

ALLAN HANCOCK PACIFIC EXPEDITIONS

VOLUME 21

PART 2

BRACHYURA OF THE PACIFIC
COAST OF AMERICA
OXYRHYNCHA

TABLES AND PLATES

BY

JOHN S. GARTH



THE UNIVERSITY OF SOUTHERN CALIFORNIA PRESS
LOS ANGELES, CALIFORNIA

1958

Hans G. Kuck

12. Feb. 1993

LACM NH

(213) 744-3450

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*To Hans Fack
with sincere regards
and best wishes.*

*John S. Garth
Dec. 23, 1992*

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PLATES

EXPLANATION OF PLATES

Plates of line drawings are lettered from A to Z and from Z₁ to Z₄, with figure numbers on the last four plates running consecutively. Plates of photographs are numbered from 1 to 55.

All line drawings were made by Anker Petersen, former staff artist, Allan Hancock Foundation, with the exception of the following: plate D, figs. 1 and 6 of plate K, and plate Z by Glennis Sayers; figs. 3 and 3a of plate U by Jens W. Knudsen, Jr.

The photographs of the Majidae were taken by Daniel Chapman, William Fortin, and Royford George, successive staff photographers of the Allan Hancock Foundation. The photographs of the Parthenopidae and Hymenosomidae were taken by Mervin Slawson of Santa Maria, California. The photographs for plate 38 were provided by Dr. A. Panning of the Hamburg Museum. All photographs were mounted and where necessary retouched by Jens W. Knudsen, Jr.

Locality and depth data for the *Velero III* and *Velero IV* station numbers cited, and for stations made by shore-based Allan Hancock Foundation field parties, will be found by consulting the Table of Material Examined for the species concerned.

PLATE A

Inachinae

Eucinetops rubellula Rathbun

Male neotype (U.S.N.M. No. 74440)

- Fig. 1. Dorsal view, x 8.
Fig. 2. Dorsal view of orbit, x 14.5.
Fig. 3. Left chela, x 11.
Fig. 4. Ventral view of orbit, x 14.5.
Fig. 5. Male abdomen, x 15.
Fig. 6. Right outer maxilliped, x 29.

Eucinetops lucasi Stimpson

- Fig. 7. Dorsal view of orbit, x 6.

Eucinetops panamensis Rathbun

- Fig. 8. Dorsal view of orbit, x 7.5.

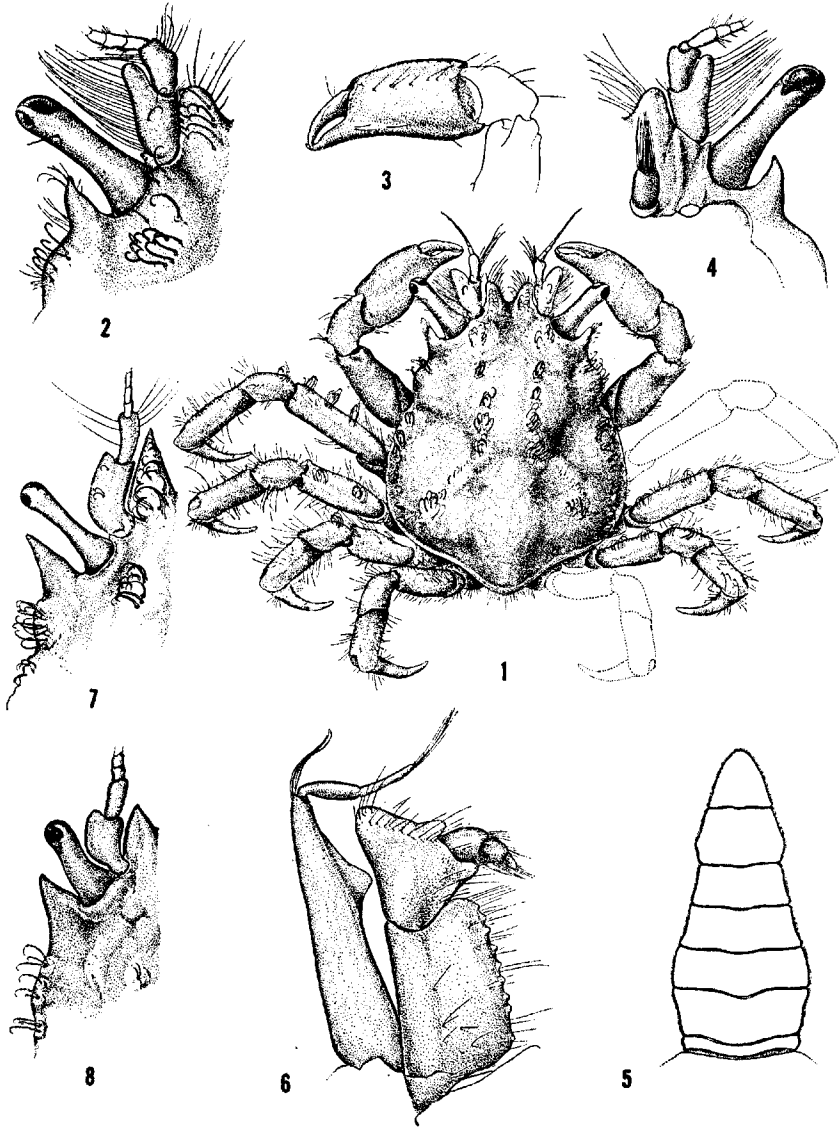


PLATE B

Inachinae

Right first pleopods of

- Fig. 1. *Eurypodius latreillei* Guérin, 52.0 mm male, *Velero III* Sta. 829-38, x 81.4.
- Fig. 2. *Eurypodius longirostris* Miers, 19.0 mm male holotype, *Challenger* Sta. 308, x ? [Redrawn from a camera lucida sketch by Dr. Isabella Gordon of the British Museum (Natural History).]
- Fig. 3. *Anomalothir hoodensis* Garth, 9.6 mm male allotype, *Velero III* Sta. 817-38, x 159.3.
- Fig. 4. *Eucinetops lucasi* Stimpson, 14.7 mm male, *Velero III* Sta. 713-37, x 81.4.
- Fig. 5. *Eucinetops panamensis* Rathbun, 9.8 mm male, *Velero III* Sta. 400-35, x 136.6.
- Fig. 6. *Eucinetops rubellula* Rathbun, 5.0 mm male neotype, Mazatlan, Mexico, H. N. Lowe (U.S.N.M. No. 74440), x 218.
- Fig. 7. *Stenorynchus debilis* Smith, 28.0 mm male, *Velero III* Sta. 1045-40, x 81.4.
- Fig. 8. *Euprognatha bifida* Rathbun, 10.7 mm male, *Velero III* Sta. 699-37, x 81.4.
- Fig. 9. *Euprognatha granulata* Faxon, 9.8 mm male, *Velero III* Sta. 792-38, x 196.

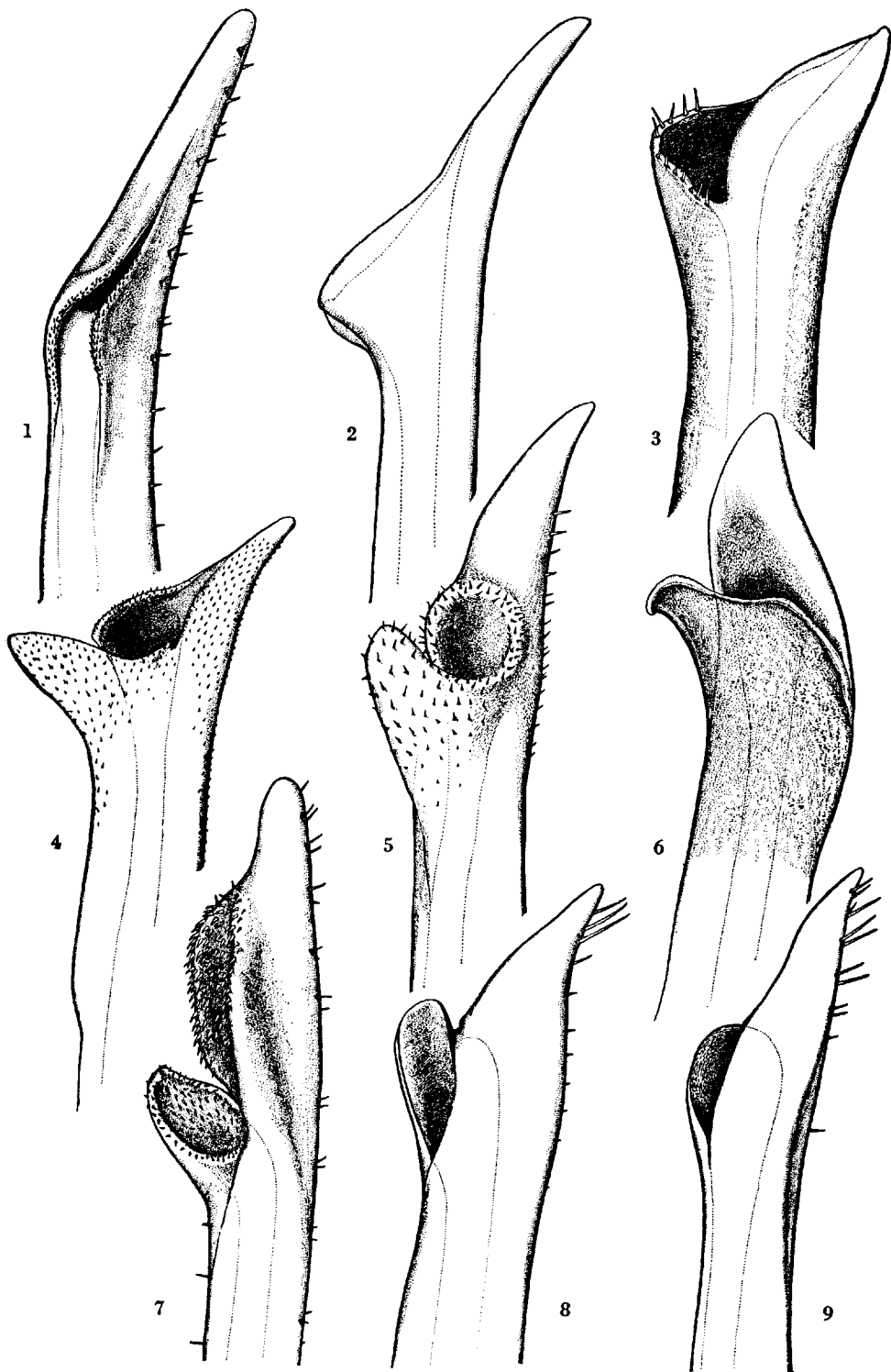
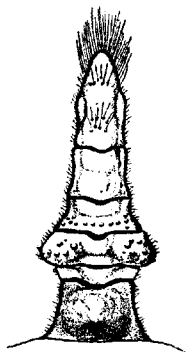


PLATE C

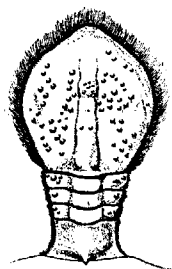
Inachinae

Collodes gibbosus (Bell)
Male, *Valero III* Sta. 216-34

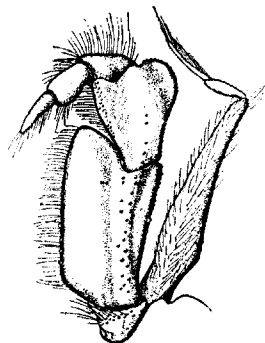
- Fig. 1. Dorsal view.
- Fig. 2. Right cheliped.
- Fig. 3. Dorsal view of orbit.
- Fig. 4. Ventral view of orbit.
- Fig. 5. Male abdomen.
- Fig. 6. Female abdomen.
- Fig. 7. Left outer maxilliped.



2 mm 5



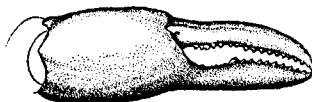
2 mm 6



1 mm 7



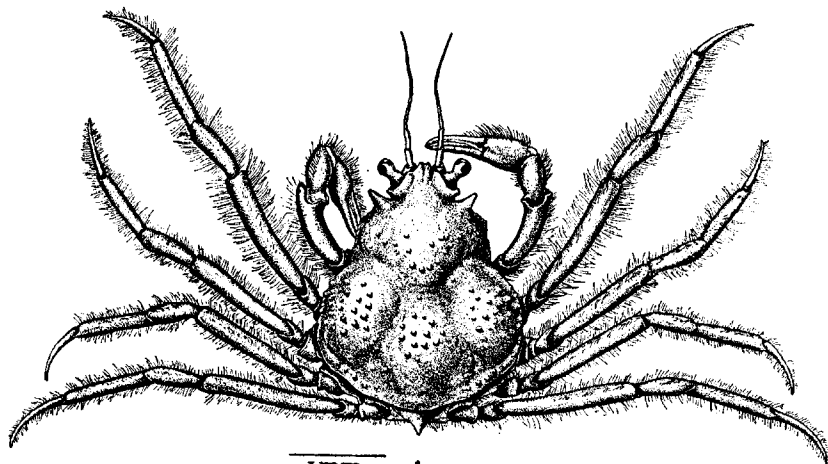
1 mm 3



1 mm 2



1 mm 4



3 mm 1

PLATE D

Inachinae

Collodes robsonae, new species
Female holotype (A.H.F. No. 397)

- Fig. 1. Dorsal view, x 1.05.
- Fig. 2. Right chela (tip of dactyl broken), x 4.2.
- Fig. 3. Left chela, x 4.2.
- Fig. 4. Left outer maxilliped, x 5.
- Fig. 5. Abdomen, x 2.1.
- Fig. 6. Ventral view of orbit, x 5.

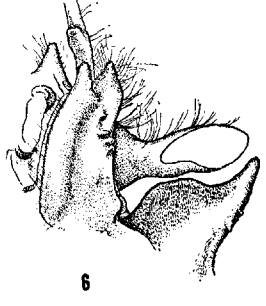
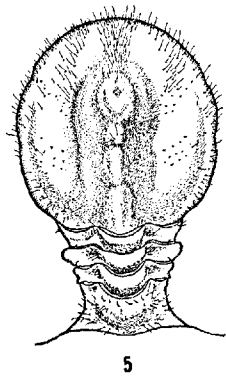
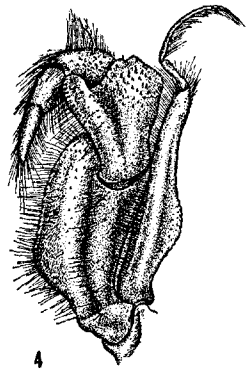
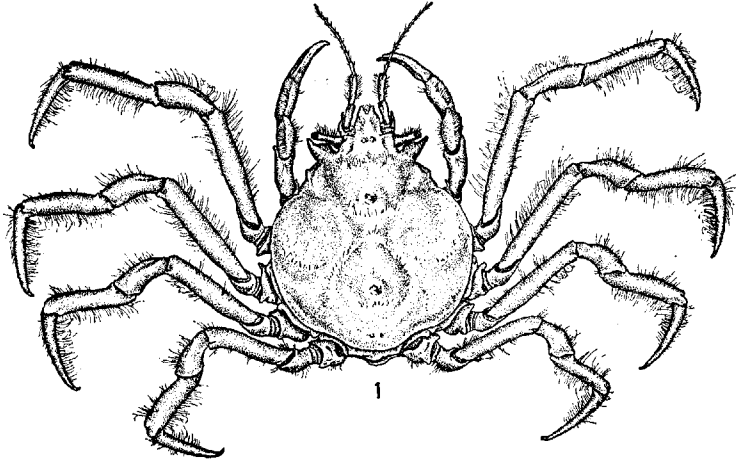
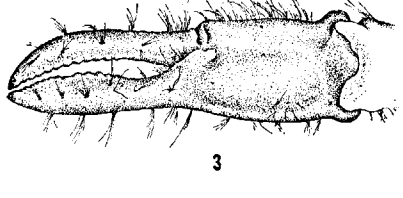
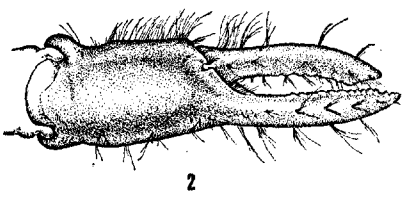


PLATE E

Inachinae

Right first pleopods of

- Fig. 1. *Collodes gibbosus* (Bell), 13.2 mm male, *Velero III* Sta. 850-38, x 87.8.
- Fig. 2. *Collodes granosus* Stimpson, 7.3 mm male, *Velero III* Sta. 434-35, x 116.1.
- Fig. 3. *Collodes tenuirostris* Rathbun, 26.2 mm male, *Velero III* Sta. 1054-40, x 59.5.
- Fig. 4. *Collodes tumidus* Rathbun, 13.3 mm male, *Velero III* Sta. 562-36, x 116.1.
- Fig. 5. *Paradasyggius depressus* (Bell), 27.7 mm male, *Velero III* Sta. 941-39, x 87.8.
- Fig. 6. *Inachoides laevis* Stimpson, 8.8 mm male, *Velero III* Sta. 934-39, x 141.6.
- Fig. 7. *Pyromaia tuberculata* (Lockington), 15.7 mm male, *Velero III* Sta. 1233-41, x 116.1.
- Fig. 8. *Erileptus spinosus* (Rathbun), 11.0 mm male, *Velero III* Sta. 990-39, x 181.7.
- Fig. 9. *Inachoides microrhynchus* Milne Edwards and Lucas, 19.6 mm male, *Velero III* Sta. 845-38, x 116.1.

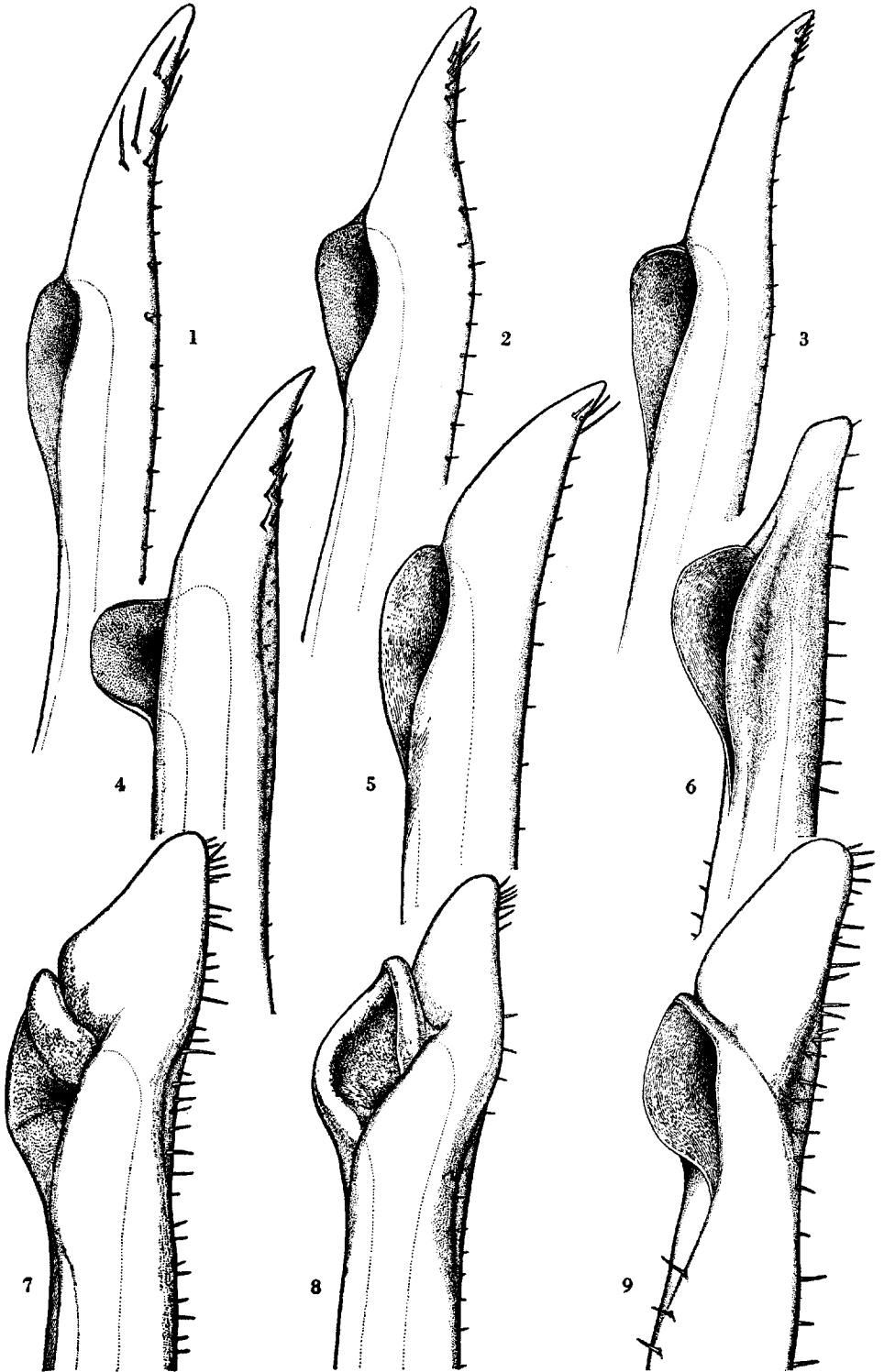


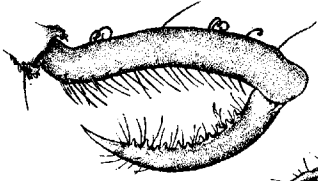
PLATE F

Inachinae

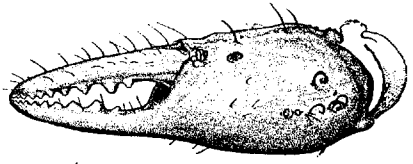
Podochela angulata Finnegan

Male

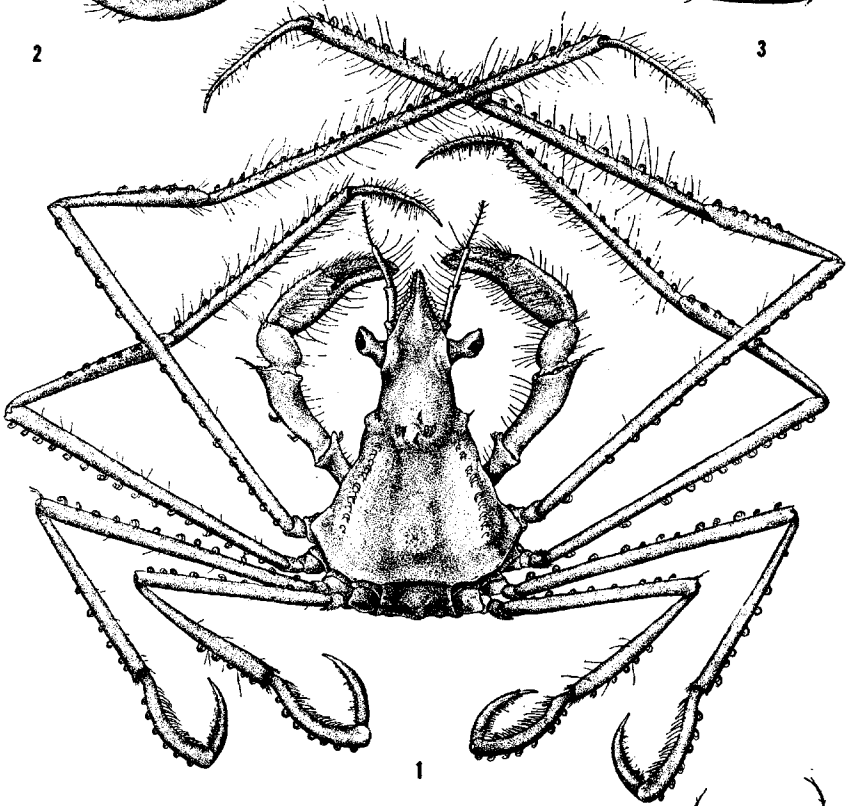
- Fig. 1. Dorsal view, x 6.9.
- Fig. 2. Right fourth dactyl, x 8.7.
- Fig. 3. Left chela, x 8.7.
- Fig. 4. Right outer maxilliped, x 8.7.
- Fig. 5. Male abdomen, x 6.9.
- Fig. 6. Ventral view of front, x 9.6.



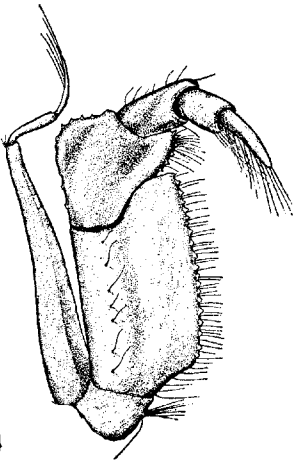
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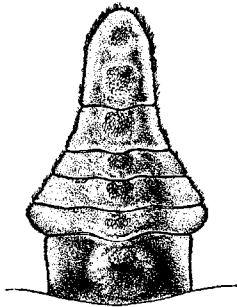
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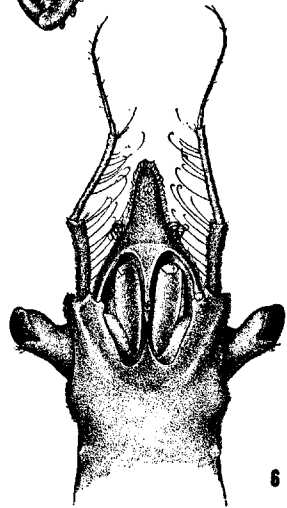
1



4



5



6

PLATE G

Inachinae

Podochela veleronis, new species
Male holotype (A.H.F. No. 393)

- Fig. 1. Dorsal view, x 5.1.
- Fig. 2. Ventral view of front, x 11.1.
- Fig. 3. Lateral view of carapace, x 6.8.
- Fig. 4. Right outer maxilliped, x 25.5.
- Fig. 5. Male abdomen, x 11.1.
- Fig. 6. Right fourth walking leg, x 11.9.
- Fig. 7. Left chela, x 15.3.

