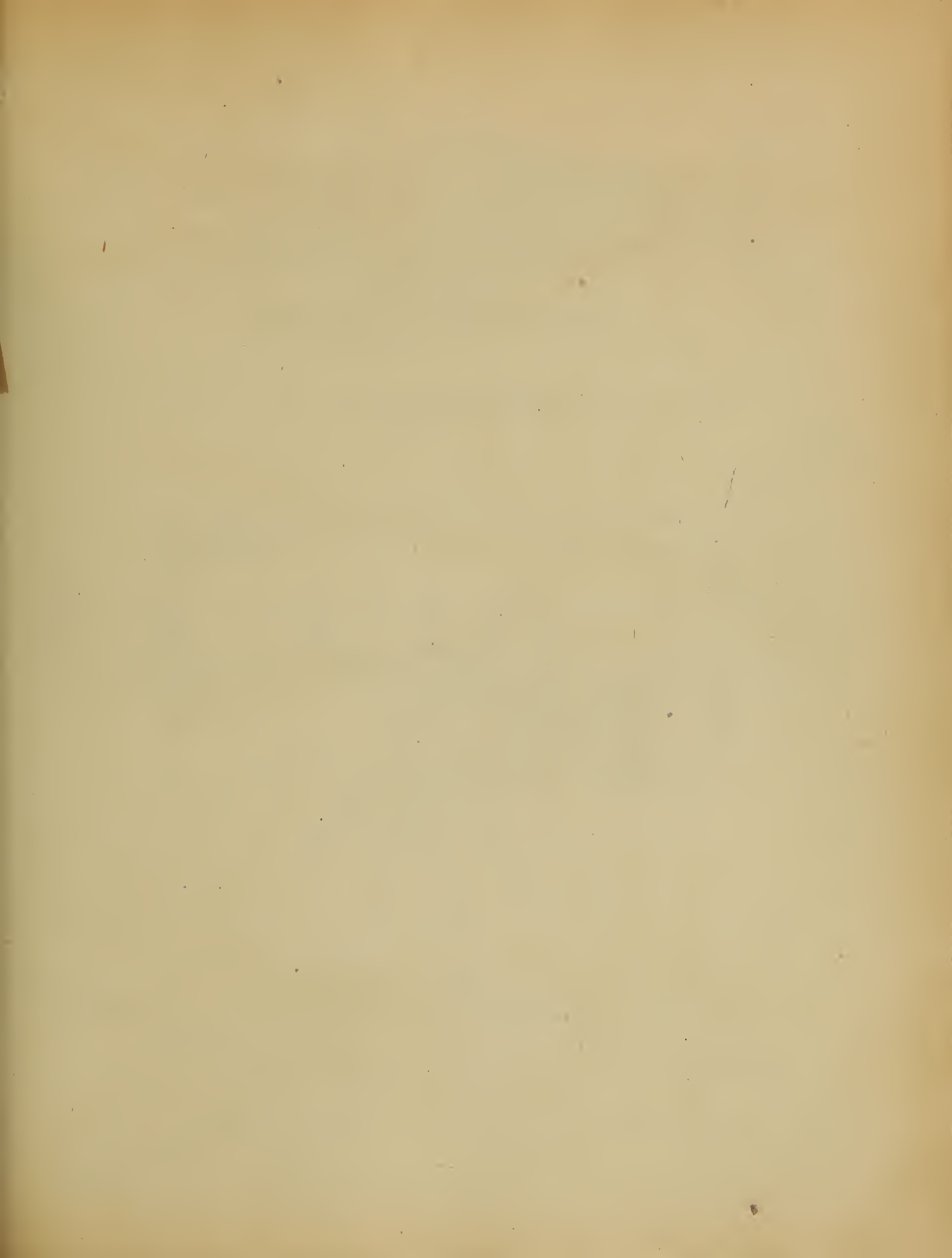


2x1 1/2.



5.

1. *Munidopsis (Orophorhynchus) granosa*. 2. *Munidopsis (Orophorhynchus) edwardsii*. 3. *Uroptychus nigricapillus*.
4. *Munidopsis (Elasmonotus) sinclairi*. 5. *Munidopsis orcina*.



EXPLANATION OF PLATE

CRUSTACEA.

PLATE LVII.

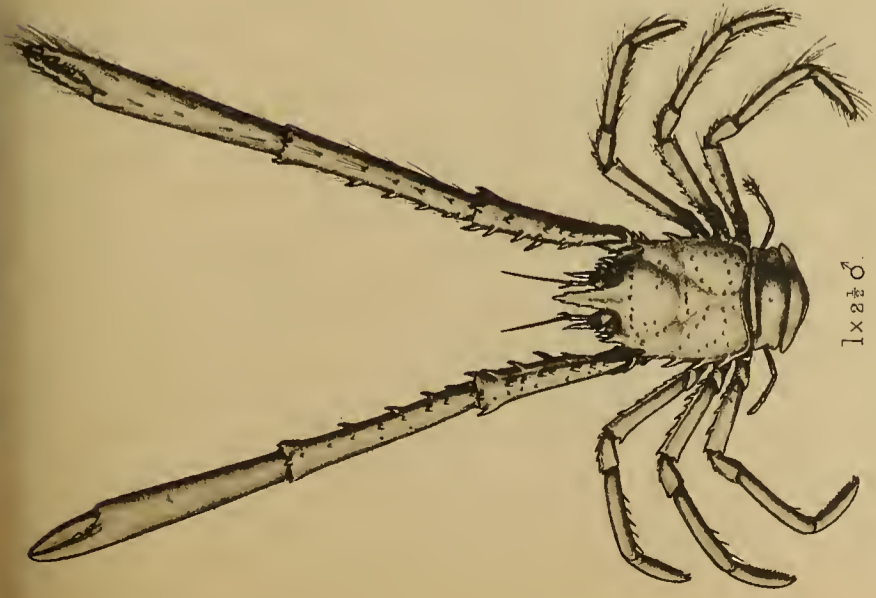
Figs. 1, 1a.—*Uroptychus nanophyes*, McArdle, ♂ ♀. *Annals and Magazine of Natural History, Series 7, Vol. viii, December, 1901, p. 525.*

Figs. 2, 2a.—*Calastacus longispinis*, McArdle. *Op. cit.*, p. 522.

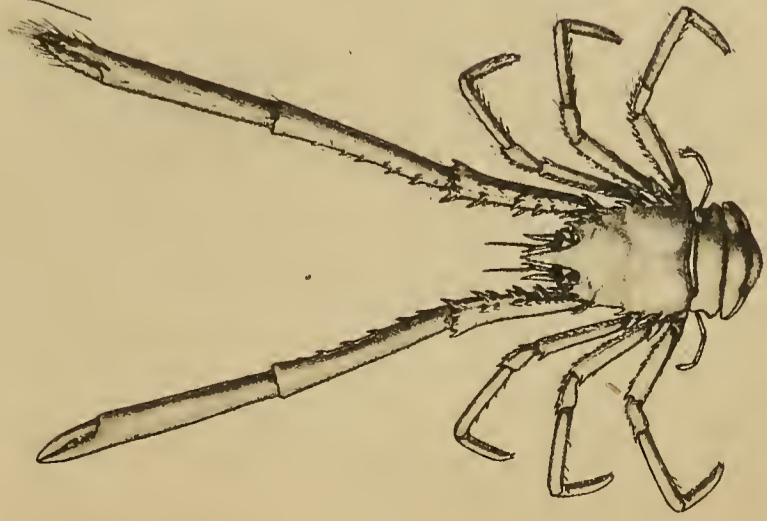
Fig. 3.—*Munidopsis (Orophorhynchus) ceratophthalmus*, Alcock, *Descriptive Catalogue of Indian Deep Sea Crustacea Decapoda Macrura and Anomala*, p. 271.

Fig. 4.—*Gebicula exigua*, Alcock, *Op. cit.*, p. 202.

Figs. 5, 5a.—*Willemoesia indica*, Alcock. *Op. cit.*, p. 178.



1x2♂



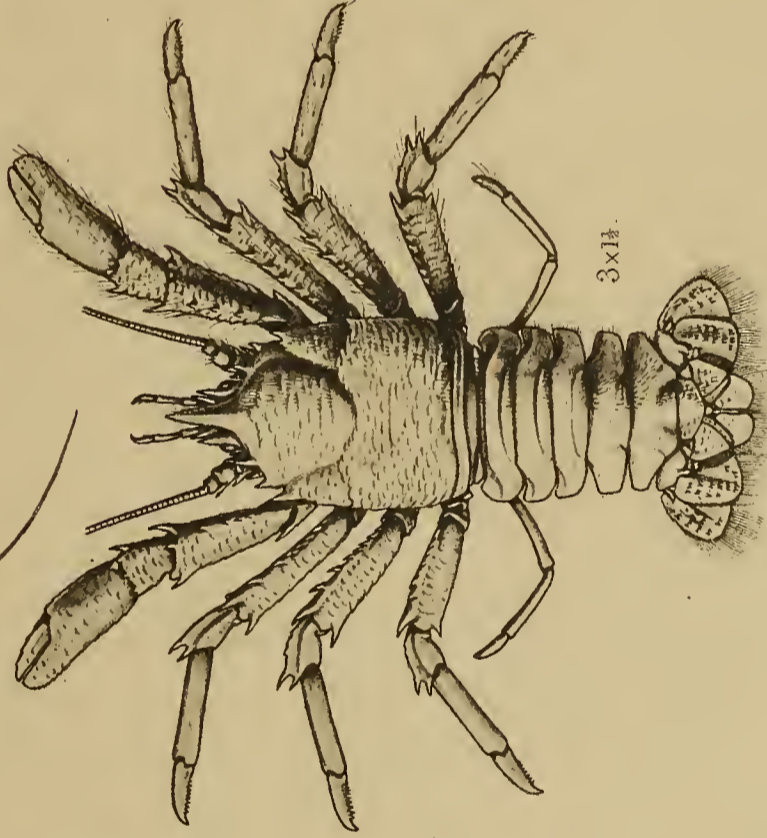
1ax2♀



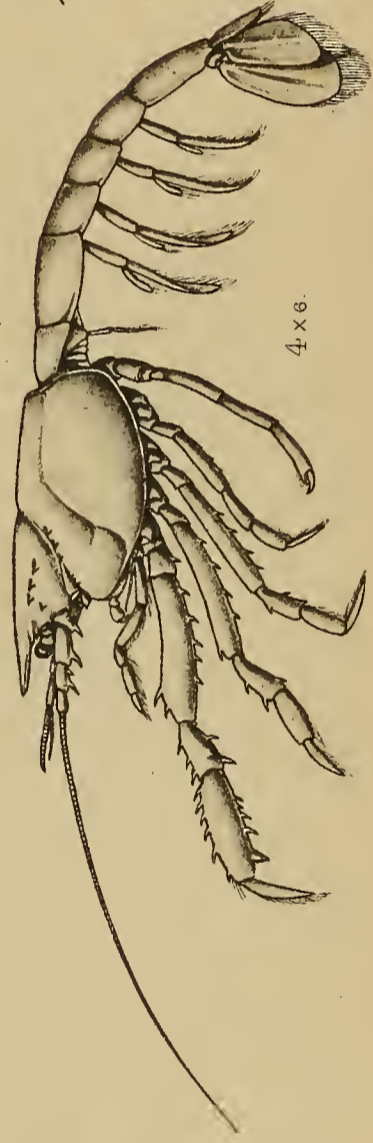
2ax4



2x1½



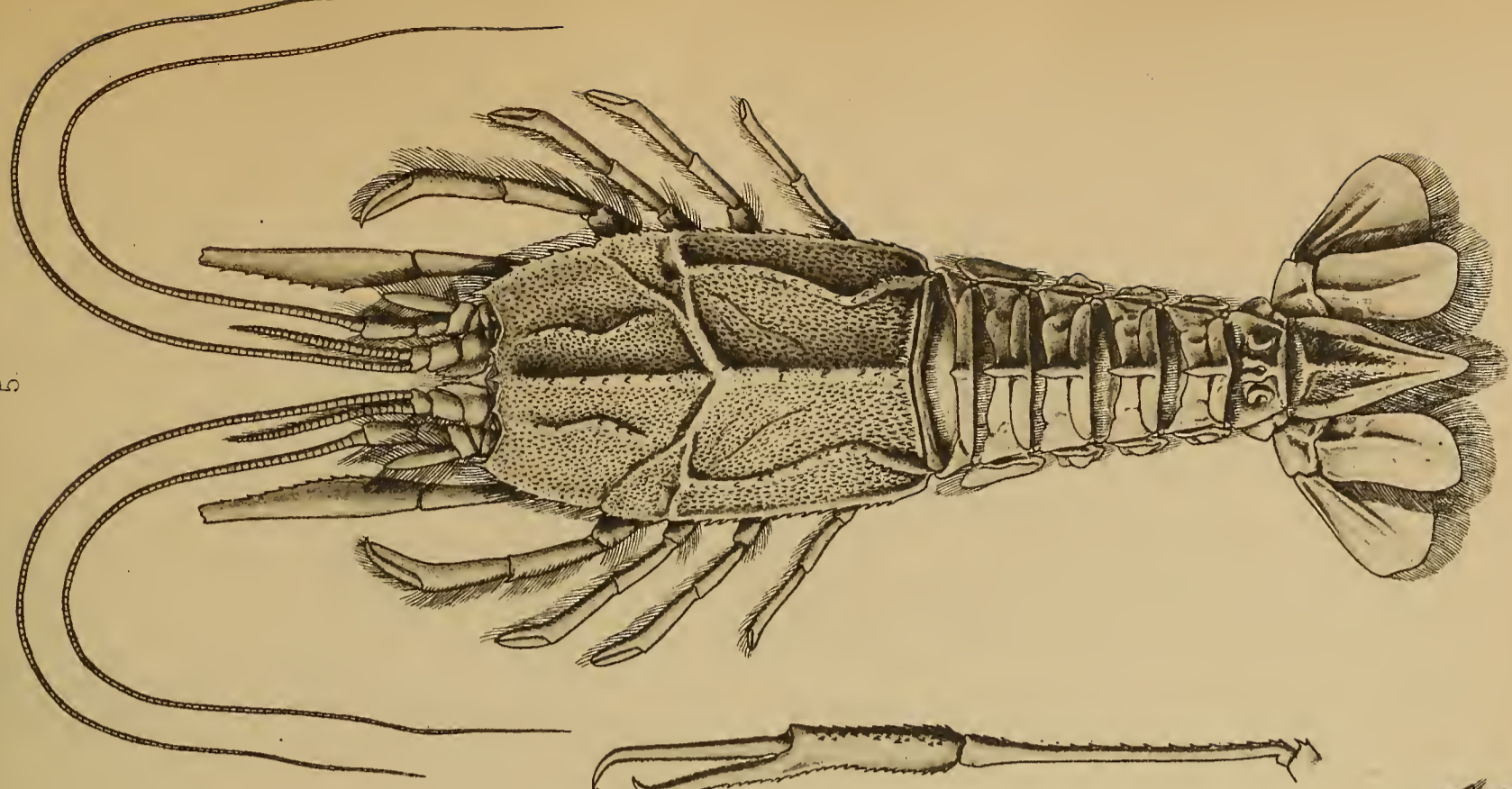
3x1½



4x6



5ax1½



5

1.1a. *Uroptychus nanophyes*, ♂, ♀. 2. *Calastacus longispinis*. 3. *Munidopsis* (*Orophorhynchus*) *ceratophthalmus*.

4. *Gebicula exigua*. 5. *Willemoesia indica*.

EXPLANATION OF PLATE.

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CRUSTACEA.
—♦—

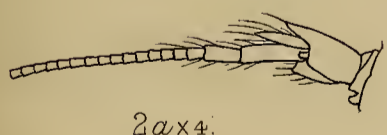
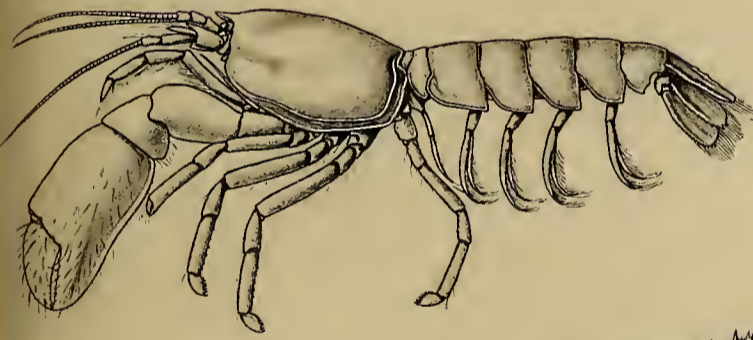
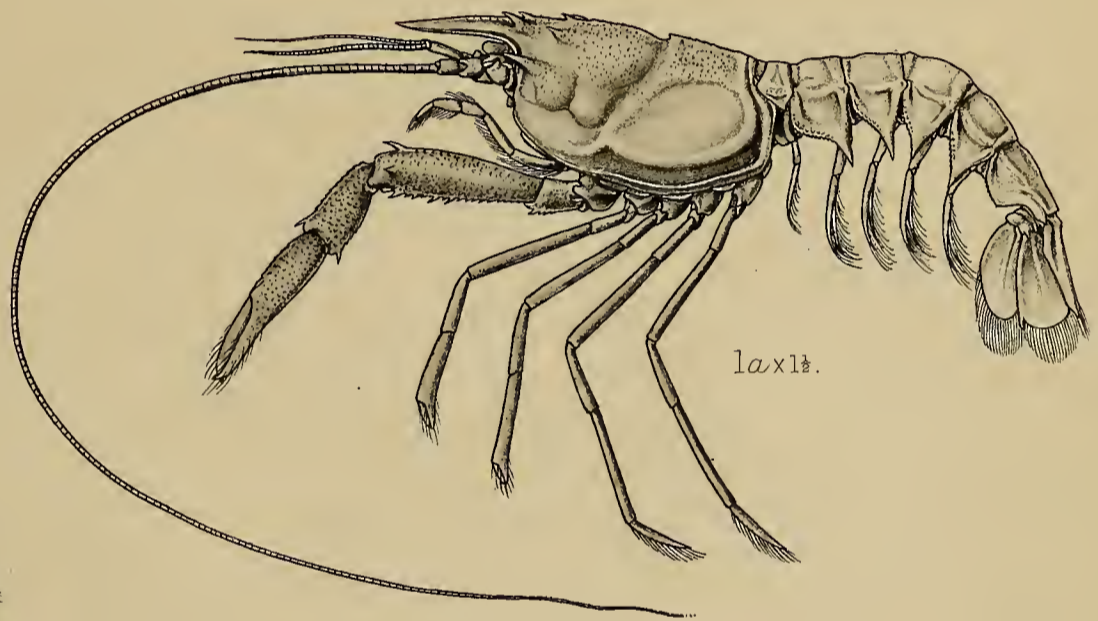
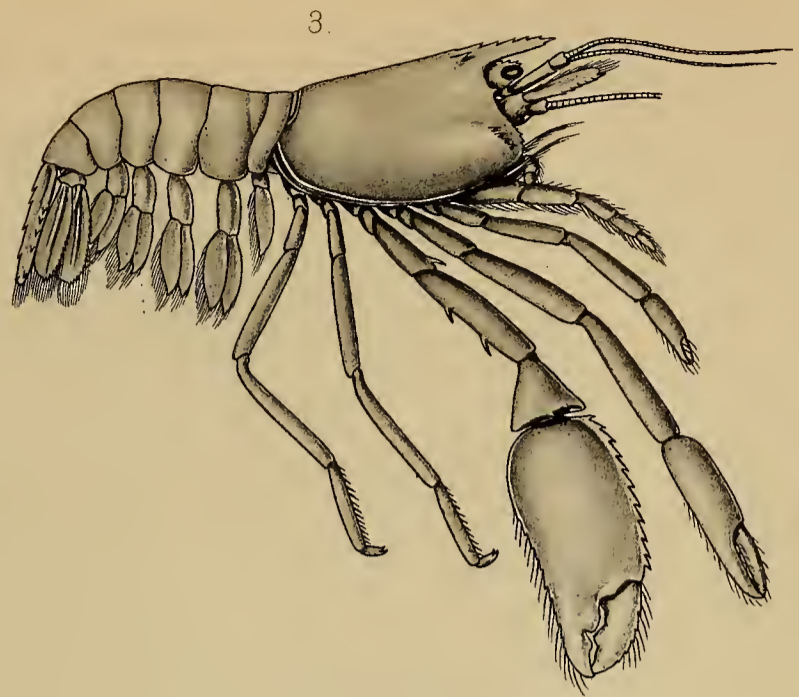
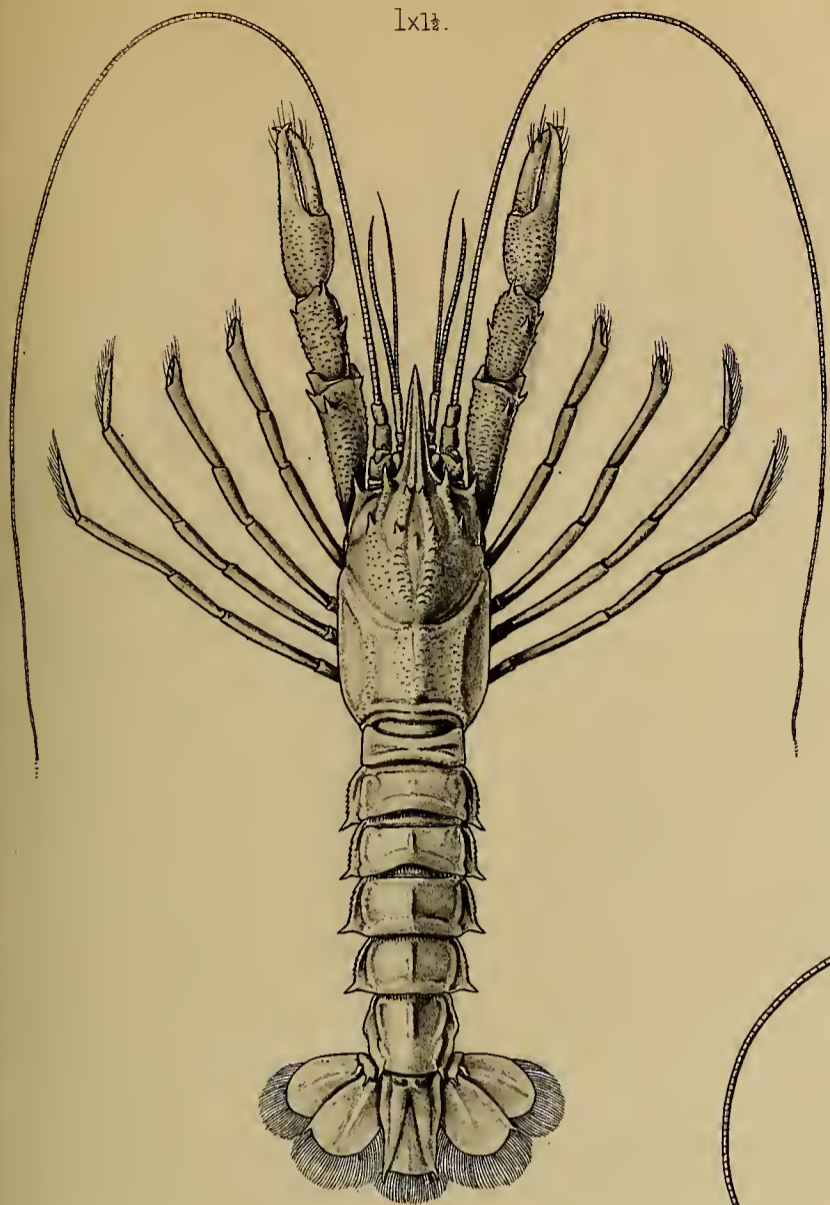
PLATE LVIII.

Figs. 1, 1a.—*Nephropsis ensirostris*, Alcock, Descriptive Catalogue of Indian Deep Sea Crustacea Decapoda Macrura and Anomala, p. 162.

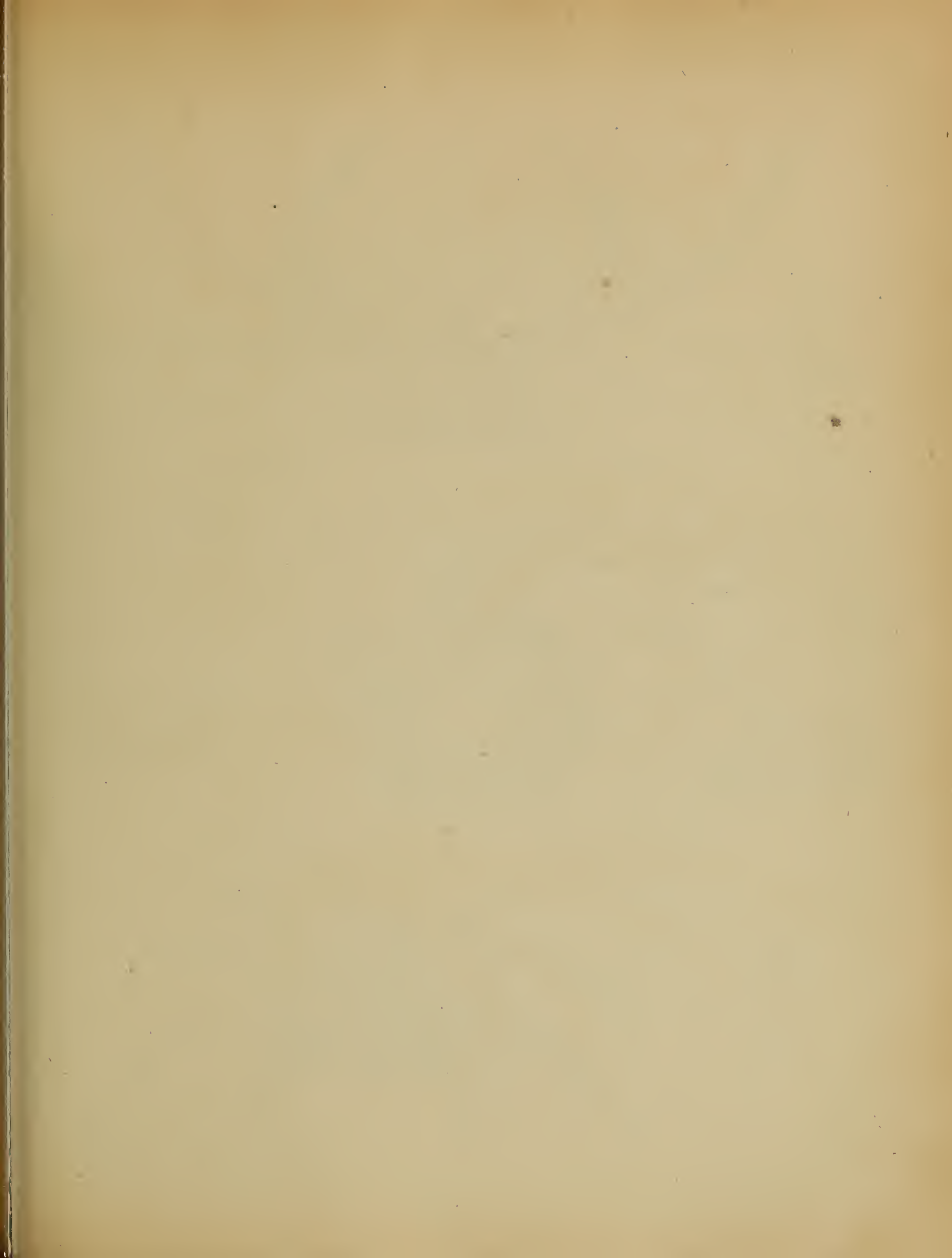
Figs. 2, 2a.—*Iconaxiopsis andamanensis*, Alcock. *Op. cit.*, p. 196.

Fig. 3.—*Spongiicola andamanica*, Alcock. *Op. cit.*, p. 148.

Figs. 4.—*Ptychogaster investigatoris*, Alc. & And. ♀. *Op. cit.*, p. 281.



1. *Nephropsis ensirostris*. 2. *Iconaxiopsis andamanensis*.
 3. *Spongicola andamanica*. 4. *Ptychogaster investigatoris*, ♀.