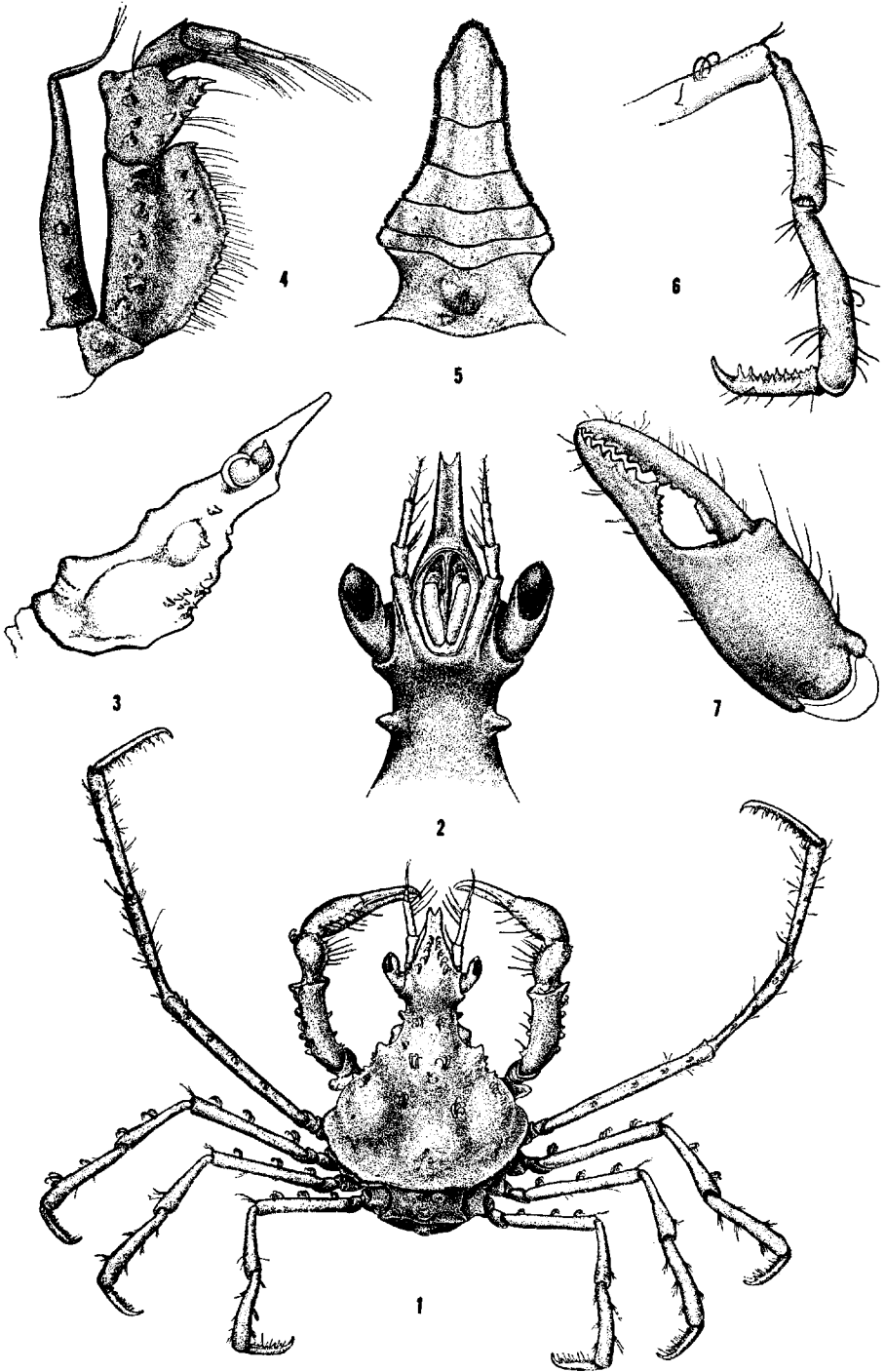


PLATE H

Inachinae

Right first pleopods of *Podochela* species

- Fig. 1. *P. lobifrons* Rathbun (= *P. barbarensis* Rathbun), 21.1 mm male, *Velero III* Sta. 1275-41, x 61.4.
- Fig. 2. *P. schmitti* Garth, 12.3 mm male paratype, *Velero III* Sta. 795-38, x 82.6.
- Fig. 3. *P. angulata* Finnegan, 12.6 mm male, *Velero III* Sta. 945-39, x 99.1.
- Fig. 4. *P. latimanus* Rathbun, 22.3 mm male, *Velero III* Sta. 585-36, x 61.4.
- Fig. 5. *P. veleronis* Garth, 6.5 mm male, *Velero III* Sta. 450-35, x 121.5.
- Fig. 6. *P. hemphilli* (Lockington), 33.6 mm male, *Velero III* Sta. 895-38, x 61.4.
- Fig. 7. *P. vestita* (Stimpson), 21.5 mm male, *Zaca* Sta. 136 (N.Y.Z.S.), x 61.4.
- Fig. 8. *P. margaritaria* Rathbun, 14.3 mm male, *Velero III* Sta. 307-35, x 61.4.
- Fig. 9. *P. ziesenhenei* Garth, 8.0 mm male, *Velero III* Sta. 239-34, x 121.5.

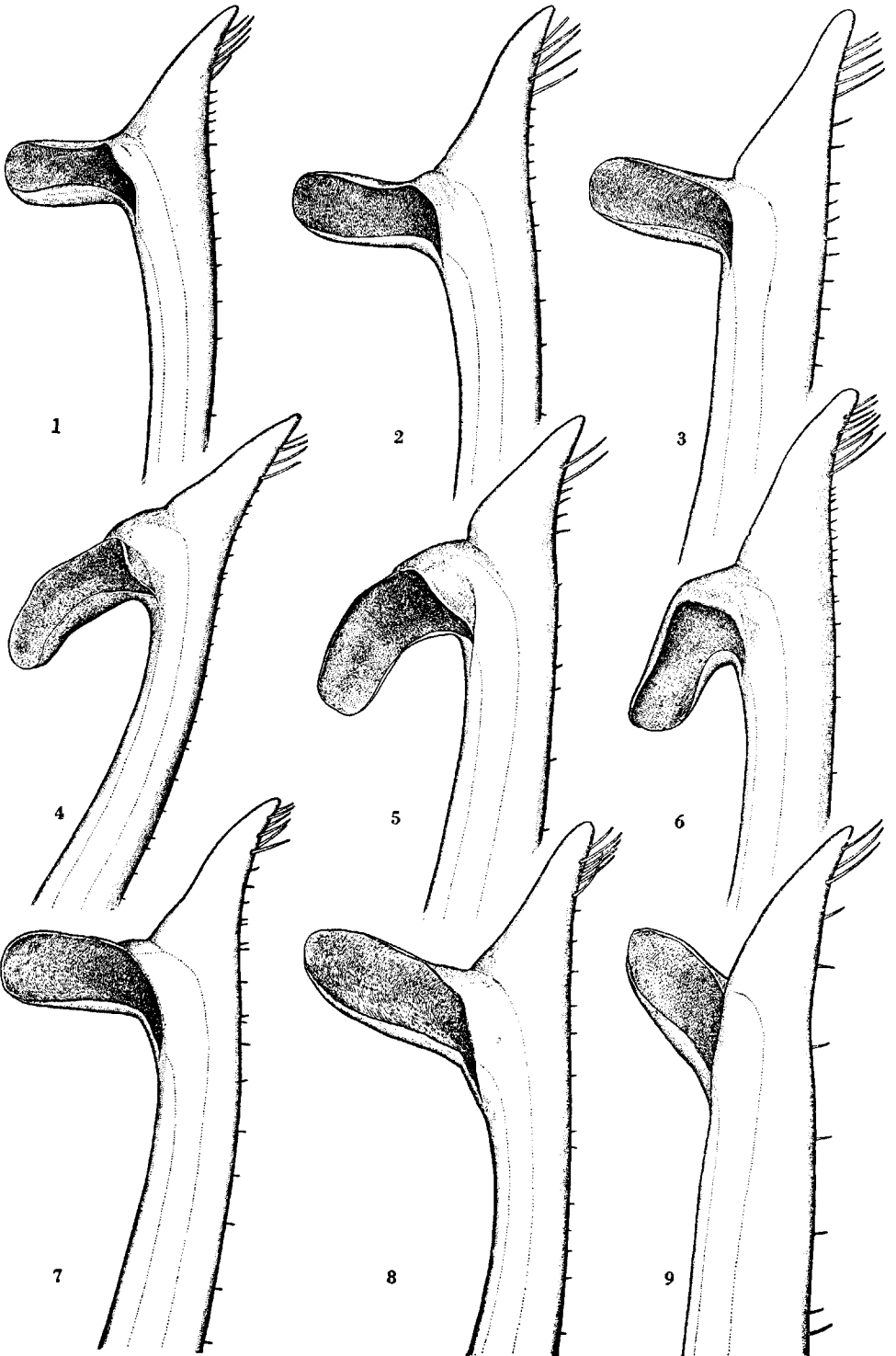


PLATE I

Oregoniinae

Right first pleopods of

- Fig. 1. *Oregonia bifurca* Rathbun, 31.8 mm male, *Albatross* Sta. 4771 (U.S.N.M. No. 46488), x 54.6.
- Fig. 2. *Oregonia gracilis* Dana, 35.5 mm male, *N. B. Schofield* permanent Sta. 291 (C.A.S. locality 31156), x 54.6.
- Fig. 3. *Hyas lyratus* Dana, 48.8 mm male, *Albatross* Sta. 3233 (U.S.N.M. No. 15906), x 36.9.
- Fig. 4. *Hyas coarctatus alutaceus* Brandt, 46.8 mm male, *Albatross* Sta. 3251 (U.S.N.M. No. 15873), x 40.1.
- Fig. 5. *Chionoecetes opilio* (O. Fabricius), 69.3 mm male, *Albatross* Sta. 3440 (U.S.N.M. No. 17075), x 16.
- Fig. 6. *Chionoecetes bairdi* Rathbun, 82.3 mm male, Vancouver, B. C., *Investigator*, x 12.7.
- Fig. 7. *Chionoecetes angulatus* Rathbun, 24.6 mm male, *Albatross* Sta. 2860 (U.S.N.M. No. 15478), x 50.2.
- Fig. 8. *Chionoecetes tanneri* Rathbun, 31.0 mm male, *Albatross* Sta. 5698 (U.S.N.M. No. 47096), x 50.2.
- Fig. 9. *Chionoecetes bairdi* Rathbun, 25.2 mm male, Unalaska, W. H. Dall (U.S.N.M. No. 14675), x 48.1.

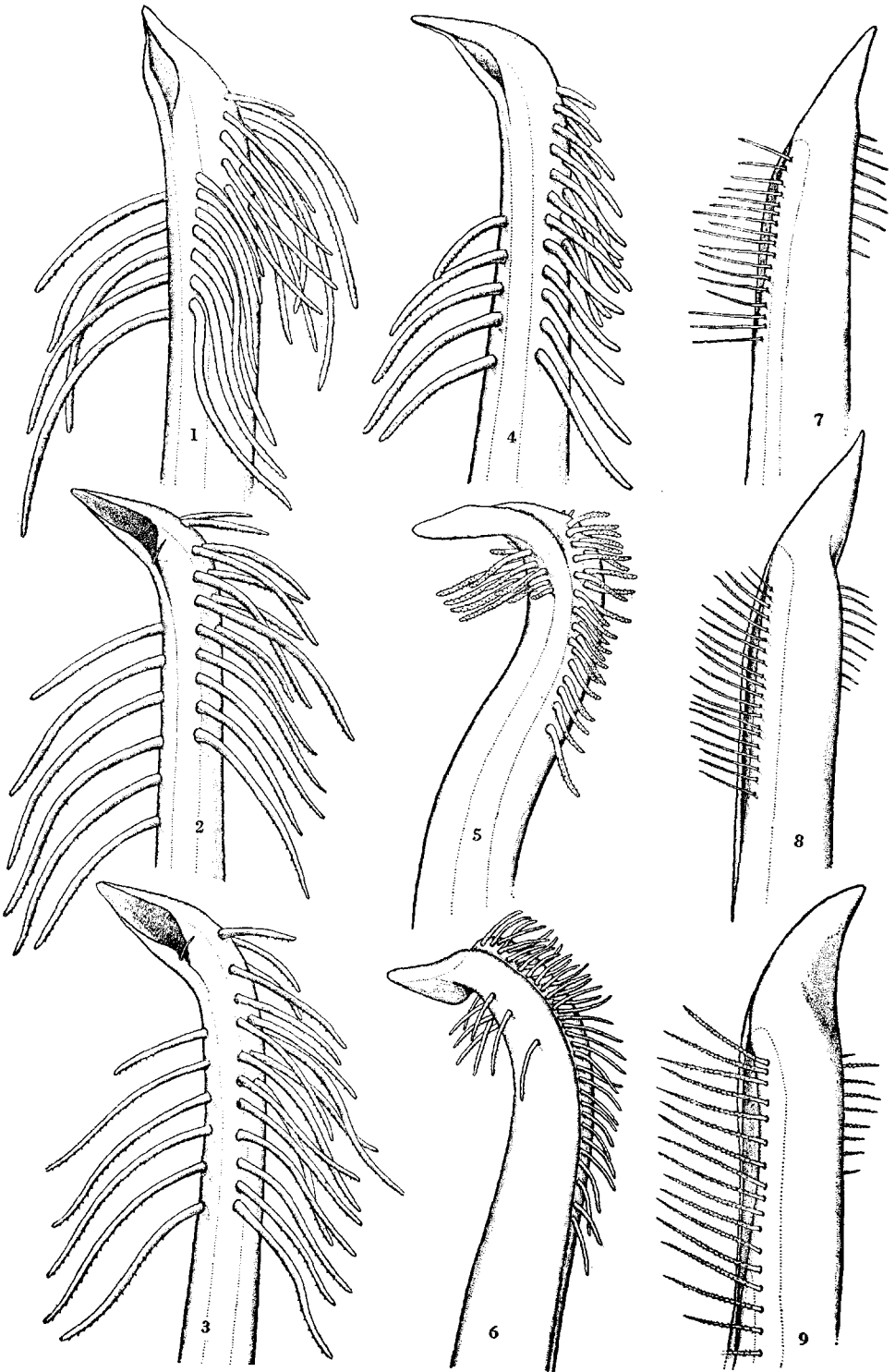


PLATE J

Ophthalmiinae

Right first pleopods of

- Fig. 1. *Pitho picteti* (Saussure), 18.5 mm male, *Velero III* Sta. 1088-40, x 105.5.
1a. Same specimen, pleopods *in situ*, x 10.5.
- Fig. 2. *Pitho quinquedentata* Bell, 10.4 mm male, *Velero III* Sta. 5-33, x 140.5.
2a. Same specimen, pleopods *in situ*, x 21.
- Fig. 3. *Pitho sexdentata* Bell, 13.2 mm male, *Velero III* Sta. 400-35, x 140.5.
3a. Same specimen, pleopods *in situ*, x 24.5.
- Fig. 4. *Tyche lamellifrons* Bell, 16.4 mm male, *Velero III* Sta. 662-37, x 80.8.
- Fig. 5. *Tyche clarionensis*, new species, 20.8 mm male holotype, *Velero III* Sta. 303-34 (A.H.F. No. 344), x 80.8.
- Fig. 6. *Tyche galapagensis*, new species, 24.0 mm male, *Velero III* Sta. 343-35, x 105.5.

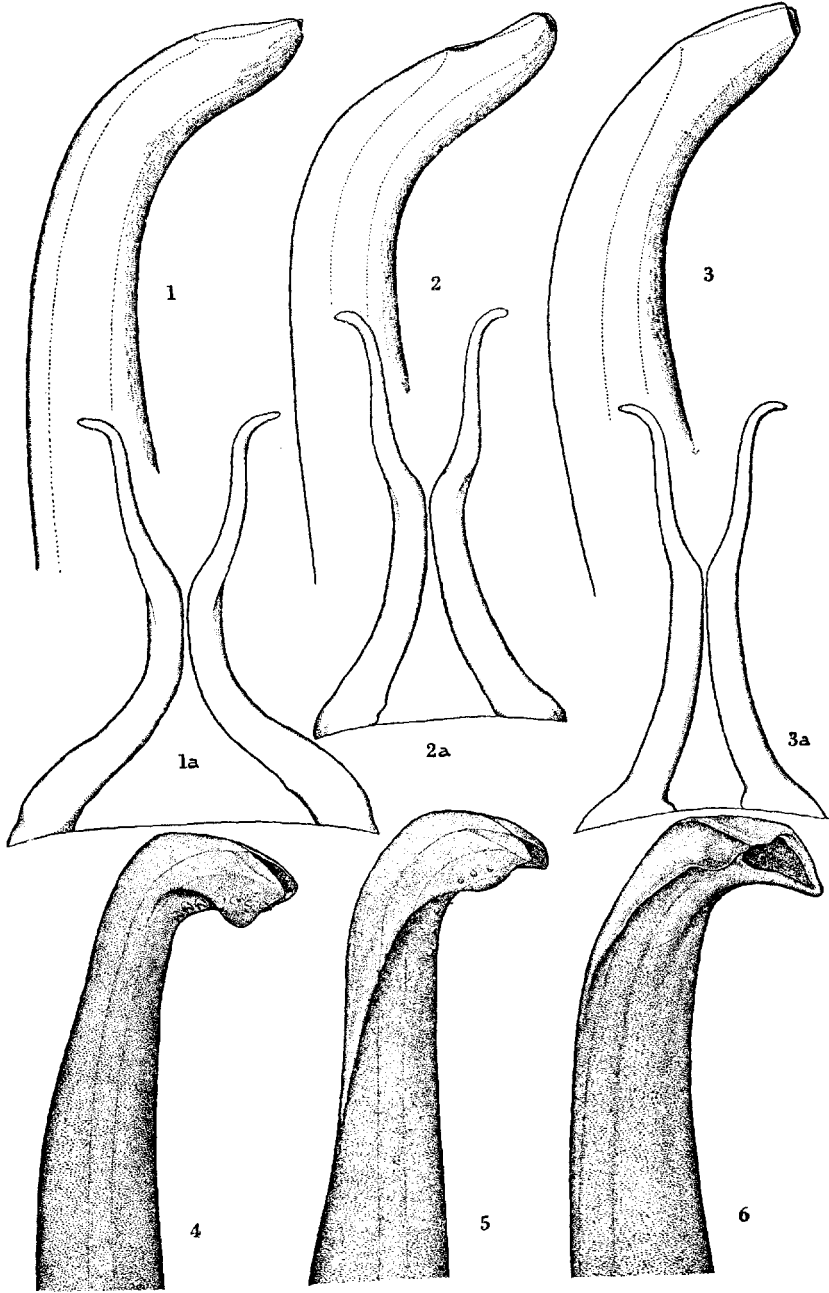


PLATE K

Acanthonychinae

Pugettia hubbsi, new species
Male holotype (A.H.F. No. 496)

- Fig. 1. Dorsal view, x 4.5.
- Fig. 2. Male abdomen, x 9.
- Fig. 3. Left chela, x 6.
- Fig. 4. Ventral view of orbit, x 8.5.
- Fig. 5. Left outer maxilliped, x 6.
- Fig. 6. Female abdomen (not allotype), x 22.5.

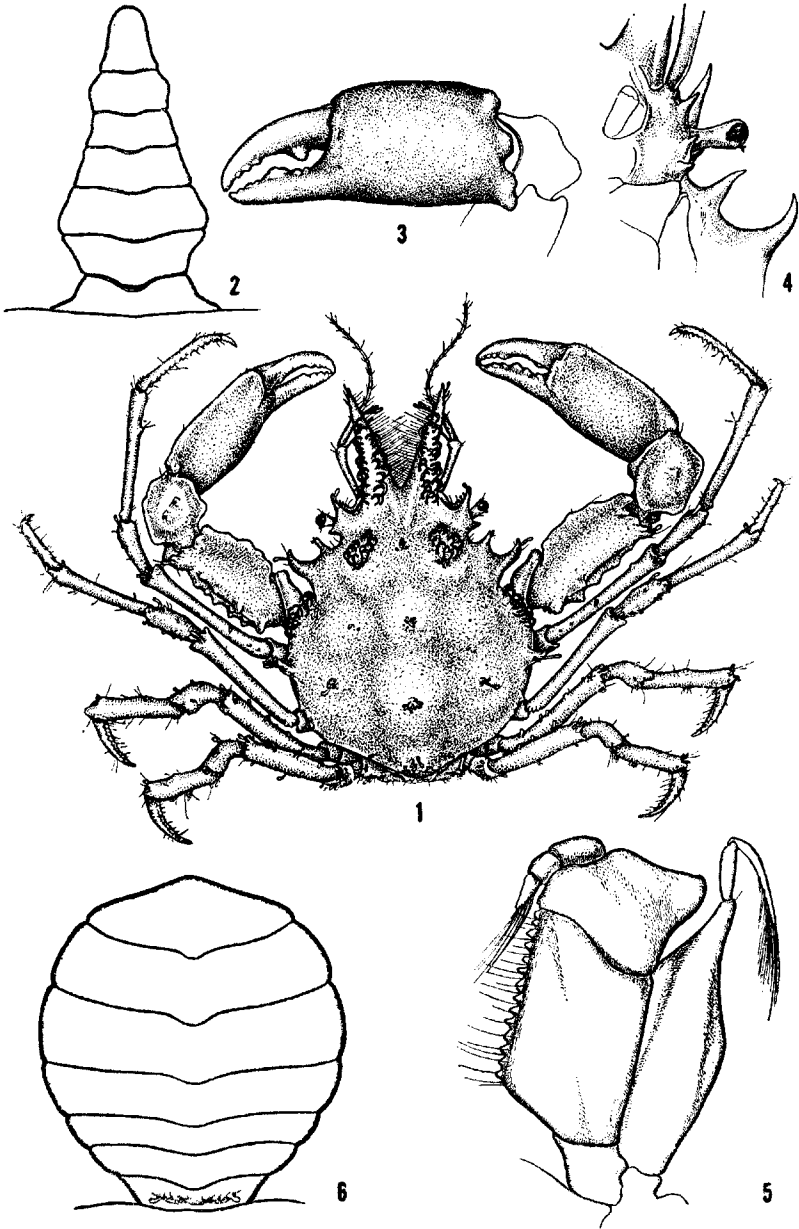


PLATE L

Acanthonychinae

Right first pleopods of

- Fig. 1. *Mimulus foliatus* Stimpson, 23.3 mm male, Hancock Sta. 1576-46, x 33.
- Fig. 2. *Pugettia producta* (Randall), 47.8 mm male, *Velero III* Sta. 1189-40, x 8.6.
- Fig. 3. *Pugettia richi* Dana, 40.3 mm male, Hancock Sta. 1490-42, x 28.6.
- Fig. 4. *Pugettia gracilis* Dana, 35.5 mm male, Hancock Sta. 1464-42, x 20.
- Fig. 5. *Pugettia venetiae* Rathbun, 16.2 mm male, *Velero III* Sta. 1123-40, x 41.3.
- Fig. 6. *Pugettia dalli* Rathbun, 18.0 mm male, *Velero III* Sta. 1224-41, x 61.4.
- Fig. 7. *Pugettia hubbsi*, new species, 10.5 mm male holotype, *Velero IV* Sta. 1922-49 (A.H.F. No. 496), x 59.
- Fig. 8. *Taliepus nuttalli* (Randall), 47.2 mm male, *Velero III* Sta. 1437-41, x 21.5.
- Fig. 9. *Taliepus dentatus* (Milne Edwards), 94.5 mm male, *Albatross*, Feb. 9-10, 1888 (U.S.N.M. No. 21903), x 29.
- Fig. 10. *Taliepus marginatus* (Bell), 87.0 mm male, L.U.C.E. Sta. M123, x 26.7.



PLATE M

Acanthonychinae

Epialtoides paradigmus, new species
Male holotype (A.H.F. No. 404)

- Fig. 1. Dorsal view, x 3.5.
- Fig. 2. Right outer maxilliped, x 17.
- Fig. 3. Ventral view of front, x 7.
- Fig. 4. Male abdomen, x 11.
- Fig. 5. Left fourth walking leg, x 10.
- Fig. 6. Left cheliped, outer view, x 3.5.

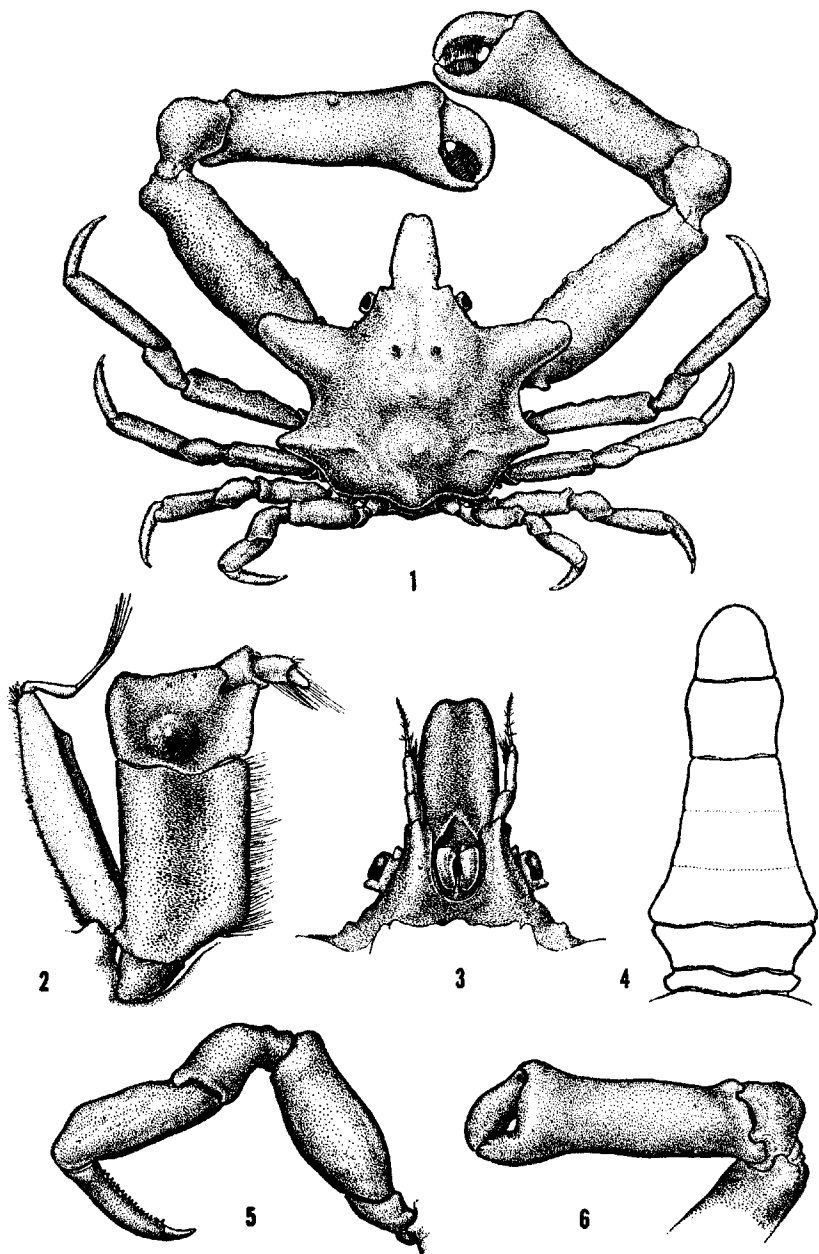


PLATE N

Acanthonychinae

Eupleurodon trifurcatus Stimpson
Female, *Velero III* Sta. 403-35

- Fig. 1. Dorsal view, x 7.2.
- Fig. 2. Right outer maxilliped, x 22.
- Fig. 3. Ventral view of front, x 10.9.
- Fig. 4. Female abdomen, x 12.1.
- Fig. 5. Right cheliped, x 24.2.
- Fig. 6. Left fourth walking leg, x 15.8.