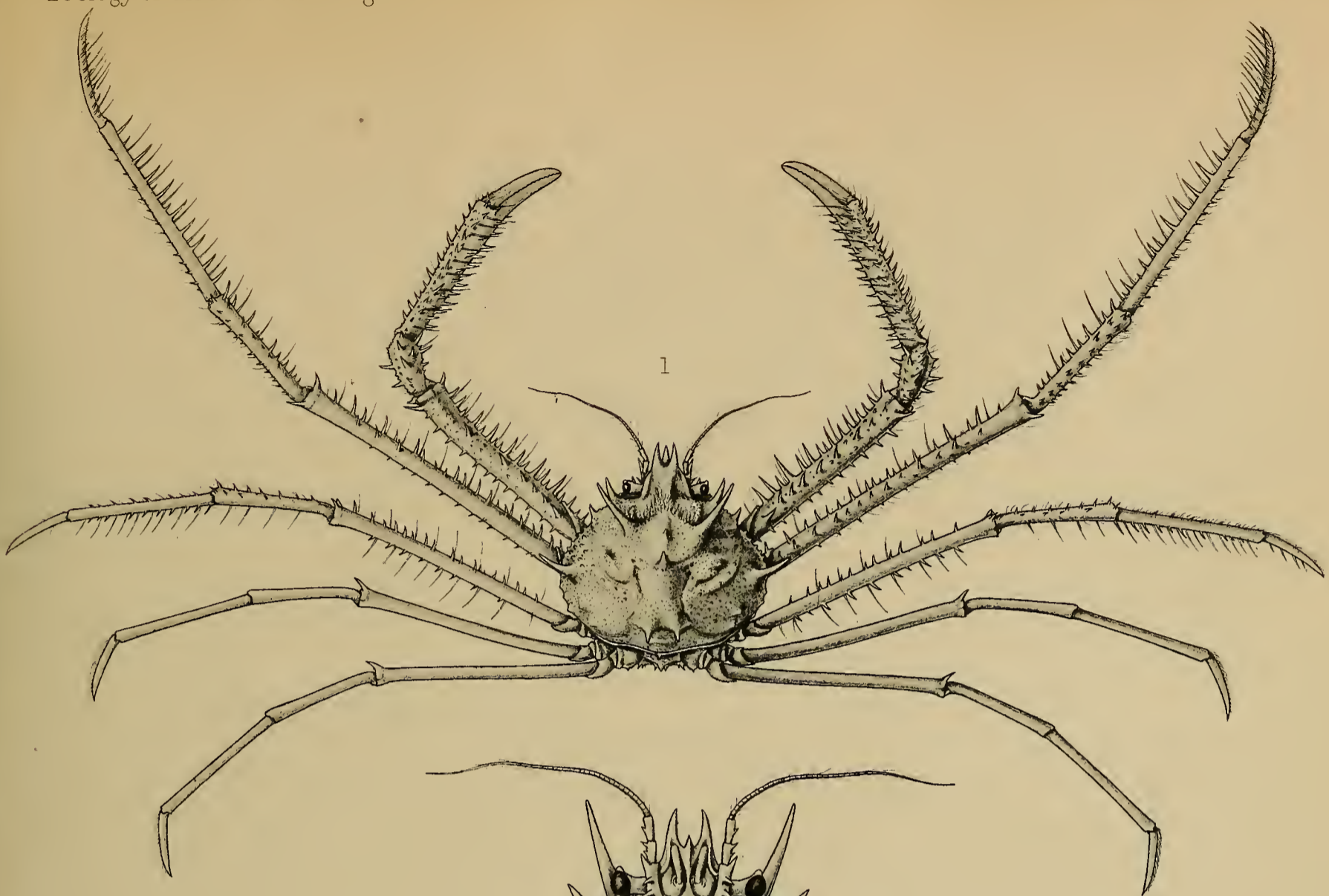
EXPLANATION OF PLATE.

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CRUSTACEA.
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PLATE LIX.

Figs. 1, 1a, 1b, 1c.—*Cyrtomaia goodridgei*, McArdle, ♂.
Annals and Magazine of Natural History, Series 7, Vol. vi, November, 1900, p. 472.

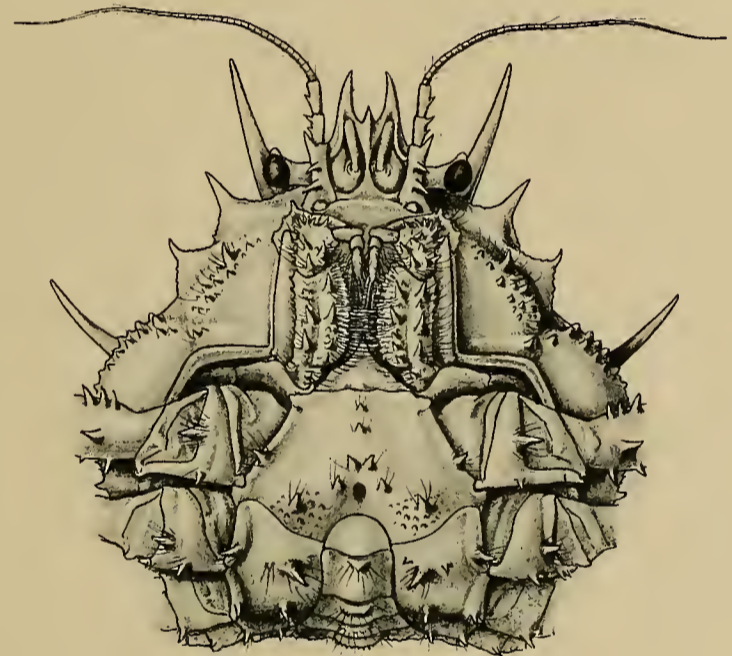
Figs. 2, 2a.—*Ethusa hirsuta*, McArdle. *Op. cit.*, p. 474.



1



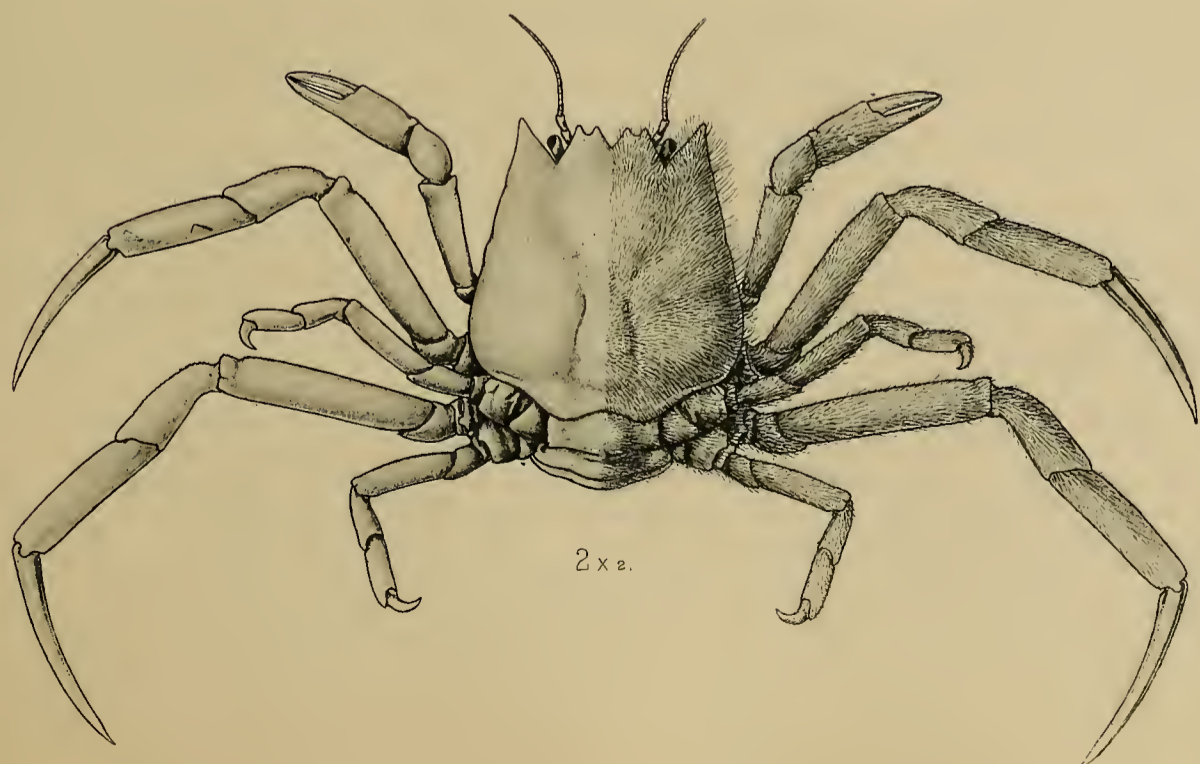
1b x 2.



1a x 2.



1c x 1 1/2



2 x 2.



2a x 2.

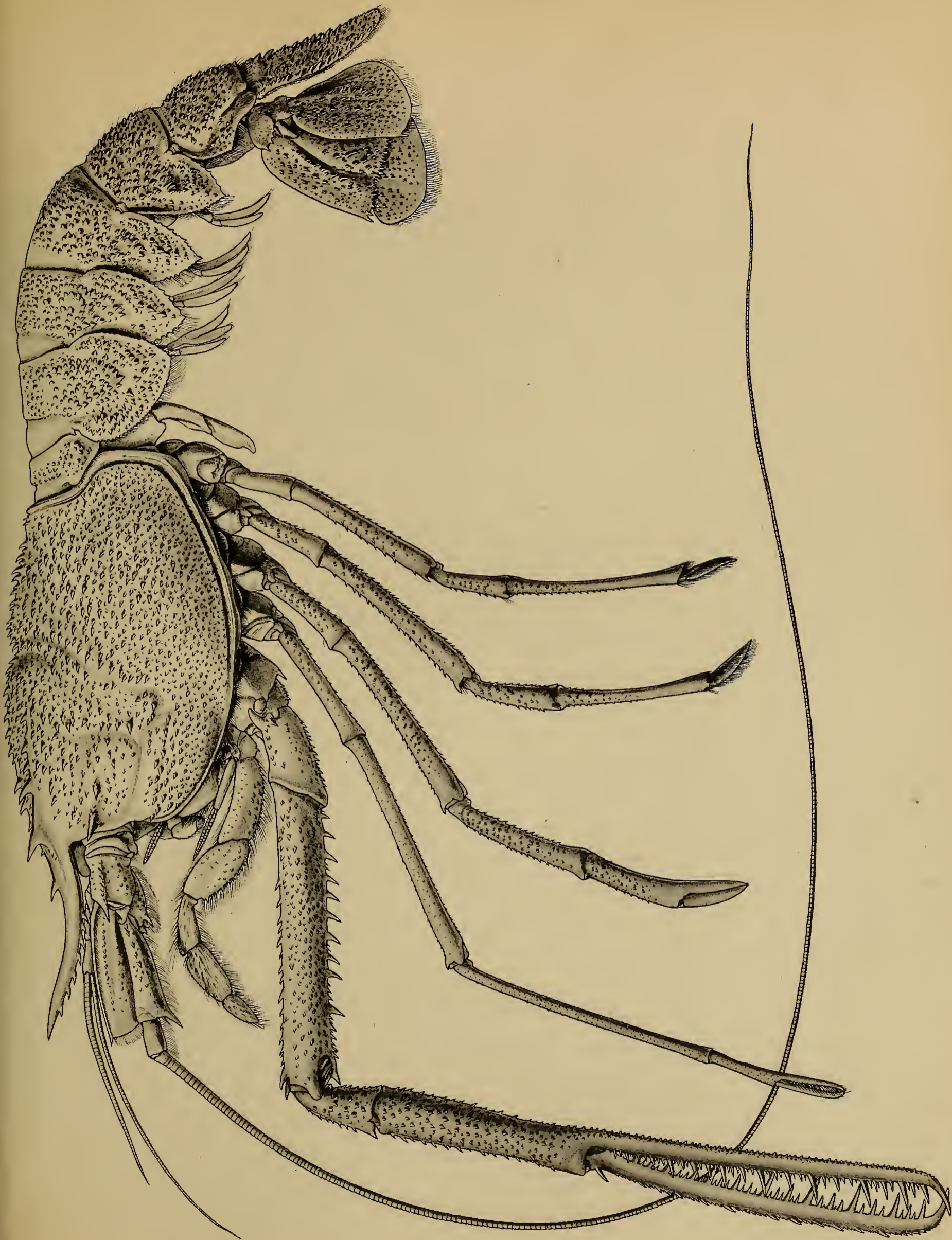
1. *Cyrtomaia goodridgèi*, ♂. 2. *Ethusa hirsuta*.

EXPLANATION OF PLATE.

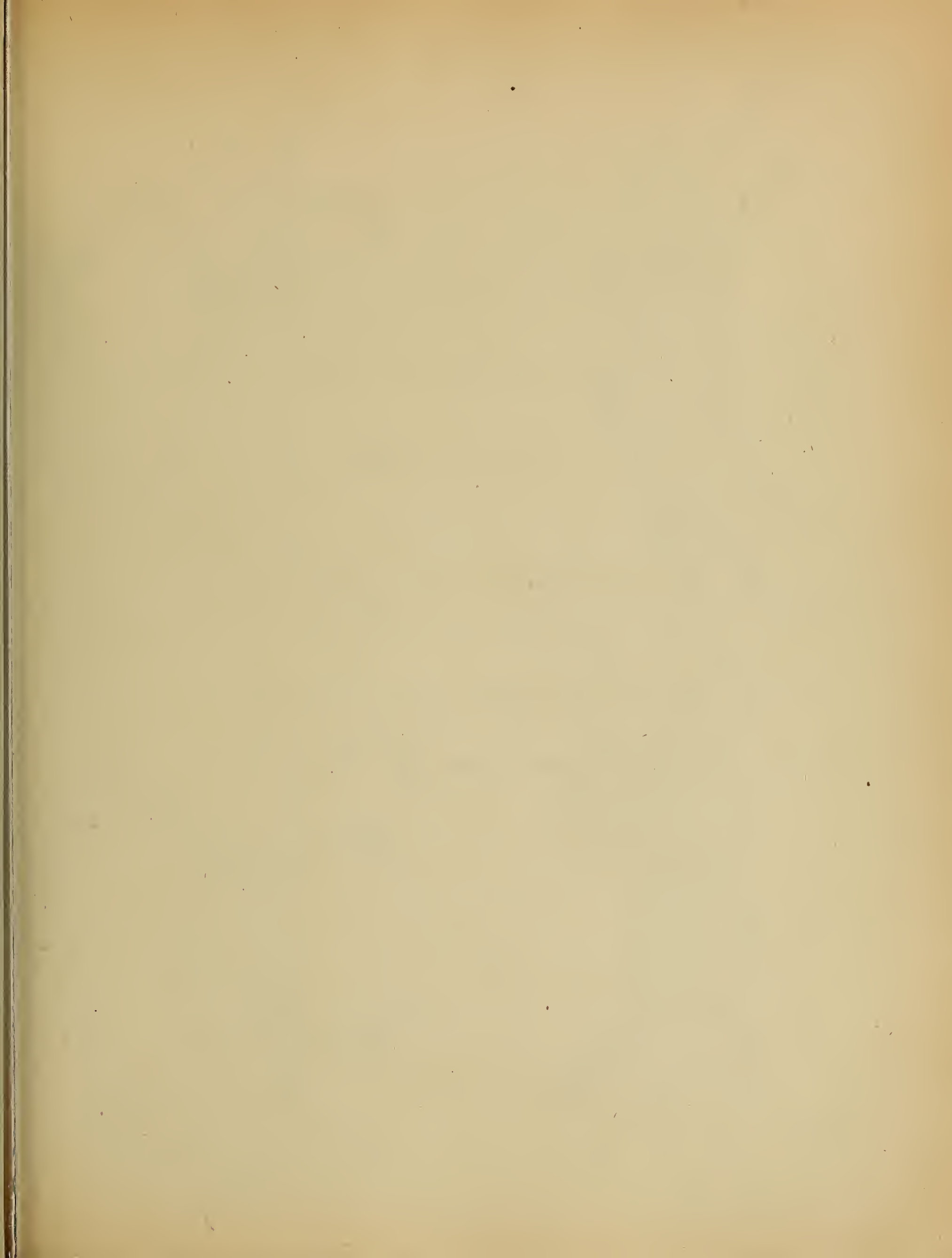
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CRUSTACEA.
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PLATE LX.

Phoberus cæcus, var. *tenuimanus*, Spence Bate. See Alcock, Descriptive Catalogue of Indian Deep Sea Crustacea Decapoda Macrura and Anomala, p. 156.



Phoberus caecus, var. *tenuimanus*.



EXPLANATION OF PLATE.

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◆—

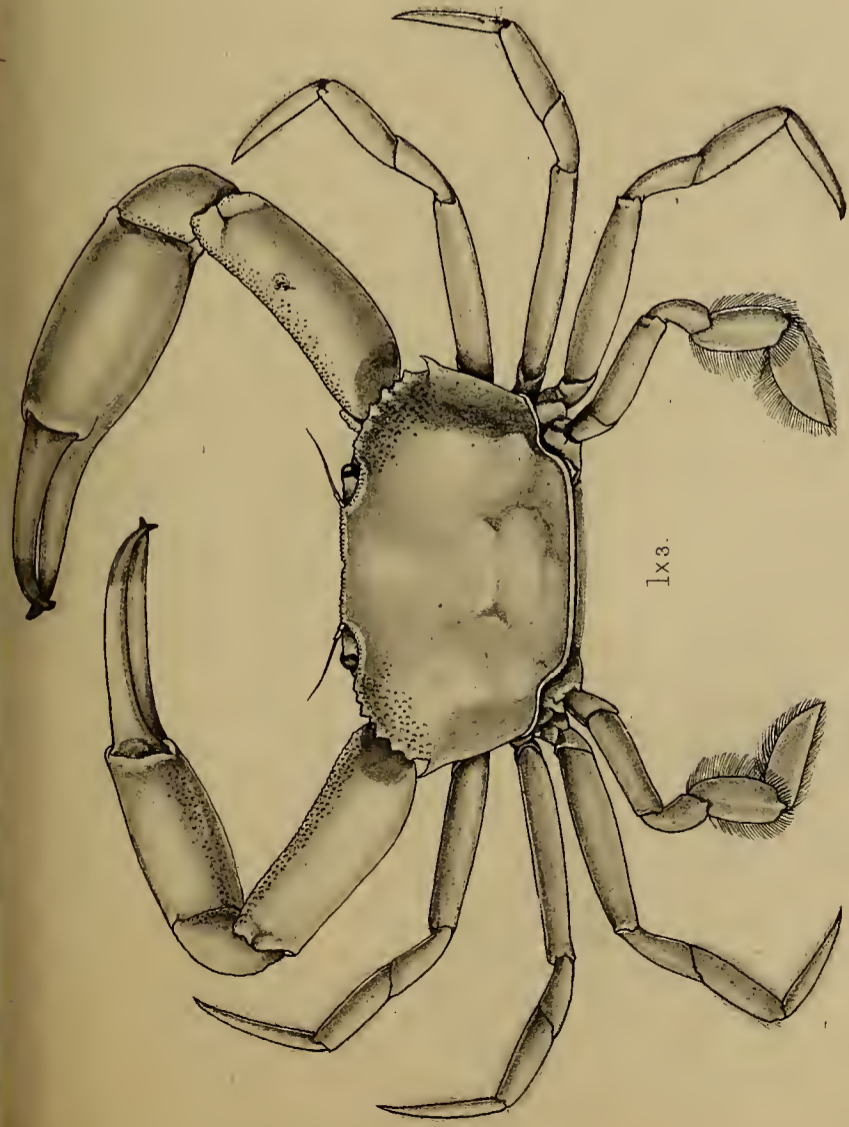
PLATE LXI.

Fig. 1.—*Libystes edwardsi*, Alcock, Materials for a Carcinological Fauna of India, No. 6. The Brachyura Catometopa or Grapsoidea. Journal of the Asiatic Society of Bengal, Vol. LXIX, part 2, 1900, p. 306.

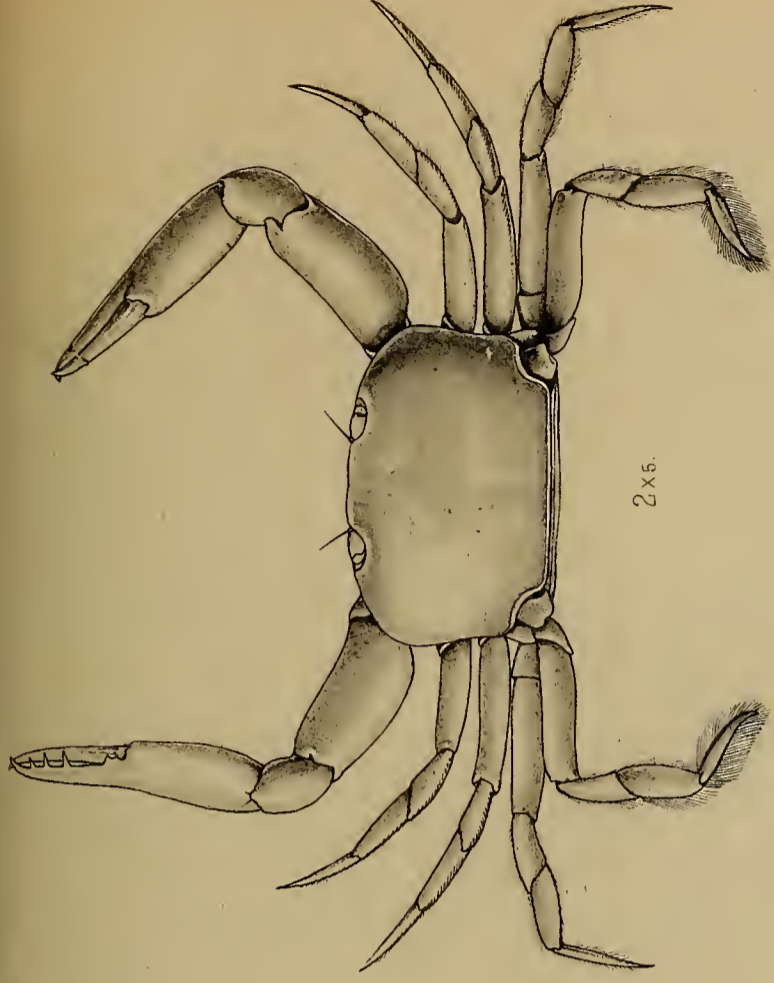
Fig. 2.—*Libystes alphonsi*, Alcock. *Op. cit.*, p. 306.

Fig. 3.—*Notonyx vitreus*, Alcock. *Op. cit.*, p. 319.

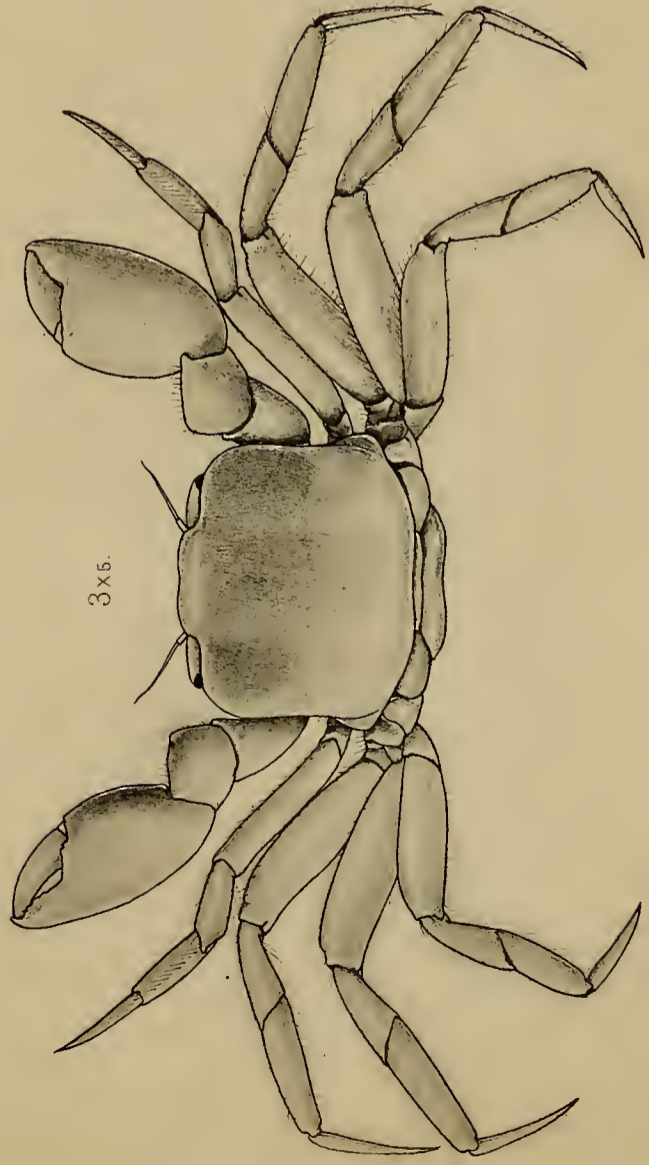
Fig. 4.—*Ceratoplax hispida*, Alcock. *Op. cit.*, p. 321.



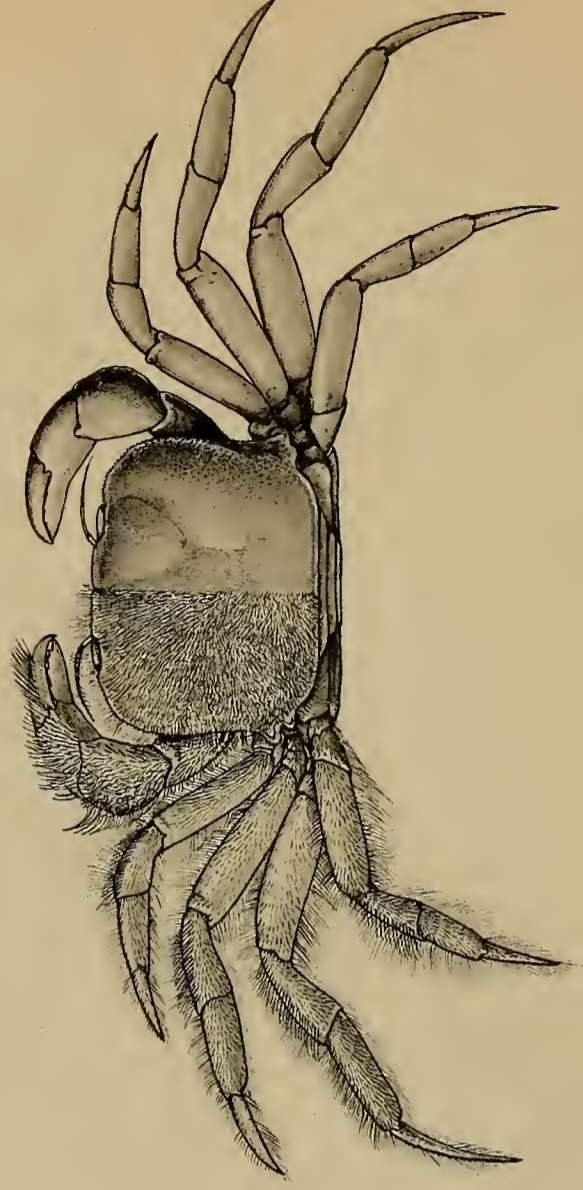
1x3.



2x5.



3x6.



4x3.

1. *Libystes edwardsi*. 2. *Libystes alphonsi*. 3. *Notonyx vitreus*. 4. *Ceratoplax hispida*.

EXPLANATION OF PLATE.

CRUSTACEA.

PLATE LXII.

Figs. 1, 1a, 1b.—*Lambdophallus sexpes*, Alcock, Materials for a Carcinological Fauna of India, No. 6. The Brachyura Catometopa or Grapsoidea. Journal of the Asiatic Society of Bengal, Vol. LXIX, part 2, 1900, p. 330.

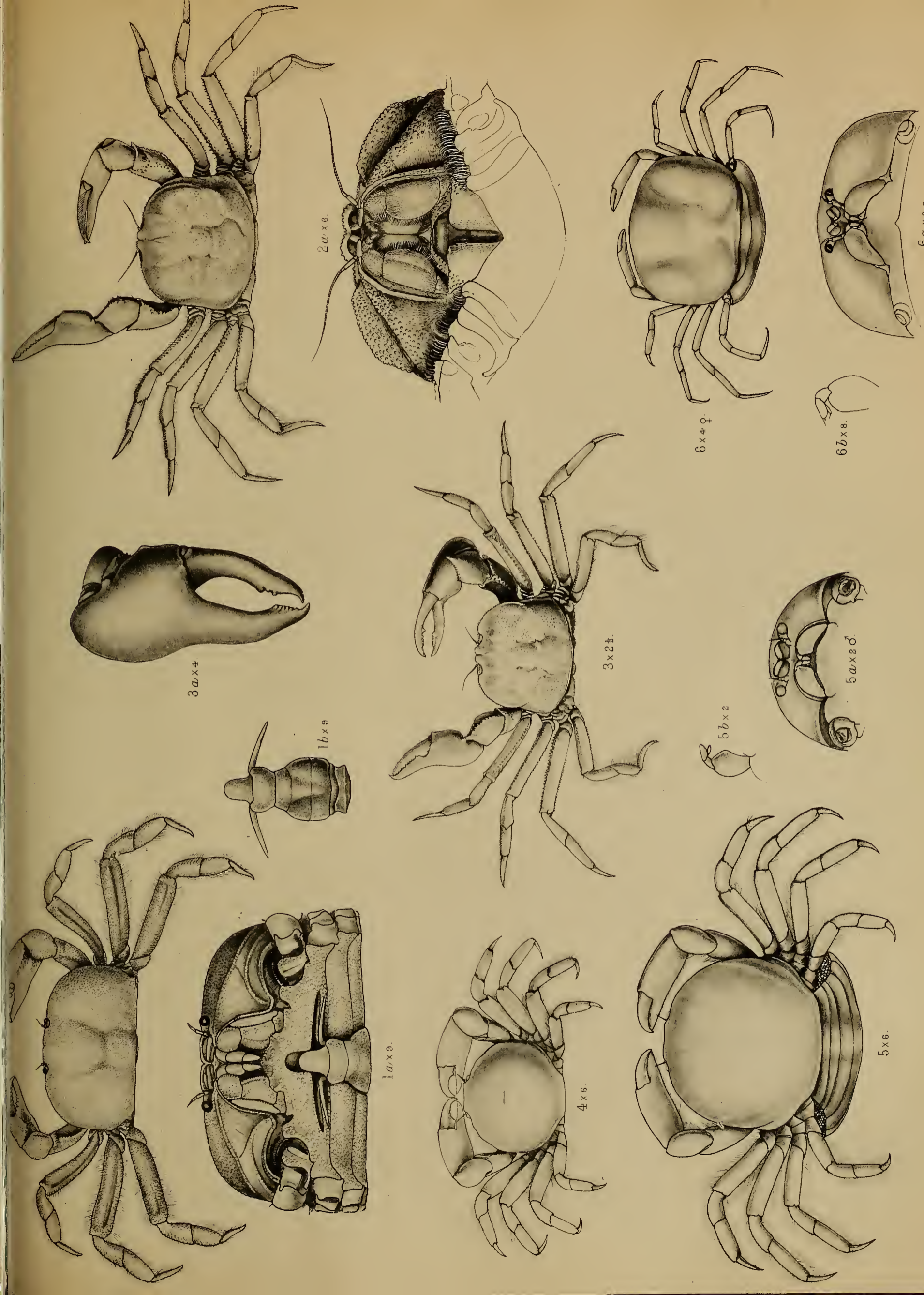
Figs. 2, 2a.—*Chasmocarcinops gelasimoides*, Alcock, ♀. *Op. cit.*, p. 334.

Figs. 3, 3a.—*Chasmocarcinops gelasimoides*, Alcock, ♂, *loc. admodum cit.*

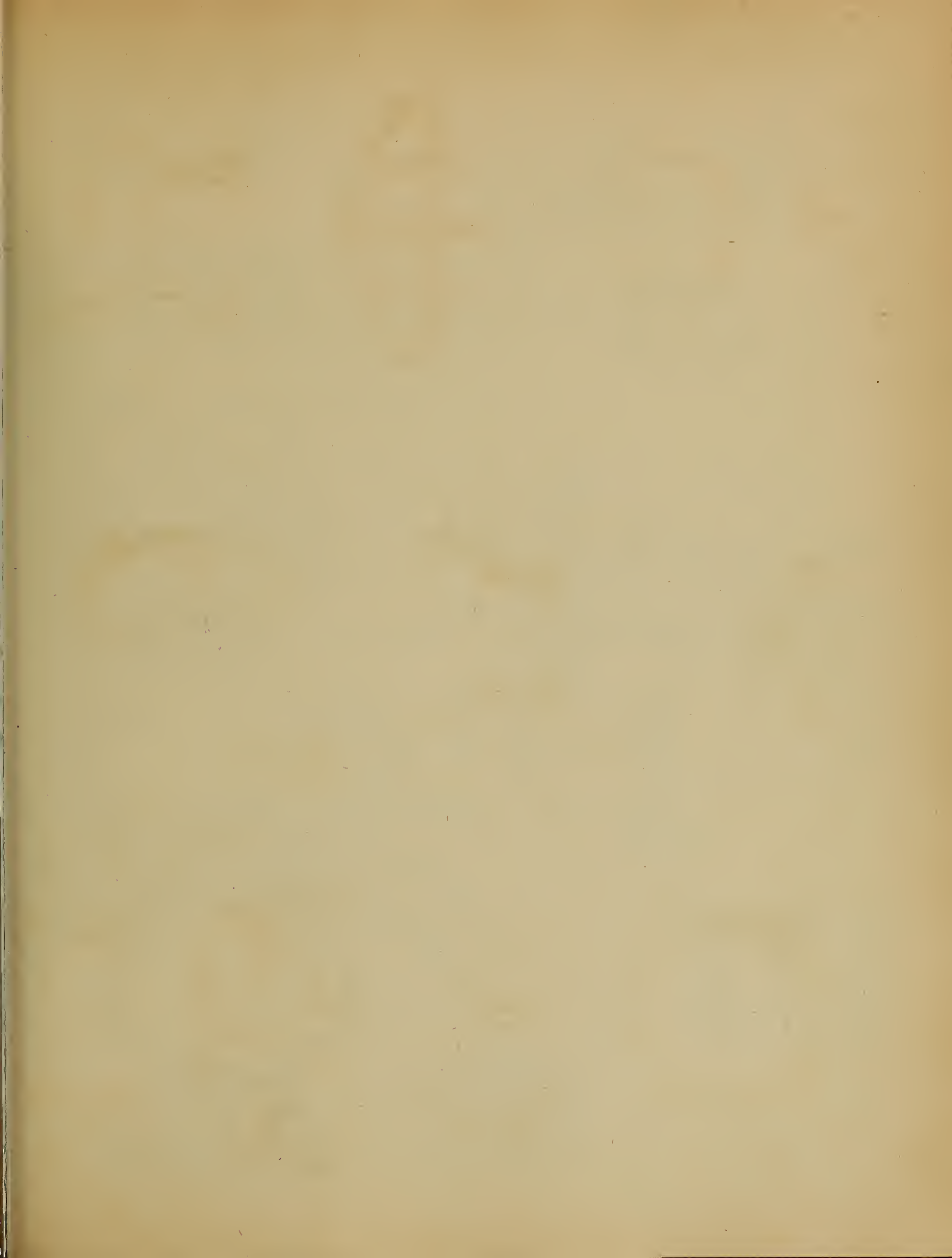
Fig. 4.—*Pinnotheres mactricola*, Alcock, ♂. *Op. cit.*, p. 339.

Figs. 5, 5a, 5b.—*Pinnotheres mactricola*, Alcock, ♀ *loc. admodum cit.*

Figs. 6, 6a, 6b.—*Pinnotheres purpureus*, Alcock, ♀. *loc. admodum cit.*



1. *Lambdophallus sexpes*. 2. *Chasmocarcinops gelasimoides*, ♂. 3. *Chasmocarcinops gelasimoides*, ♀. 4. *Pinnotheres mactricola*, ♂. 5. *Pinnotheres mactricola*, ♀. 6. *Pinnotheres purpurus*, ♀.



EXPLANATION OF PLATE.

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PLATE LXIII.

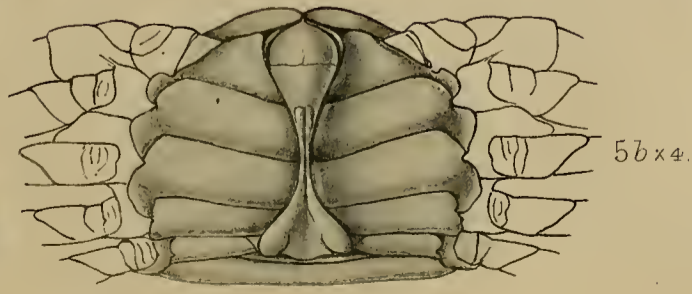
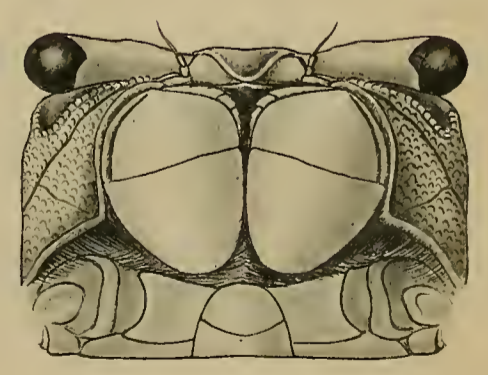
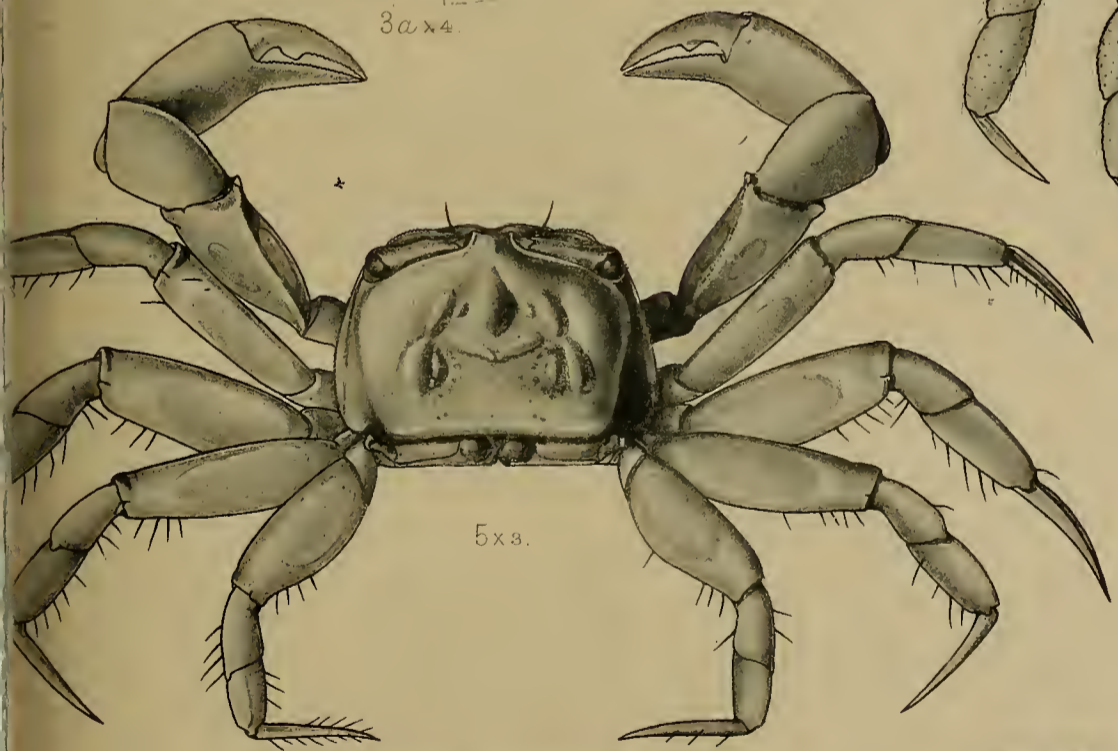
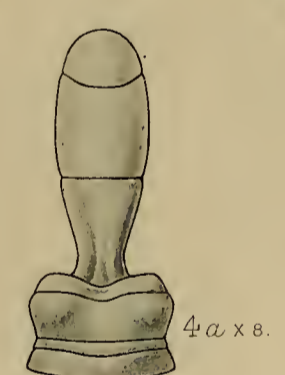
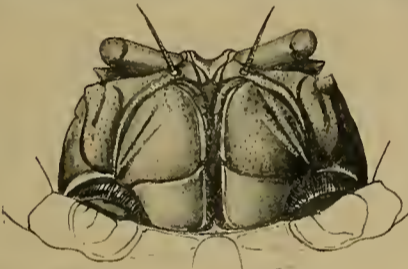
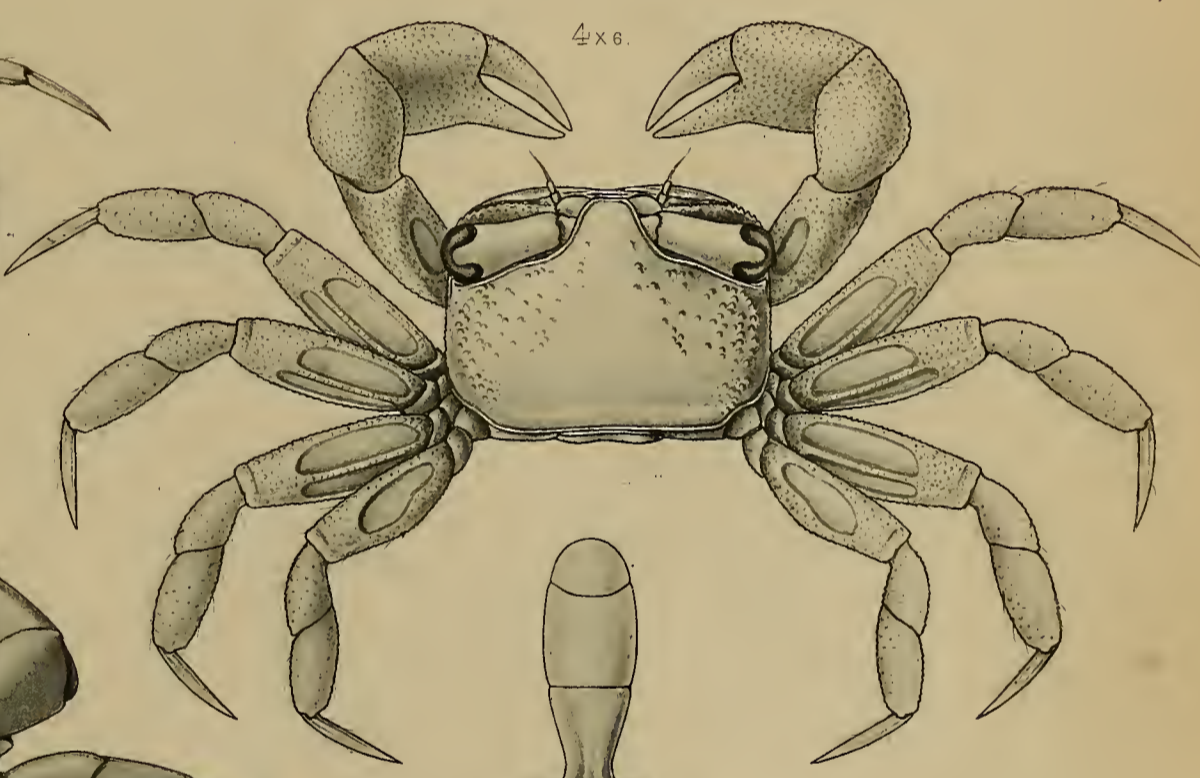
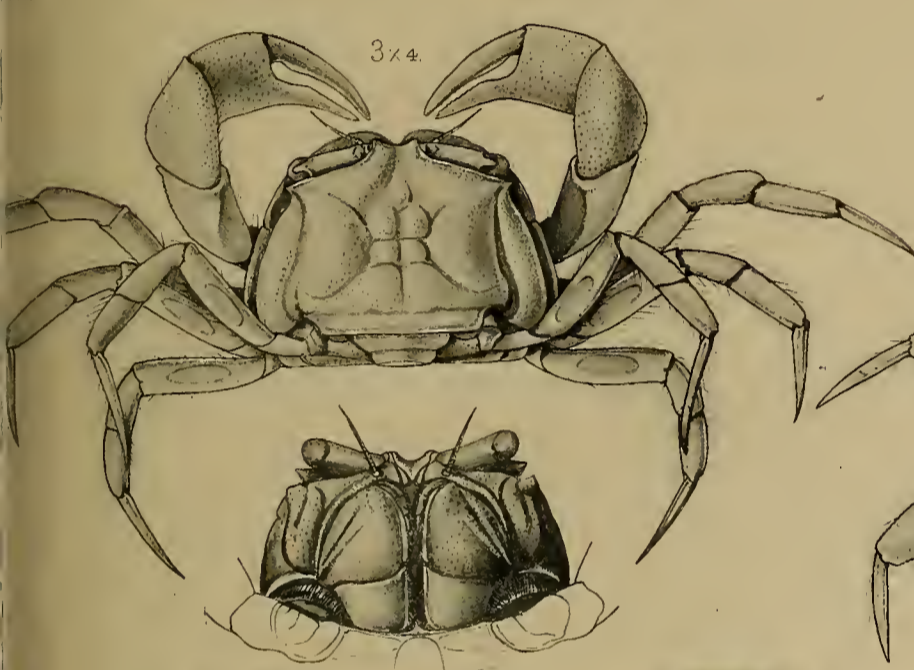
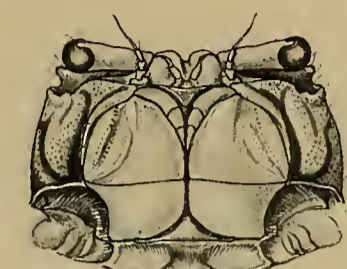
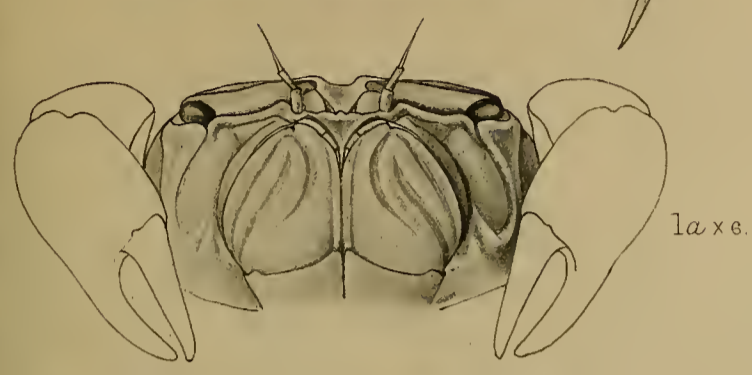
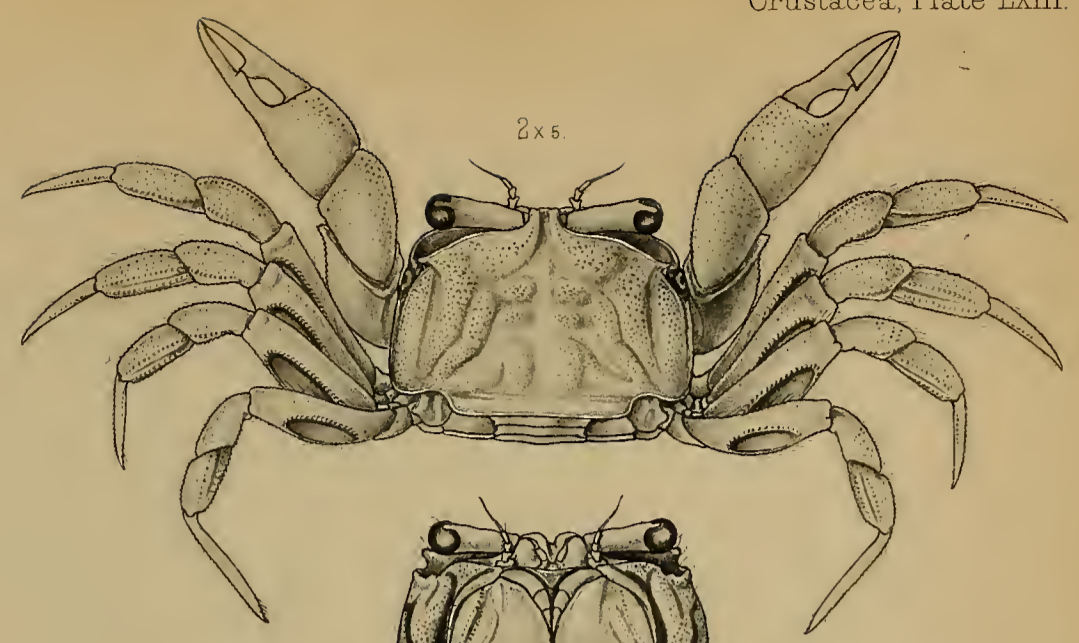
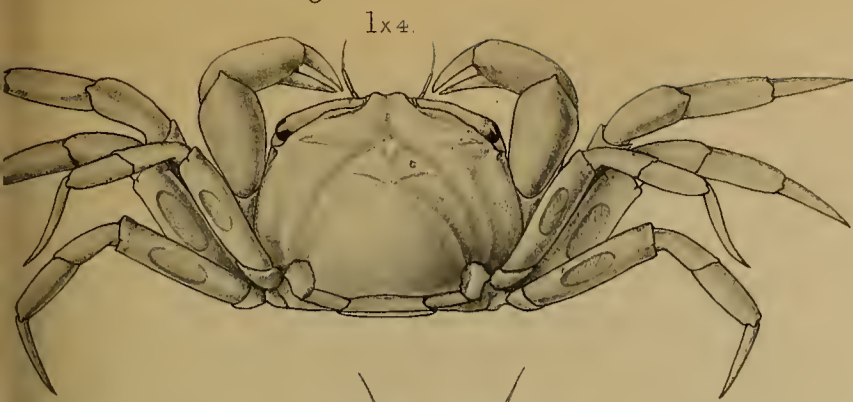
Figs. 1, 1a, 1b.—*Dotilla affinis*, Alcock, Materials for a Carcinological Fauna of India, No. 6. The Brachyura Catometopa or Grapsoidea. Journal of the Asiatic Society of Bengal, Vol. LXIX, part 2, 1900, p. 365.

Figs. 2, 2a.—*Dotilla clepsydrodactylus*, Alcock. *Op. cit.*, p. 367.

Figs. 3, 3a.—*Dotilla blanfordi*, Alcock. | *Op. cit.*, p. 366.

Figs. 4, 4a, 4b.—*Scopimera investigatoris*, Alcock. *Op. cit.*, p. 369.

Figs. 5, 5a, 5b.—*Scopimera crabricauda*, Alcock. *Op. cit.*, p. 370.



1. *Dotilla affinis*. 2. *Dotilla clepsydrodactylus*. 3. *Dotilla blanfordi*.
4. *Scopinera investigatoris*. 5. *Scopinera crabricauda*.

EXPLANATION OF PLATE.

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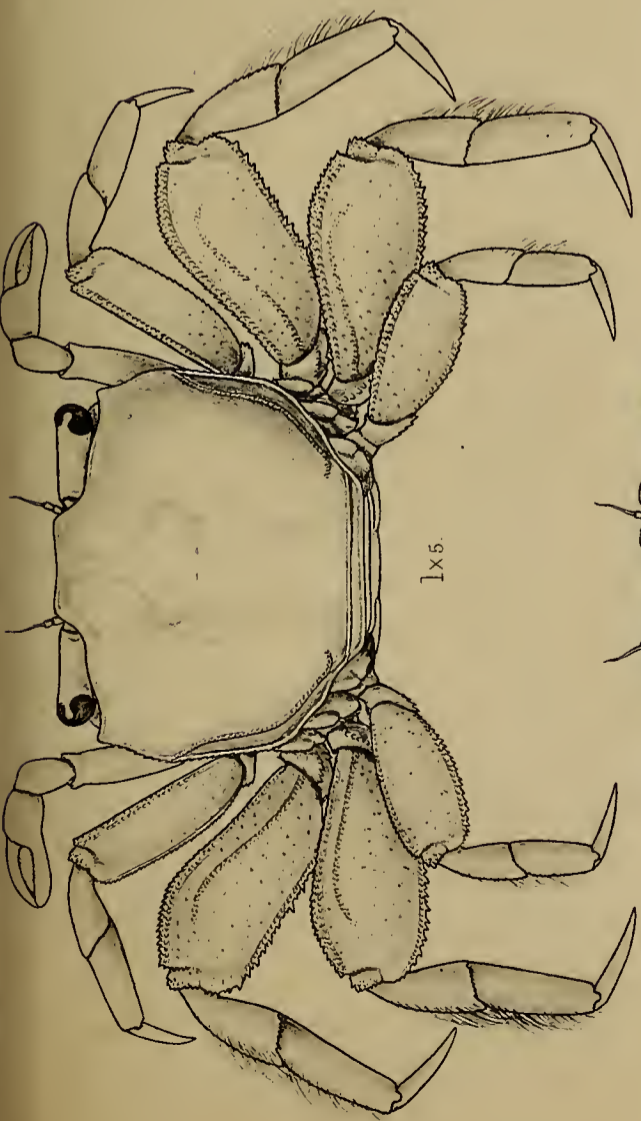
PLATE LXIV.

Figs. 1, 1a.—*Clistostoma dotilliforme*, Alcock, Materials for a Carcinological Fauna of India, No. 6. The Brachyura Catometopa or Grapsoidea. Journal of the Asiatic Society of Bengal, Vol. LXIX, part 2, 1900, p. 373.

Figs. 2, 2a, 2b, 2c.—*Tylodiplax indica*, Alcock, *Op. cit.*, p. 374.

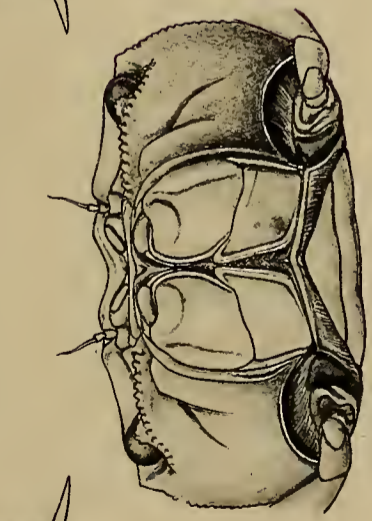
Fig. 3.—*Hymenicus wood-masoni*, Alcock, ♂. *Op. cit.*, p. 388.

Fig. 4.—*Elamena sindensis*, Alcock, ♂. *Op. cit.*, p. 386.

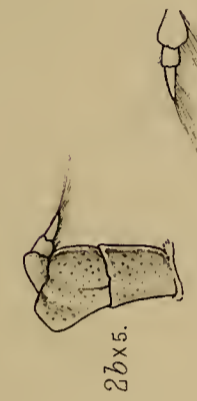


1x5.

2x3.



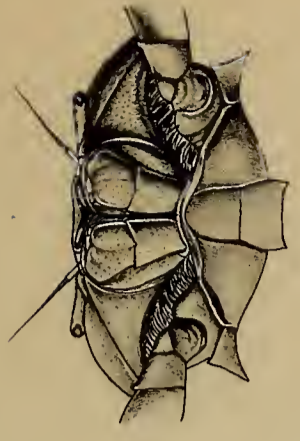
1ax5.



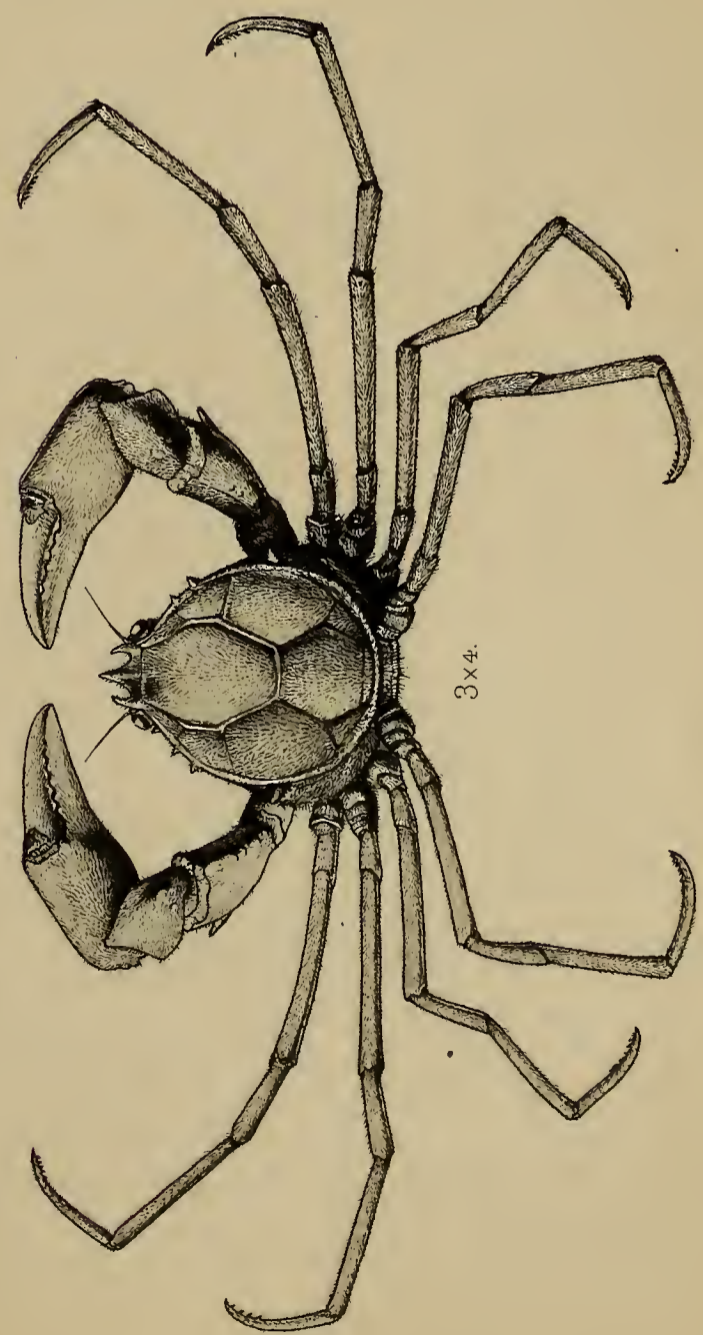
2bx5.



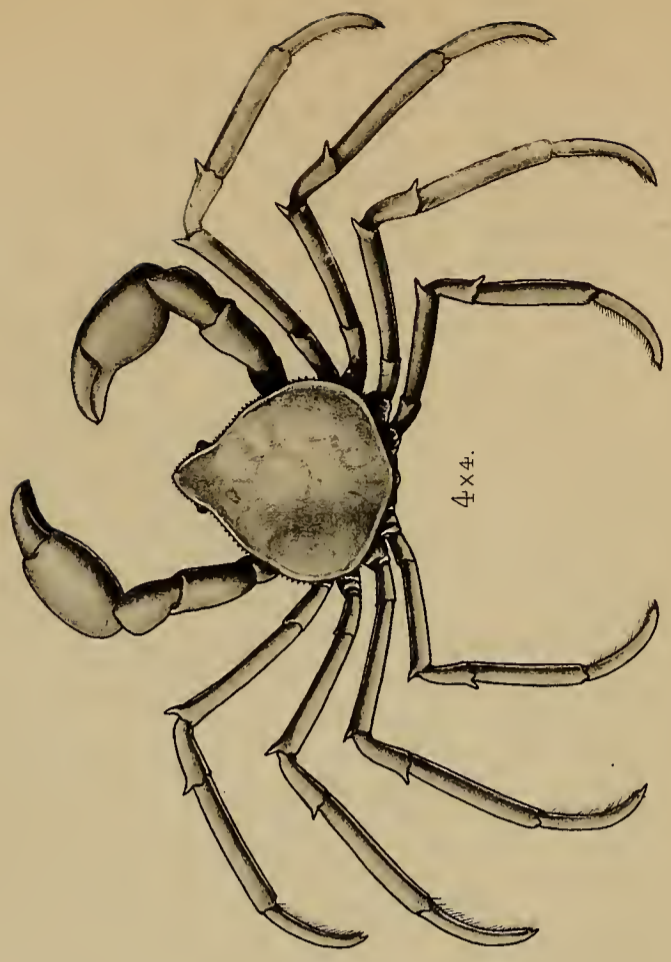
2c.