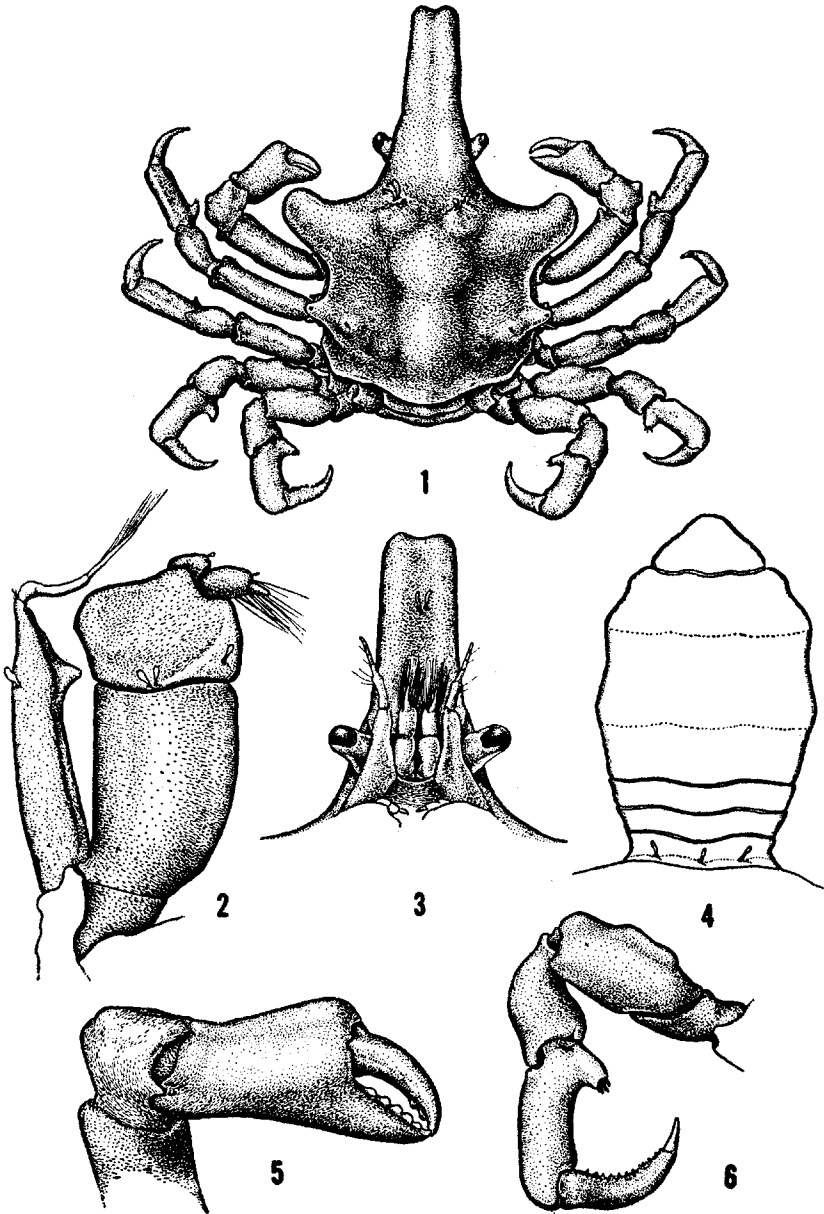


PLATE O

Acanthonychinae

Right first pleopods of

- Fig. 1. *Sphenocarcinus agassizi* Rathbun, 30.0 mm male, *Velero III* Sta. 1037-40, x 94.3.
- Fig. 2. *Leucippa pentagona* Milne Edwards, 4.1 mm male, *Albatross* Sta. 2833 (U.S.N.M. No. 21902), x 345.
- Fig. 3. *Acanthonyx petiveri* Milne Edwards, 34.6 mm male, *Velero III* Sta. 374-35, x 47.2.
3a. Same specimen, reverse view, x 28.1.
- Fig. 4. *Epialtus minimus* Lockington, 16.5 mm male, *Velero III* Sta. 1045-40, x 125.3.
- Fig. 5. *Epialtus minimus* Lockington, 8.7 mm male, Dawson Sta. 126, x 203.6.
- Fig. 6. *Epialtus sulcirostris* Stimpson, 11.0 mm male, San Marcos Island, Lower California, Johnson and Baker (C.A.S.), x 203.6.
- Fig. 7. *Epialtoides hiltoni* (Rathbun), 8.0 mm male, Menzies Sta. 139, x 94.3.
- Fig. 8. *Epialtoides paradigmus*, new species, 8.0 mm male, *Velero III* Sta. 970-39, x 128.3.
- Fig. 9. *Eupleurodon peruvianus* (Rathbun), 9.5 mm male, Punta Santa Elena, Ecuador, W. L. Schmitt (U.S.N.M. No. 70938), median view, x 94.3.
9a. Same specimen, normal view, x 94.3.

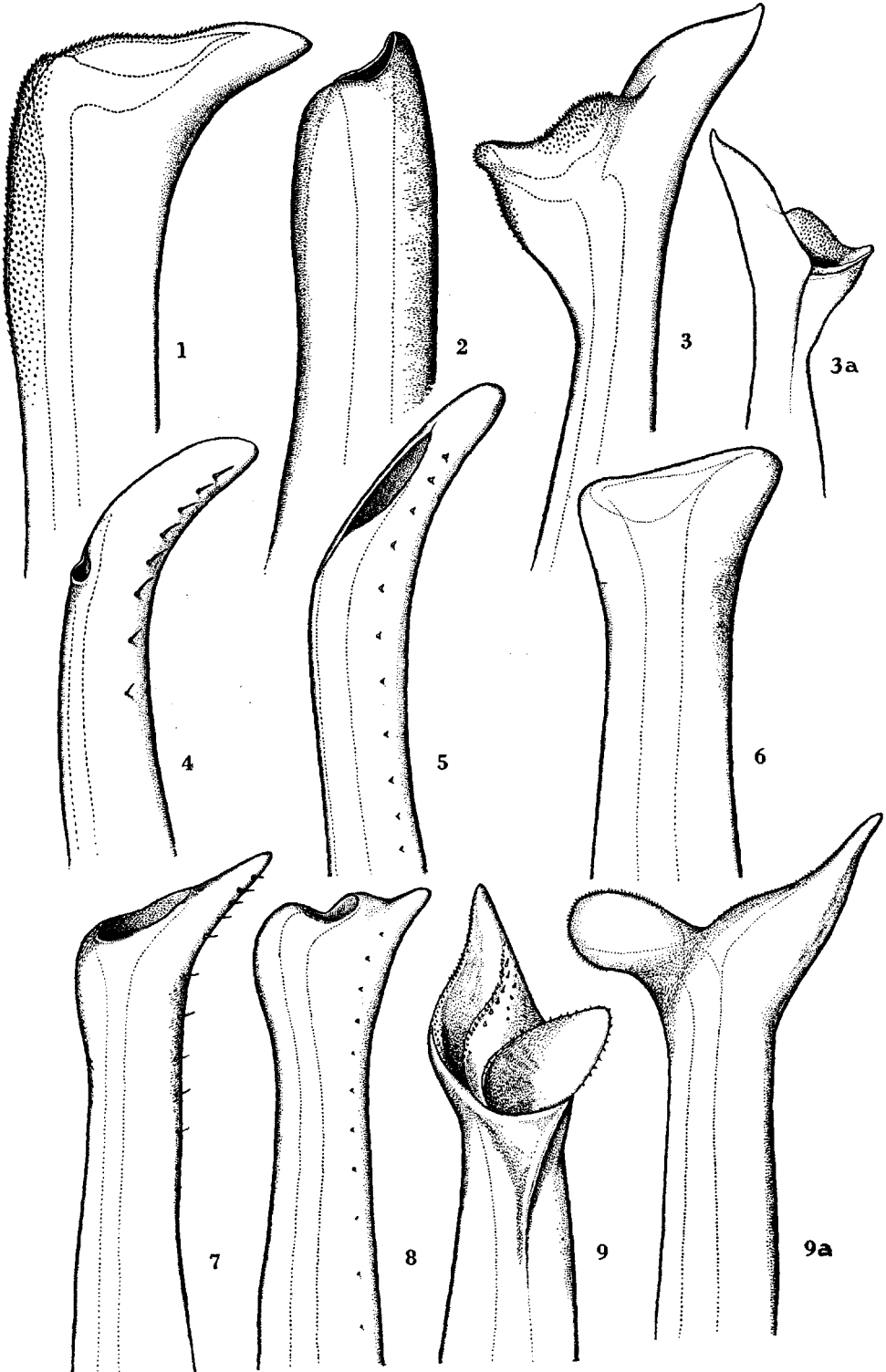


PLATE P

Pisinae

Right first pleopods of

- Fig. 1. *Scyra acutifrons* Dana, 46.5 mm male, Hancock Sta. 1488-42, x 59.
- Fig. 2. *Loxorhynchus grandis* Stimpson, 190.0 mm male, Santa Catalina Island, California, x 17.7.
- Fig. 3. *Loxorhynchus crispatus* Stimpson, 119.0 mm male, *Velero III* Sta. 1419-41, x 34.2.
- Fig. 4. *Chorilia longipes* Dana, 50.4 mm male, Anacortes, Washington, x 34.2.
- Fig. 5. *Chorilia longipes turgida* Rathbun, 70.8 mm male, *Velero III* Sta. 1156-40, x 29.5.
- Fig. 6. *Rochinia vesicularis* (Rathbun), 19.6 mm male, *Velero III* Sta. 1119-40, x 84.9.
- Fig. 7. *Libidoclaea granaria* Milne Edwards and Lucas, 35.9 mm male, *Albatross* Sta. 2767 (U.S.N.M. No. 21919), x 68.4.
- Fig. 8. *Libidoclaea granaria smithi* (Miers), 23.8 mm male, *Albatross* Sta. 2787 (U.S.N.M. No. 21923), x 68.4.



PLATE Q

Pisinae

Right first pleopods of

- Fig. 1. *Pelia tumida* (Lockington), 21.2 mm male, *Velero III* Sta. 1230-41, x 141.6.
- Fig. 2. *Pelia pacifica* Milne Edwards, 6.8 mm male, *Velero III* Sta. 465-35 (Costa Rica), x 98.5.
- Fig. 3. *Pelia pacifica* Milne Edwards, 9.0 mm male, Changamé, Panama, Elinor D. Robson, x 141.6.
- Fig. 4. *Pelia pacifica* Milne Edwards, 7.9 mm male, *Velero III* Sta. 847-38 (Peru), x 141.6.
- Fig. 5. *Pisoides edwardsi* (Bell), 14.7 mm male, *Velero III* Sta. 820-38, x 89.1.
- Fig. 6. *Rochinia cornuta* (Rathbun), 17.5 mm male (mid-line measurement), *Albatross* Sta. 2818 (U.S.N.M. No. 21572), x 89.1.
- Fig. 7. *Rochinia occidentalis* (Faxon), male holotype, *Albatross* Sta. 3404 (M.C.Z. No. 4479), x 33.
- Fig. 8. *Notolopas lamellatus* Stimpson, 18.5 mm male, *Velero III* Sta. 474-35, x 68.4.
- Fig. 9. *Notolopas mexicanus* Garth, 7.5 mm male holotype, *Velero III* Sta. 264-34 (U.S.N.M. No. 91081), x 141.6.

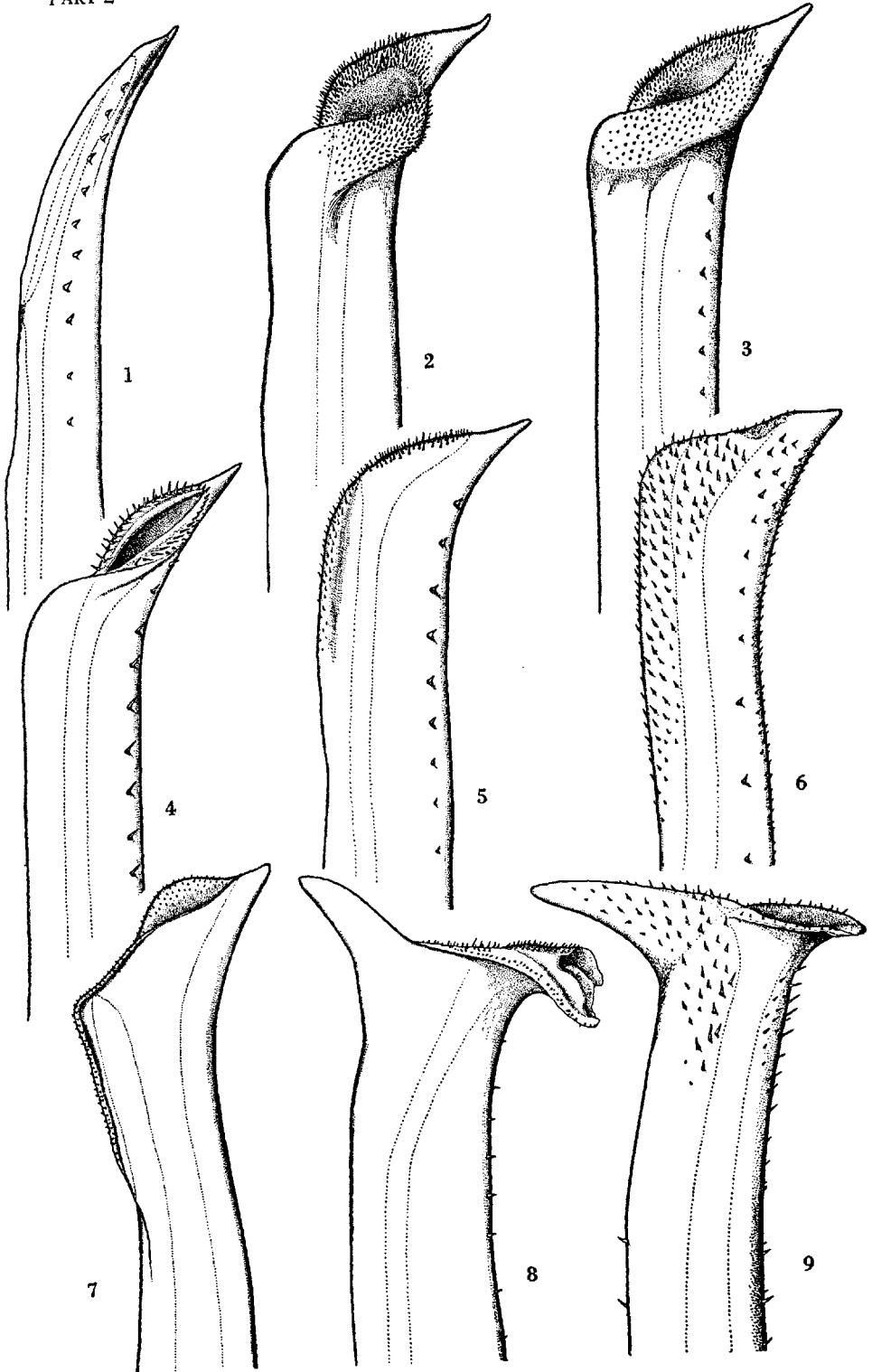


PLATE R

Pisinae

Herbstia tumida (Stimpson)Young male, *Velero III* Sta. 773-38

- Fig. 1. Dorsal view, x 5.6.
- Fig. 2. Right outer maxilliped, x 27.2.
- Fig. 3. Ventral view of front, x 13.6.
- Fig. 4. Right chela, x 13.6.
- Fig. 5. Male abdomen, x 13.6.

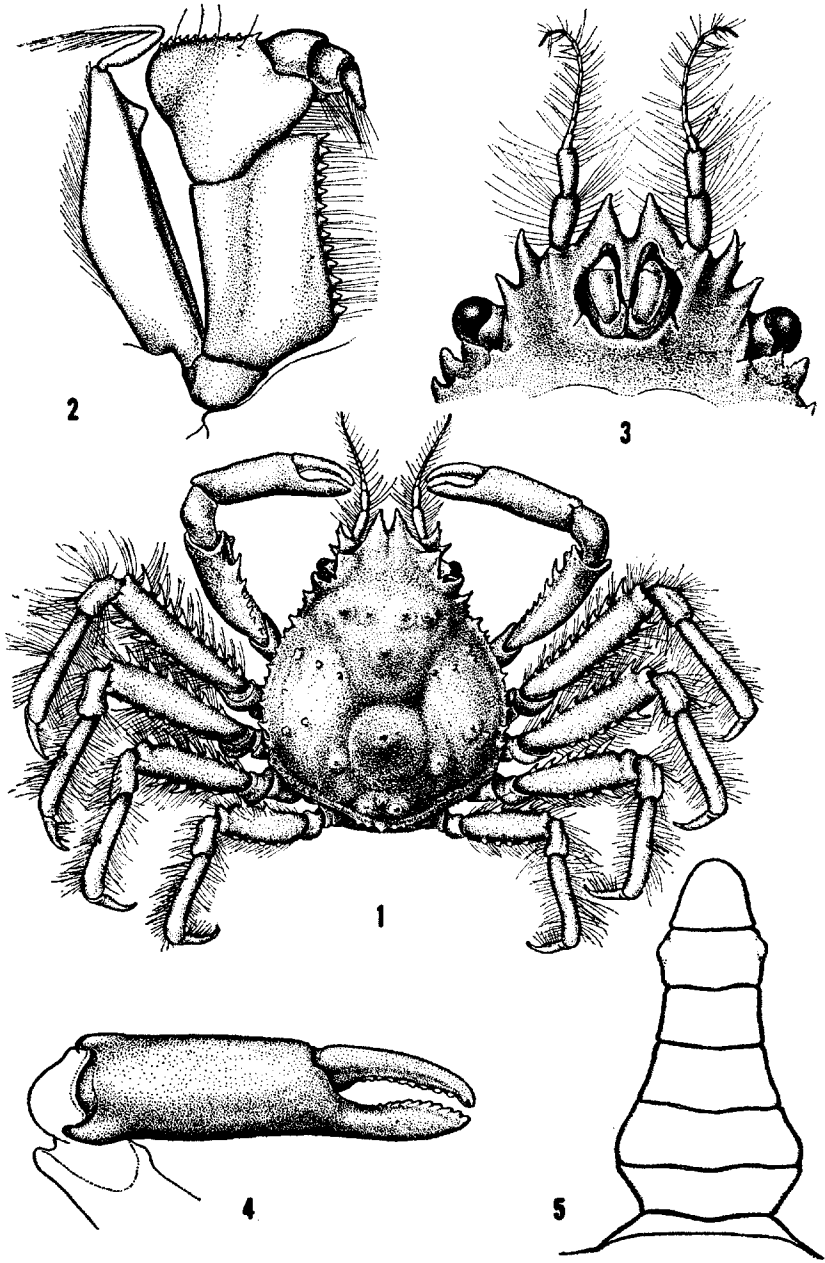


PLATE 5

Pisinae

Right first pleopods of *Herbstia* species

- Fig. 1. *H. camptacantha* (Stimpson), 13.5 mm male, *Velero III* Sta. 652-37, x 115.6.
- Fig. 2. *H. edwardsi* Bell, 13.1 mm male, *Velero III* Sta. 789-38, x 167.6.
- Fig. 3. *H. tumida* (Stimpson), 7.4 mm male, *Velero III* Sta. 773-38 (Cocos Island, C.R.), x 170 (inner view, aperture external).
- Fig. 4. *H. tumida* (Stimpson), 8.8 mm male, *Velero III* Sta. 252-34 (Secas Islands, Panama), x 141.6.
- Fig. 5. *H. parvifrons* (Randall), 32.5 mm male, *Velero III* Sta. 904-38, x 89.1.
- Fig. 6. *H. tumida* (Stimpson), 7.8 mm male, *Velero III* Sta. 247-34 (Bahía Honda, Panama), x 165.2 (external view).
- Fig. 7. *H. pubescens* Stimpson, 14.0 mm male, *Velero III* Sta. 464-35, x 80.2.
- Fig. 8. *H. pyriformis* (Bell), 21.3 mm male, *Velero III* Sta. 343-35, x 99.1.

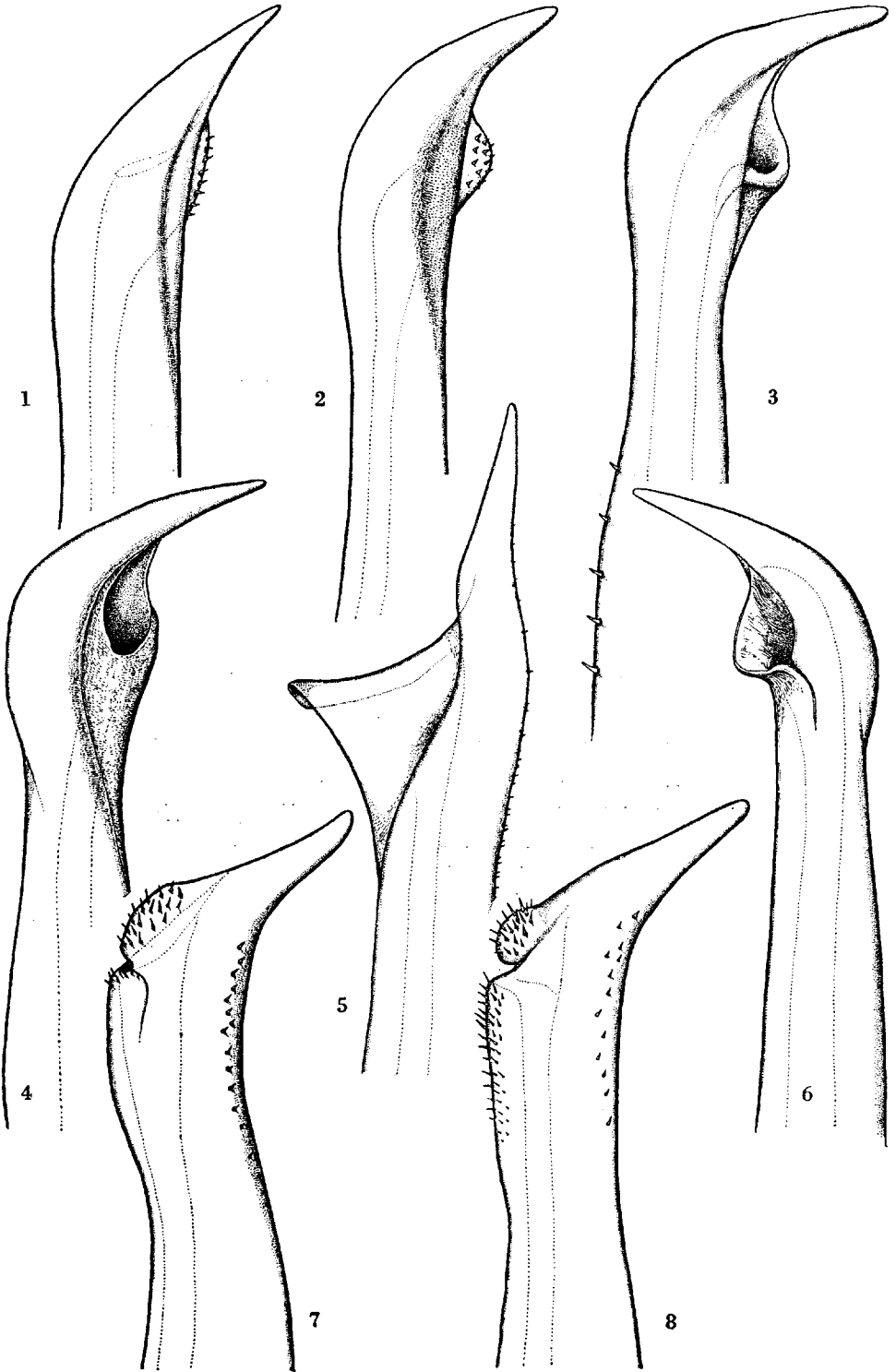


PLATE T

Pisinae

Right first pleopods of

- Fig. 1. *Neodoclea boneti* Buitendijk, 37.0 mm male lectotype (R.M.N.H. No. 7604), x 30.
- Fig. 2. *Libinia setosa* Lockington, 21.0 mm male, *Velero III* Sta. 1031-40, x 94.4.
- Fig. 3. *Libinia setosa* Lockington, 68.0 mm male neotype, Santa Maria Bay, Lower California, *Zaca* (C.A.S. Loc. 27594), x 41.3.
- Fig. 4. *Libinia mexicana* Rathbun, 24.7 mm male, *Velero III* Sta. 1072-40, x 68.4.
- Fig. 5. *Libinia mexicana* Rathbun, 65.6 mm male, San Felipe, Gulf of California, J. Rodriguez, x 59.
- Fig. 6. *Libinia rostrata* Bell, 64.5 mm male neotype, Paita, Peru, W. L. Schmitt (U.S.N.M. No. 100916), x 22.8.
- Fig. 7. *Lissa tuberosa* Rathbun, 11.0 mm male, *Velero III* Sta. 870-38, x 136.9.
7a. Same specimen, apertural view, x 136.9.
- Fig. 8. *Lissa aurivilliusi* Rathbun, 13.7 mm male, *Velero III* Sta. 209-34, x 136.9.
8a. Same specimen, apertural view, x 136.9.
- Fig. 9. *Leurocyclus gracilipes* (A. Milne Edwards and Bouvier), 8.6 mm male, *Albatross* Sta. 2764 (U.S.N.M. No. 21907), x 177. [Shown in lieu of the Pacific species, *L. tuberculosus* (Milne Edwards and Lucas).]



PLATE U

Majinae

Right first pleopods of

- Fig. 1. *Paramithrax peroni* (Milne Edwards), 60.0 mm male, Wellington, N. Z., L. R. Richardson, x 25.
1a. Same specimen, reverse view, x 25.
- Fig. 2. *Paramithrax baekstroemi* Balss, 16.1 mm male, Juan Fernandez Island, Chile, Hassler (M.C.Z. No. 2048), x 55.
2a. Same specimen, reverse view, x 55.
- Fig. 3. *Maioopsis panamensis* Faxon, 147.0 mm male, Manta, Ecuador, R. Paessler (Z.M.H.), x 40.
3a. Same specimen, reverse view, x 40.

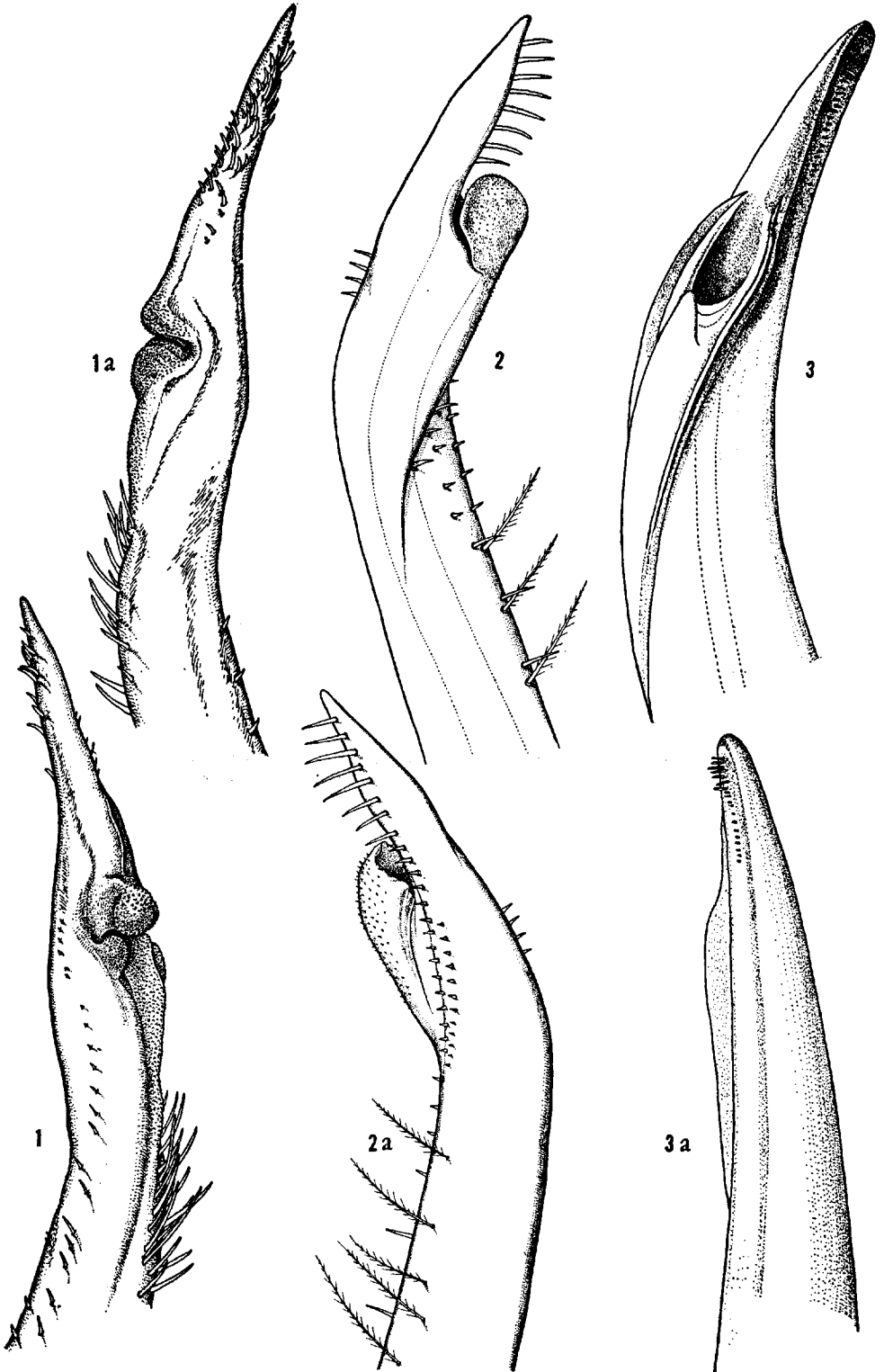


PLATE V

Mithracinae

Right first pleopods of

- Fig. 1. *Ala cornuta* (Stimpson), 16.6 mm male, *Velero III* Sta. 447-35 (Panama), x 66.1.
- Fig. 2. *Ala cornuta* (Stimpson), 29.6 mm male, *Velero III* Sta. 1083-40 (Gulf of California), x 43.4.
- Fig. 3. *Mithrax (Mithrax) tuberculatus* Stimpson, 26.7 mm male, *Velero III* Sta. 444-35, x 47.2.
- Fig. 4. *Mithrax (Mithrax) armatus* Saussure [= *M. (Mithrax) orcutti* Rathbun], 53.7 mm male, *Velero III* Sta. 1-32, x 23.6.
- Fig. 5. *Mithrax (Mithrax) sinensis* Rathbun, 12.4 mm male, *Velero III* Sta. 856-38, x 59.
- Fig. 6. *Mithrax (Mithrax) sinensis clarionensis* Garth, 10.4 mm male, *Velero III* Sta. 917-39, x 66.1.
- Fig. 7. *Mithrax (Mithrax) pygmaeus* Bell, 10.3 mm male, *Velero III* Sta. 958-39, x 155.7.
- Fig. 8. *Mithrax (Mithrax) spinipes* Bell, 14.8 mm male, *Velero III* Sta. 1103-40, x 147.3.
- Fig. 9. *Mithrax (Mithraculus) denticulatus* (Bell), 14.3 mm male neotype, *Velero III* Sta. 400-35 (A.H.F. No. 353), x 68.9.