2ax4.

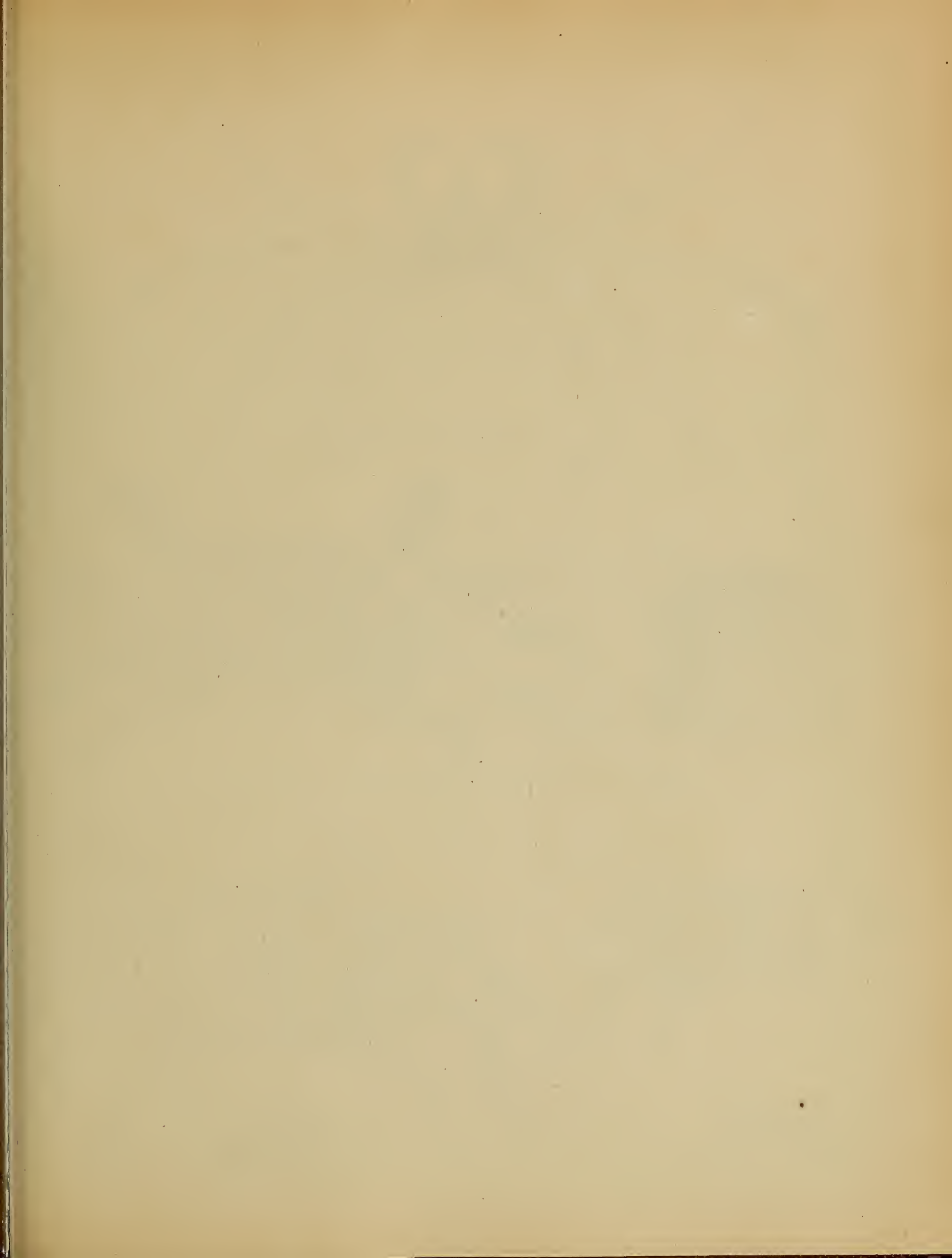


3x4.



4x4.

1. *Chistostoma dotilliforme*. 2. *Tylodiplax indica*. 3. *Hymenicus wood-masoni*, ♂. 4. *Elamene sindensis*, ♂



EXPLANATION OF PLATE.

CRUSTACEA.

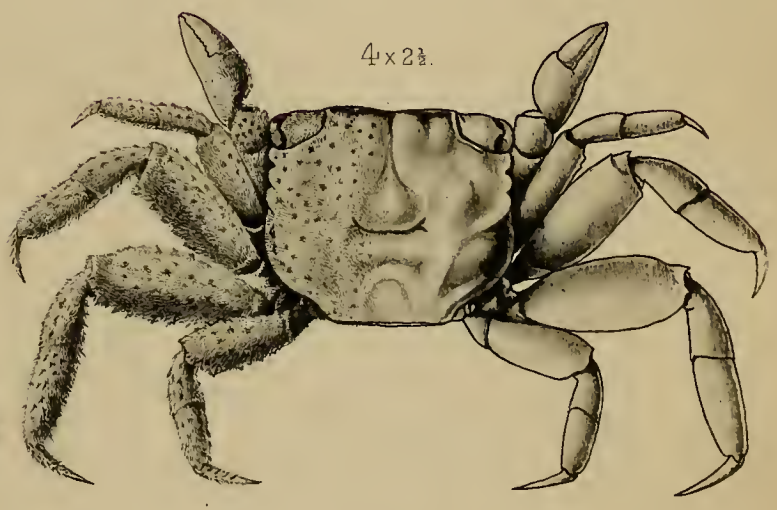
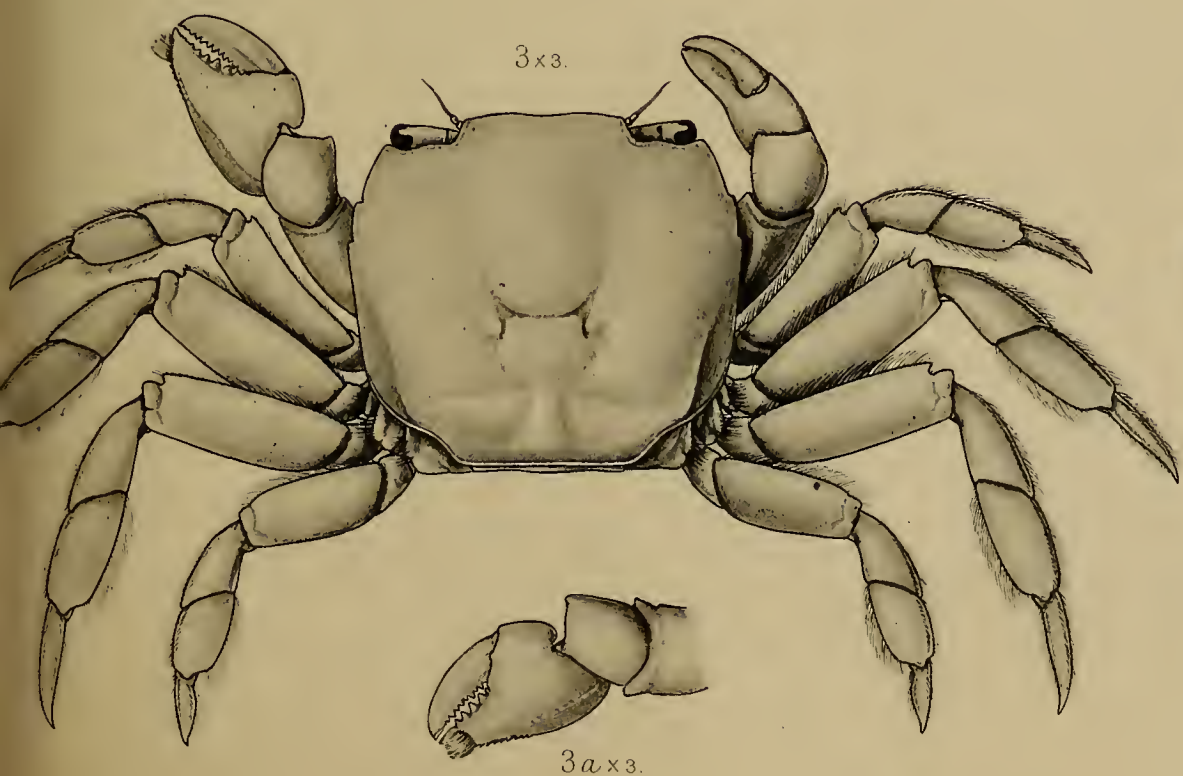
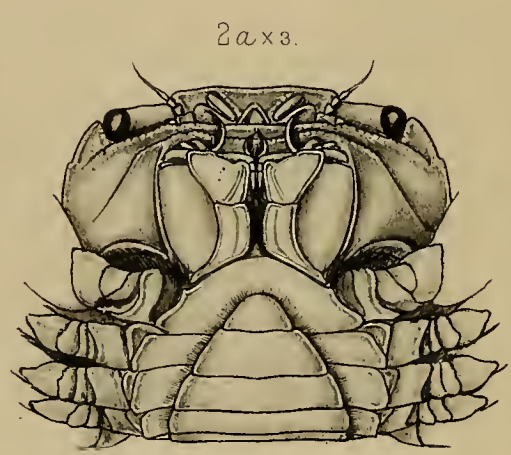
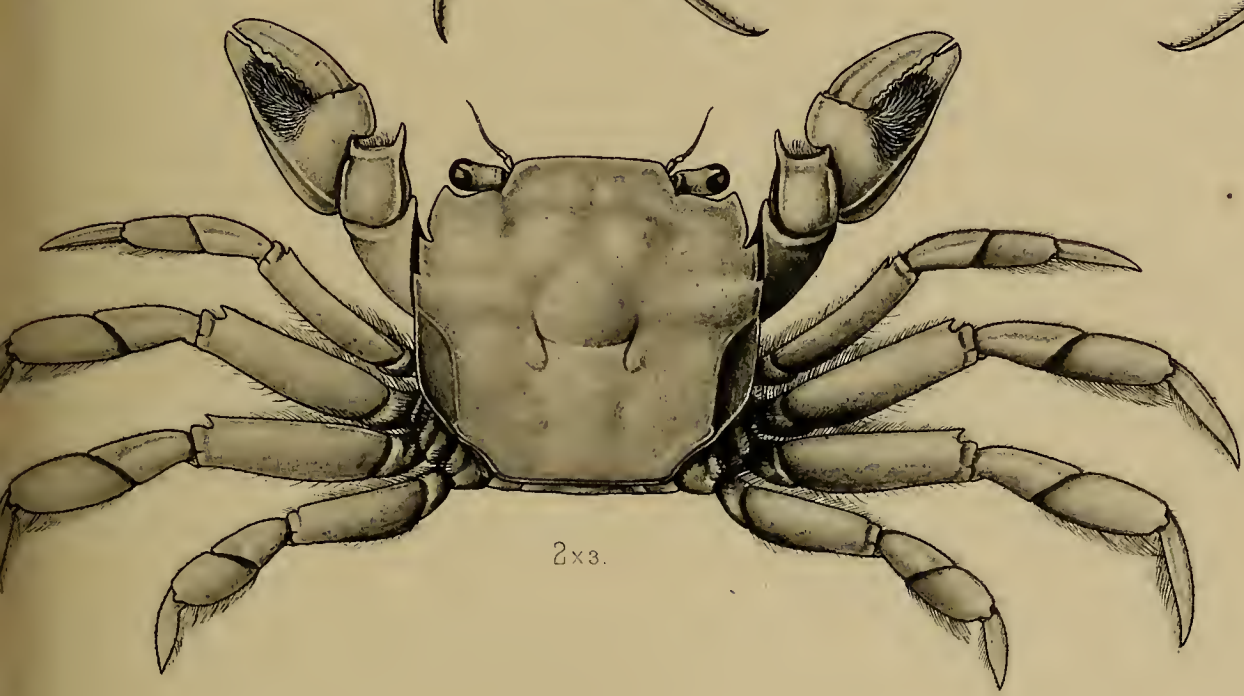
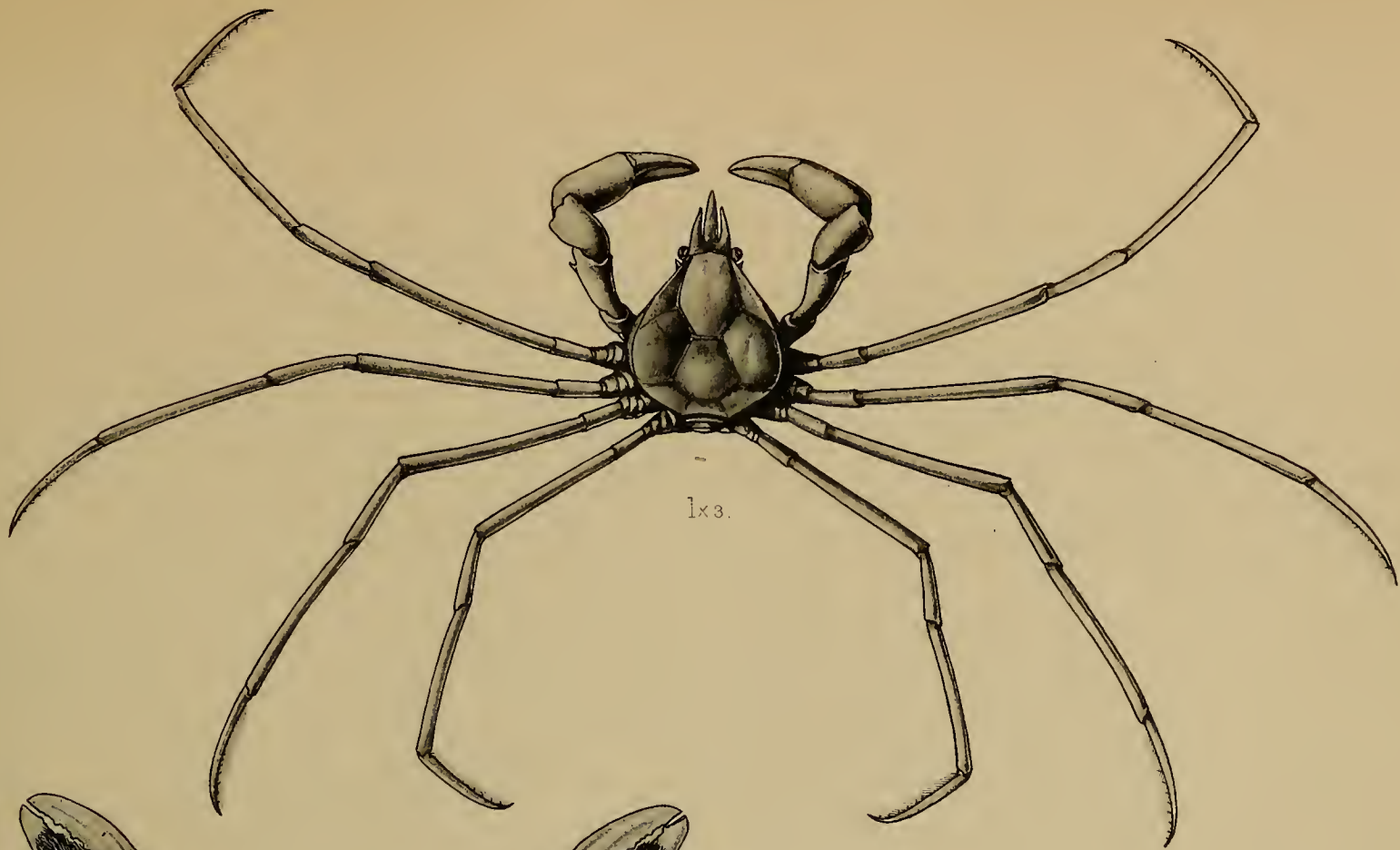
PLATE LXV.

Fig. 1.—*Hymenicus inachoides*, Alcock ♂. Materials for a Carcinological Fauna of India, No. 6. The Brachyura Catometopa or Grapsoidea. Journal of the Asiatic Society of Bengal, Vol. LXIX, part 2, 1900, p. 388.

Figs. 2, 2a.—*Ptychognathus onyx*, Alcock. *Op. cit.*, p. 404.

Figs. 3, 3a.—*Ptychognathus andamanica*, Alcock, *loc. admodum cit.*

Figs. 4, 4a.—*Sesarma lanatum*, Alcock ♂. *Op. cit.*, p. 418.



1 *Hymenicus inachoides*, ♂. 2 *Ptychognathus onyx*.
 3 *Ptychognathus andamanica*. 4 *Sesarma lanatum*, ♂



EXPLANATION OF PLATE.

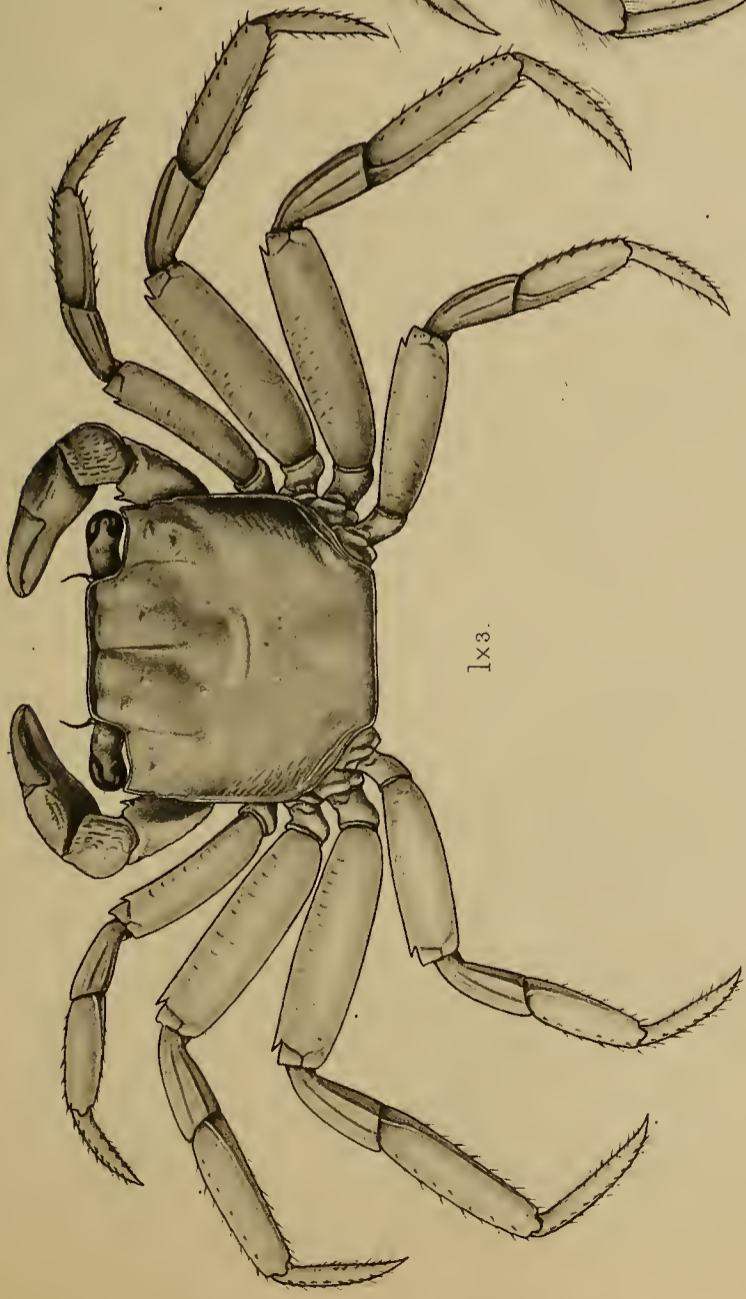
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CRUSTACEA.
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PLATE LXVI.

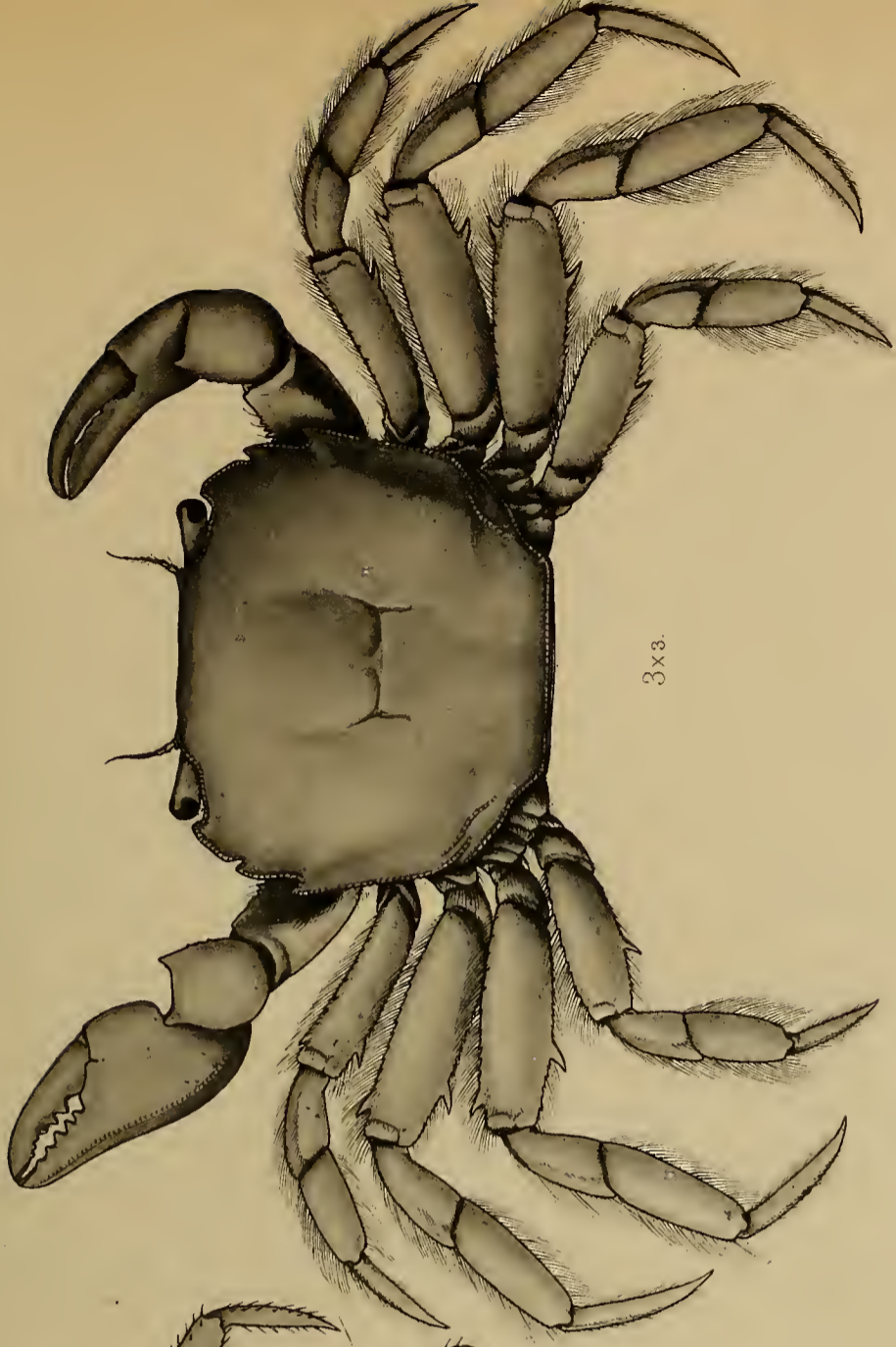
Fig. 1.—*Sesarma finni*, Alcock, Materials for a Carcinological Fauna of India, No. 6. The Brachyura Catometopa or Grapsoidea. Journal of the Asiatic Society of Bengal, Vol. LXIX, part 2, 1900, p. 424.

Fig. 2.—*Sesarma latifemur*, Alcock. *Op. cit.*, p. 421.

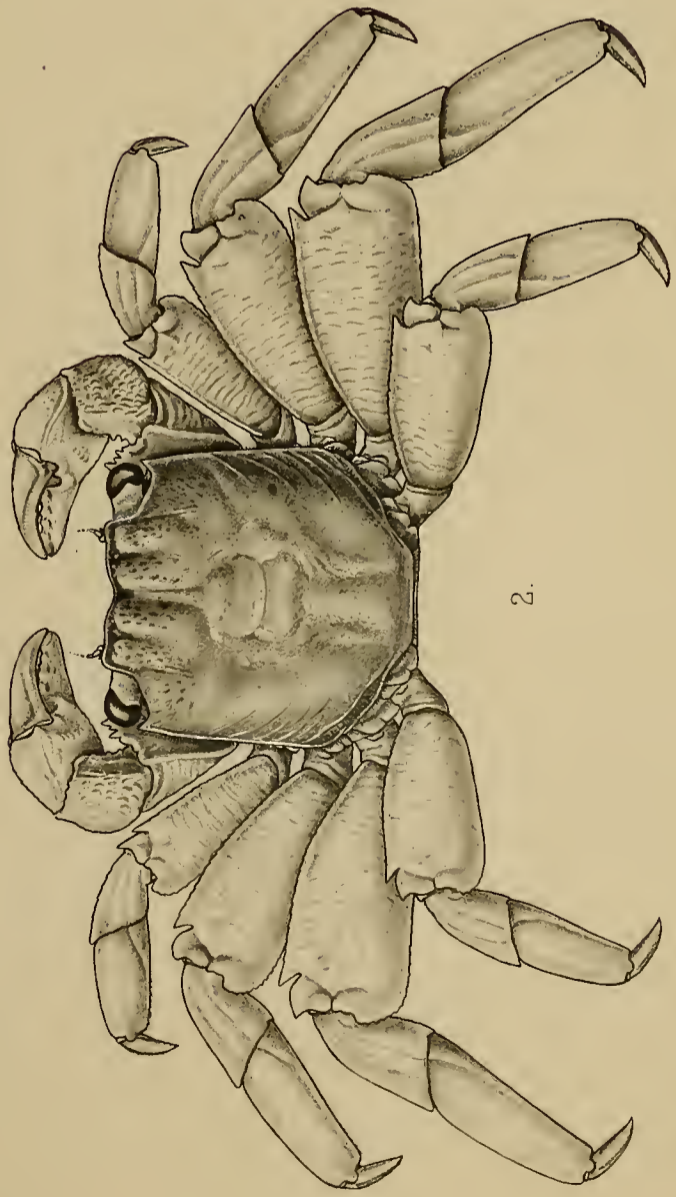
Figs. 3, 3a.—*Pyxidognathus fluviatilis*, Alcock, *Op. cit.*, p. 408.



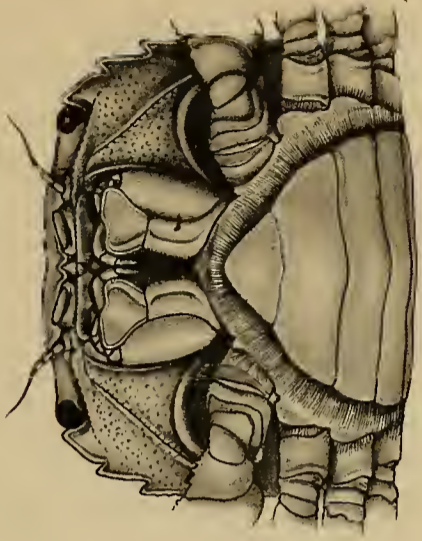
1x3.



3x3.

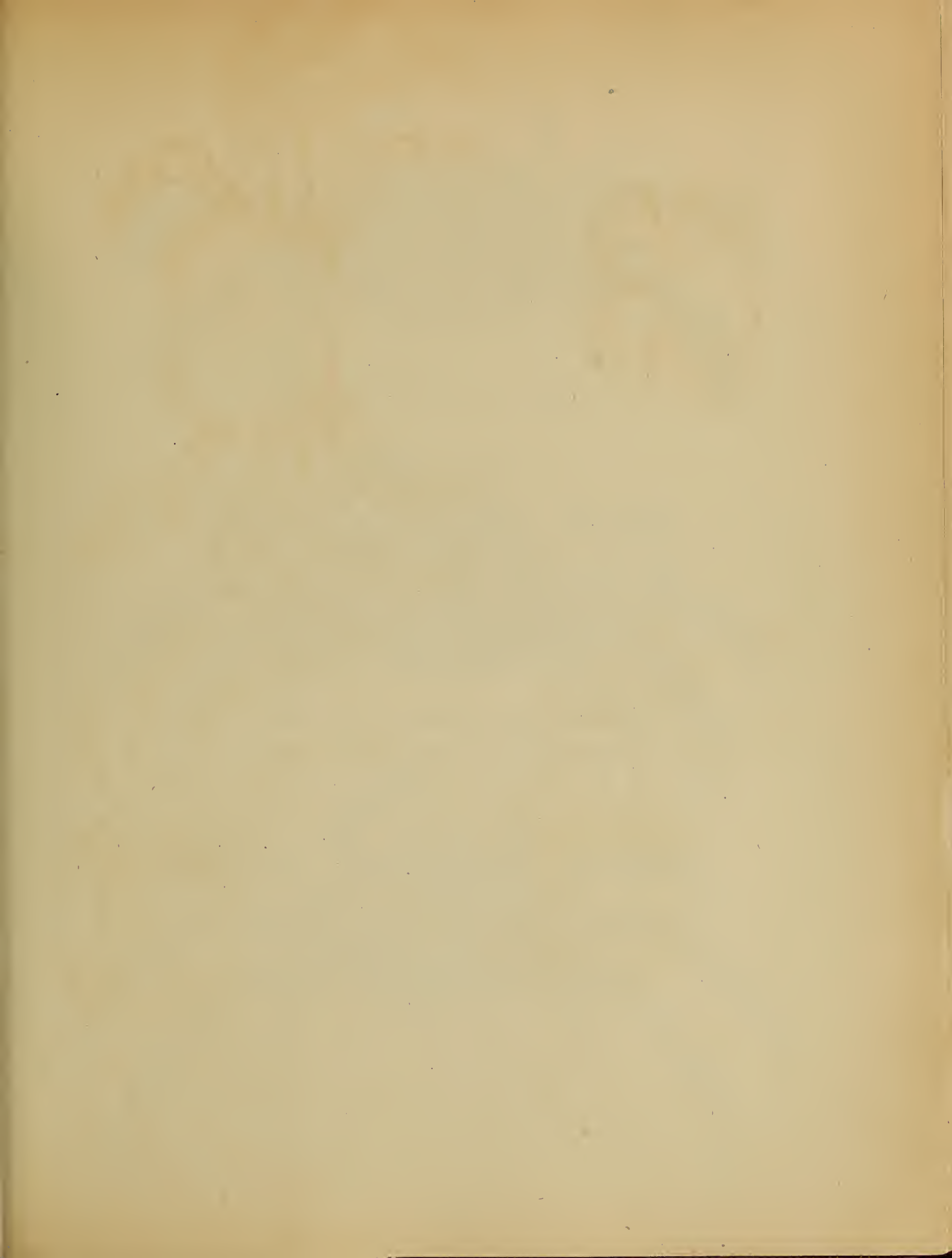


2.



3ax3.

1. *Sesarma finni*. 2. *Sesarma latifemur*. 3. *Pyxidognathus fluviatilis*.



EXPLANATION OF PLATE.

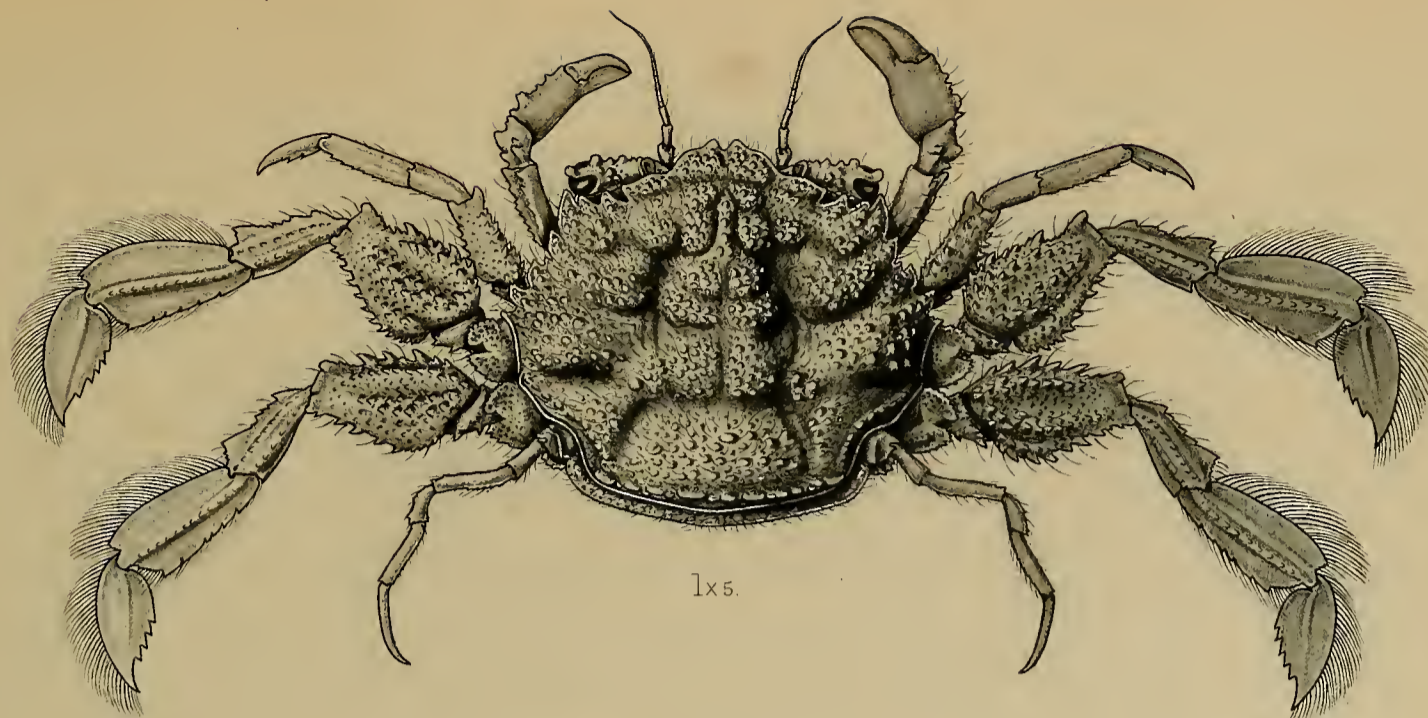
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CRUSTACEA.
—◆—

PLATE LXVII.

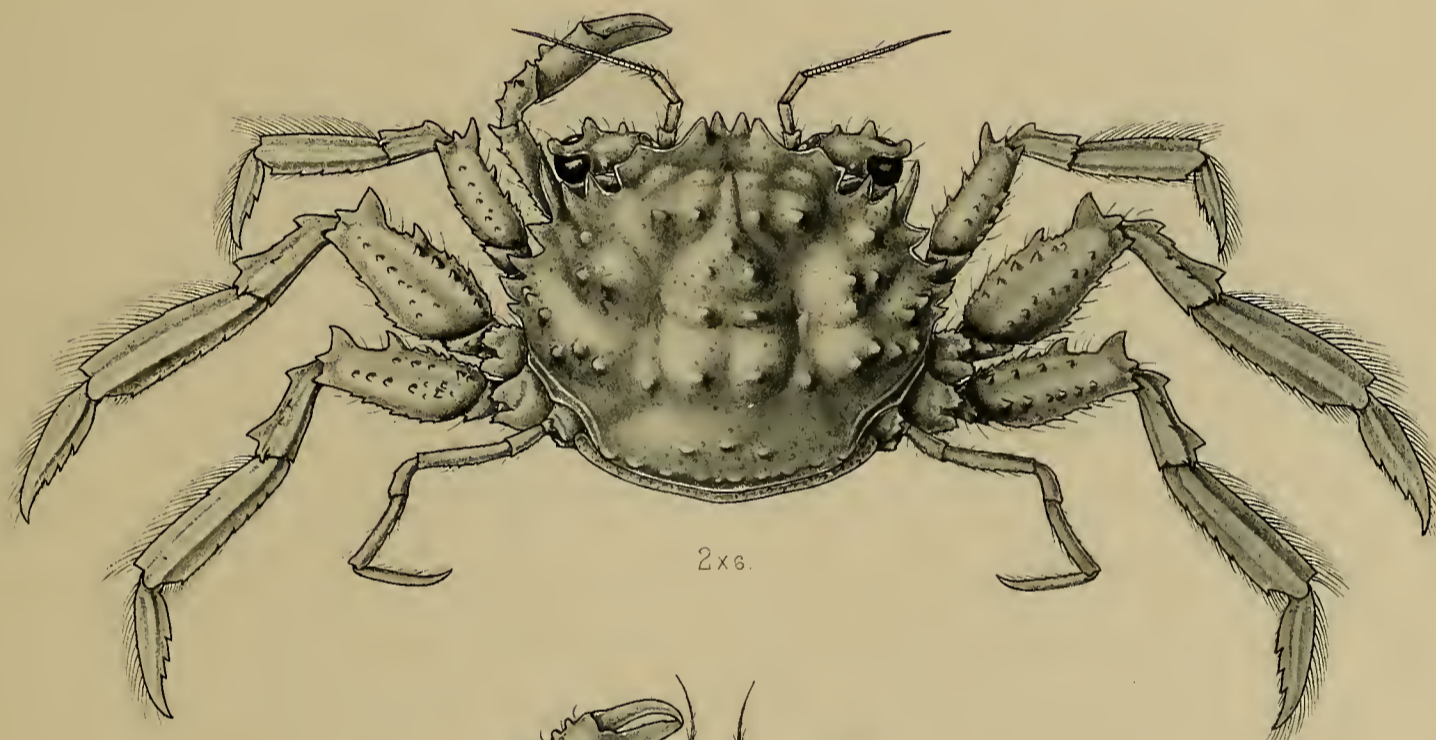
Fig. 1.—*Palicus serripes*, Alc. & And. Alcock, Materials for a Carcinological Fauna of India, No. 6. The Brachyura Catometopa or Grapsoidea. Journal of the Asiatic Society of Bengal, Vol. LXIX, part 2, 1900, p. 454.

Fig. 2.—*Palicus investigatoris*, Alcock. *Op. cit.*, p. 455.

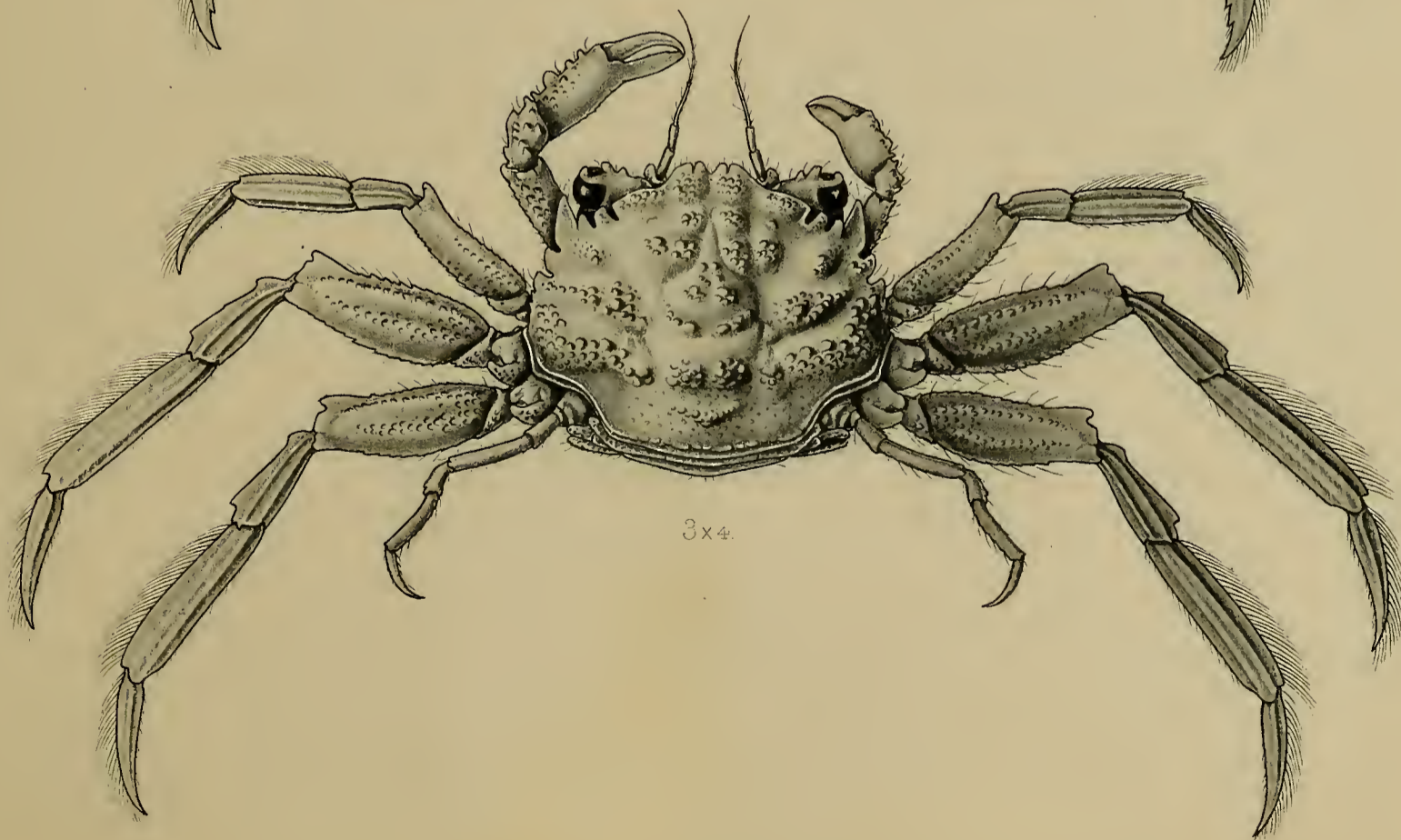
Fig. 3.—*Palicus wood-masoni*, Alcock. *Op. cit.*, p. 453.



1x5.



2x6.



3x4.

1. *Palicus serripes*. 2. *Palicus investigatoris*. 3. *Palicus wood-masoni*

7.

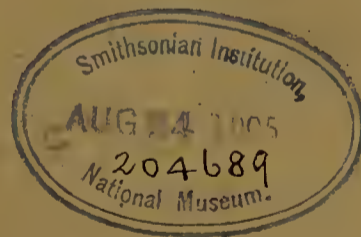
ILLUSTRATIONS
OF THE
ZOOLOGY
OF THE
ROYAL INDIAN MARINE SURVEY SHIP
INVESTIGATOR,

UNDER THE COMMAND OF
CAPTAIN T. H. HEMING, R.N. (*Retired*)

CRUSTACEA—Part XI, Plates LXVIII—LXXVI.
FISHES—Part VIII, Plates XXXVI—XXXVIII.

UNDER THE DIRECTION OF
A. ALCOCK, M.B., LL.D., F.R.S., C.I.E., SUPERINTENDENT OF THE INDIAN MUSEUM,
FORMERLY SURGEON-NATURALIST TO THE INDIAN MARINE SURVEY,

AND OF
A. C. MACGILCHRIST, M.A., M.B., CH. B., SURGEON-NATURALIST
TO THE INDIAN MARINE SURVEY.



Published under the Direction of Captain G. H. Hewett, R.N.,
Director of the Royal Indian Marine.

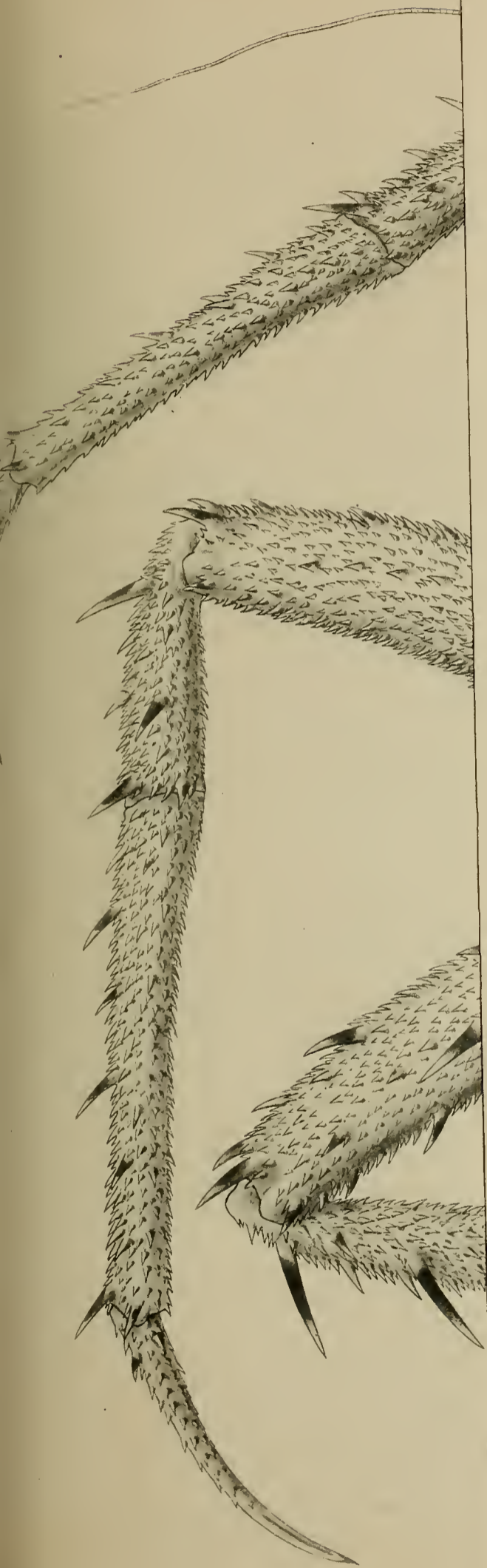
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OFFICE OF THE SUPERINTENDENT OF GOVERNMENT PRINTING, INDIA.
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EXPLANATION OF PLATE.

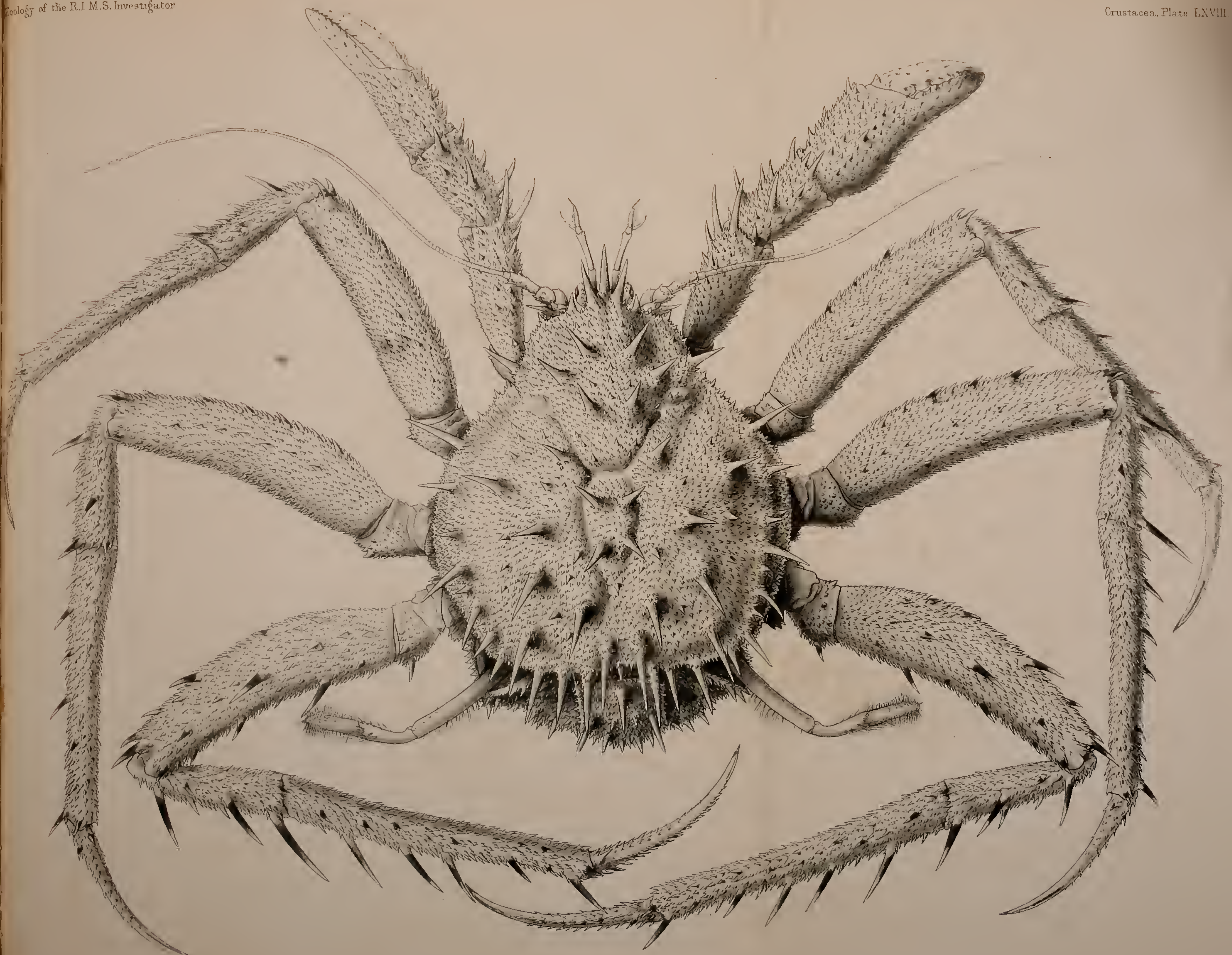
—♦—
CRUSTACEA.

—♦—
PLATE LXVIII.

Lithodes agassizii, S. I. Smith, Bull. Mus. Comp. Zool., X,
1882, p. 8.







Lithodes Agassizii, ♀ S. I. Smith natural size



EXPLANATION OF PLATE.

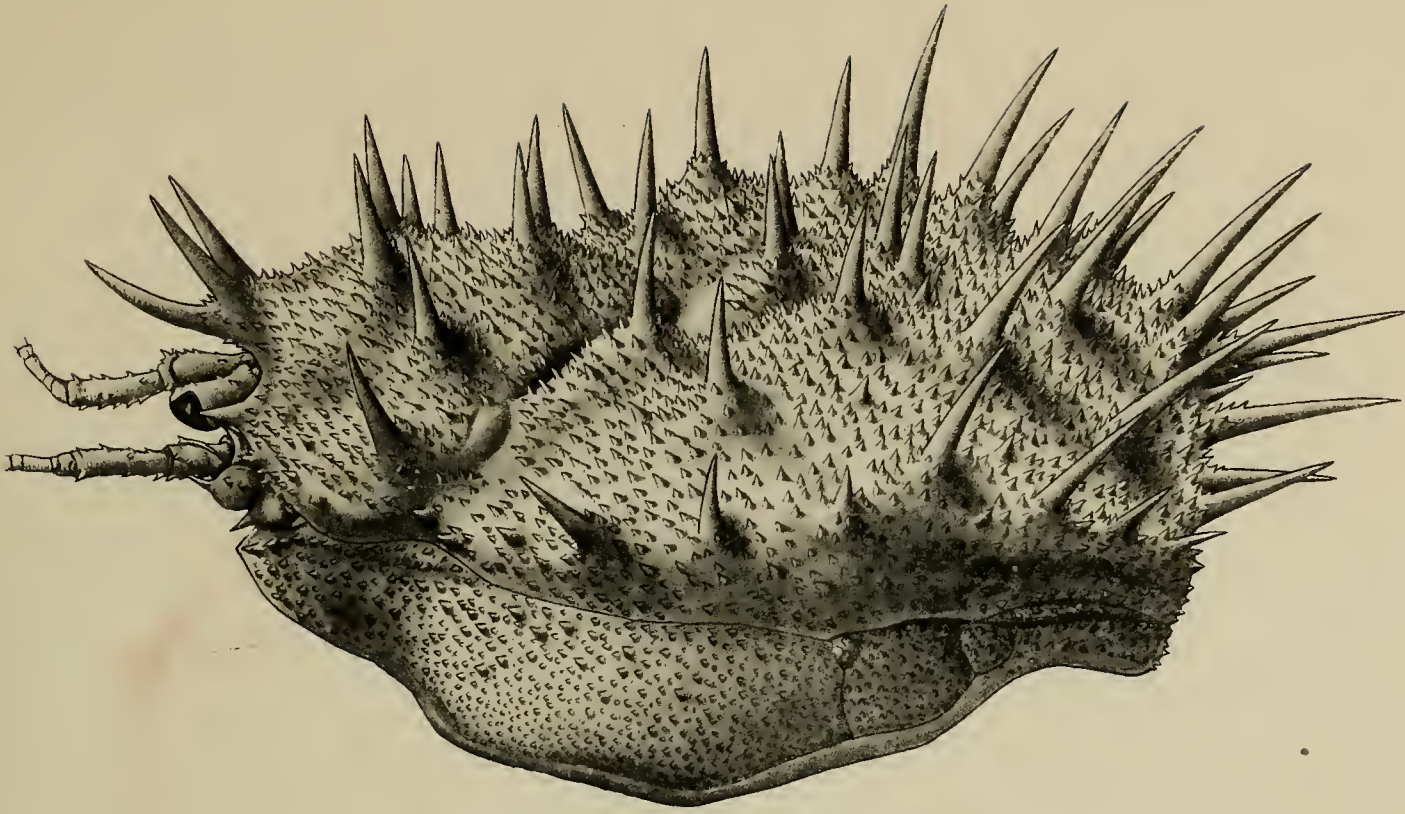
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CRUSTACEA.
—◆—

PLATE LXIX.

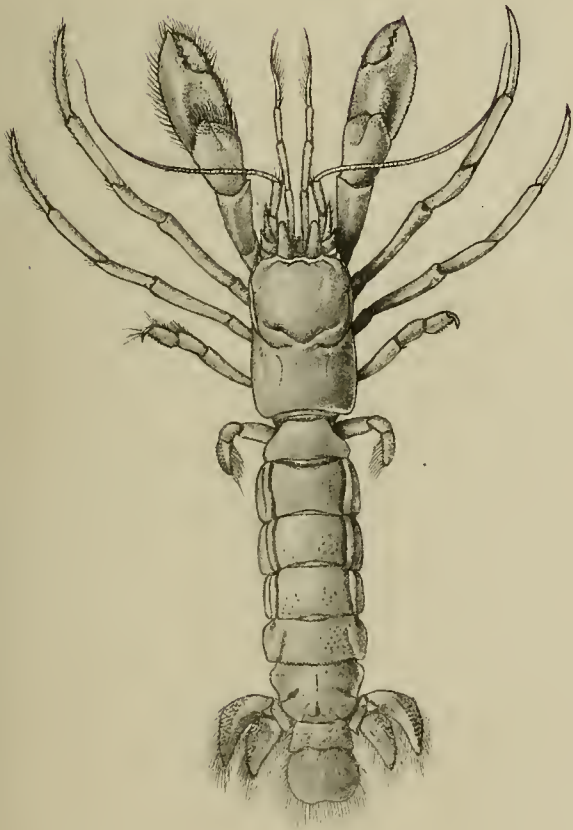
Fig. 1.—*Lithodes agassizii*, S. I. Smith, Bull. Mus. Comp. Zool., X, 1882, p. 8.

Figs. 2, 2a.—*Chiroplataea macgilchristi*, Alcock, Catalogue of Indian Decapod Crustacea, Pt. II, Anomura, Fasc. I, Pagurides, 1905, p. 18.

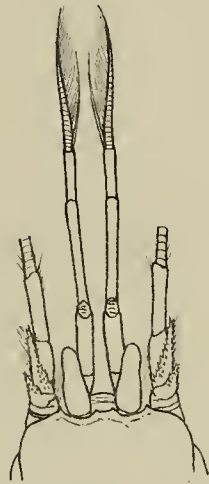
Figs. 3, 3a.—*Cancellus investigatoris*, Alcock, *Op. cit.*, p. 77.



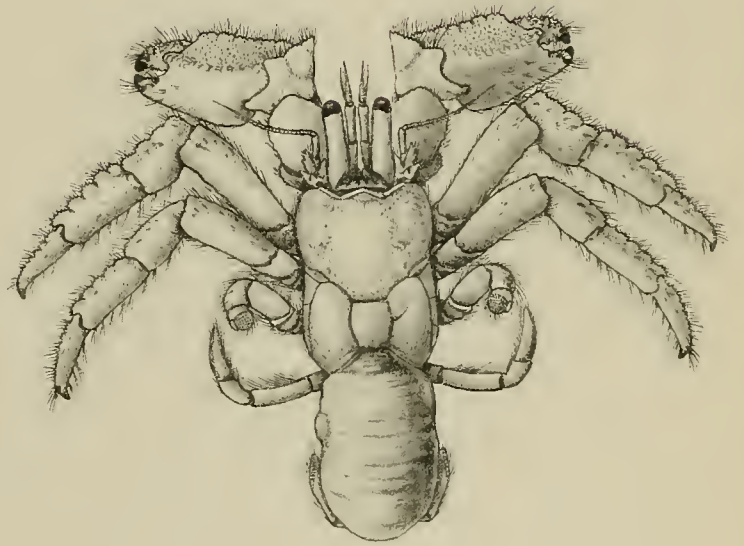
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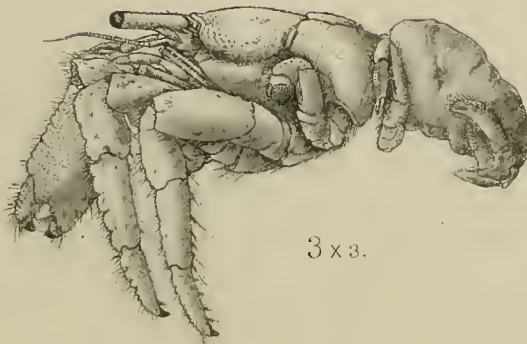
2 x 1 1/2.



2a x 3.



3a x 3.



3 x 3.

1. *Lithodes agassizii*, natural size. 2, 2a. *Chiroplatea macgilchristi*, ♀. 3, 3a. *Cancellus investigatoris*, ♂.

EXPLANATION OF PLATE.