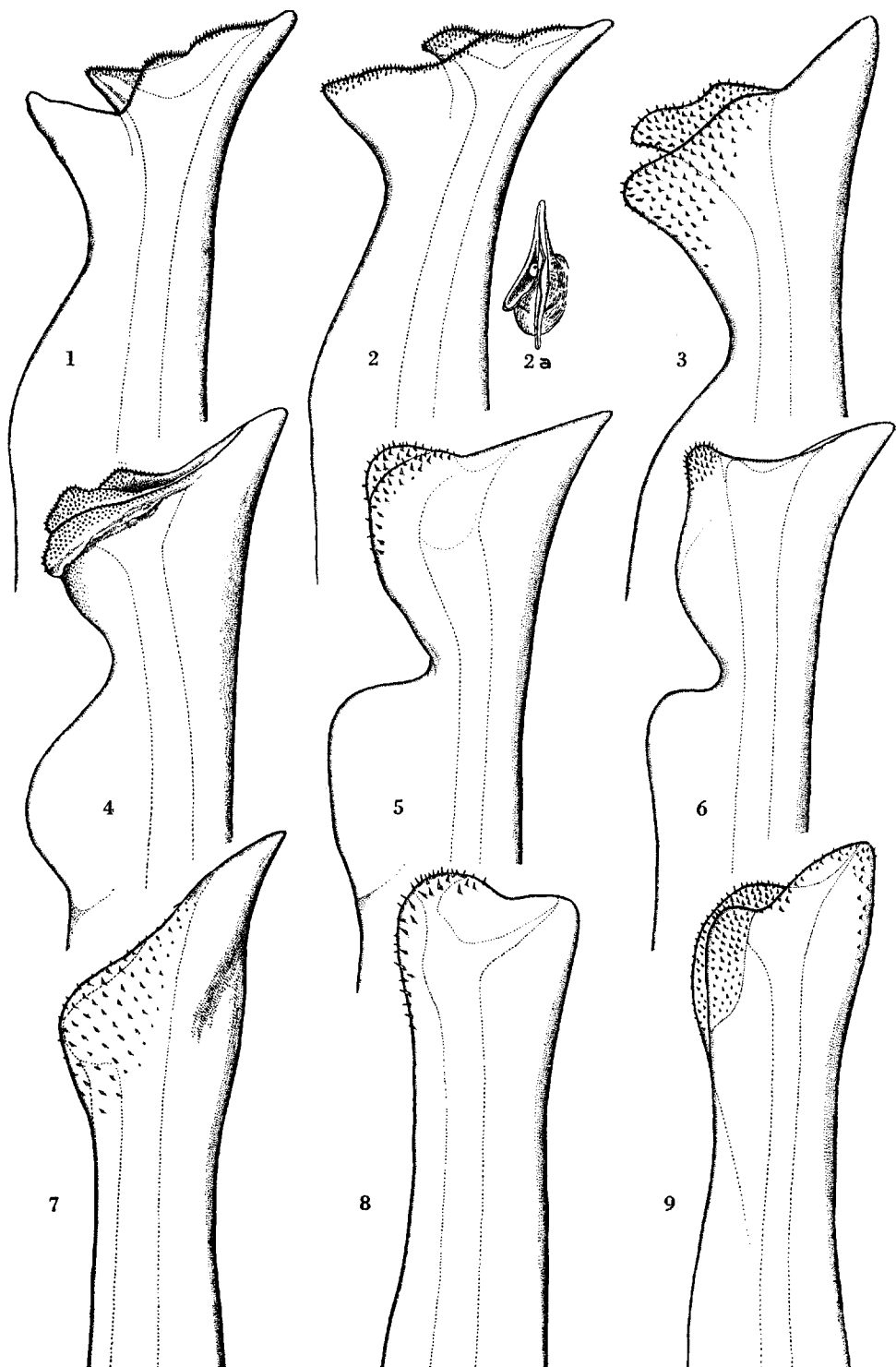
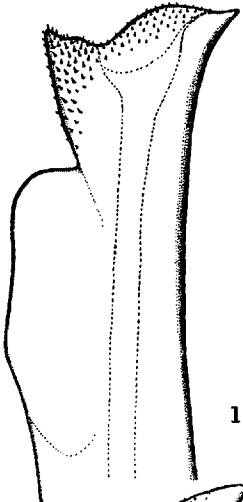


PLATE W

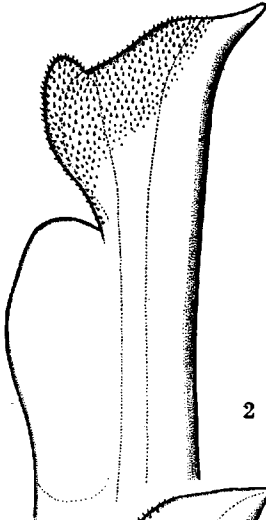
Mithracinae

Right first pleopods of

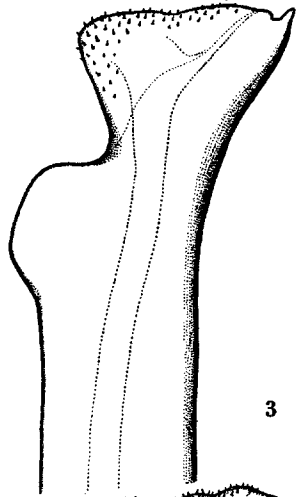
- Fig. 1. *Teleophrys cristulipes* Stimpson, 6.5 mm male, *Velero III* Sta. 638-37, x 88.5.
- Fig. 2. *Teleophrys tumidus* (Cano), 15.1 mm male, *Velero III* Sta. 844-38, x 57.3.
- Fig. 3. *Microphrys aweddelli* Milne Edwards, 33.9 mm male, Païta, Peru, W. L. Schmitt (U.S.N.M. No. 71229), x 66.9.
- Fig. 4. *Microphrys aculeatus* Bell, 12.0 mm male, *Velero III* Sta. 351-35 (Galapagos Islands), x 74.3.
- Fig. 5. *Microphrys platysoma* Stimpson, 18.2 mm male, *Velero III* Sta. 971-39, x 59.7.
- Fig. 6. *Microphrys triangulatus* (Lockington), 12.8 mm male, *Velero III* Sta. 745-37, x 59.2.
- Fig. 7. *Microphrys branchialis* Rathbun, 15.5 mm male, *Velero III* Sta. 209-34, x 74.3.
- Fig. 8. *Microphrys branchialis* Rathbun, 11.0 mm male, *Velero III* Sta. 1260-41, x 88.5.
- Fig. 9. *Microphrys triangulatus* (Lockington), 14.5 mm male, *Velero III* Sta. 177-34 (Galapagos Islands), x 59.7.



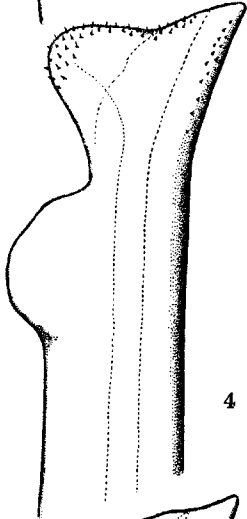
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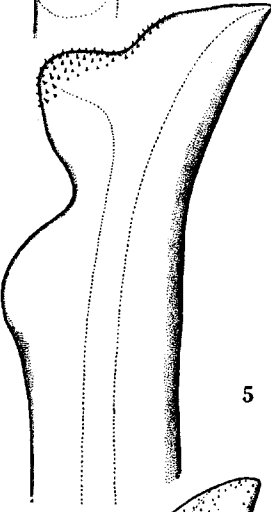
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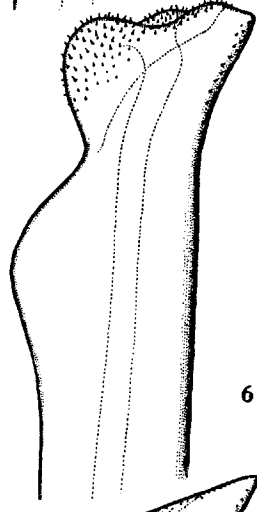
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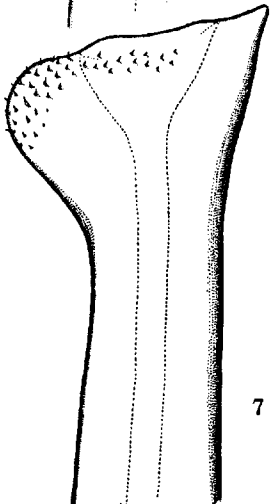
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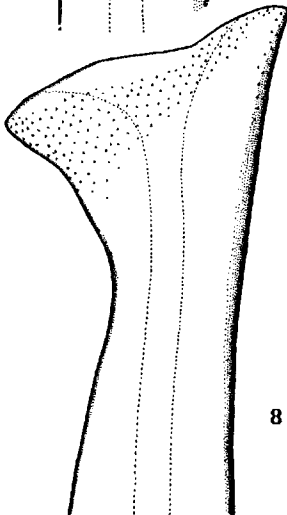
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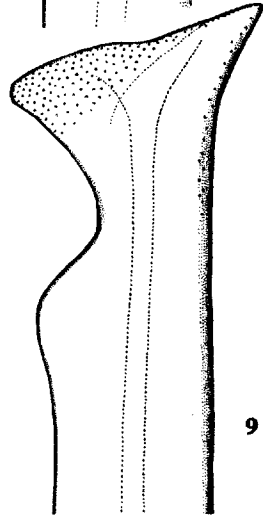
6



7



8



9

PLATE X

Mithracinae

Hemus finneganae, new species

Male holotype (U.S.N.M. No. 100918)

- Fig. 1. Dorsal view, x 6.1.
- Fig. 2. Ventral view of front, x 11.2.
- Fig. 3. Right outer maxilliped, x 31.
- Fig. 4. Male abdomen, x 13.1.
- Fig. 5. Right chela, x 22.5.
- Fig. 6. Lateral view of carapace, x 7.5.

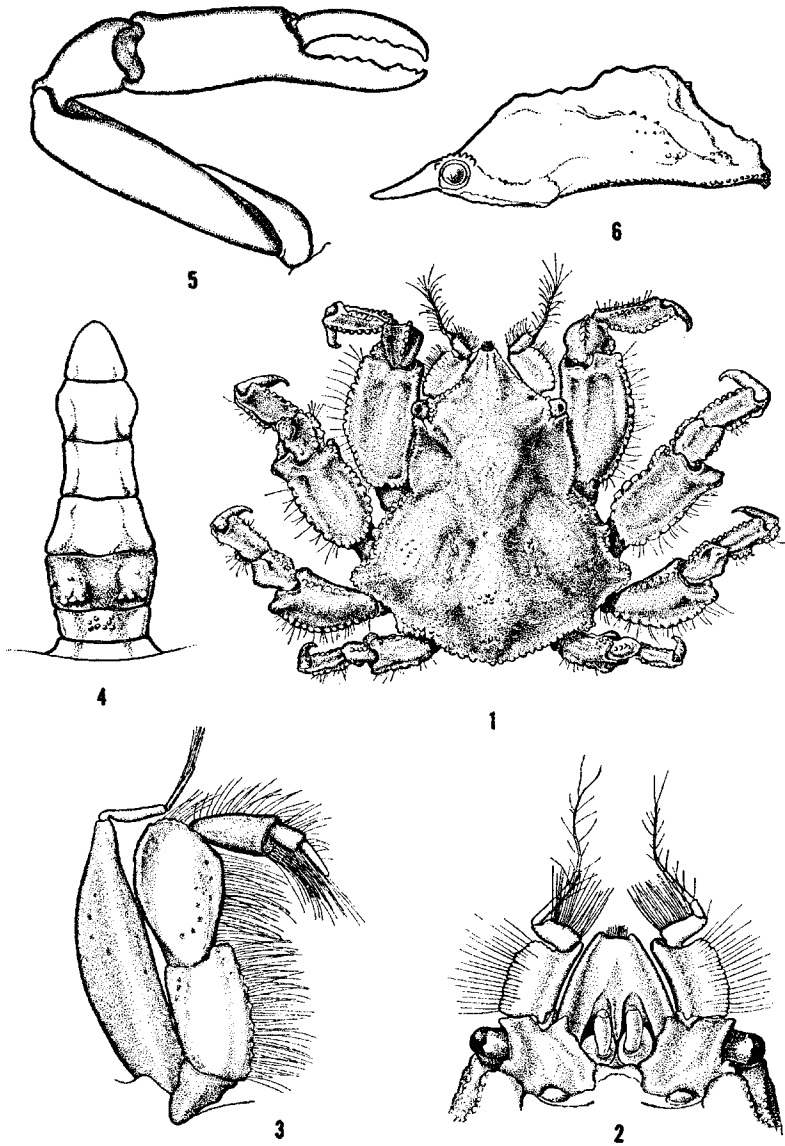


PLATE Y

Mithracinae

Right first pleopods of

- Fig. 1. *Stenocionops angusta* (Lockington) [= *S. contigua* (Rathbun)], 63.5 mm male, *Velero III* Sta. 1072-40, x 33.7.
- Fig. 2. *Stenocionops ovata* (Bell) (= *S. triangulata* Rathbun), 39.8 mm male, *Velero III* Sta. 143-34 (Galapagos Islands), x 45.5.
- Fig. 3. *Stenocionops beebei* Glassell, 30.1 mm male, *Velero III* Sta. 702-37, x 56.9.
- Fig. 4. *Macrocoeloma maccullochae* Garth, 31.3 mm male holotype, *Velero III* Sta. 747-37 (A.H.F. No. 372), x 56.9.
- Fig. 5. *Macrocoeloma villosum* Bell, 37.2 mm male, *Velero III* Sta. 403-35, x 56.9.
- Fig. 6. *Hemus analogus* Rathbun, 5.6 mm male, *Velero III* Sta. 506-36, x 199.
- Fig. 7. *Hemus finneganae*, new species, 6.0 mm male paratype, *Velero III* Sta. 457-35, x 68.3.
- Fig. 8. *Thoe sulcata* Stimpson, 15.7 mm male, *Velero III* Sta. 646-37, x 85.7.
- Fig. 9. *Thoe sulcata panamensis* Nobili, 10.1 mm male, *Velero III* Sta. 239-34, x 136.9.

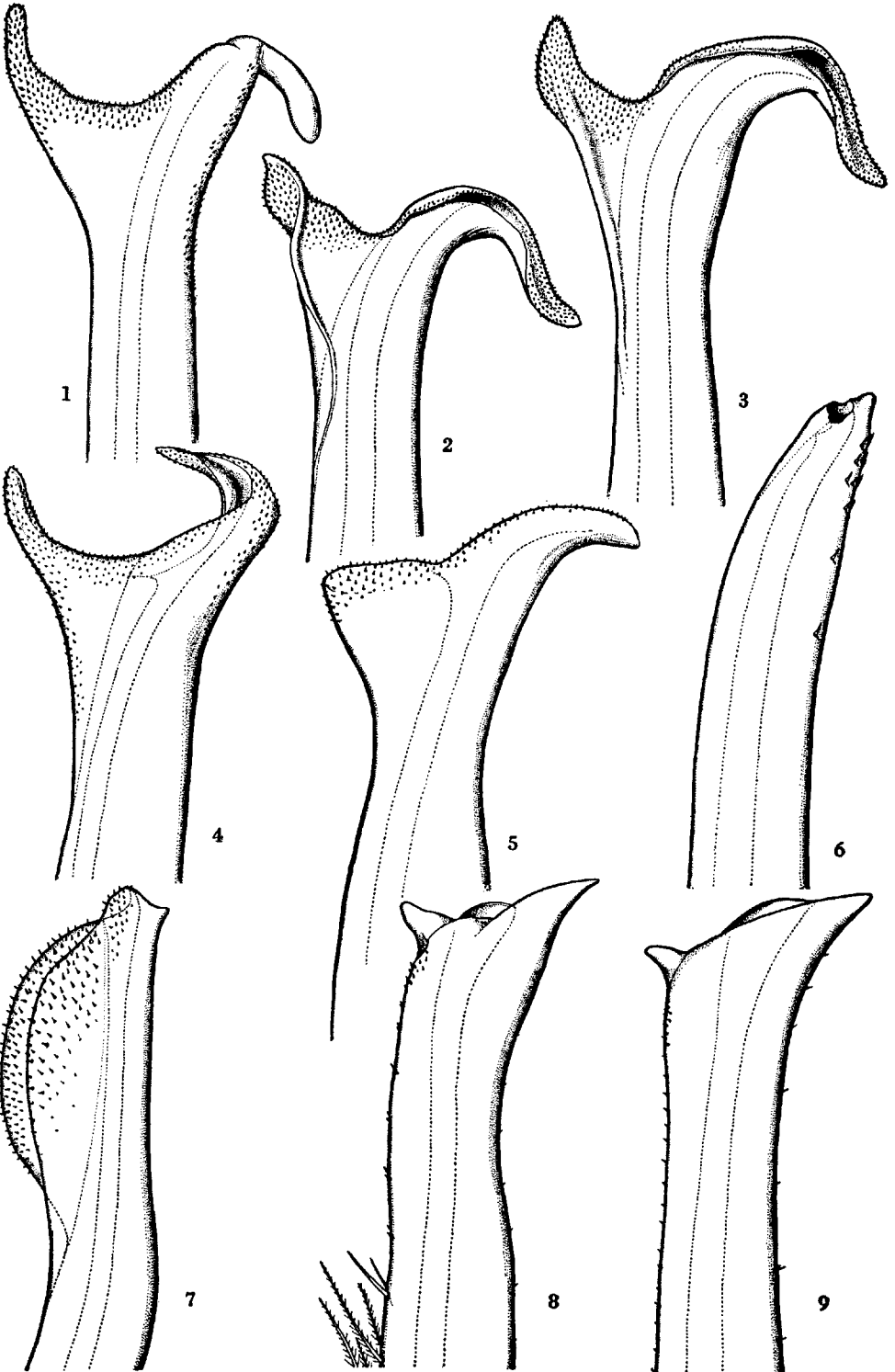


PLATE Z

Parthenopidae

Parthenope (Pseudolambrus) stimpsoni, new species
Male, *Valero III* Sta. 257-34*

- Fig. 1. Dorsal view, x 3.1.
- Fig. 2. Right chela, x 3.1.
- Fig. 3. Ventral view of front, x 6.6.
- Fig. 4. Female abdomen, x 5.4.
- Fig. 5. Right outer maxilliped, x 9.
- Fig. 6. Male abdomen, x 7.2.

*With the exceptions of Fig. 4, allotype, and Fig. 6, holotype.

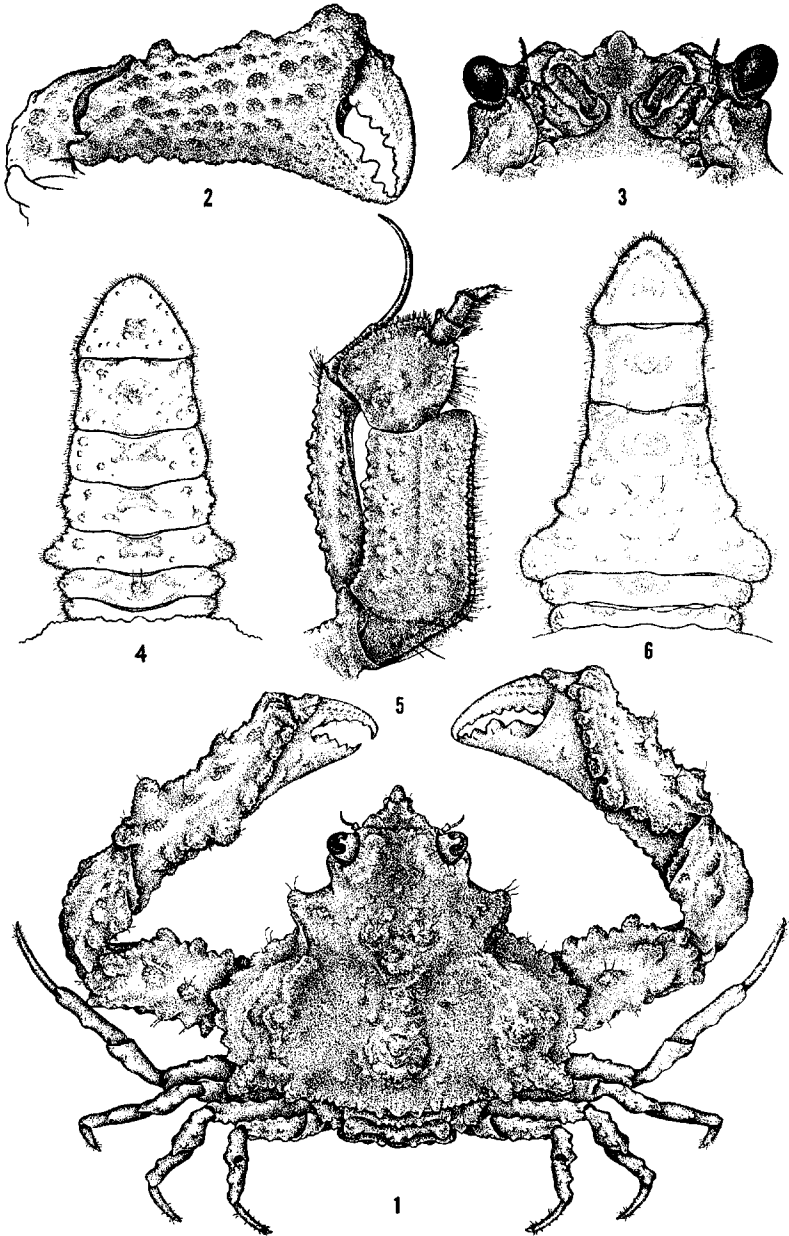


PLATE Z₁

Parthenopidae

- Fig. 1. *Parthenope (Parthenope) hyponca* (Stimpson), male, *Velero III* Sta. 438-35. First pleopod, x 63.
1a. Same specimen, second pleopod, x 63.
- Fig. 2. *Parthenope (Pseudolambrus) triangula* (Stimpson), male, *Velero III* Sta. 639-37. First pleopod, x 27.
2a. Same specimen, second pleopod, x 27.
- Fig. 3. *Parthenope (Platylambrus) exilipes* (Rathbun), male, *Velero III* Sta. 843-38. First pleopod, x 27.
3a. Same specimen, second pleopod, x 27.
- Fig. 4. *Parthenope (Platylambrus) depressiuscula* (Stimpson), male, *Velero III* Sta. 959-39. First pleopod, x 17.4.
4a. Same specimen, second pleopod, x 17.4.

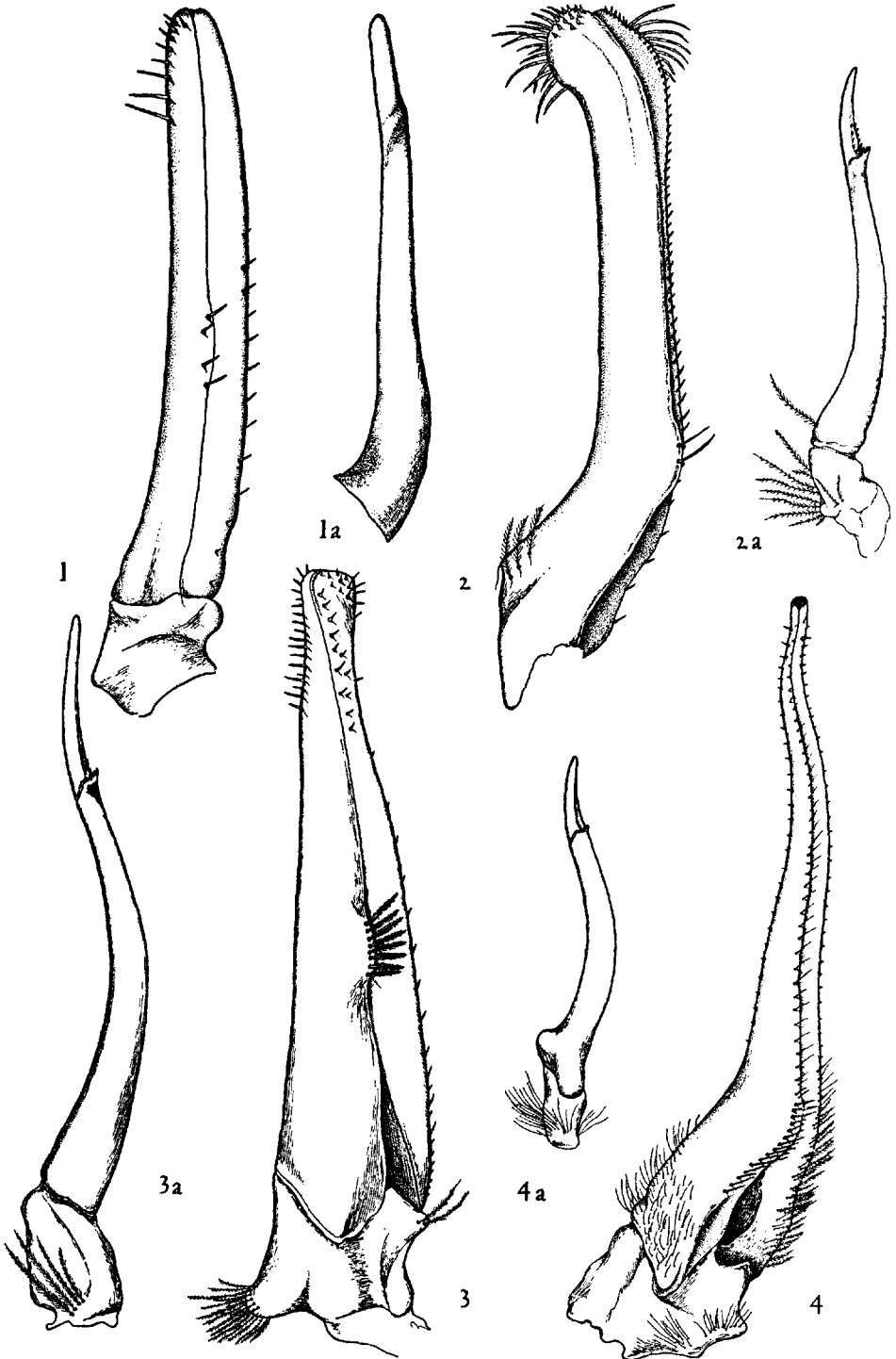


PLATE Z.