—
CRUSTACEA.
—

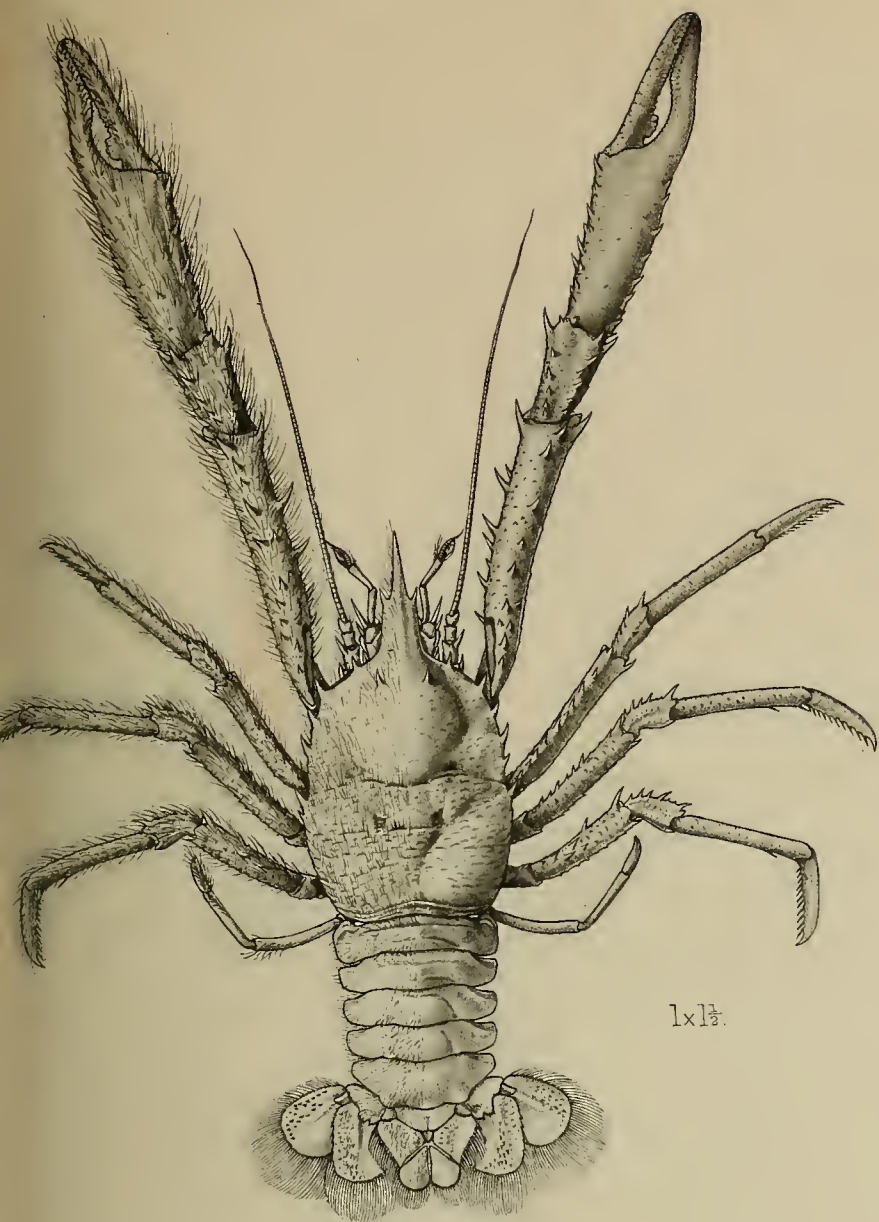
PLATE LXX.

Fig. 1.—*Munidopsis trifida*, Henderson, Annals and Magazine of Natural History, Series 5, Vol. XVI, 1885, p. 415 ; and Challenger Anomura, 1888, p. 156, pl. xvi. fig 2.

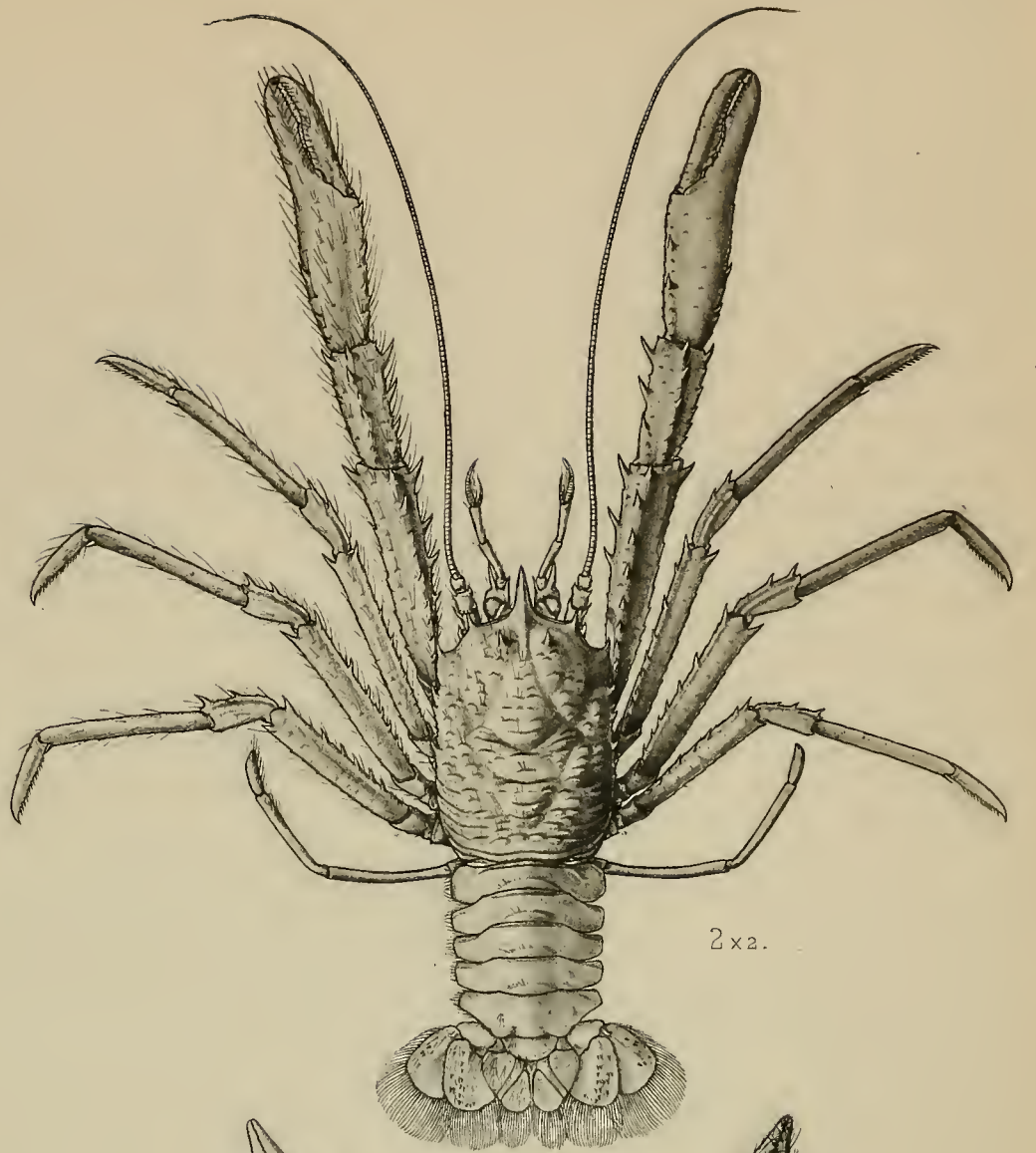
Fig. 2.—*Munidopsis spinipes*, MacGilchrist, Ann. and Mag. Nat. Hist., Ser. 7, Vol. XV, March, 1905, p. 247.

Fig. 3.—*Munidopsis dasyopus*, Alcock, Ann. Mag. Nat. Hist., April, 1894, p. 329 ; and Cat. Indian Deep Sea Crust. Macrura and Anomala, 1901, p. 252.

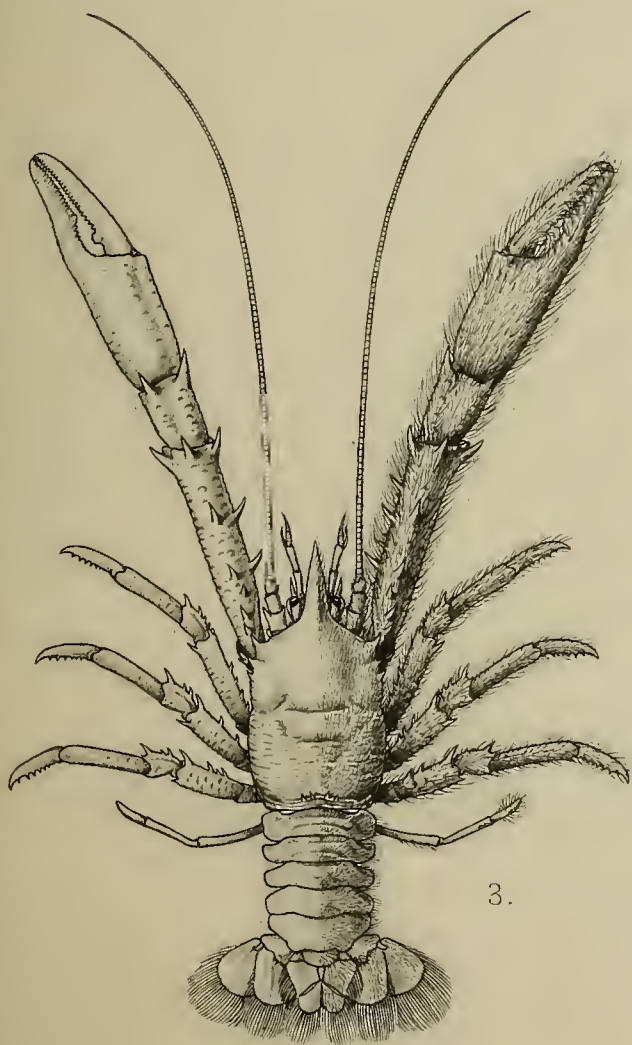
Fig. 4.—*Uroptychus glyphodactylus*, MacGilchrist, Ann. Mag. Nat. Hist., March, 1905, p. 249.



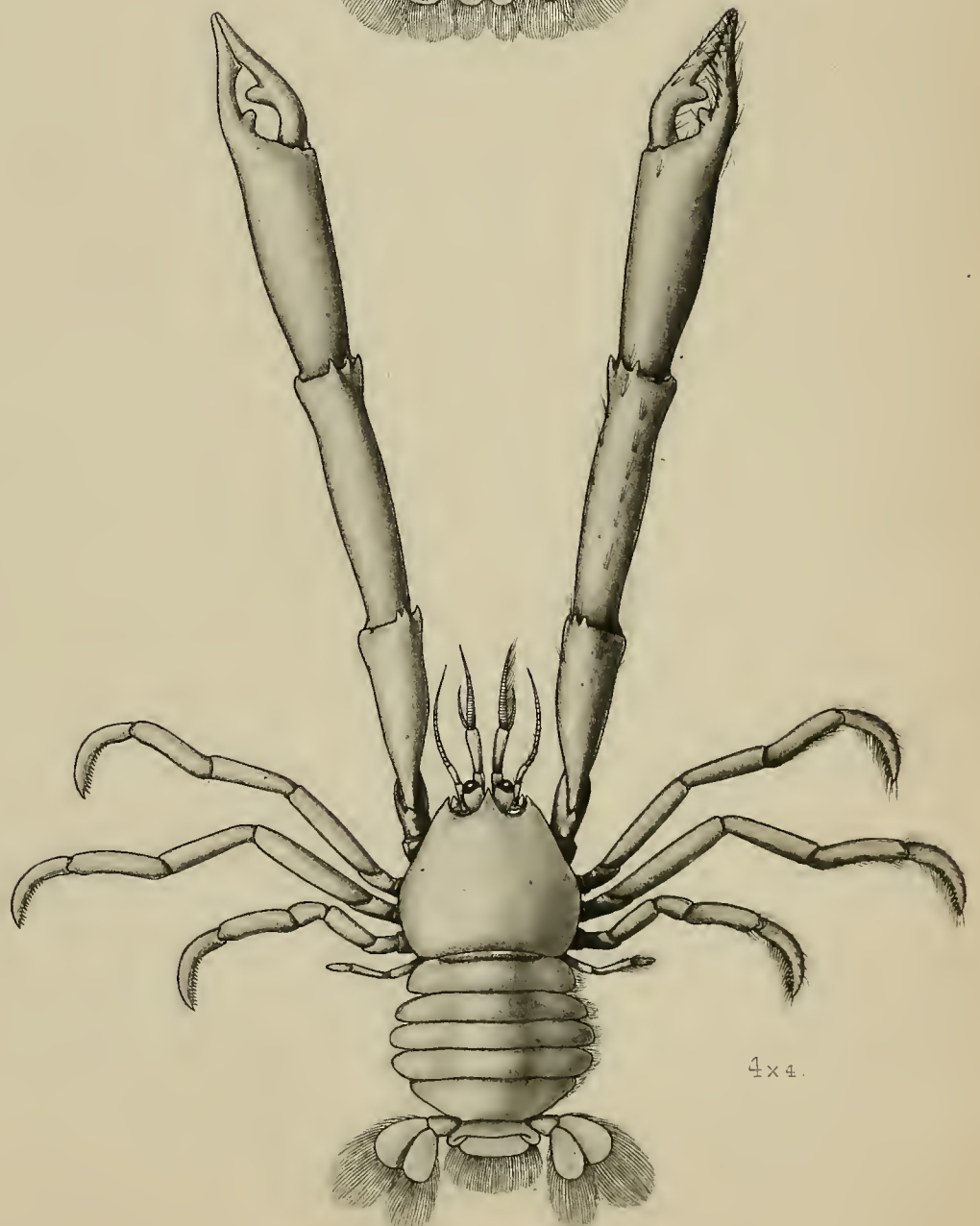
1x 1/2.



2x 2.



3.



4x 4.

1. *Munidopsis (Galathodes) trifida*.
 3. *Munidopsis dasypus*, ♂.

2. *Munidopsis spinipes*, ♀.
 4. *Uroptychus glyphodactylus*, ♂.

EXPLANATION OF PLATE.

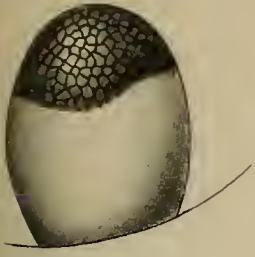
—♦—
CRUSTACEA.
—♦—

PLATE LXXI.

Figs. 1, 1a, 1b, 1c, 1d.—*Uroptychus glyphodactylus*,
MacGilchrist, Ann. Mag Nat. Hist., March, 1905, p. 249.

Figs. 2, 2a.—*Heterocarpus longirostris*, MacGilchrist, *Op. cit.*,
p. 237.

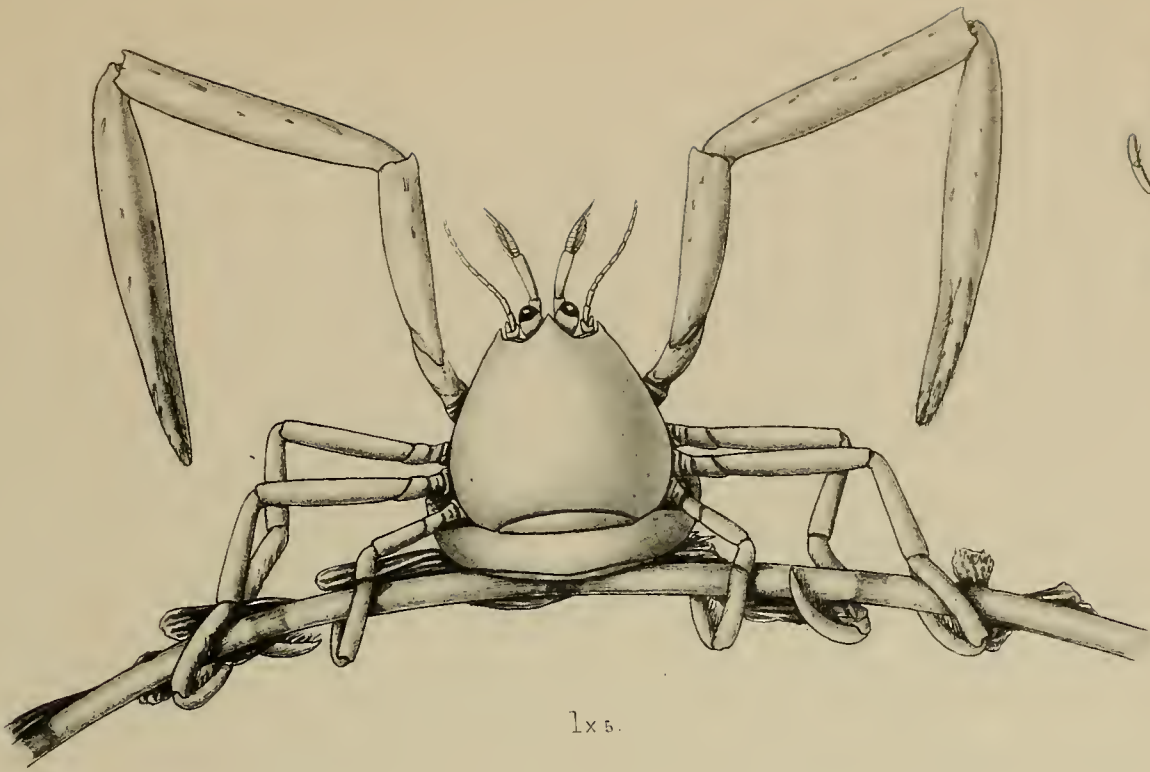
Fig. 3.—*Iconaxiopsis laccadivensis*, Alcock and Anderson,
J. A. S. B., Vol. LXIII, pt 2, 1894, p. 162; and Alcock, Cat. Indian
Deep Sea Crust. Macrura and Anomala, 1901, p. 195.



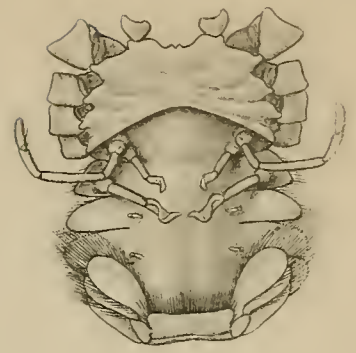
1a x 30.



1b x 72.



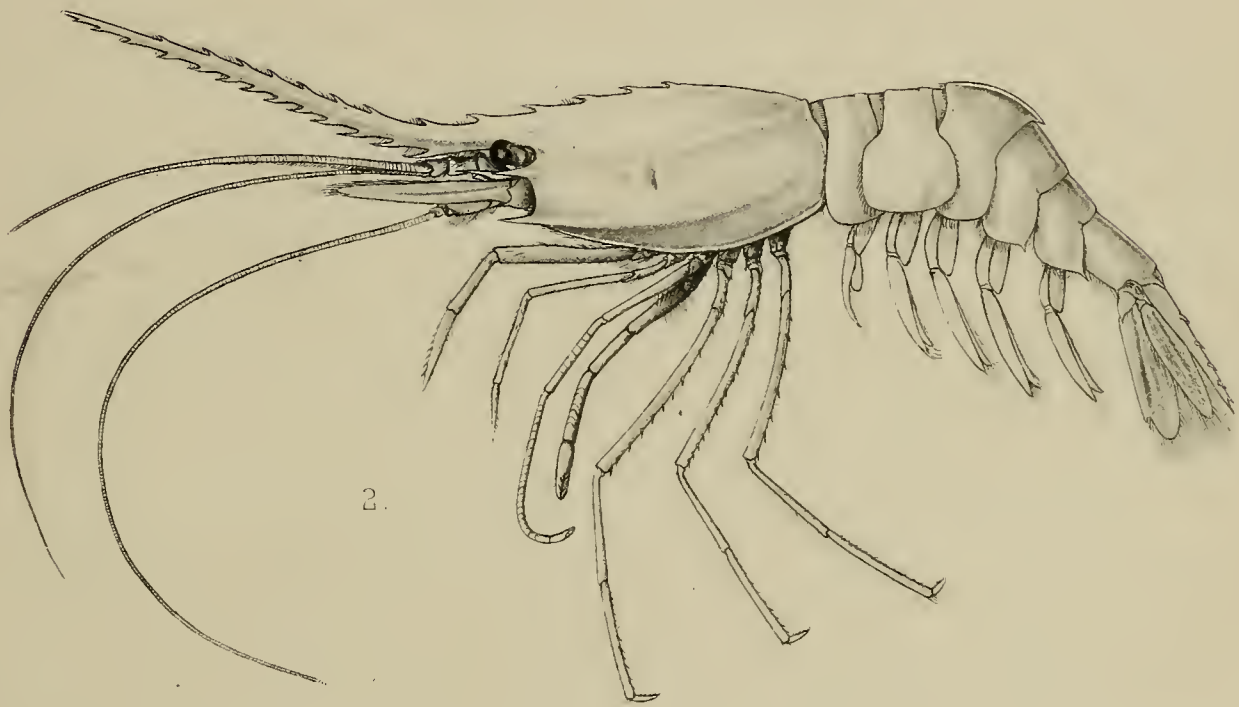
1 x 5.



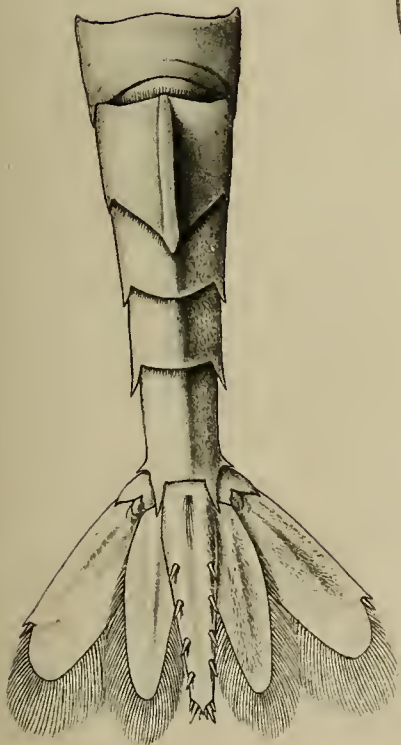
1c x 5.



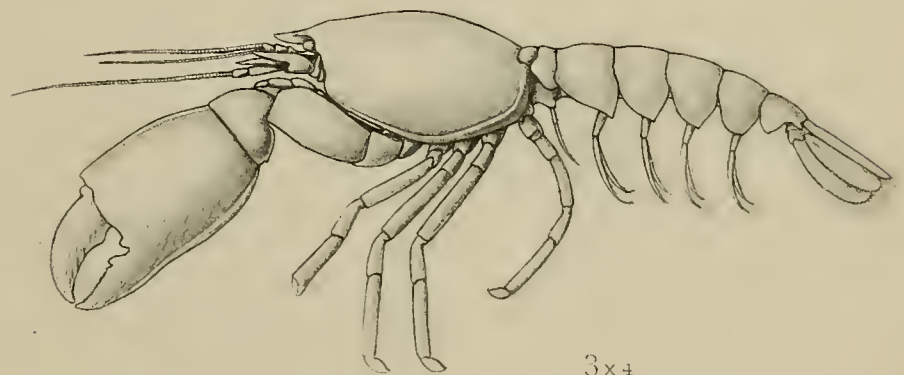
1d x 5.



2.



2a x 1 1/2.



3 x 4.

1, 1a, 1b. *Uroptychus glyphodactylus* ♀.
2, 2a. *Heterocarpus longirostris*. ♂.

1c, 1d. *Uroptychus glyphodactylus*, ♂.
3. *Ixonaxiopsis laccadivensis*.

EXPLANATION OF PLATE.

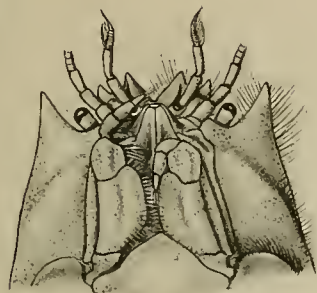
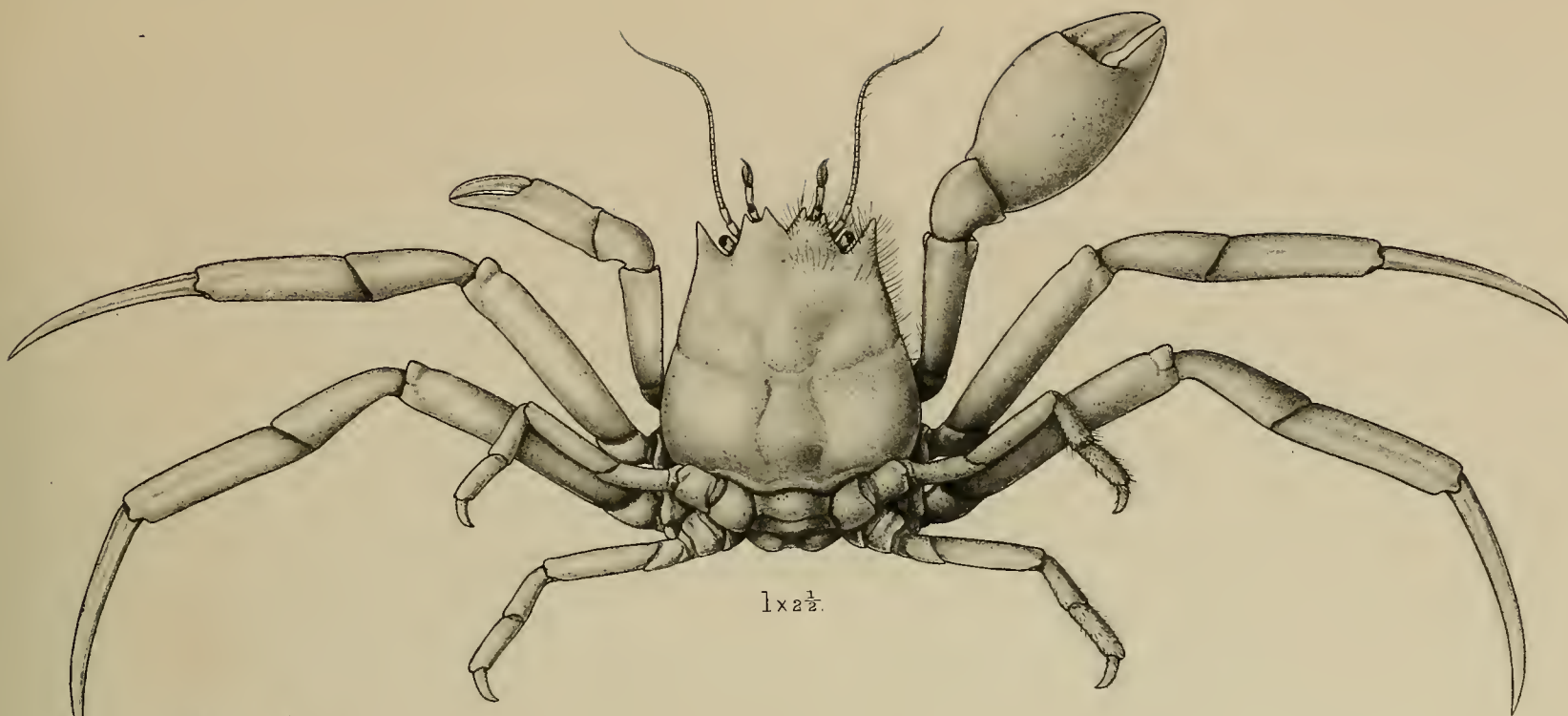
—♦—
CRUSTACEA.
—♦—

PLATE LXXII.

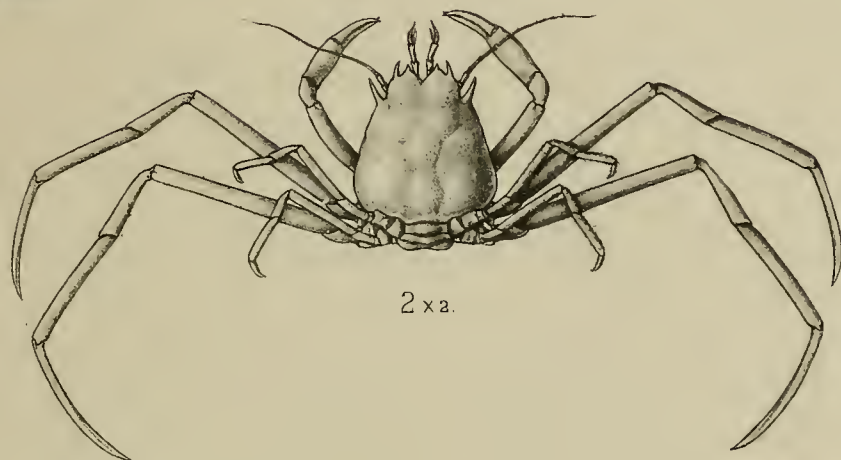
Figs. 1, 1a.—*Ethusa hirsuta*, McArdle, Ann. Mag. Nat. Hist., Ser. 7, Vol. VI, Nov., 1900, p. 474.

Figs. 2, 2a.—*Ethusa desciscens*, Alcock, Carc. Faun. Ind., Oxyst p. 286, and Investigator Deep Sea Brachyura, 1899, p. 35.

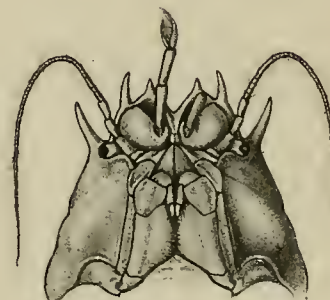
Figs. 3, 3a.—*Ethusa investigatoris*, Alcock, *Op. cit.*, p. 285, and Investigator Deep Sea Brachyura, 1899, p. 34.



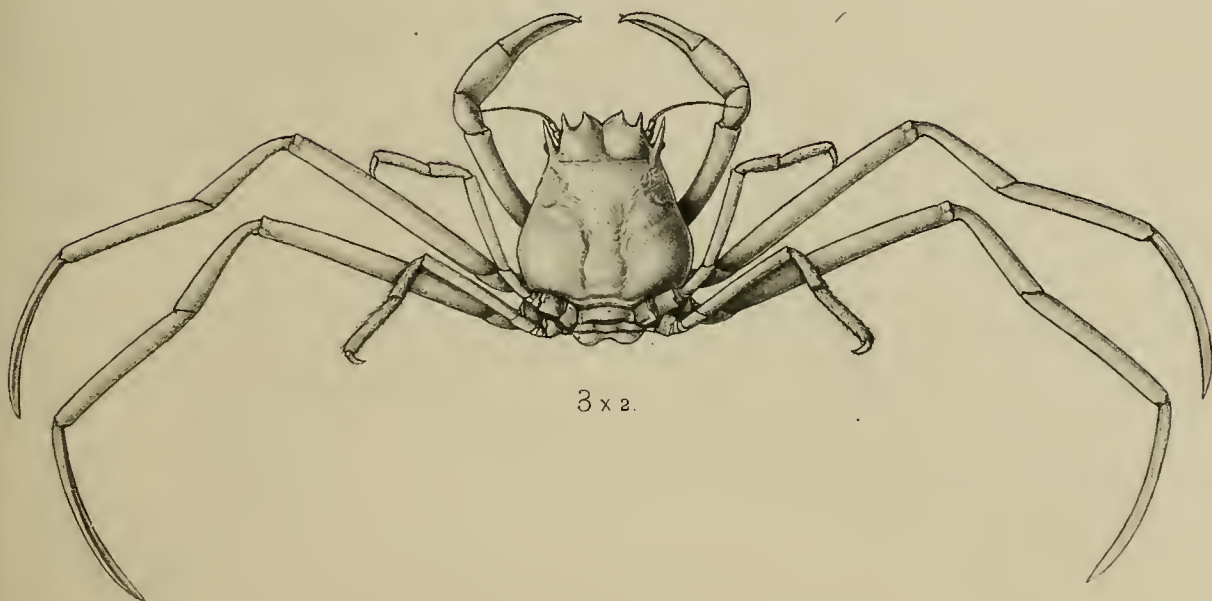
1a x 3.



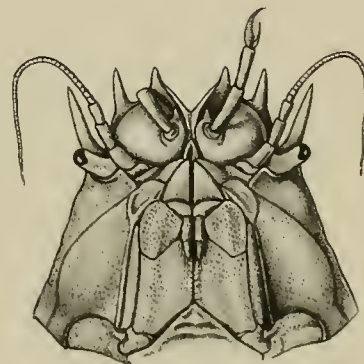
2 x 2.



2a x 4.



3 x 2.



3a x 4.

1. 1a. *Ethusa hirsuta*. ♂

2. 2a *Ethusa desciscens*. ♂

3. 3a. *Ethusa investigatoris*.

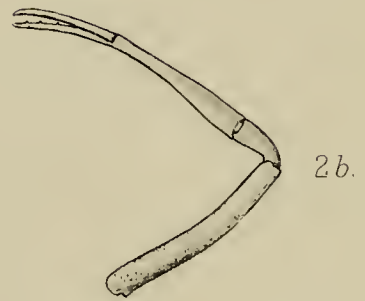
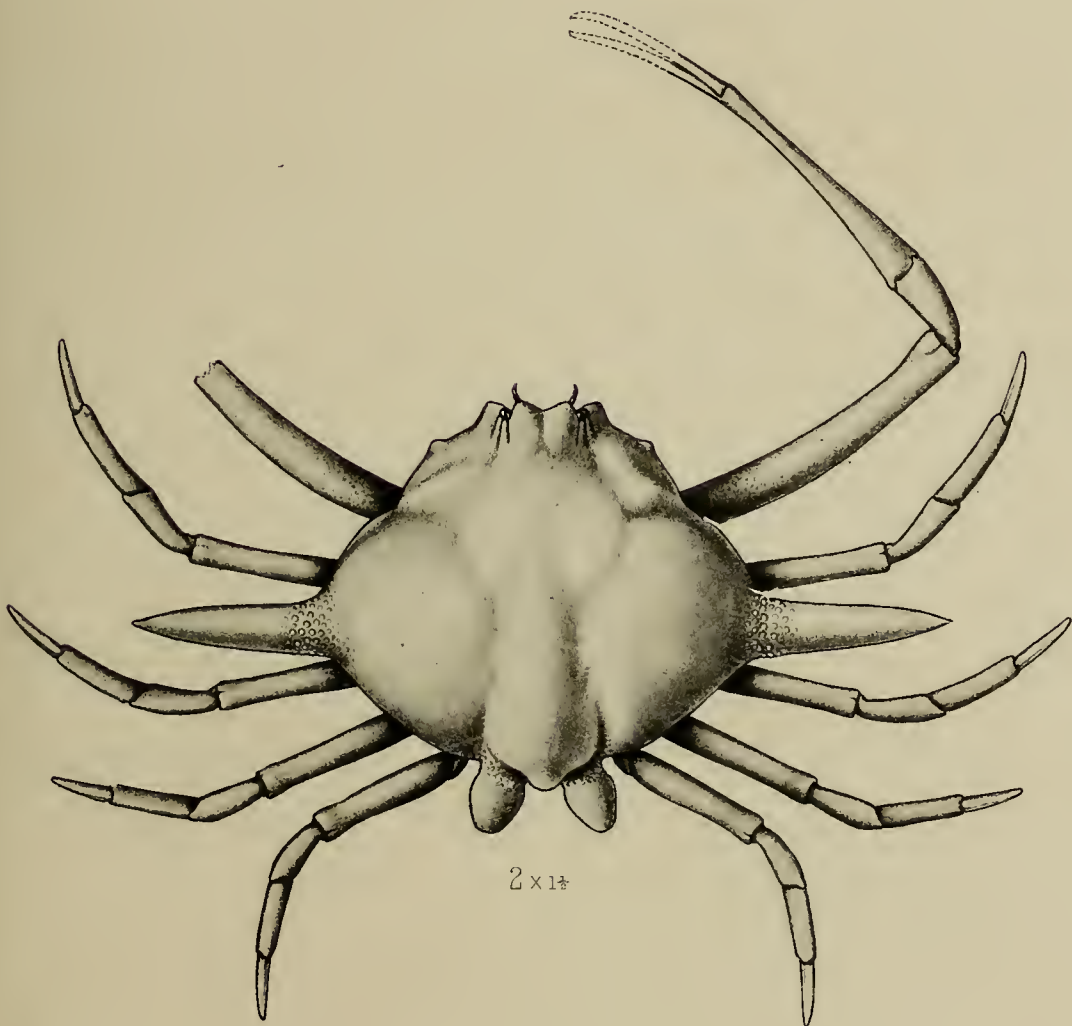
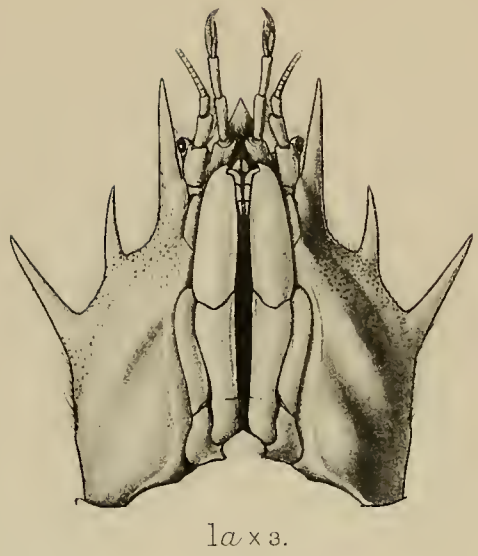
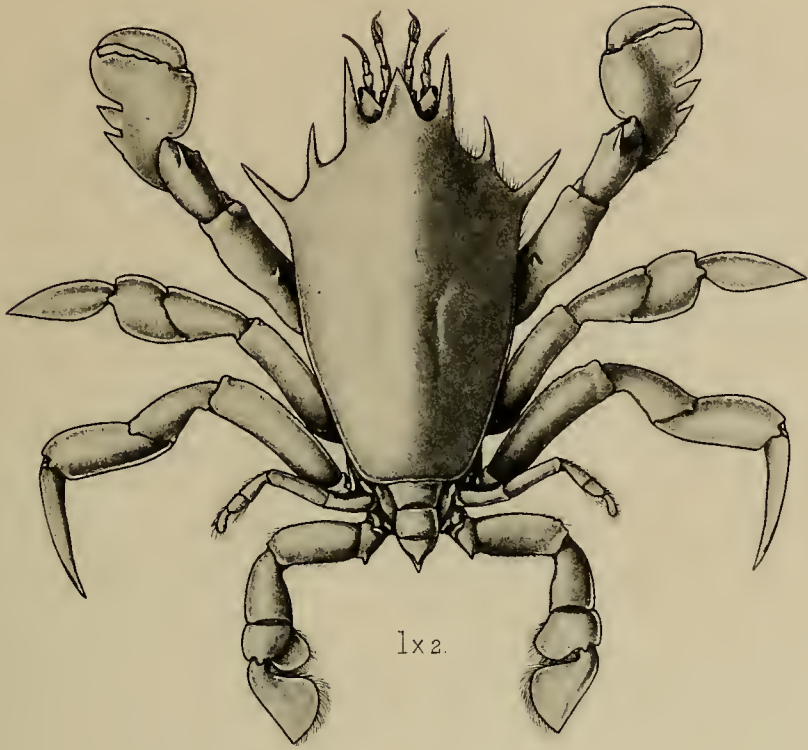
EXPLANATION OF PLATE.

—◆—
CRUSTACEA.
—◆—

PLATE LXXIII.

Figs. 1, 1a.—*Lyreidus channeri*, Wood-Mason, J. A. S. B., Vol. LVI, 1887, pt. 2, p. 206; and Alcock, Investigator Deep Sea Brachyura, 1899, p. 38.

Figs. 2, 2a, 2b.—*Ixoides cornutus*, MacGilchrist, Ann. Mag. Nat. Hist., March, 1905, p. 255.



1, 1a. *Lyreidus channeri*, ♂. 2, 2a, 2b. *Ixodes cornutus*, ♂.

EXPLANATION OF PLATE.

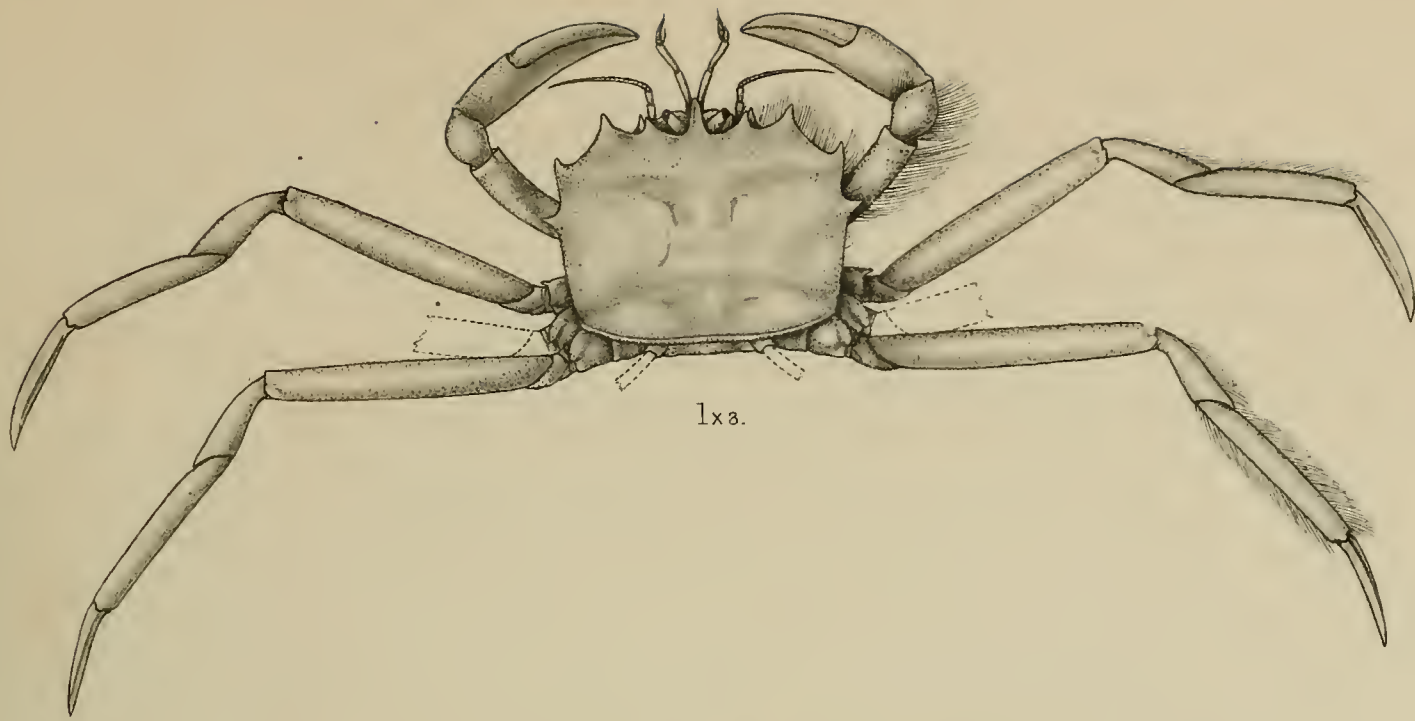
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CRUSTACEA.
—♦—

PLATE LXXIV.

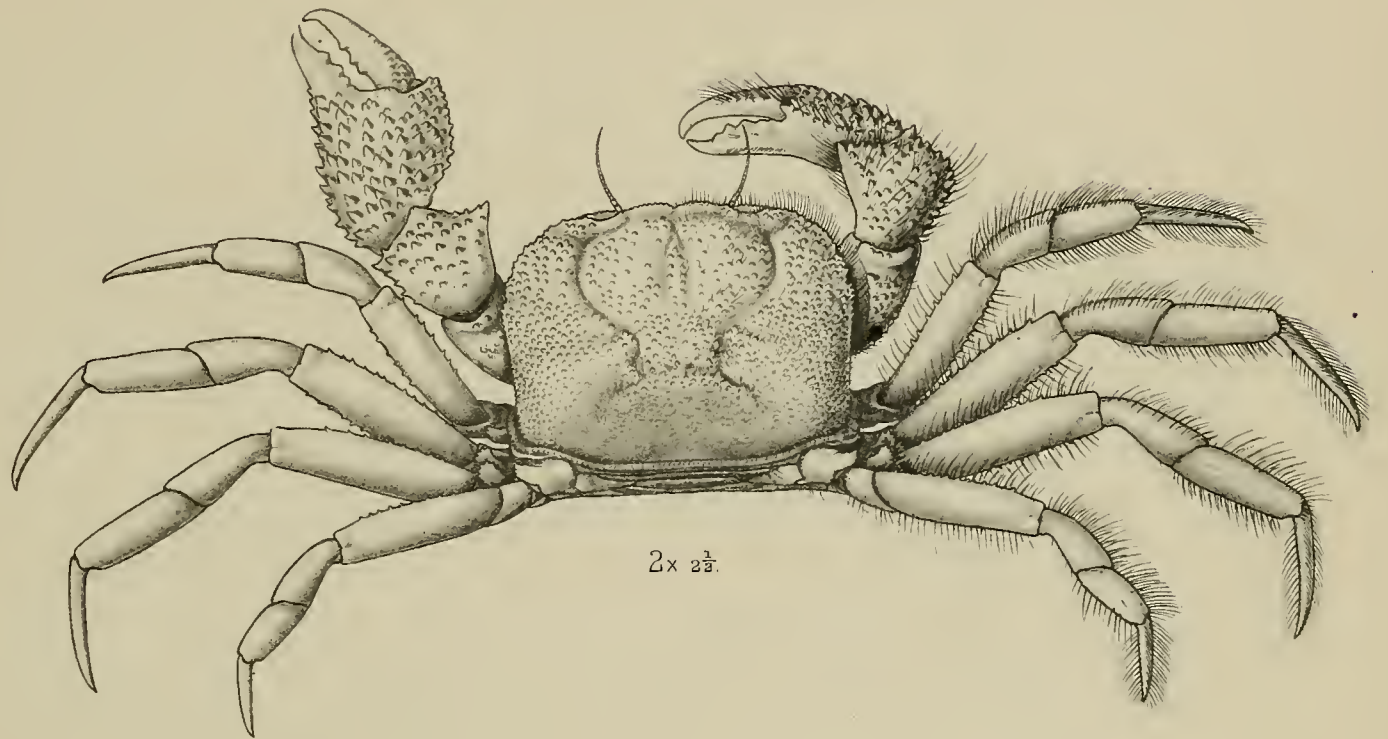
Fig. 1.—*Ptenoplax dentata*, MacGilchrist, Ann. Mag. Nat. Hist., March, 1905, p. 266.

Figs. 2, 2a.—*Ceratoplax granulosa*, MacGilchrist, *Op. cit.*, p. 263.

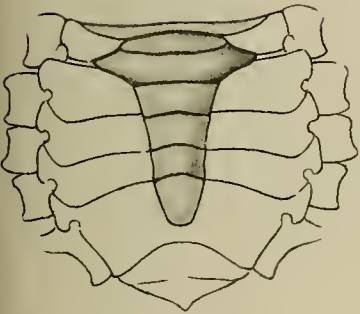
Figs. 3, 3a.—*Camatopsis rubida*, Alcock and Anderson, Ann. Mag. Nat. Hist., Jan., 1889, p. 13; and Alcock, Investigator Deep Sea Brachyura, 1899, p. 76, pl. iv. fig. 3.



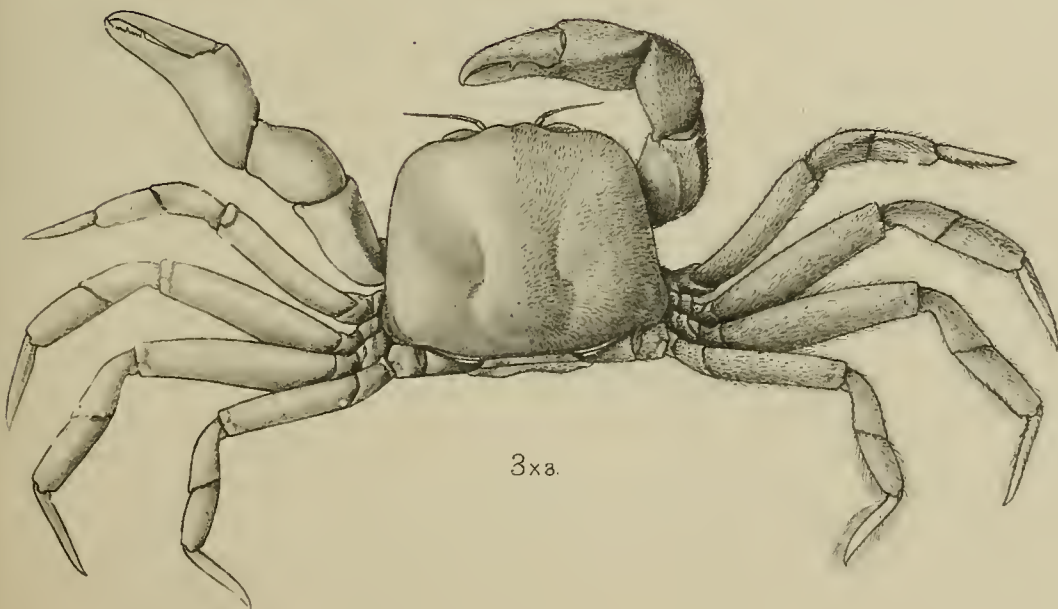
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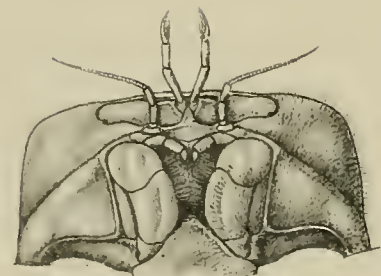
2x 2 1/2.



2a x3.



3x3.



3a x4.

1. *Ptenoplax dentata*. ♂

2. 2a. *Ceratoplax granulosa*. ♂

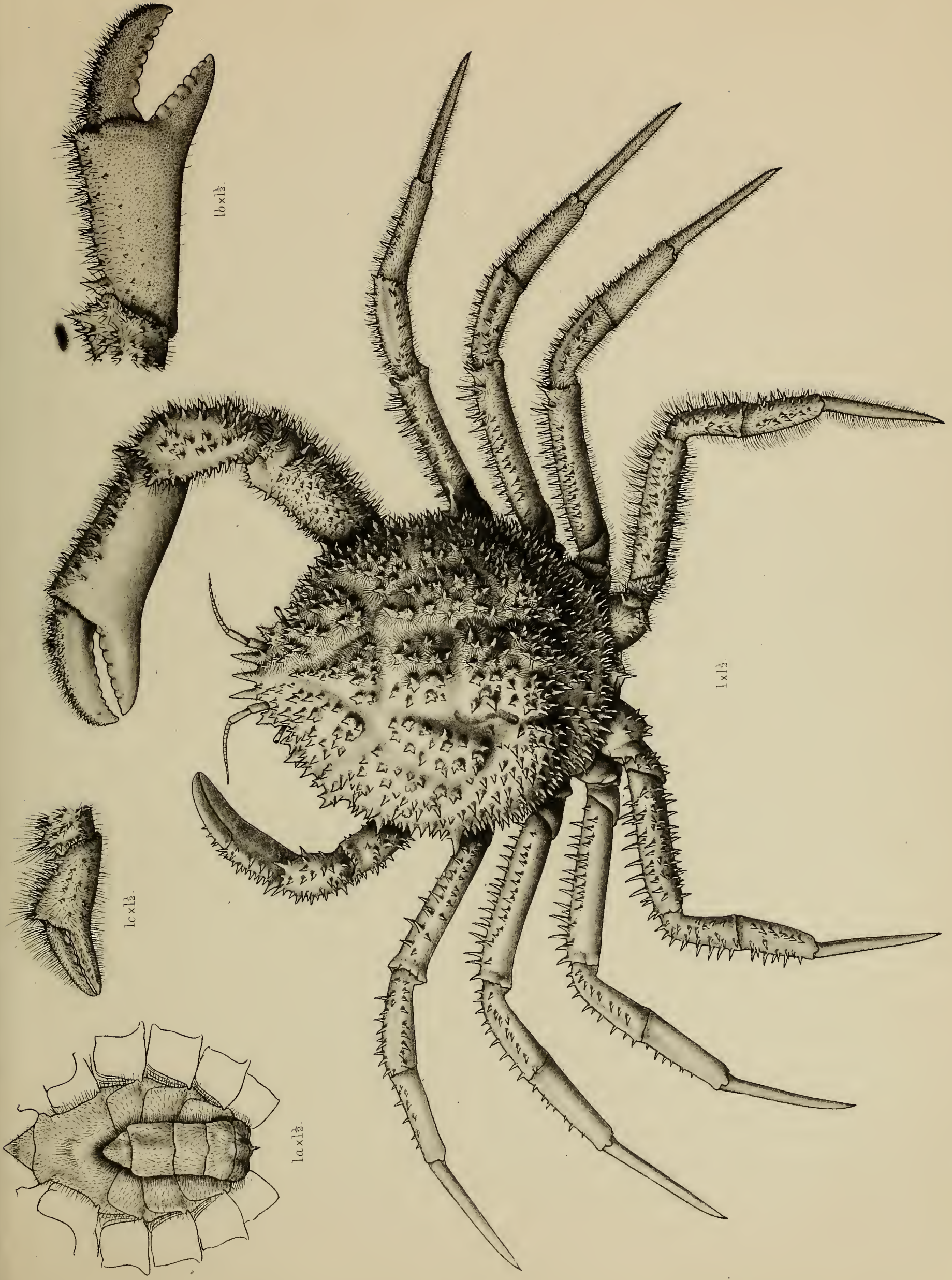
3. 3a. *Camatopsis rubida*. ♂

EXPLANATION OF PLATE.

CRUSTACEA.

PLATE LXXV.

Figs. 1, 1a, 1b, 1c.—*Trichopeltarium ovale*, Anderson, J. A. S. B., Vol. LXV, pt. 2, 1896, p. 103; and Ill. Zool. Investigator, Crust., pl. xxv. fig. 4 (female); and Alcock, Investigator Deep Sea Brachyura, 1899, p. 57.



16x1½.

1cx1½.

1ax1½.

1x1½.

Trichopeltarium ovale, ♂.

EXPLANATION OF PLATE.

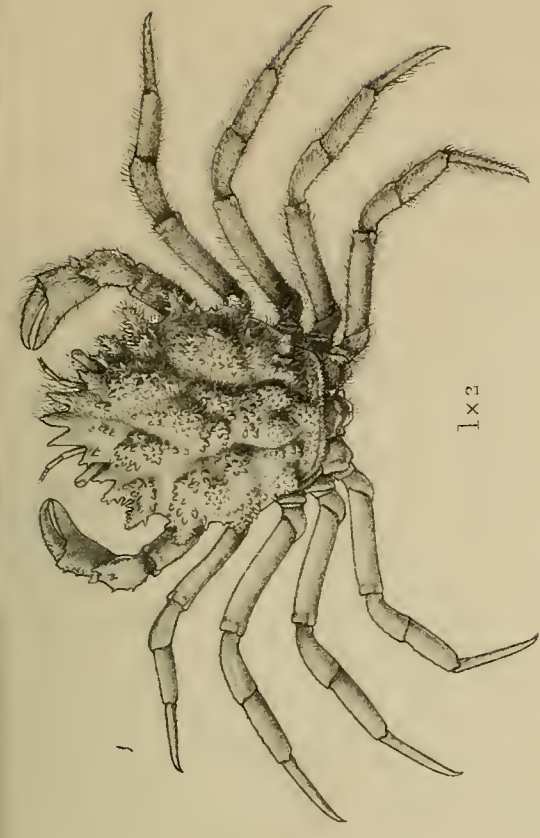
CRUSTACEA.

PLATE LXXVI.

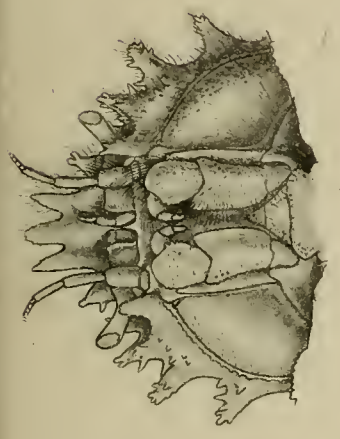
Figs. 1, 2, 2a.—*Trachycarcinus glaucus*, Alcock and Anderson, Ann. Mag. Nat. Hist., Jan., 1899, p. 8; and Alcock, Investigator Deep Sea Brachyura, 1899, p. 59, pl. ii. fig. 2.

Fig. 3.—*Actumnus margarodes*, MacGilchrist, Ann. Mag. Nat. Hist., March, 1905, p. 260.

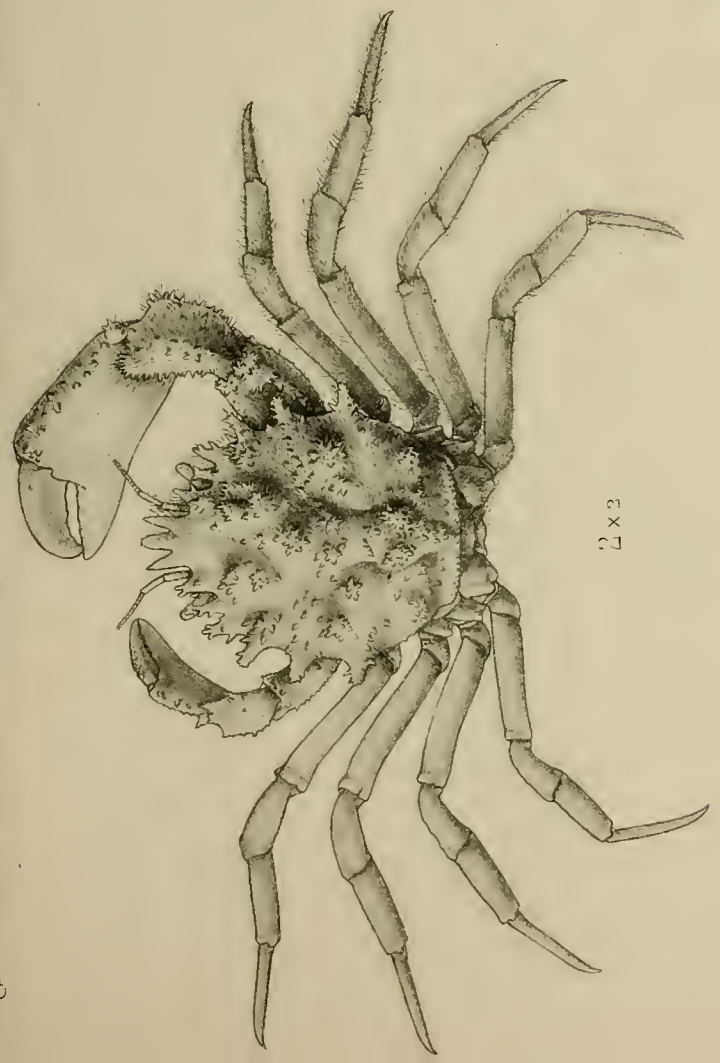
Figs. 4, 4a.—*Benthochascon hemingi*, Alcock and Anderson, *Op. cit.*, p. 10; and Alcock, Investigator Deep Sea Brachyura, 1899, p. 69, pl. iii. fig. 2.