Parthenopidae

- Fig. 5. *Parthenope (Pseudolambrus) excavata* (Stimpson), male, *Velero III* Sta. 960-39. First pleopod, x 24.8.
5a. Same specimen, second pleopod, x 24.8.
- Fig. 6. *Parthenope (Pseudolambrus) simpsoni*, new species, male, *Velero III* Sta. 257-34. First pleopod, x 24.8.
6a. Same specimen, second pleopod, x 24.8.
- Fig. 7. *Daldorfia garthi* Glassell, male, *Velero III* Sta. 465-35. First pleopod, x 11.6.
7a. Same specimen, second pleopod, x 11.6.
- Fig. 8. *Thyrolambrus glasselli*, new name ($\equiv T. erosus$ Rathbun), male, *Velero III* Sta. 517-36. First pleopod, x 24.8.
8a. Same specimen, second pleopod, x 24.8.

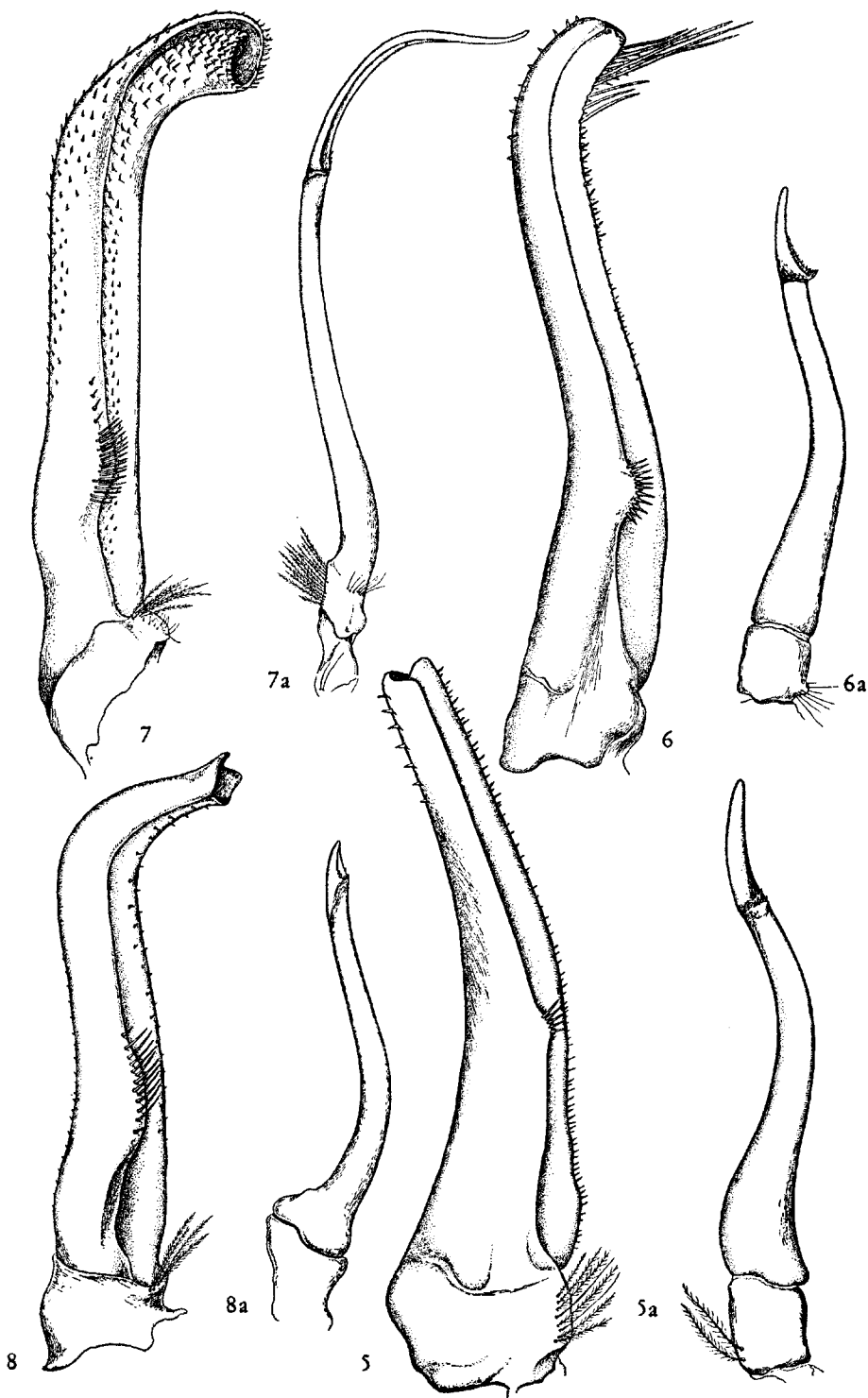


PLATE Z₃

Parthenopidae

- Fig. 9. *Solenolambrus arcuatus* Stimpson, male, *Velero III* Sta. 259-34. First pleopod, x 31.7.
9a. Same specimen, second pleopod, x 31.7.
- Fig. 10. *Leiolambrus punctatissimus* (Owen), male, *Askoy* Sta. 101 (Solano Bay, Colombia). First pleopod, x 25.9.
10a. Same specimen, second pleopod, x 25.9.
- Fig. 11. *Mesorhoea belli* (A. Milne Edwards), male, *Velero III* Sta. 722-37. First pleopod, x 25.9.
11a. Same specimen, second pleopod, x 25.9.
- Fig. 12. *Aethra scruposa scutata* Smith, male, *Velero III* Sta. 28-33. First pleopod, x 5.
12a. Same specimen, second pleopod, x 5.

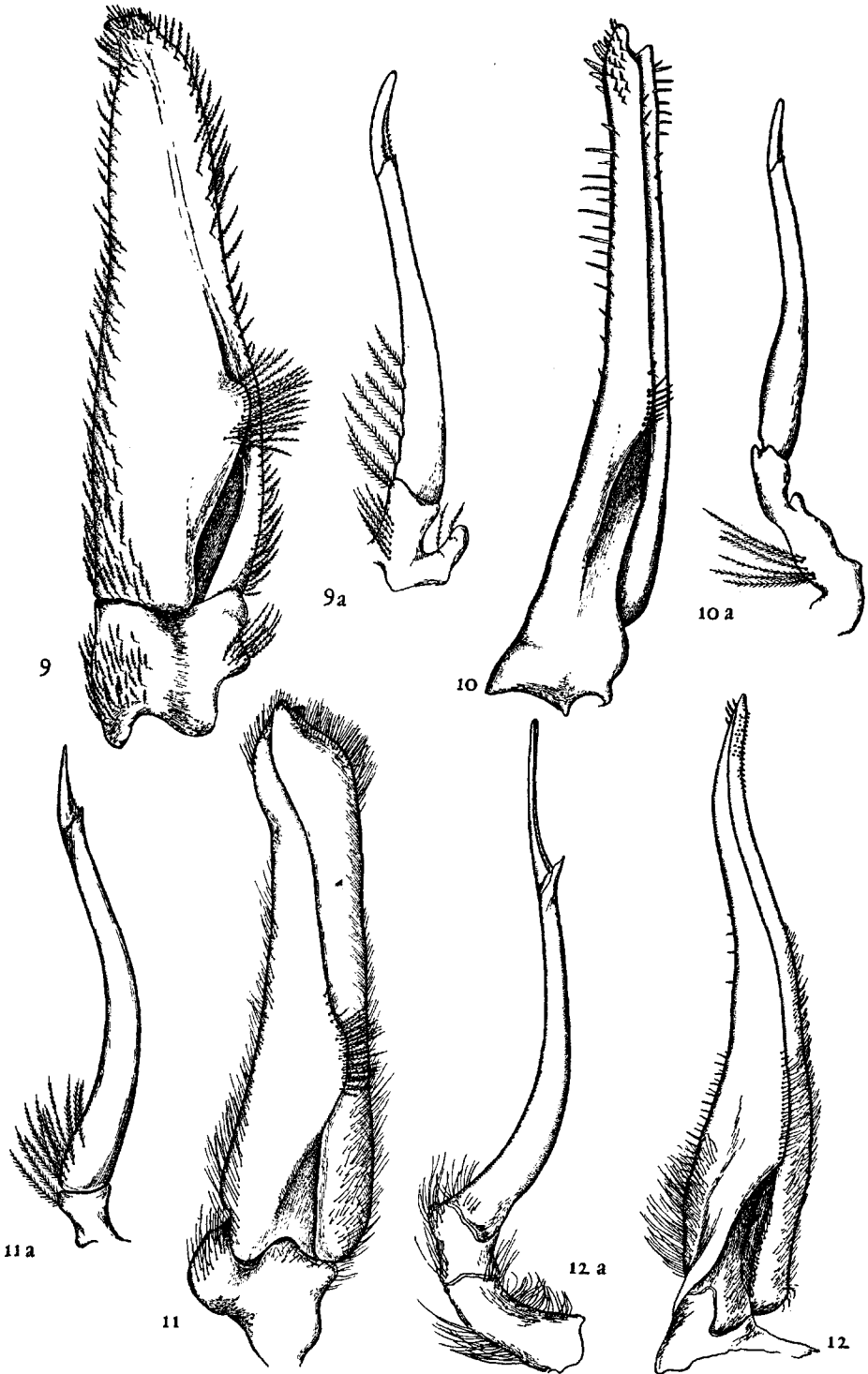
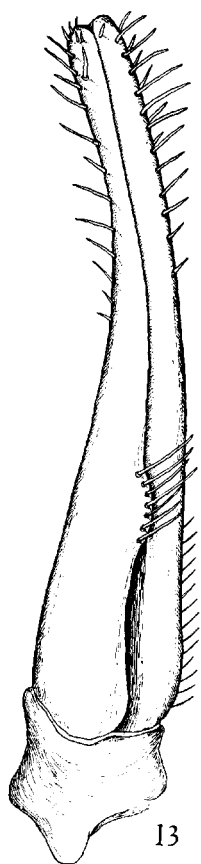


PLATE Z.

Parthenopidae

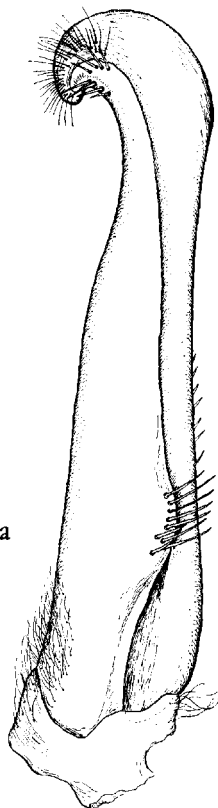
- Fig. 13. *Heterocrypta colombiana* Garth, male, *Velero III* Sta. 478-35. First pleopod, x 92.8.
13a. Same specimen, second pleopod, x 92.8.
- Fig. 14. *Heterocrypta occidentalis* (Dana), male, Santa Cruz Island, California, Sept. 16, 1933. First pleopod, x 15.2.
14a. Same specimen, second pleopod, x 15.2.
- Fig. 15. *Cryptopodia hassleri* Rathbun, male, *Velero III* Sta. 472-35. First pleopod, x 95.2.
15a. Same specimen, second pleopod, x 95.2.
- Fig. 16. *Heterocrypta macrobrachia* Stimpson, male, *Velero III* Sta. 960-39. First pleopod, x 47.6.
16a. Same specimen, second pleopod, x 47.6.



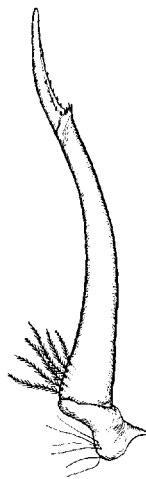
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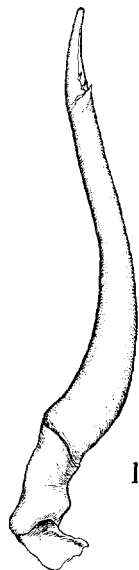
13a



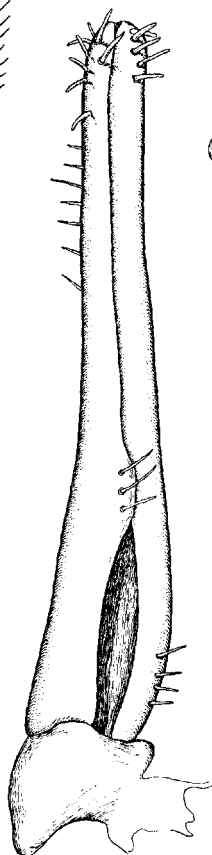
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14a



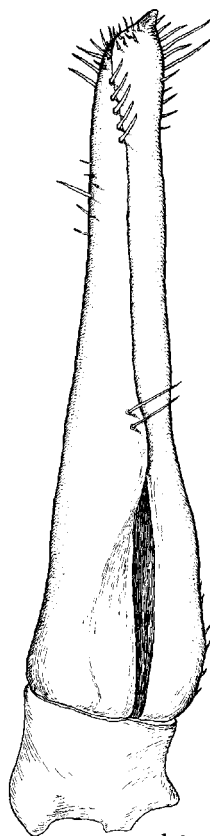
15a



15



16a



16

PLATE 1

- Fig. 1. *Halicarcinus planatus* (Fabricius), male (L.U.C.E. Sta. M115), dorsal view.
- Fig. 2. Same specimen, ventral view.

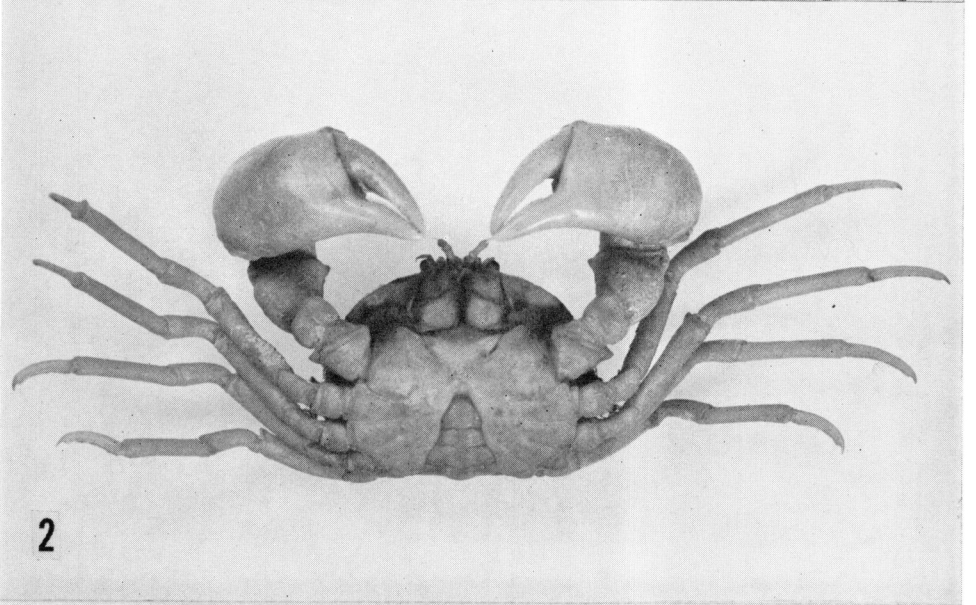
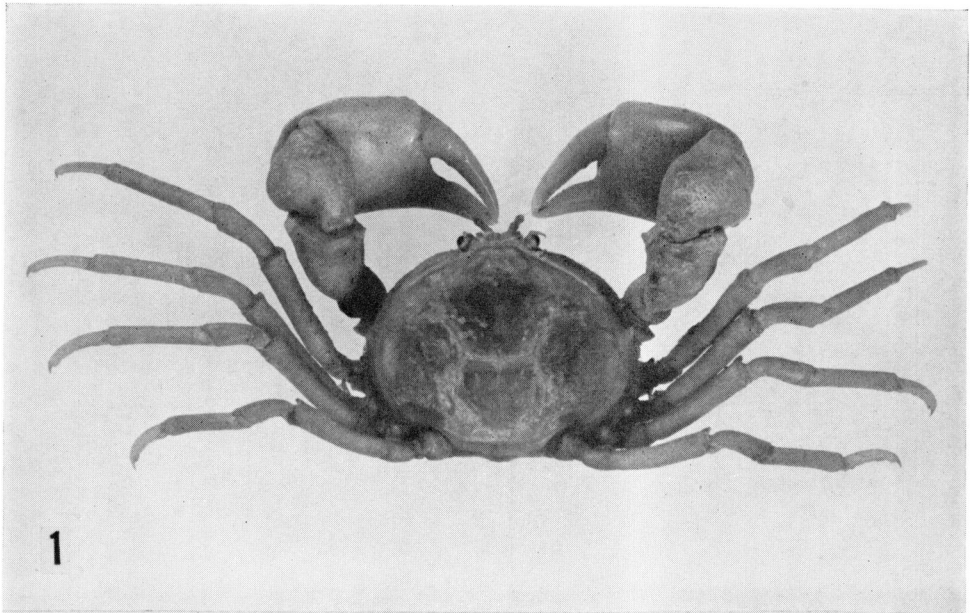


PLATE 2

Eurypodius latreillei Guérin, male (*Veleiro III* Sta. 829-38),
dorsal view.

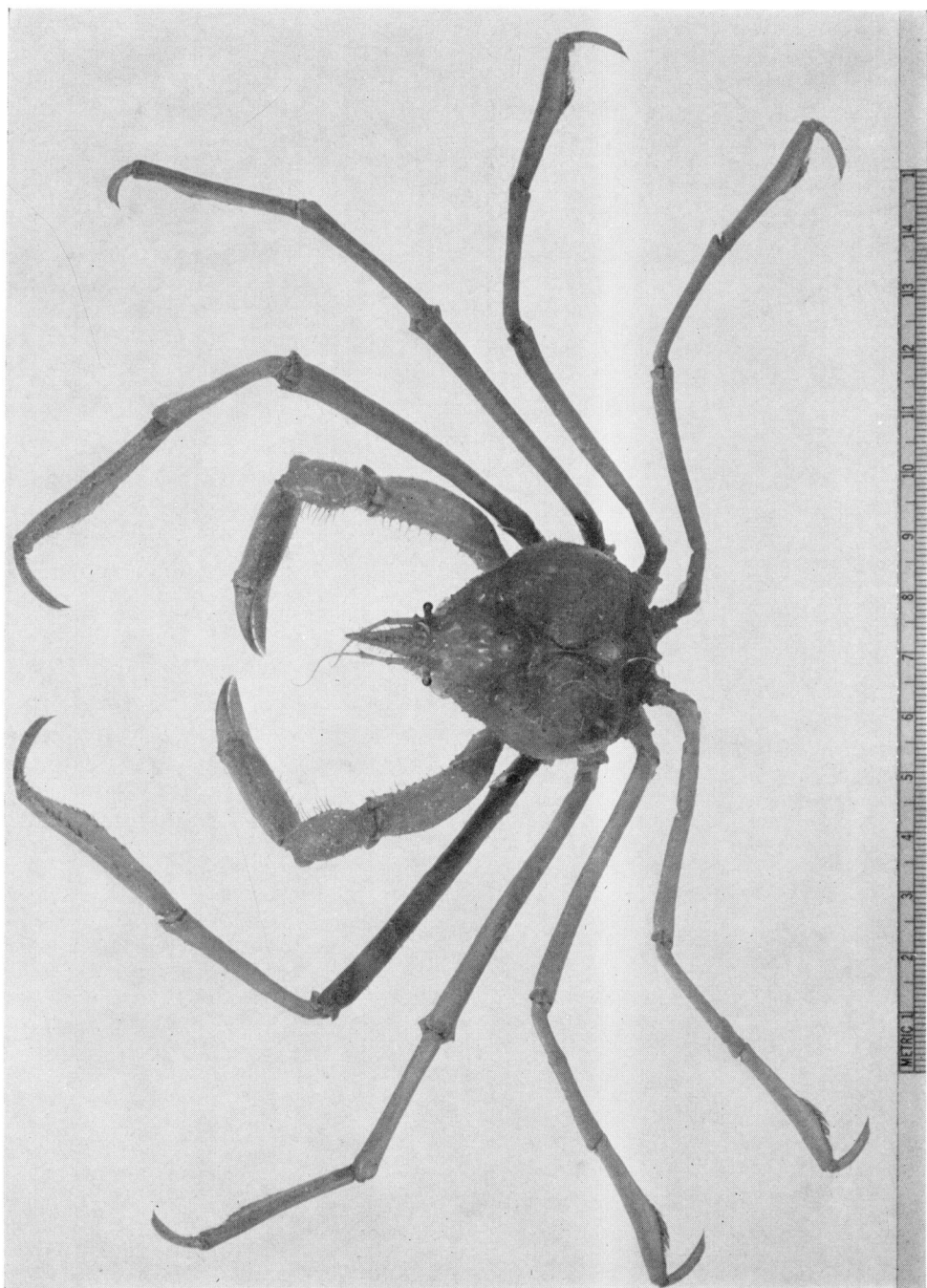


PLATE 3

- Fig. 1. *Eucinetops lucasi* Stimpson, male (*Velero III* Sta. 713-37), dorsal view.
- Fig. 2. *Eucinetops panamensis* Rathbun, male (*Velero III* Sta. 400-35), dorsal view.
- Fig. 3. *Euprognatha bifida* Rathbun, male (*Velero III* Sta. 747-37), dorsal view.
- Fig. 4. *Collodes gibbosus* (Bell), male (*Velero III* Sta. 850-38), dorsal view.
- Fig. 5. *Collodes granosus* Stimpson, female neotype (*Velero IV* Sta. 1724-49) (A.H.F. No. 495), dorsal view.
- Fig. 6. *Collodes tumidus* Rathbun, female (*Velero III* Sta. 576-36), dorsal view.

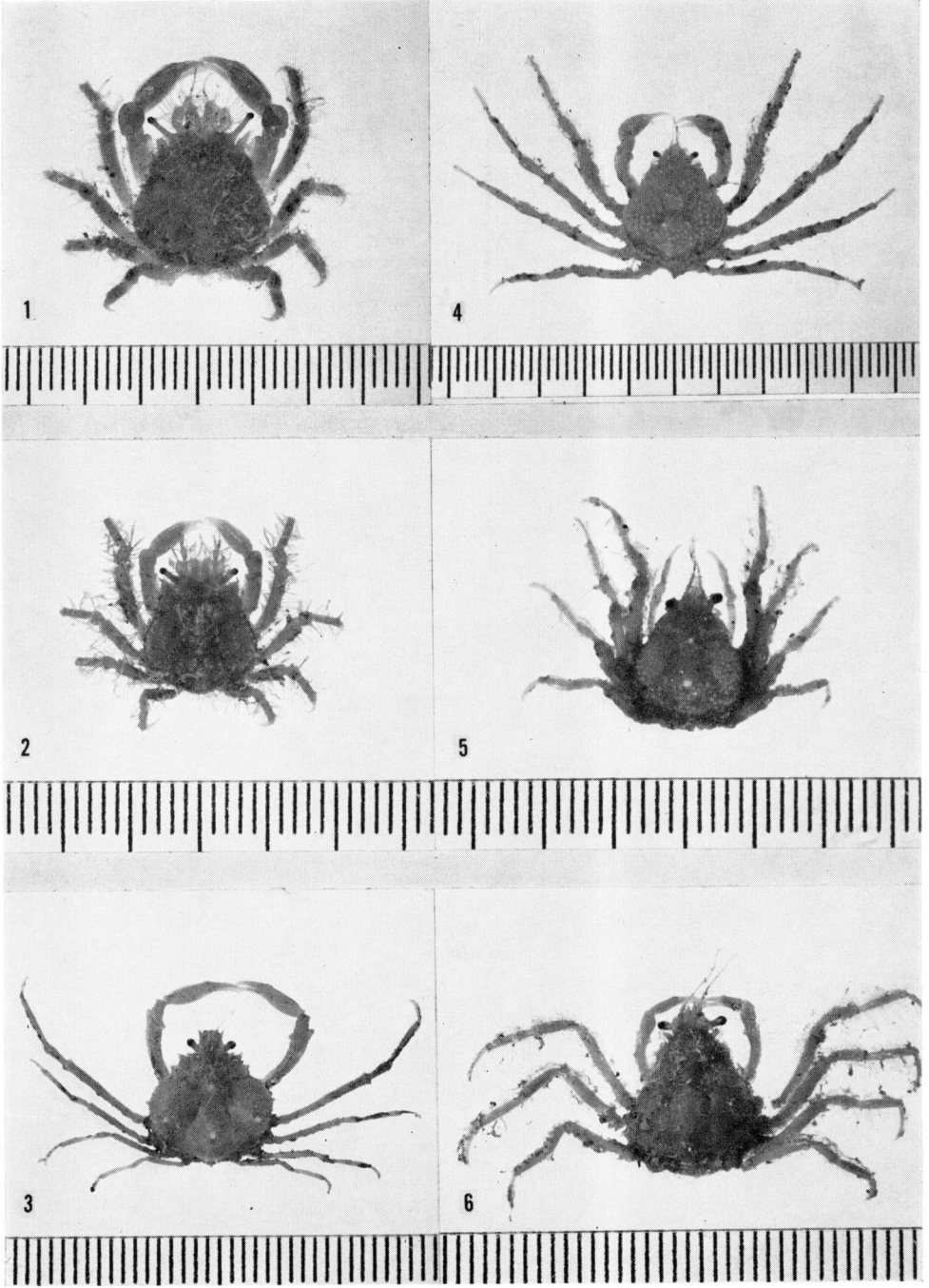
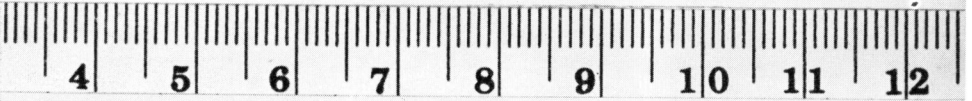


PLATE 4

- Fig. 1. *Collodes robsonae*, new species, female holotype (Panama; (A.H.F. No. 397), dorsal view.
- Fig. 2. *Paradasygius depressus* (Bell), male neotype (*Velero III* Sta. 944-39) (A.H.F. No. 398), dorsal view.



1



2



PLATE 5

- Fig. 1. *Euprognatha granulata* Faxon, female above, male beneath
(*Velero III* Sta. 792-38), dorsal view.
- Fig. 2. *Erileptus spinosus* Rathbun, female above, male beneath
(*Velero IV* Sta. 1920-49), dorsal view.



PLATE 6

- Fig. 1. *Pyromaia tuberculata* (Lockington), male (Long Beach, California), dorsal view.
- Fig. 2. *Pyromaia tuberculata mexicana* (Rathbun), male (Sta. H47-53), dorsal view.
- Fig. 3. *Inachoides microrhynchus* Milne Edwards and Lucas, male (*Velero III* Sta. 845-38), dorsal view.
- Fig. 4. *Inachoides laevis* Stimpson, male (*Velero III* Sta. 1072-40), dorsal view.
- Fig. 5. *Collodes tenuirostris* Rathbun, male (*Velero III* Sta. 1054-40), dorsal view.