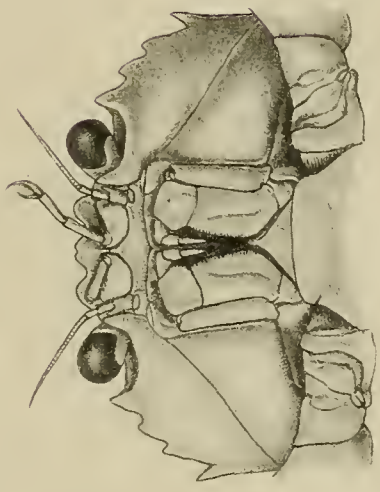
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2ax3



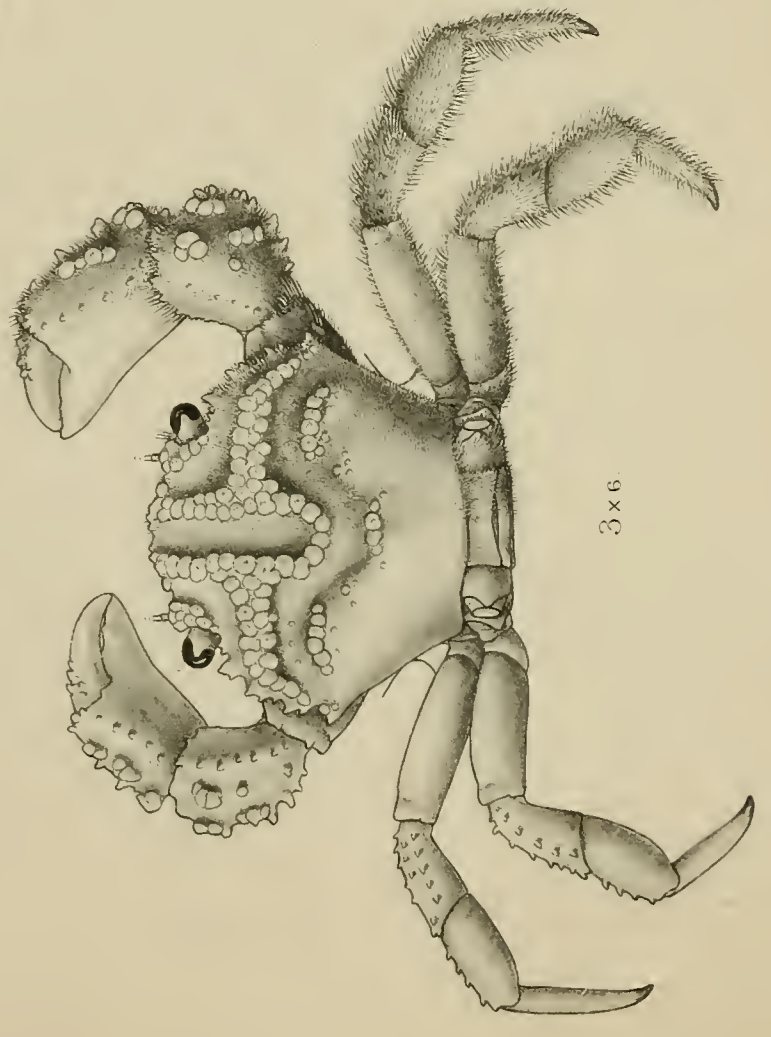
2x2



4a



4



3x6

- 1. *Trachycaremus glaucus*, ♀
- 2. *2a*. *Trachycaremus glaucus*, ♂
- 3. *Actimnus margarodes*, ♂
- 4. *4a*. *Benthochascon Henningi*, ♀

ILLUSTRATIONS
OF THE
ZOOLOGY
OF THE
ROYAL INDIAN MARINE SURVEY SHIP
INVESTIGATOR,

UNDER THE COMMAND OF
CAPTAIN T. H. HEMING, R.N. (*Retired*).

CRUSTACEA (MALACOSTRACA)—Pt. XII, Pls. LXXVII—
LXXIX.

CRUSTACEA (ENTOMOSTRACA)—Pt. I, Pls. I—II.
MOLLUSCA—Pt. IV, Pls. XIV—XVIII.

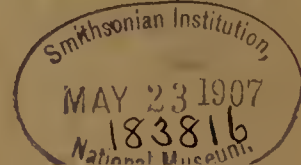
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A. C. MACGILCHRIST, M.A., M.B., CH.B., FORMERLY SURGEON-NATURALIST
TO THE INDIAN MARINE SURVEY.

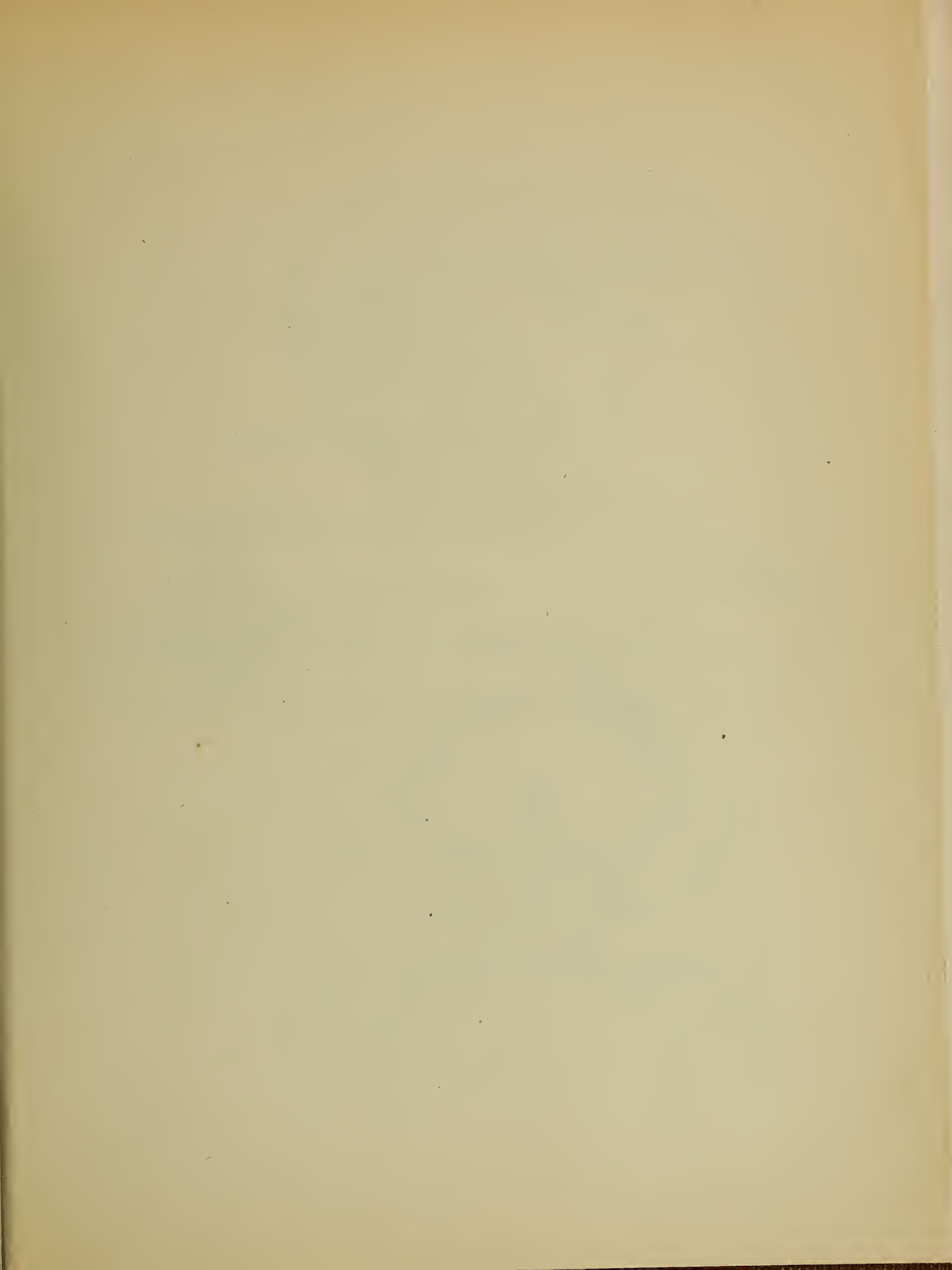


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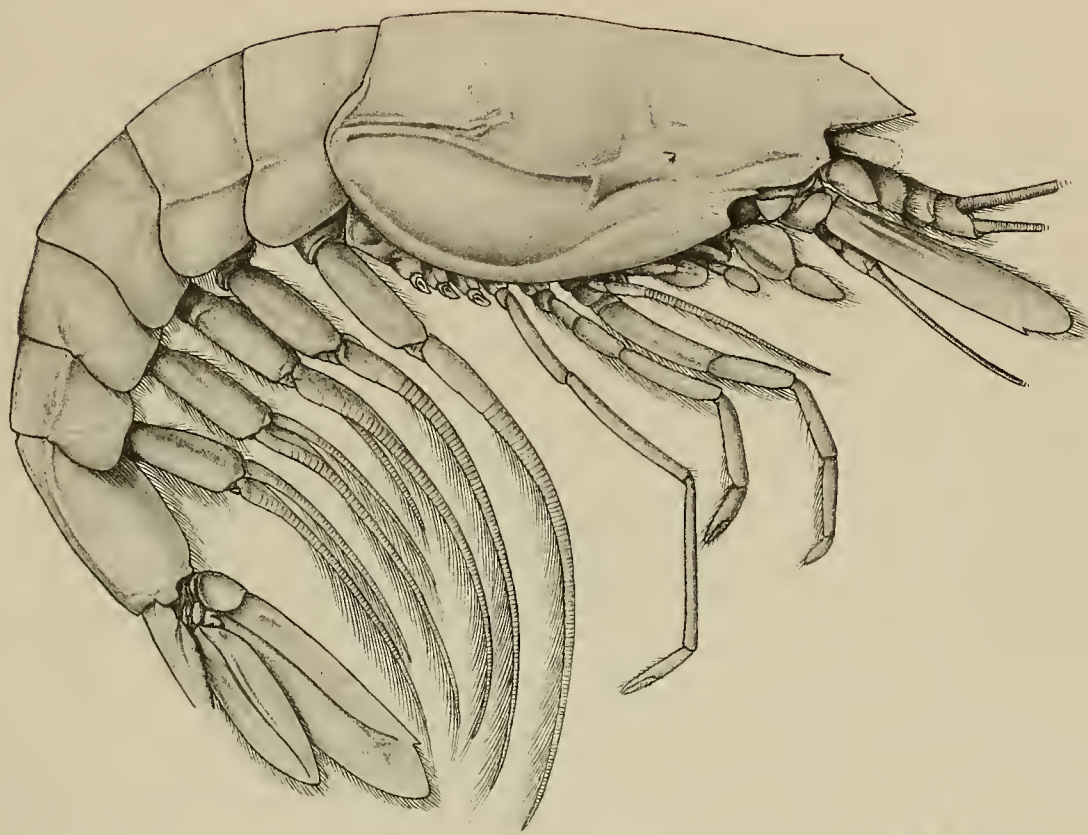
EXPLANATION OF PLATE.

CRUSTACEA (MALACOSTRACA).

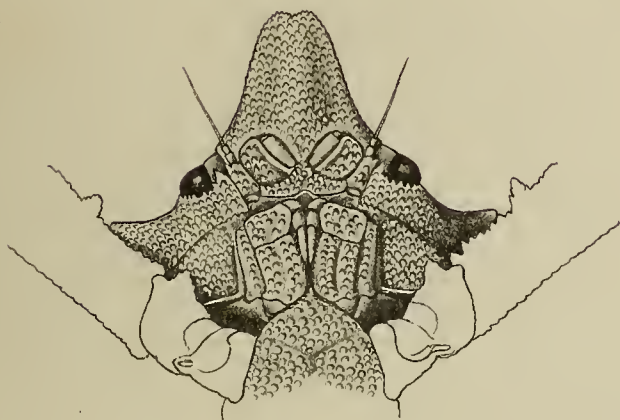
PLATE LXXVII.

Figs. 1, 1a.—*Benthesicymus armatus*, A. C. MacGilchrist,
Ann. Mag. Nat. Hist., Ser. 7, Vol. XV, 1905, p. 235.

Figs. 2, 2a.—*Eumedonus granulatus*, A. C. MacGilchrist,
Op. cit., p. 253.



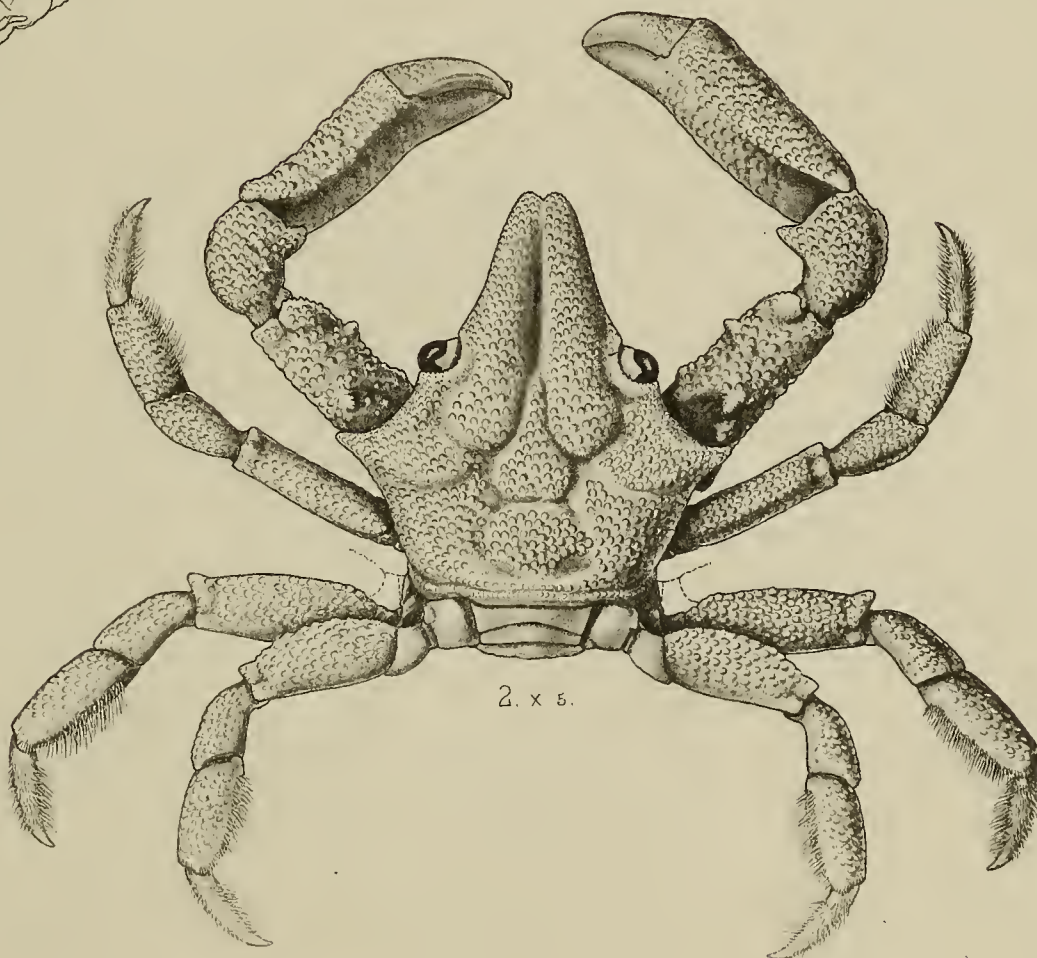
1.



2a. x 5.



1a.



2. x 5.

1. *Benthescymus armatus*, Mac Gilchrist. 2. *Eumedonus granulatus*, Mac Gilchrist. x 5.



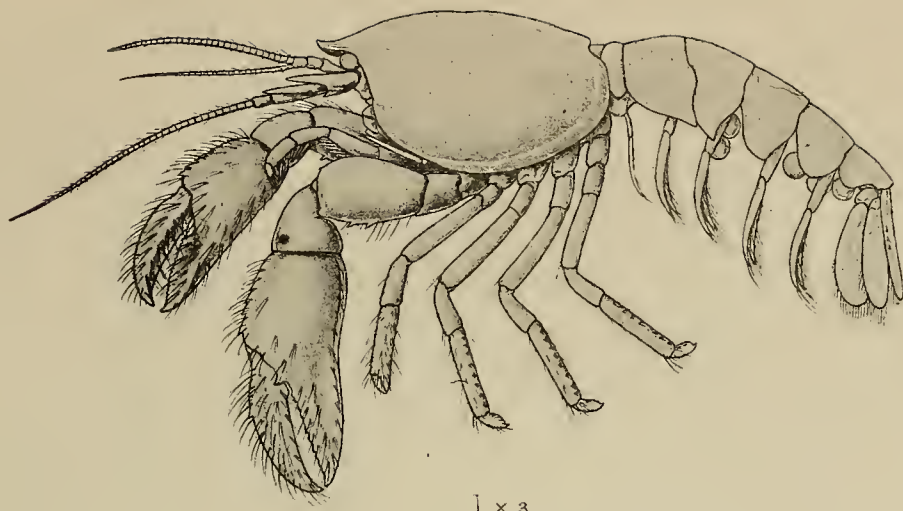
EXPLANATION OF PLATE.

—+—
CRUSTACEA (MALACOSTRACA).
—+—

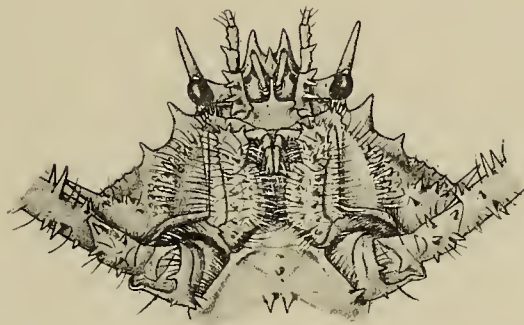
PLATE LXXVIII.

Fig. 1.—*Iconaxiopsis spinigera*, A. C. MacGilchrist, Ann. Mag. Nat. Hist., Ser. 7, Vol. XV, March, 1905, p. 240.

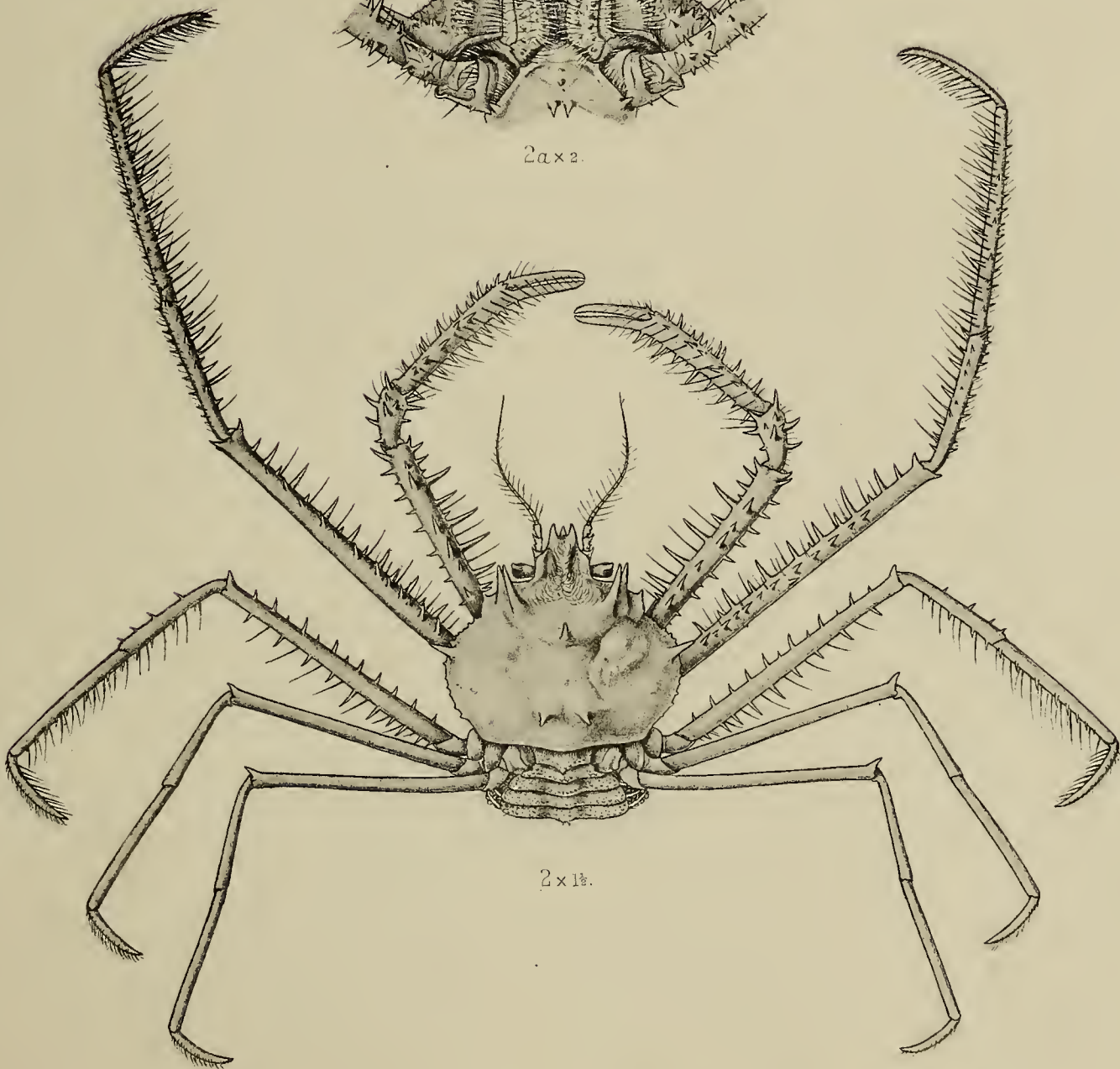
Figs. 2, 2a.—*Cyrtomaia goodridgei*, A. F. McArdle, Ann. Mag. Nat. Hist., Ser. 7, Vol. VI, November, 1900, p. 472.



1 x 3.



2a x 2.



2 x 1 1/2.

1. *Iconaxiopsis spinigera*, Mac Gilchrist, x 3. 2. *Cyrtomaia Goodridgii*, Mc. Ardle, x 1 1/2.
2a. *Cyrtomaia Goodridgii*, Mc. Ardle, x 2.

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PHYSICS 311

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1962-63

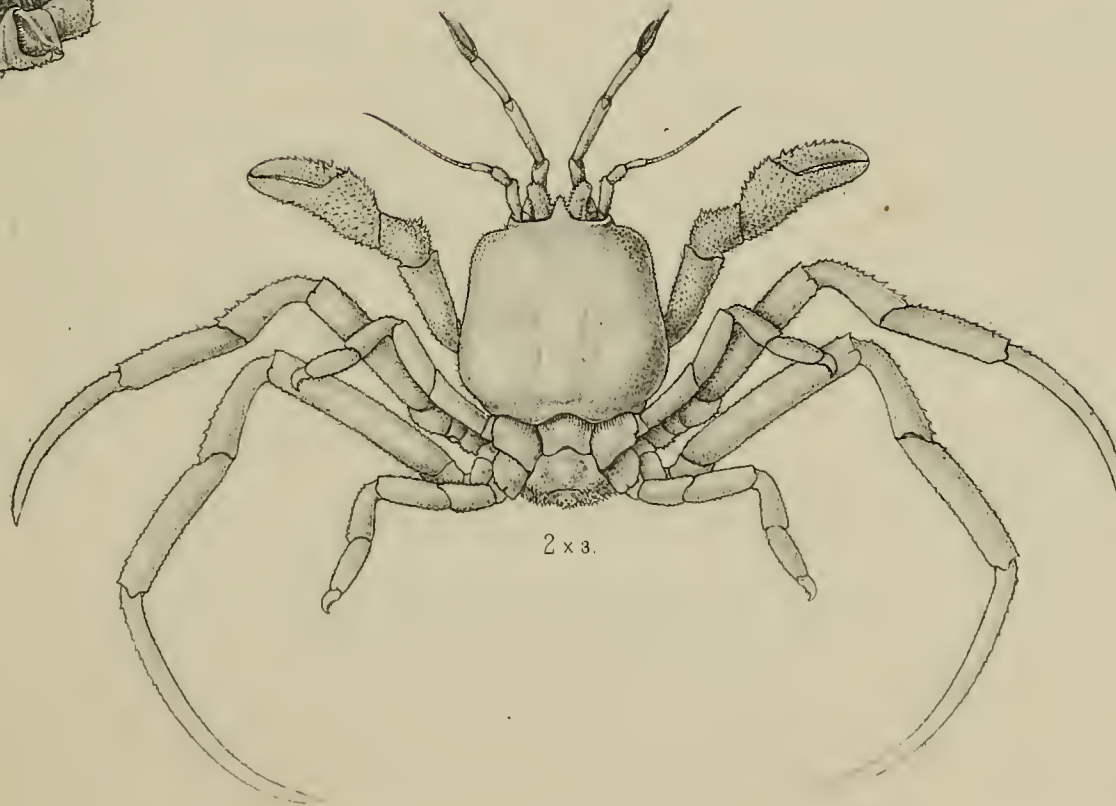
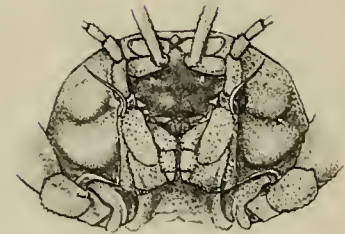
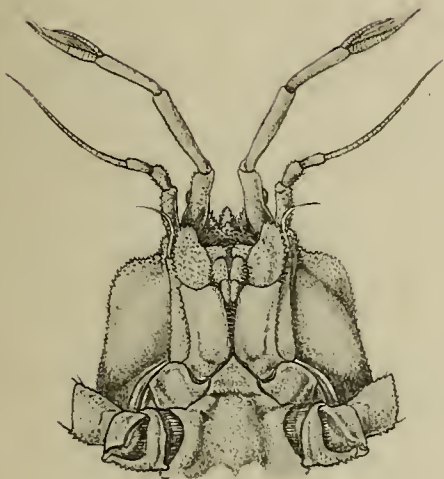
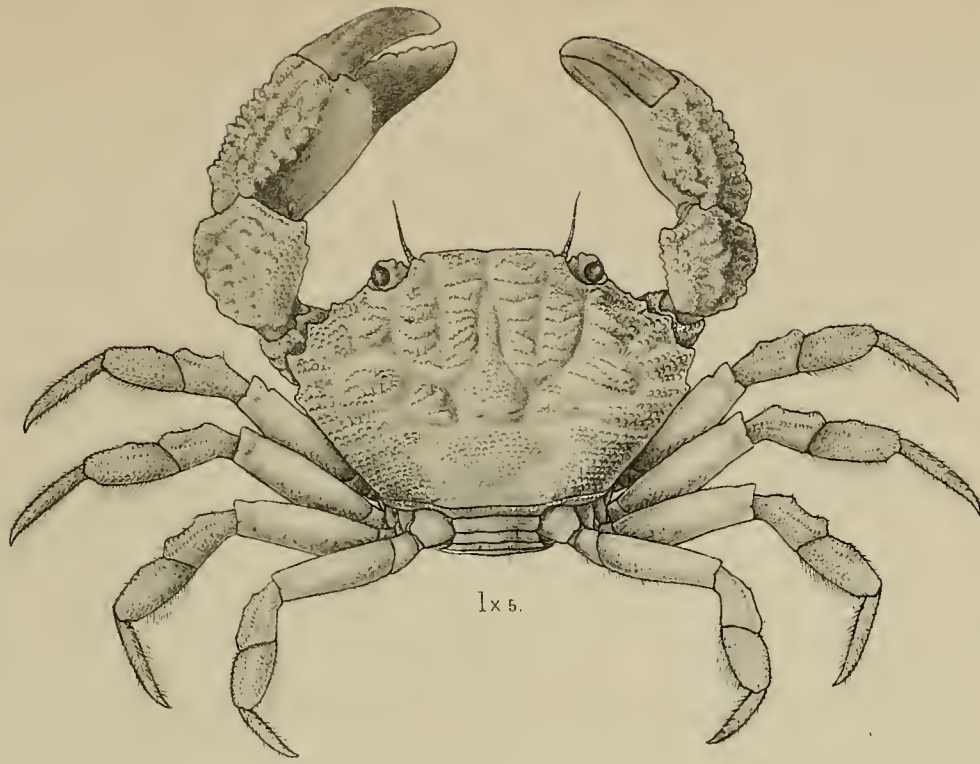
EXPLANATION OF PLATE.

—◆—
CRUSTACEA (MALACOSTRACA).
—◆—

PLATE LXXIX.

Fig. 1.—*Xanthodes cumatodes*, A. C. MacGilchrist, Ann. Mag. Nat. Hist., Ser. 7, Vol. XV, 1905, p. 258.

Figs. 2, 2b.—*Cymonomus andamanicus*, A. Alcock, *Op. cit.*, p. 568.



1. *Xanthodes cumatodes*, Mac Gilchrist x 5. 2. *Cymonomus andamanicus*, Alcock x 3. 2a. 2b. *Cymonomus andamanicus*, Alcock x 4.

35 3608 ①

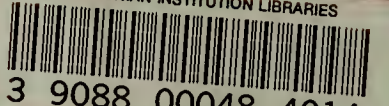
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