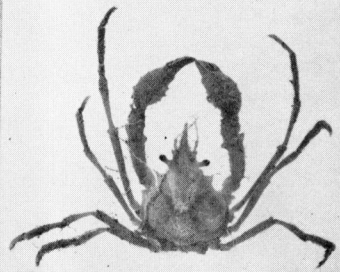
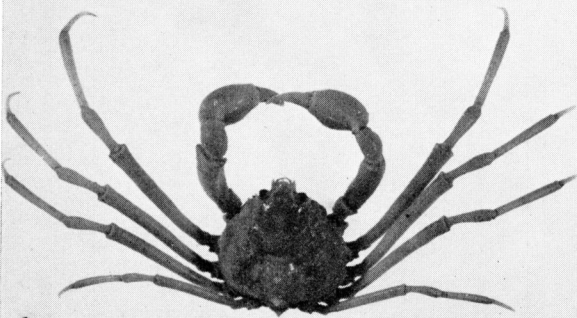
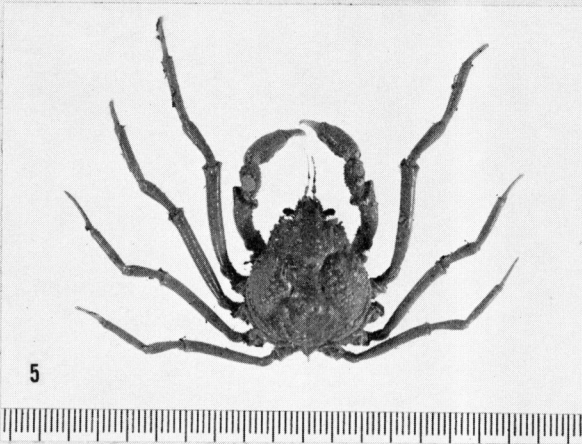
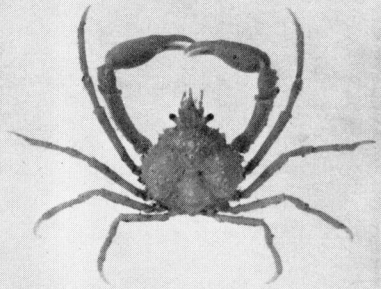
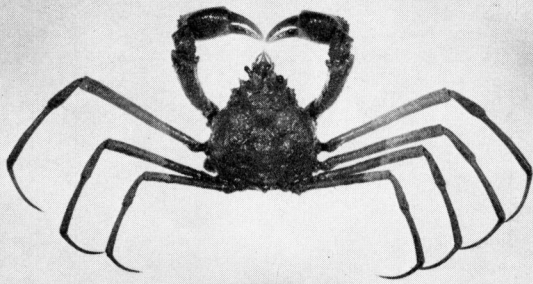


PLATE 7

Podochela hemphilli (Lockington), male (*Vclero III* Sta.
895-38), dorsal view.

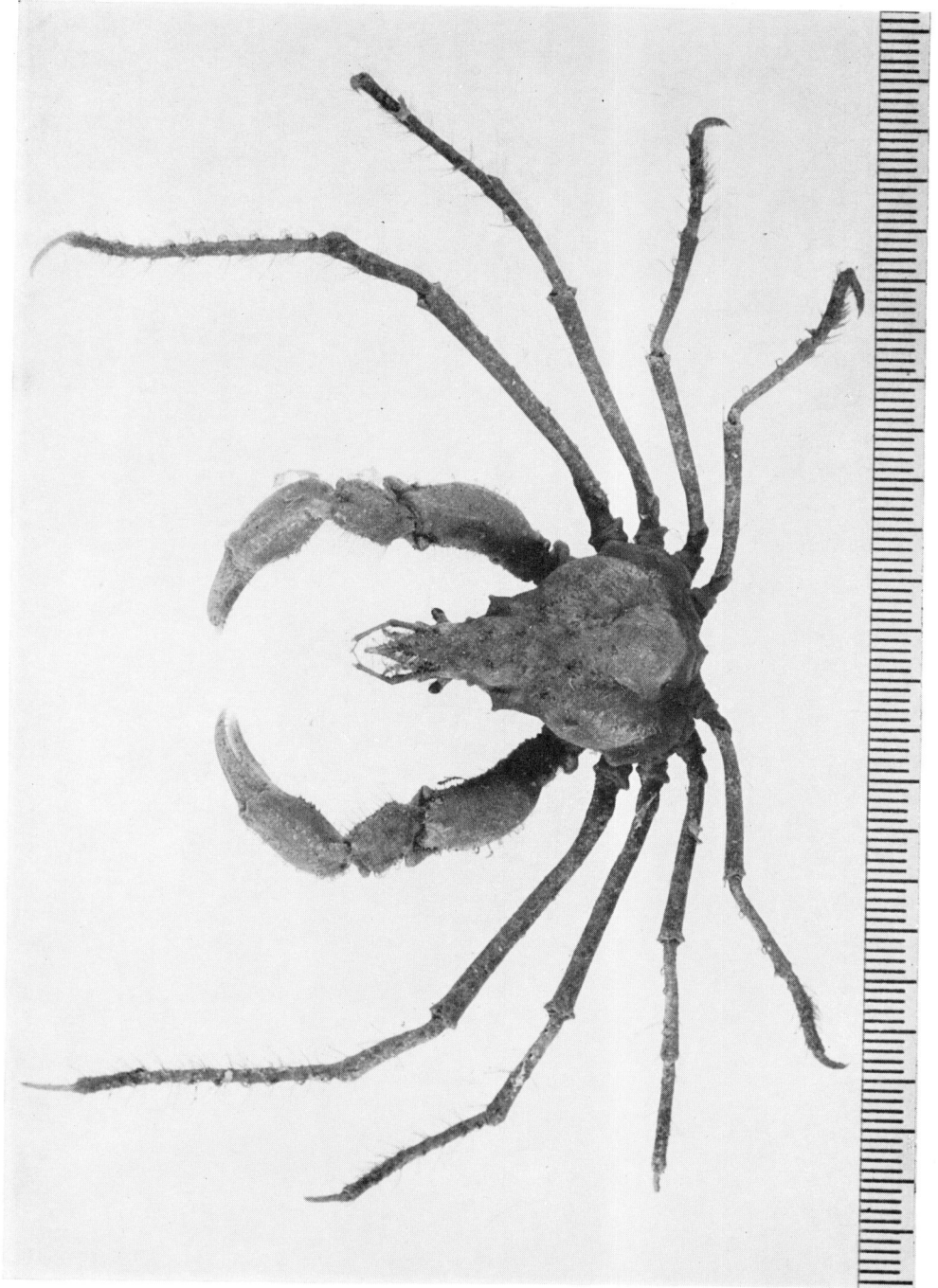
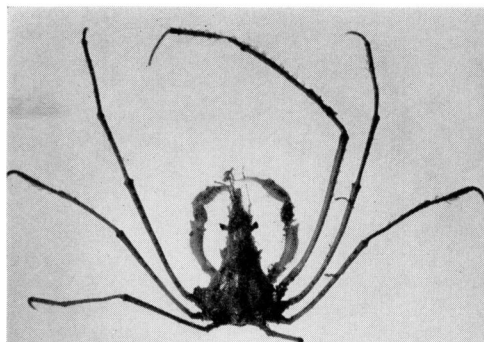
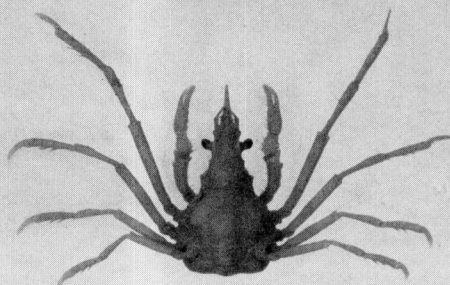


PLATE 8

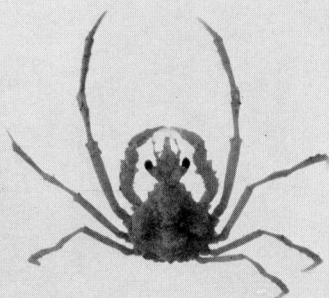
- Fig. 1. *Podochela lobifrons* Rathbun (= *P. barbarentis* Rathbun), male (*Velero III* Sta. 1275-41), dorsal view.
- Fig. 2. *Podochela weleronis*, new species, male holotype (*Velero III* Sta. 971-39) (AHF No. 393), dorsal view.
- Fig. 3. *Podochela vestita* (Stimpson), male (N.Y.Z.S. No. 36697), dorsal view.
- Fig. 4. *Podochela latimanus* (Rathbun), female (*Velero III* Sta. 585-36), dorsal view.
- Fig. 5. *Podochela ziesenhennei* Garth, female (*Velero III* Sta. 239-34), dorsal view.
- Fig. 6. *Podochela angulata* Finnegan, male (*Velero III* Sta. 945-39), dorsal view.



1



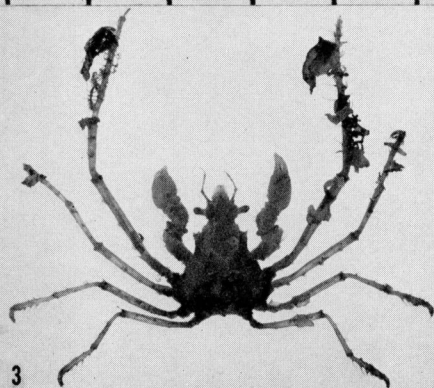
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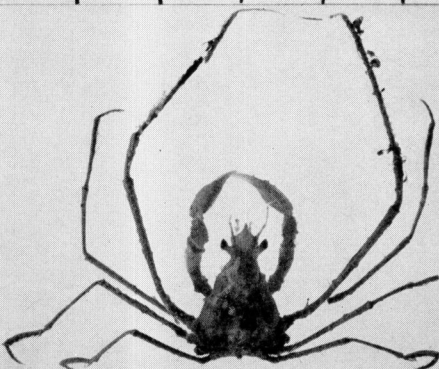
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PLATE 9

Stenorynchus debilis (Smith), male (*Velero III* Sta. 571-36), dorsal view; asymmetry of left legs 1, 2, and 4 probably due to regeneration.

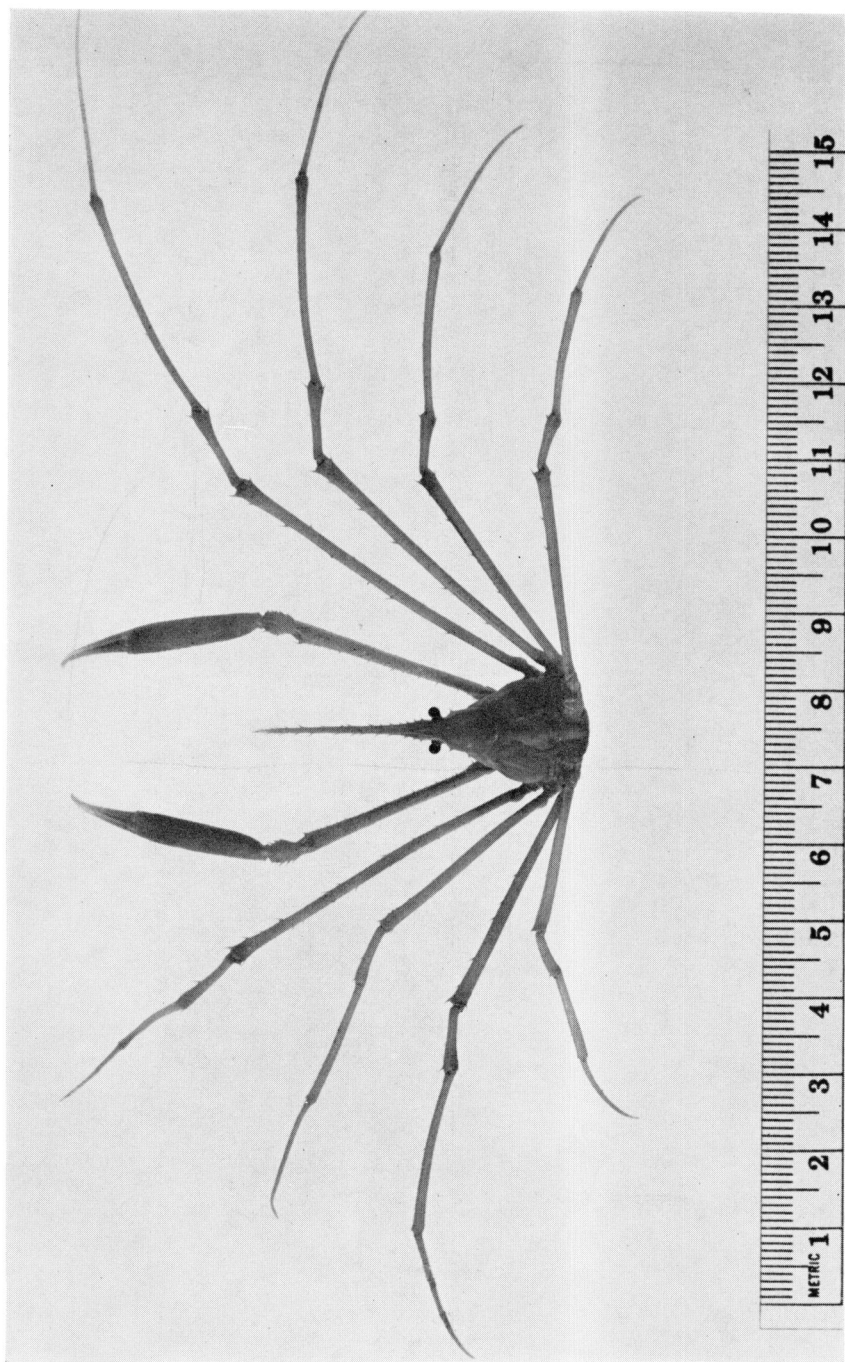


PLATE 10

Oregonia gracilis Dana, male (Sucia Island, Washington),
dorsal view.

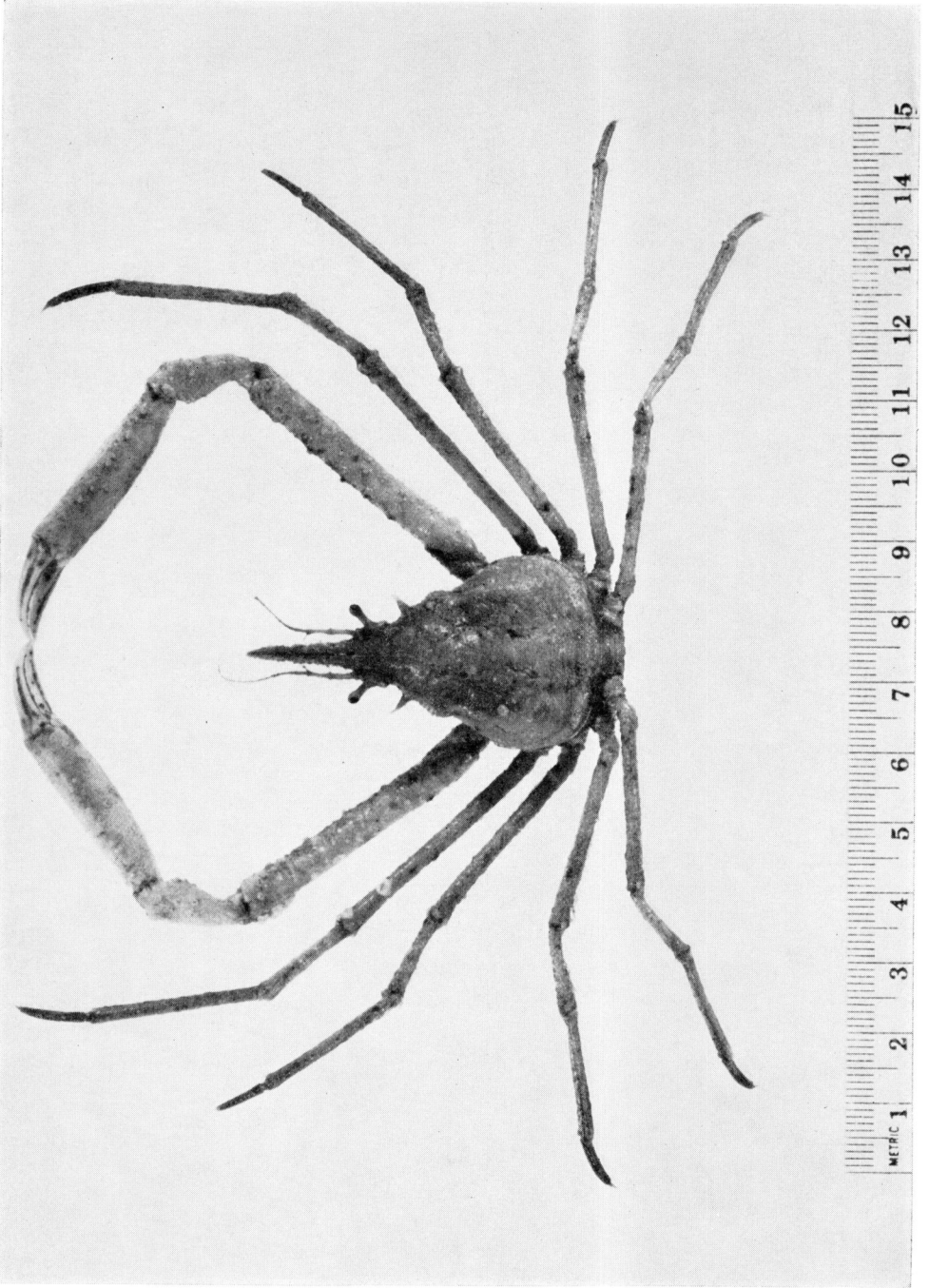


PLATE 11

- Fig. 1. *Oregonia gracilis* Dana, female (Hancock Sta. 1498-42), dorsal view.
- Fig. 2. *Oregonia bifurca* Rathbun, male (U.S.N.M. No. 46488), dorsal view.

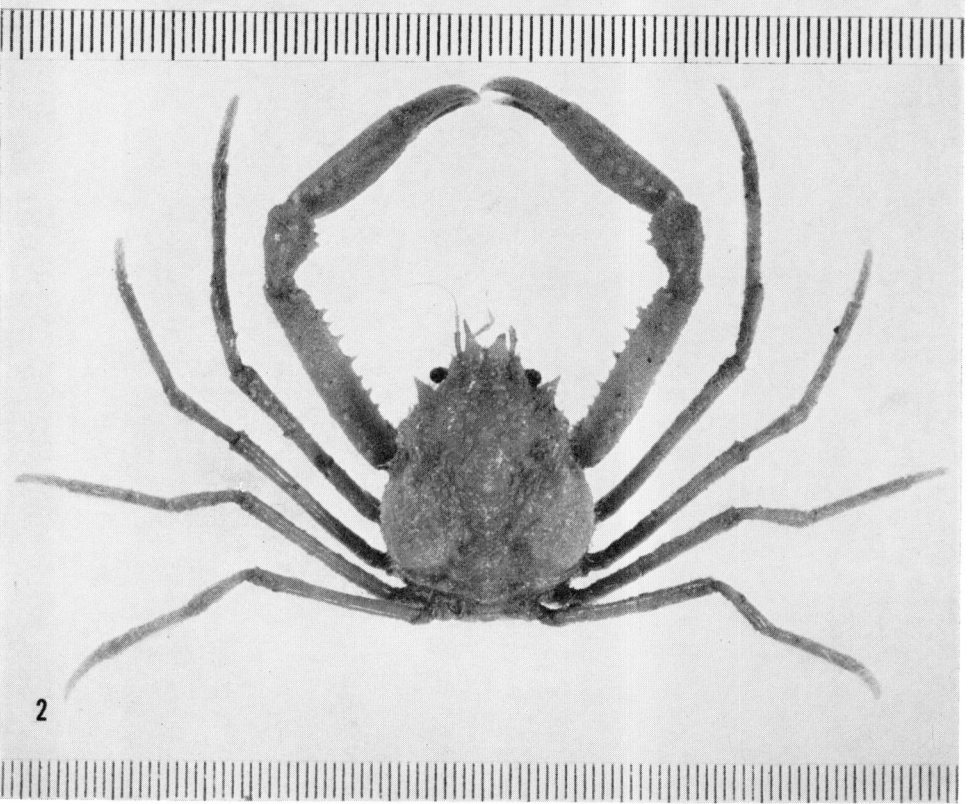
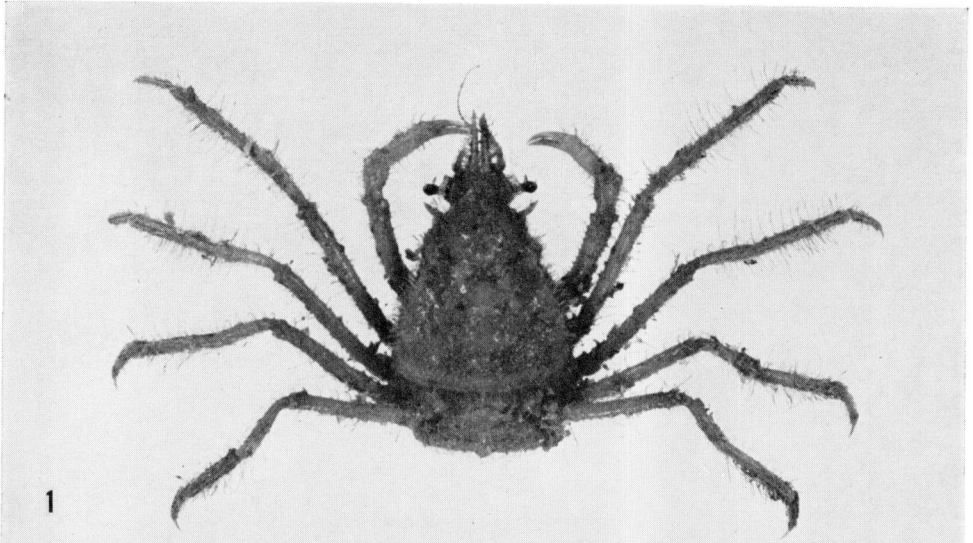


PLATE 12

Hyas lyratus Dana, male (Washington State), dorsal view.

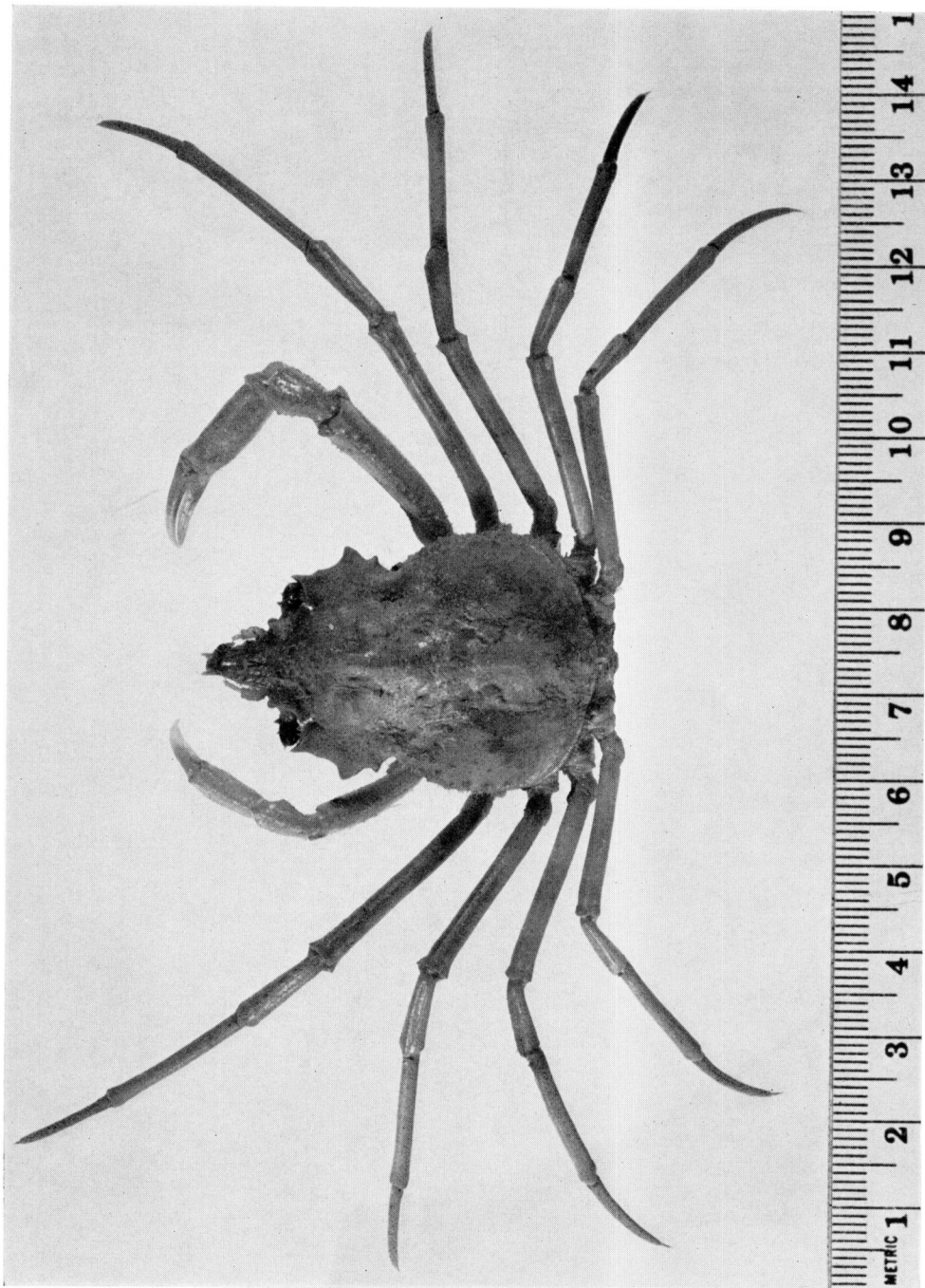
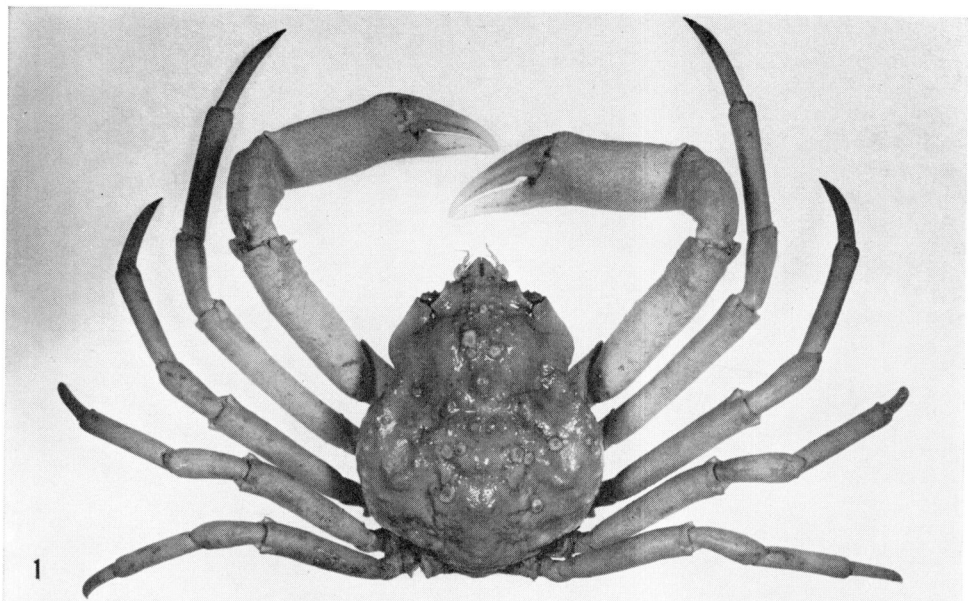
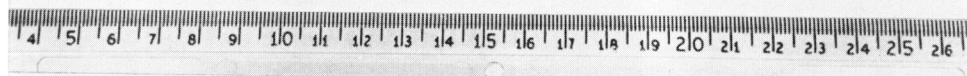


PLATE 13

- Fig. 1. *Hyas coarctatus alutaceus* Brandt, male (Point Barrow, Alaska), dorsal view.
- Fig. 2. Same specimen, ventral view.



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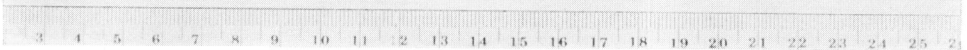
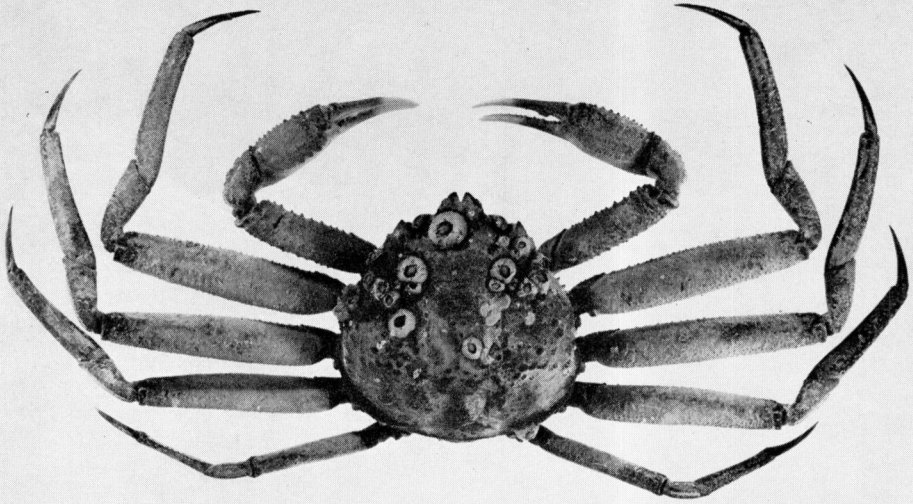


PLATE 14

- Fig. 1. *Chionoecetes opilio* (O. Fabricius), male (U.S.N.M. No. 17075), dorsal view.
- Fig. 2. Same, ventral view.



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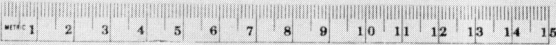


PLATE 15

Chionoecetes bairdi Rathbun, male (Vancouver, B. C.),
dorsal view.

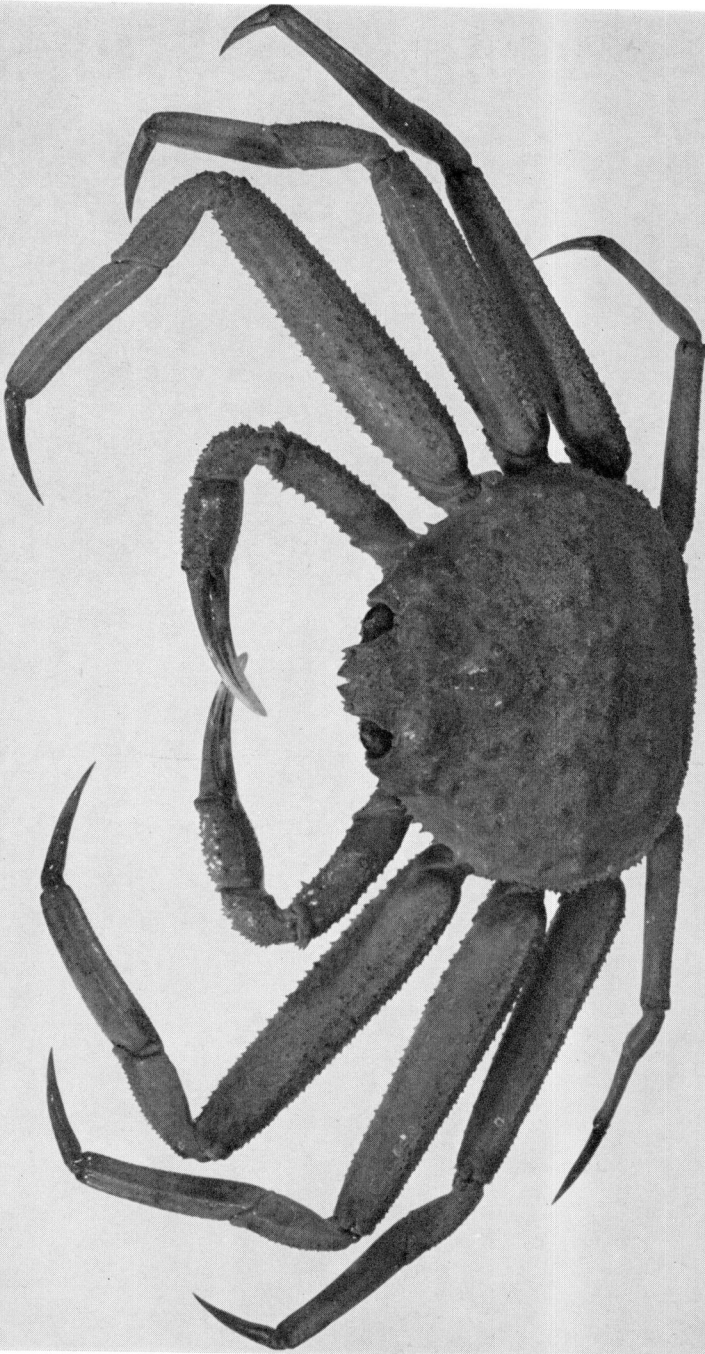


PLATE 16

- Fig. 1. *Chionoecetes angulatus* Rathbun, male (U.S.N.M. No. 15478), dorsal view.
- Fig. 2. *Chionoecetes tanneri* Rathbun, male (U.S.N.M. No. 47096), dorsal view.



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PLATE 17

- Fig. 1. *Pithe picteti* (Saussure), male (*Velero III* Sta. 1088-40), dorsal view.
- Fig. 2. *Pithe sexdentata* Bell, male (*Velero IV* Sta. 1727-49), dorsal view.



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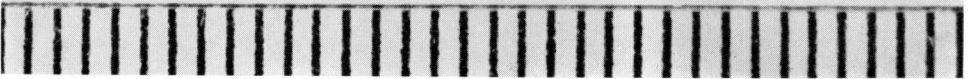
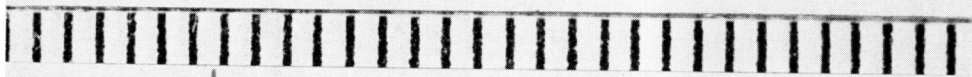


PLATE 18

- Fig. 1. *Pitho quinquedentata* Bell, male (*Velero III* Sta. 5-33), dorsal view.
- Fig. 2. *Tyche lamellifrons* Bell, female (*Velero III* Sta. 498-36), dorsal view.



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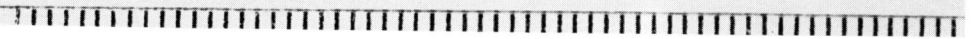


PLATE 19

Pugettia producta (Randall), male (Hancock Sta. 1673-49),
dorsal view; the last two legs on the right side regenerating.



PLATE 20

- Fig. 1. *Pugettia richi* Dana, male (Hancock Sta. 1595-47), dorsal view.
- Fig. 2. *Pugettia gracilis* Dana, male (Hancock Sta. 1464-42), dorsal view.

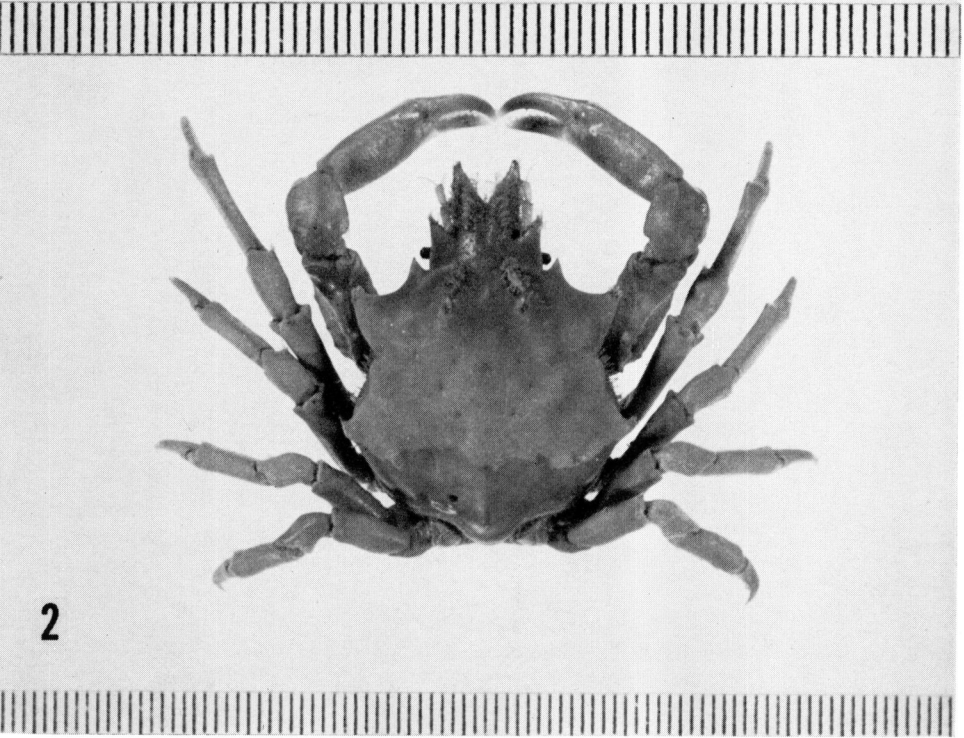
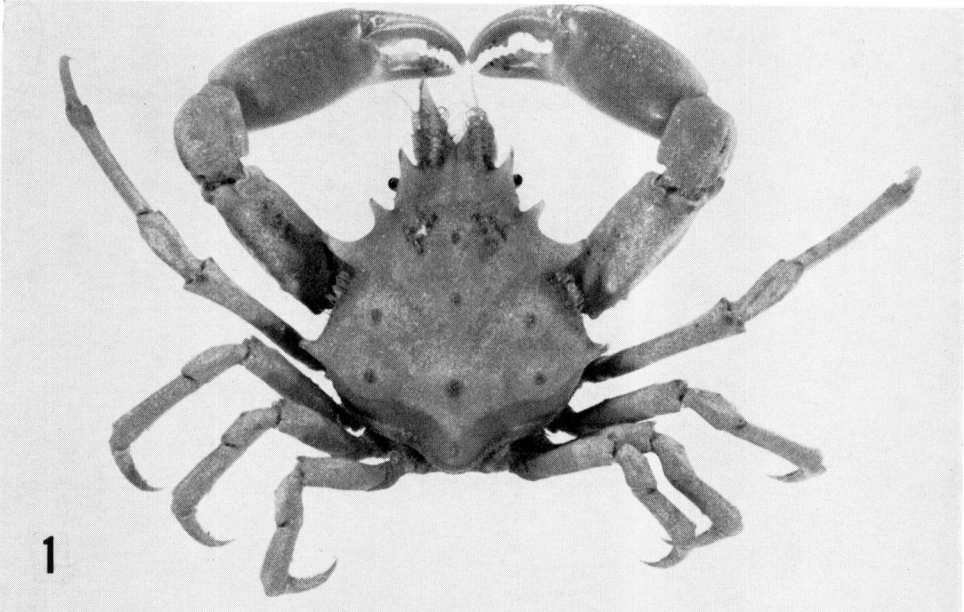


PLATE 21

- Fig. 1. *Pugettia dalli* Rathbun, male (*Velero III* Sta. 1224-41), dorsal view.
- Fig. 2. *Pugettia venetiae* Rathbun, female (*Velero III* Sta. 1177-40), dorsal view.



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PLATE 22

Talampus nuttalli (Randall), male (Southern California),
dorsal view.

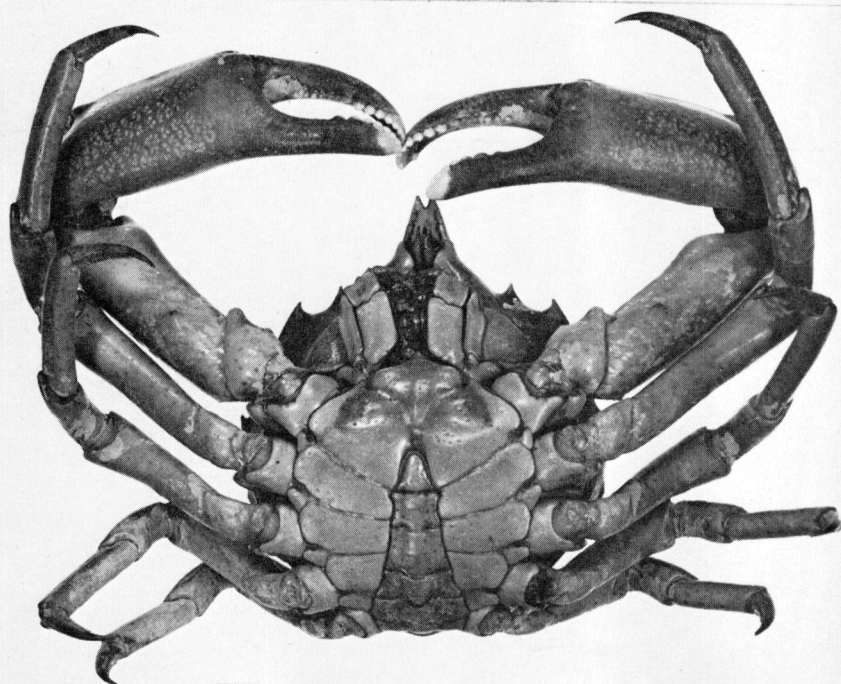


PLATE 23

- Fig. 1. *Taliepus dentatus* (Milne Edwards), male (L.U.C.E. Sta. M98), dorsal view.
- Fig. 2. Same specimen, ventral view.



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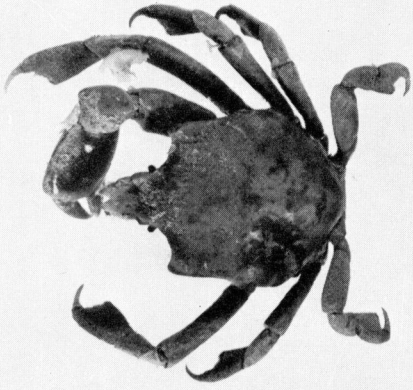
PLATE 24

- Fig. 1. *Taliepus marginatus* (Bell), immature male (*Velero III* Sta. 371-35), dorsal view.
- Fig. 2. Same specimen, ventral view.



PLATE 25

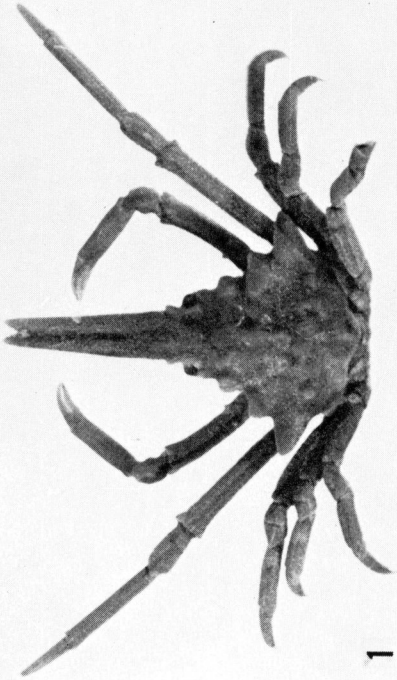
- Fig. 1. *Sphenocarcinus agassizi* Rathbun, male (*Velero III* Sta. 1037-40), dorsal view.
- Fig. 2. *Acanthonyx petiveri* Milne Edwards, male (*Velero III* Sta. 374-35), dorsal view.
- Fig. 3. *Mimulus foliatus* Stimpson, male (Sta. 1576-46), dorsal view.
- Fig. 4. *Leucippa pentagona* Milne Edwards, young male (U.S.N.M. No. 21899), dorsal view.



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PLATE 26

- Fig. 1. *Epiplatys minimus* Lockington, male (*Velero III* Sta. 1045-40), dorsal view.
- Fig. 2. *Epiplatys sulcirostris* Stimpson, female (*Velero IV* Sta. 1727-49), dorsal view.
- Fig. 3. *Epiplatoides hiltoni* (Rathbun), male (*Velero IV* Sta. 1961-50), dorsal view.
- Fig. 4. *Epiplatoides paradigmus*, new species, male holotype (Punta Cholla, Sonora) (A.H.F. No. 404), dorsal view.
- Fig. 5. *Epiplatoides murphyi* (Garth), female (*Askoy* Sta. 89), dorsal view.
- Fig. 6. *Eupleurodon peruvianus* (Rathbun), male (U.S.N.M. No. 70938), dorsal view.

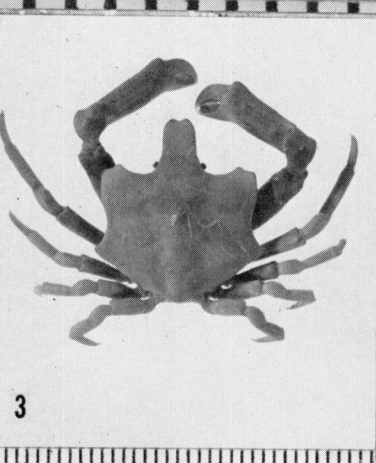
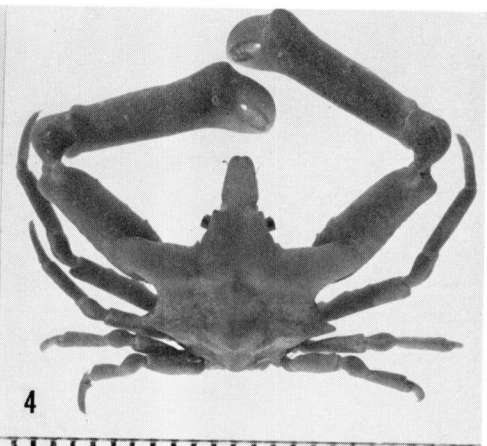
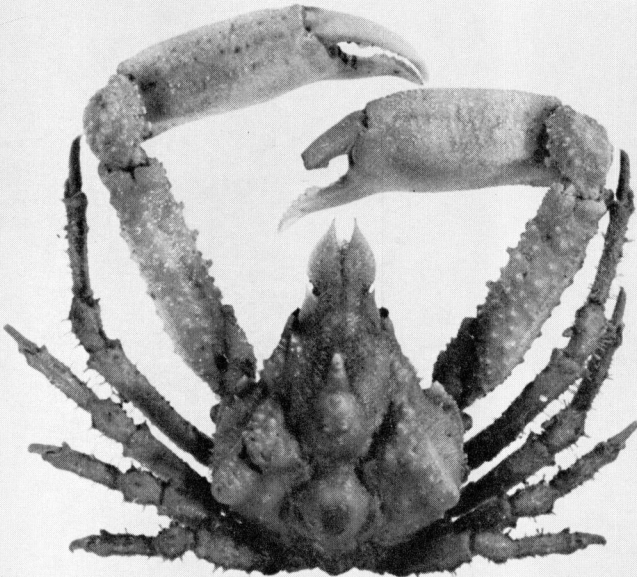


PLATE 27

- Fig. 1. *Scyra acutifrons* Dana, male (Hancock Sta. 1488-42), dorsal view.
- Fig. 2. *Loxorhynchus crispatus* Stimpson, female (*Valero III* Sta. 1232-41), dorsal view.



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PLATE 28

Loxorhynchus crispatus Stimpson, male (*Velero III* Sta. 1419-41), dorsal view.

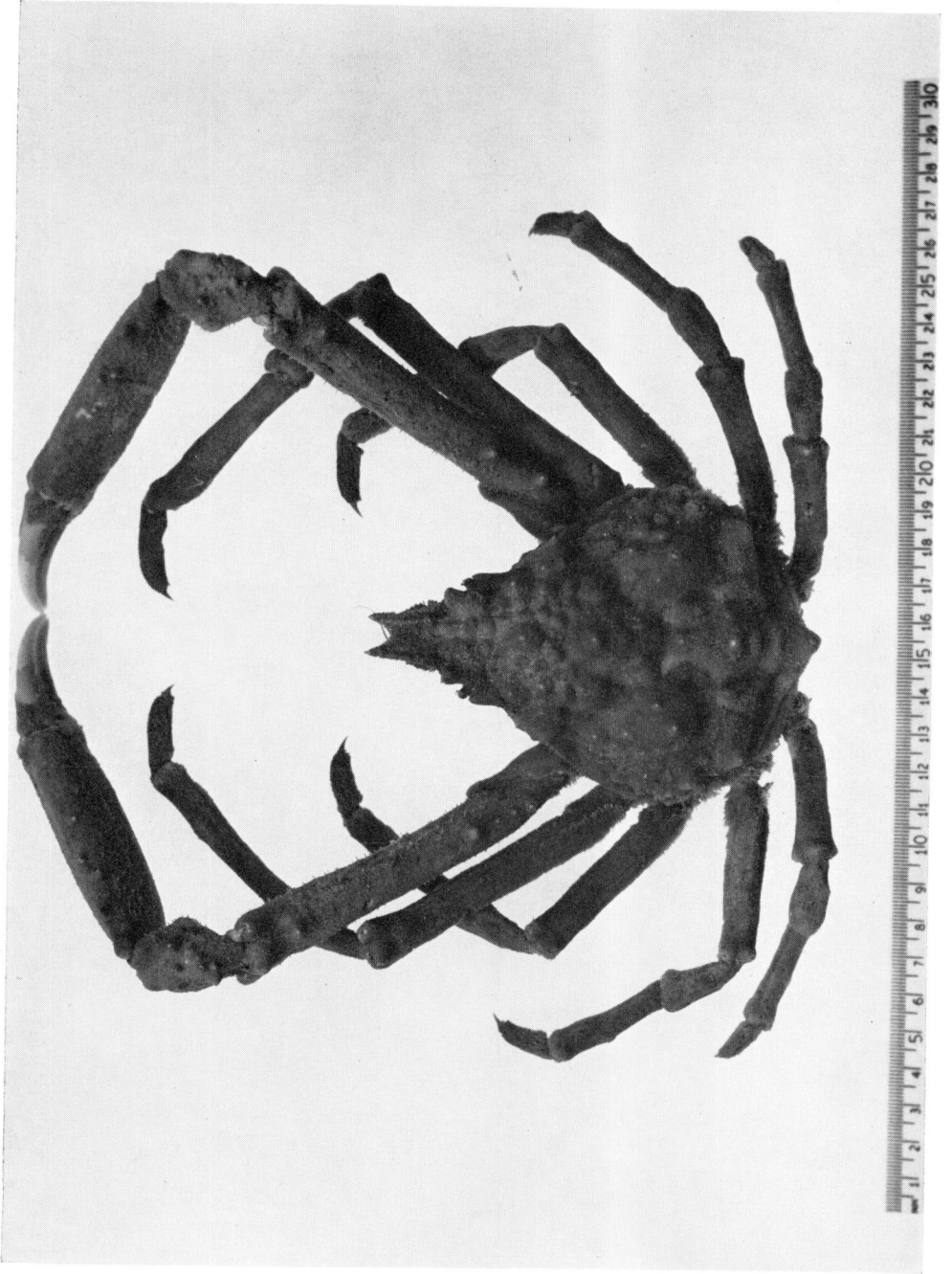
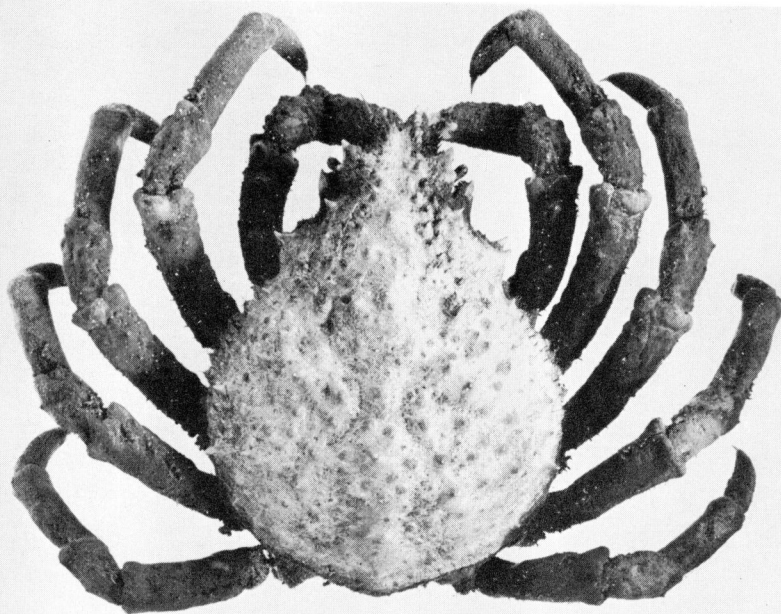
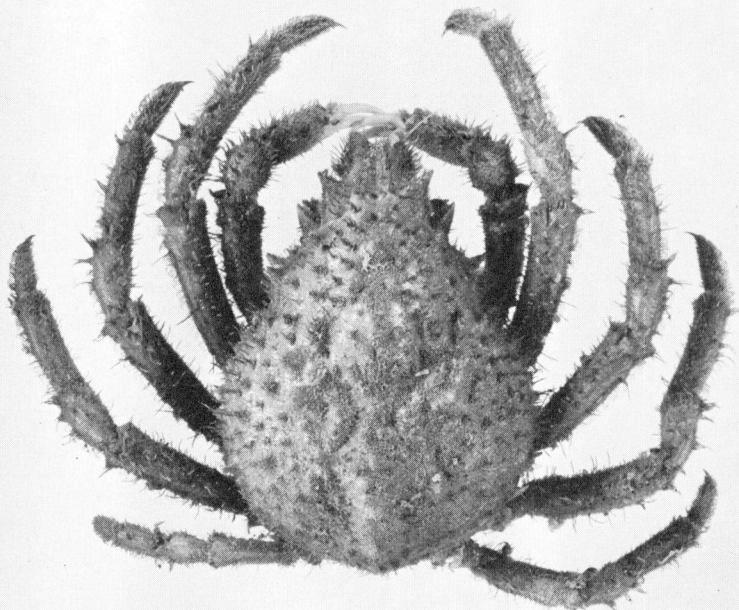


PLATE 29

- Fig. 1. *Loxorhynchus grandis* Stimpson, female (*Velero III* Sta. 1127-40), dorsal view.
- Fig. 2. *Loxorhynchus grandis* Stimpson, young male (*Velero III* Sta. 1197-40), dorsal view.



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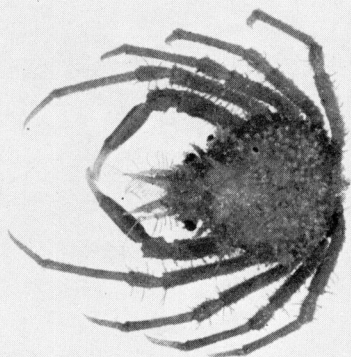
PLATE 30

- Fig. 1. *Chorilia longipes* Dana, male (Washington State), dorsal view.
- Fig. 2. *Chorilia longipes turgida* Rathbun, male (*Velero III* Sta. 1402-41), dorsal view.



PLATE 31

- Fig. 1. *Rochinia vesicularis* (Rathbun), male (*Velero III* Sta. 1119-40), dorsal view.
- Fig. 2. *Pelia tumida* (Lockington), male (*Velero III* Sta. 1230-41), dorsal view.
- Fig. 3. *Pelia pacifica* A. Milne Edwards, male (Changamé, Panama), dorsal view.
- Fig. 4. *Pisoides edwardsi* (Bell), male (*Velero III* Sta. 820-38), dorsal view.



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PLATE 32

- Fig. 1. *Libidoclaea granaria* Milne Edwards and Lucas, male (U.S.N.M. No. 21919), dorsal view.
- Fig. 2. *Libidoclaea granaria smithi* (Miers), female (U.S.N.M. No. 21923), dorsal view.



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PLATE 33

- Fig. 1. *Notolopas lamellatus* Stimpson, male (*Velero III* Sta. 850-38), dorsal view.
- Fig. 2. *Notolopas mexicanus* Garth, ovigerous female (*Velero III* Sta. 487-35), dorsal view.
- Fig. 3. *Lissa tuberosa* Rathbun, male (*Velero III* Sta. 780-38), dorsal view.
- Fig. 4. *Lissa aurivilliusi* Rathbun, male (*Velero III* Sta. 209-34), dorsal view.

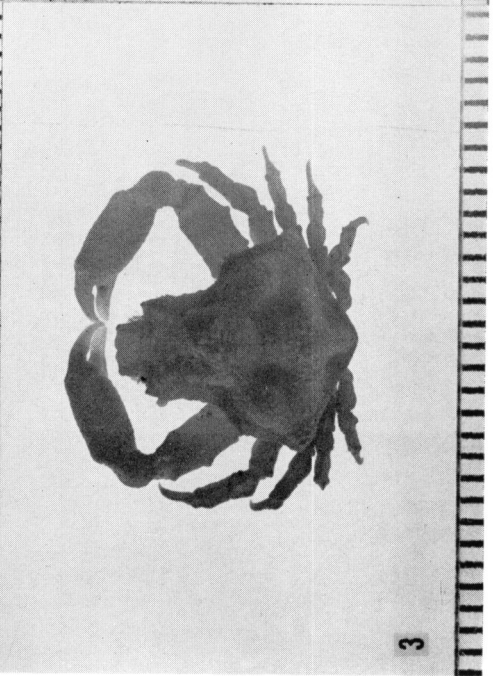
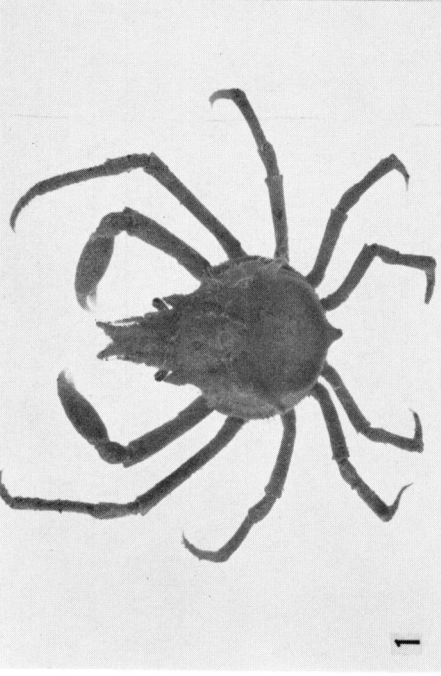
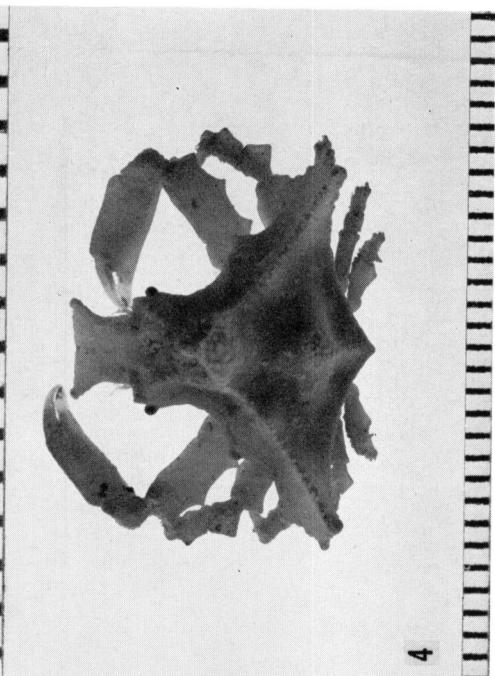


PLATE 34

- Fig. 1. *Herbstia camptacantha* (Stimpson), male (*Velero III* Sta. 1083-40), dorsal view.
- Fig. 2. *Herbstia parvifrons* (Randall), male (*Velero III* Sta. 904-38), dorsal view.
- Fig. 3. *Herbstia pubescens* Stimpson, male (*Velero III* Sta. 464-35), dorsal view.
- Fig. 4. *Herbstia tumida* (Stimpson), male (*Velero III* Sta. 252-34), dorsal view.

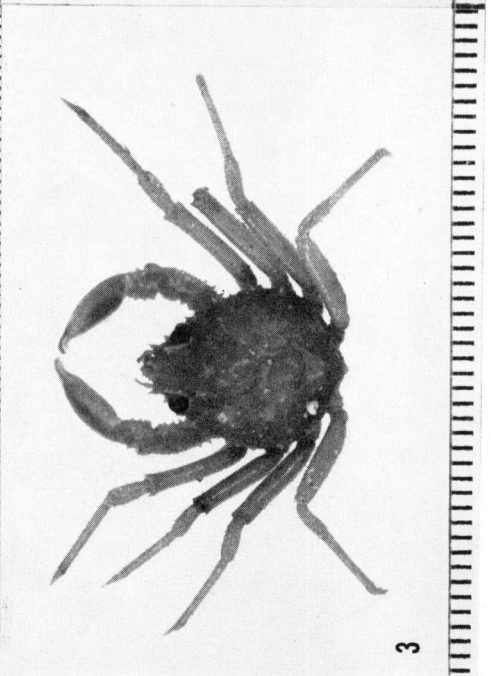
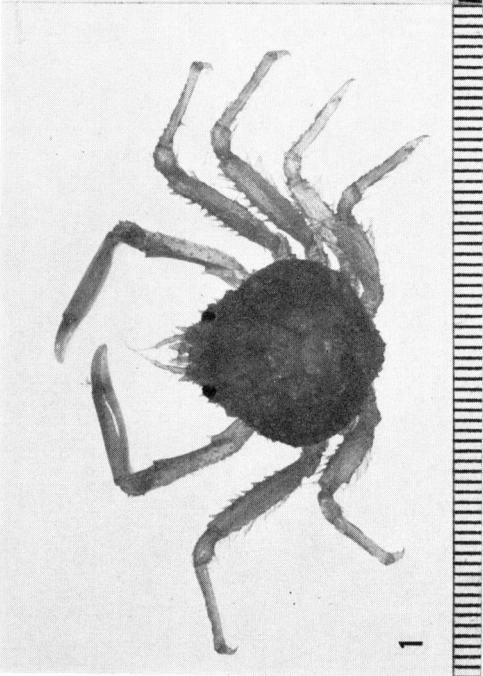
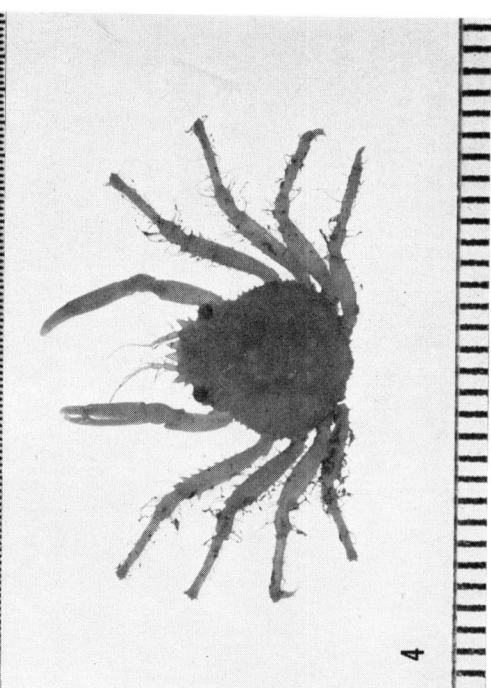
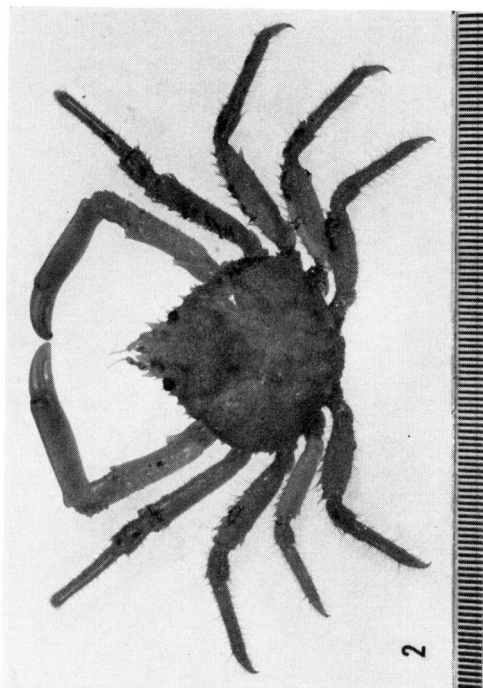
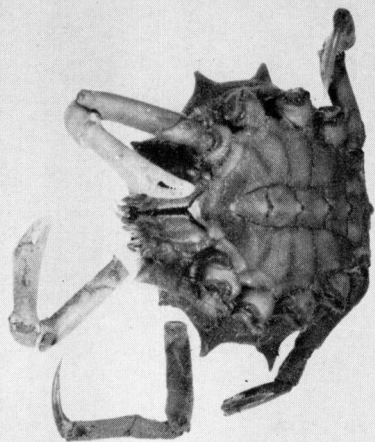
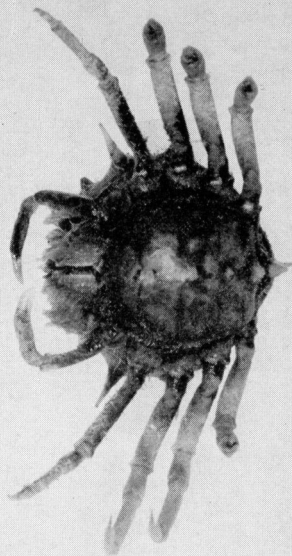


PLATE 35

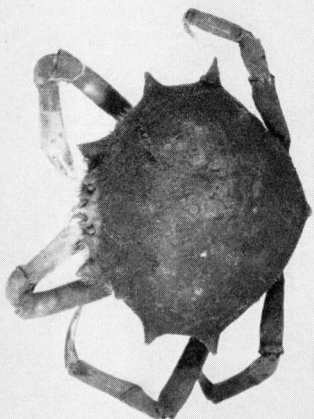
- Fig. 1. *Neodoclea boneti* Buitendijk, male lectotype (Macapule, Sinaloa) (R.M.N.H. No. 7604), dorsal view.
- Fig. 2. Same specimen, ventral view.
- Fig. 3. Same species, female paratype (*Velero III* Sta. 770-38), dorsal view.
- Fig. 4. Same specimen, ventral view.



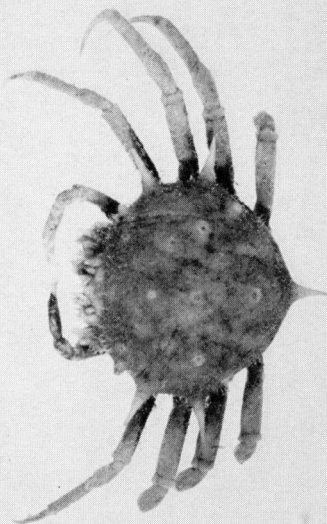
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PLATE 36

Libinia setosa Lockington, male neotype (Santa Maria Bay, Lower California) (C.A.S. Loc. 27594), dorsal view.

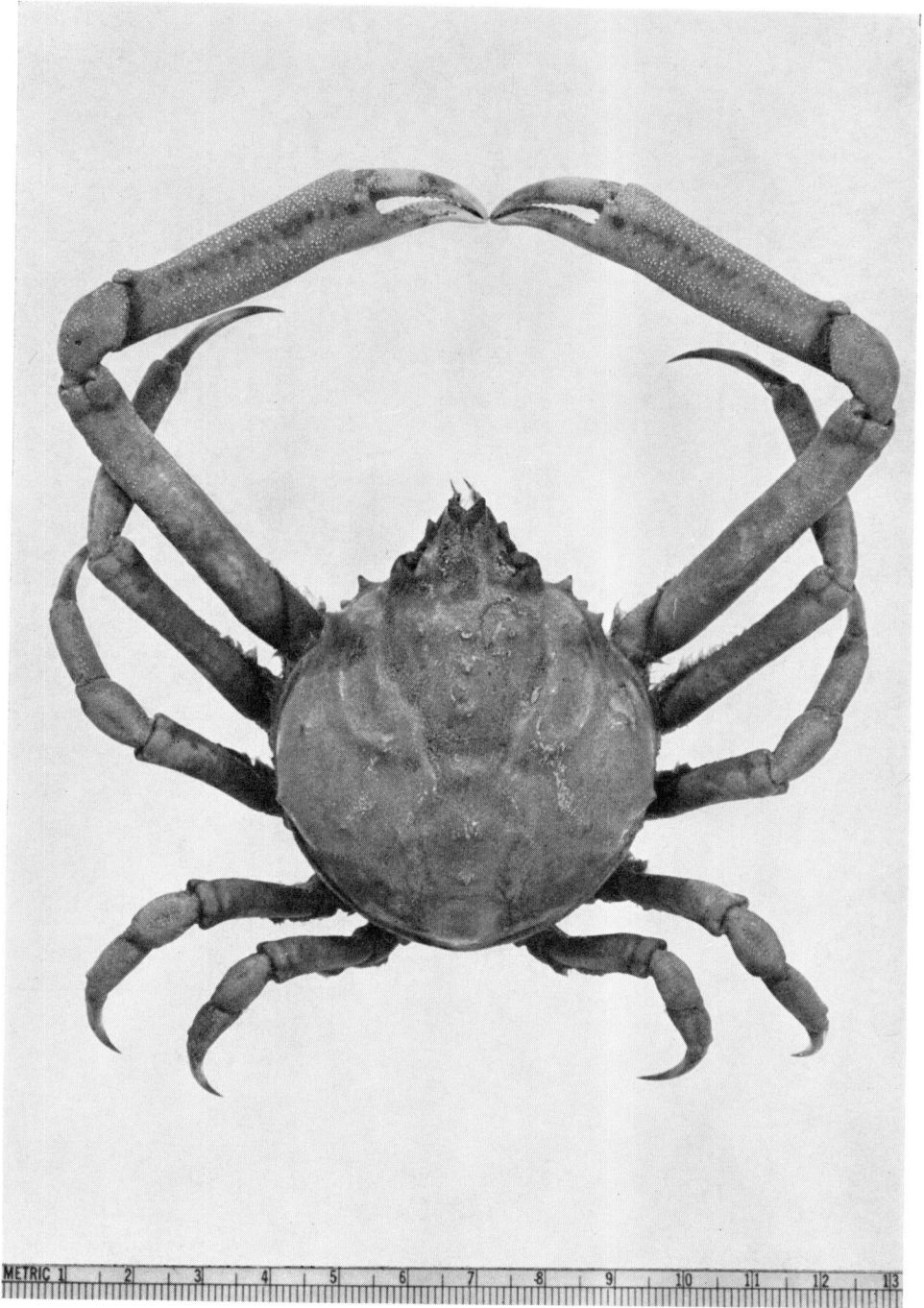
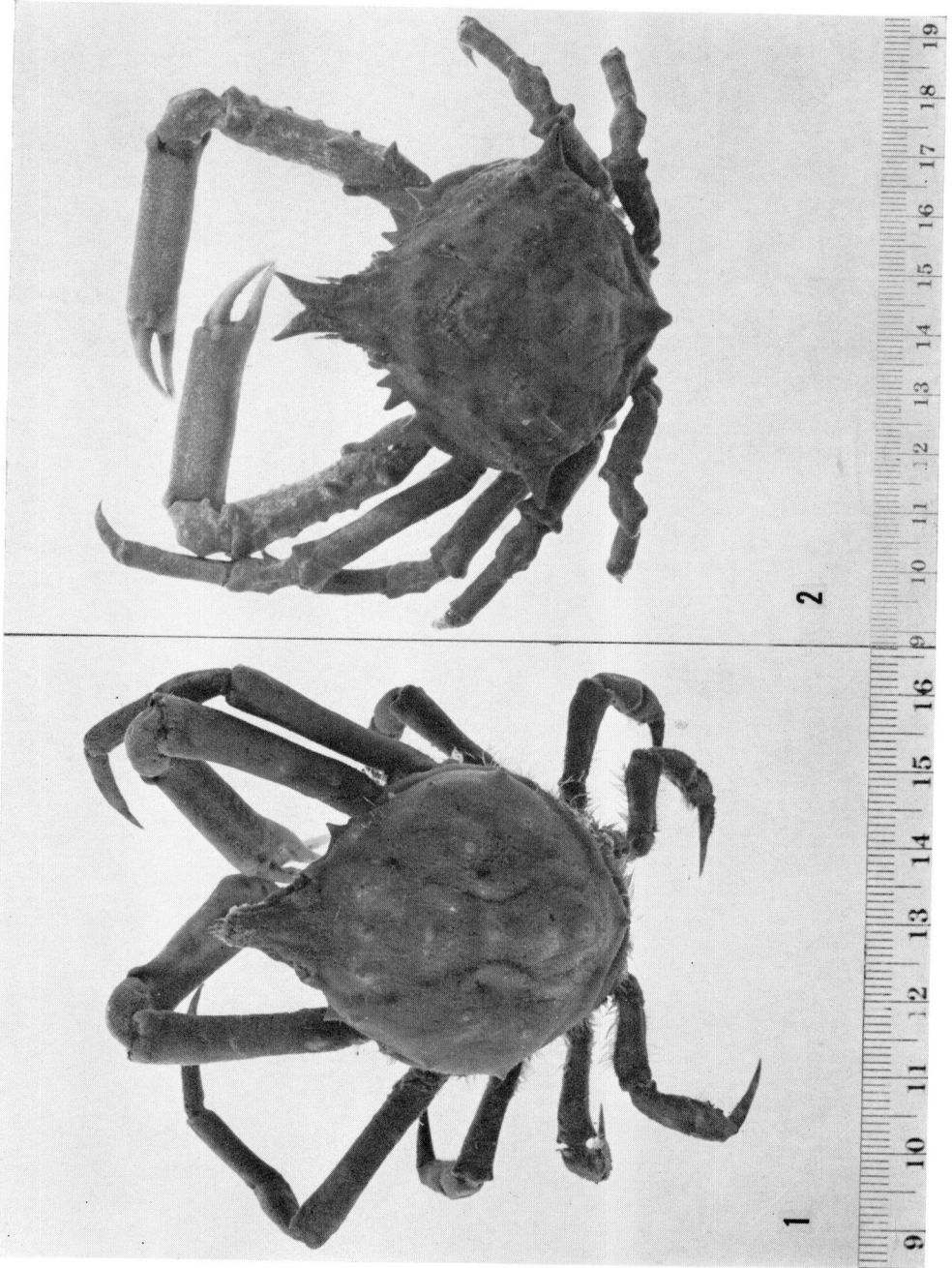


PLATE 37

- Fig. 1. *Libinia mexicana* Rathbun, male (San Felipe, Gulf of California), dorsal view.
- Fig. 2. *Libinia rostrata* Bell, male neotype (U.S.N.M. No. 100916), dorsal view.



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PLATE 38

- Fig. 1. *Maiopsis panamensis* Faxon, male (Manta, Ecuador)
(Z.M.H.), dorsal view, x .36.
- Fig. 2. Same, ventral view, x .36.

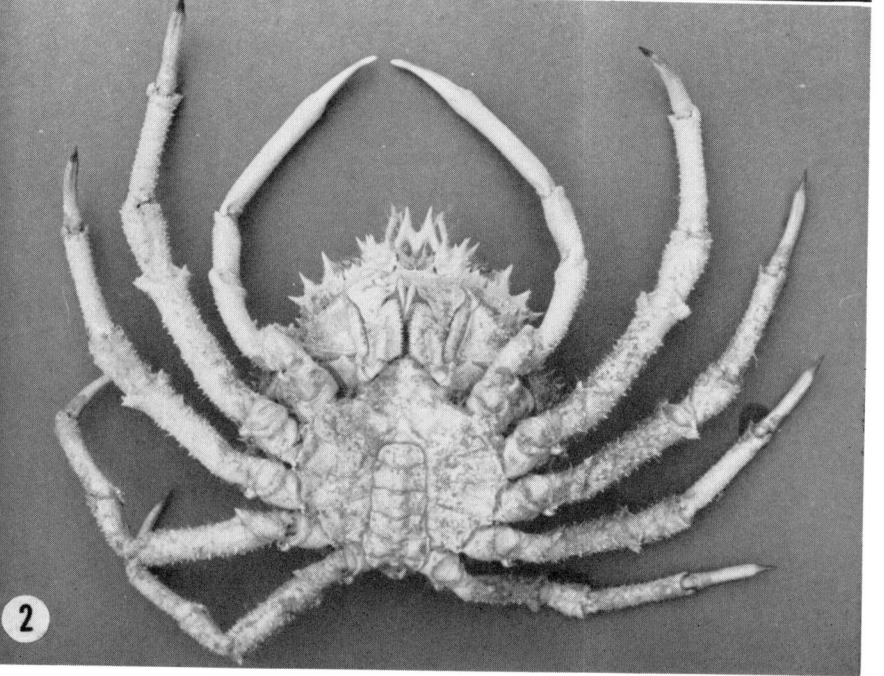
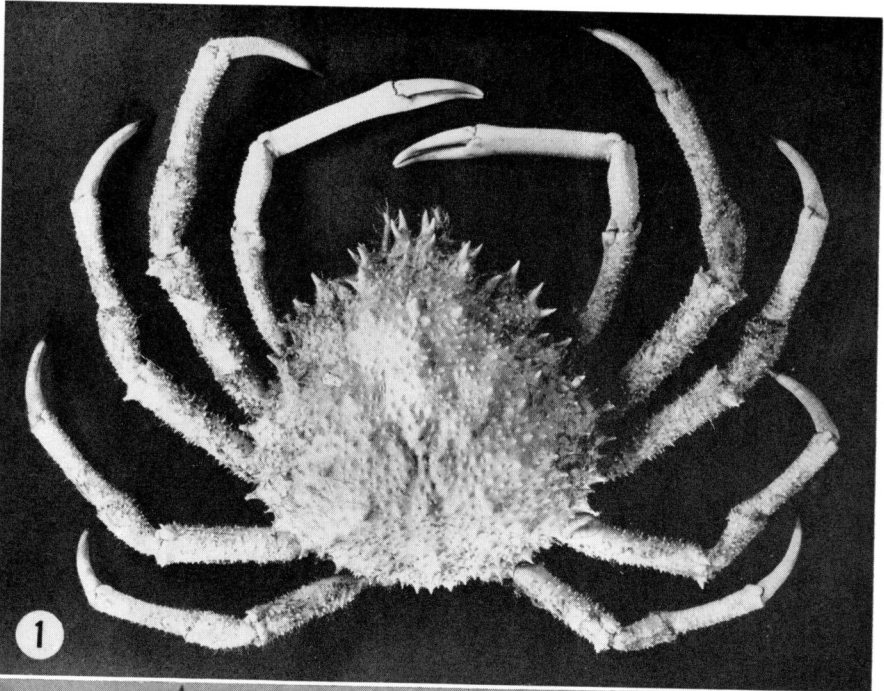
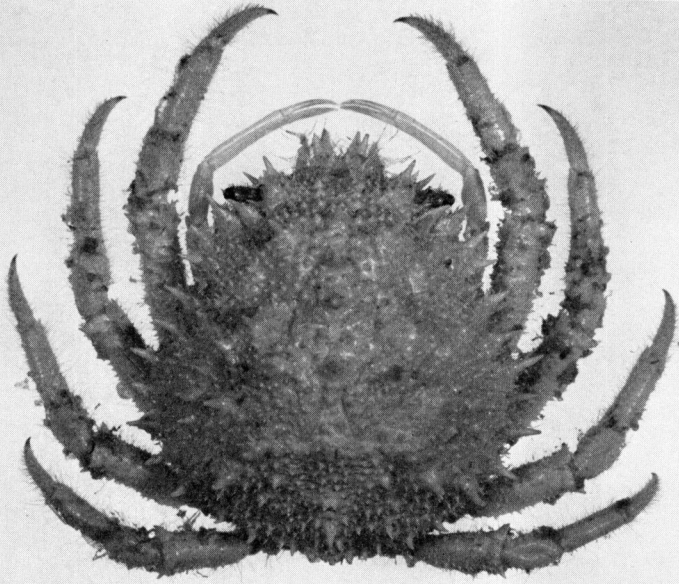
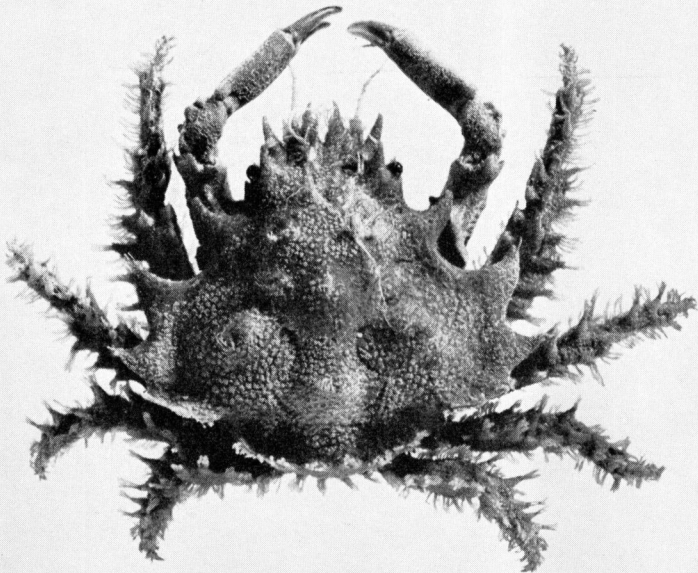


PLATE 39

- Fig. 1. *Maiopsis panamensis* Faxon, female (*Velero III* Sta. 918-39), dorsal view.
- Fig. 2. *Ala cornuta* (Stimpson), male (*Velero III* Sta. 1083-40), dorsal view.



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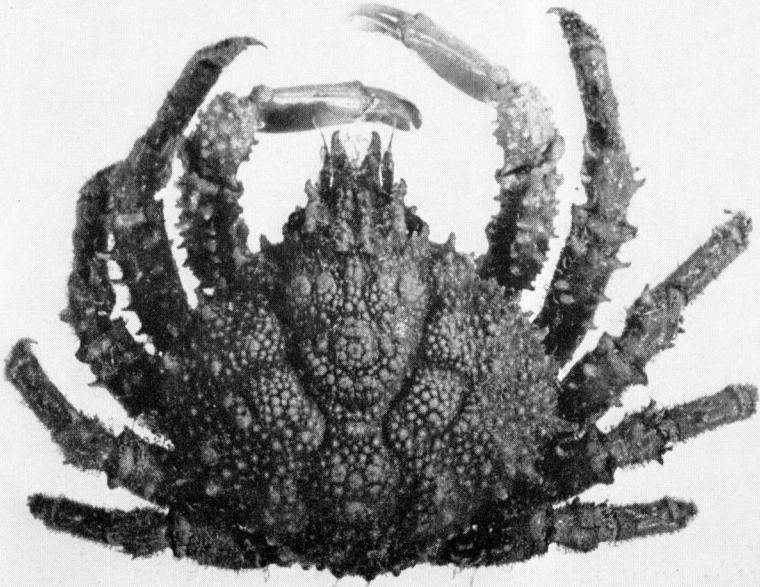
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PLATE 40

- Fig. 1. *Mithrax (Mithrax) tuberculatus* Stimpson, male (*Felero III* Sta. 444-35), dorsal view.
- Fig. 2. *Mithrax (Mithrax) armatus* Saussure (= *M. (M.) orcutti* Rathbun), male (*Felero III* Sta. 1-32), dorsal view.



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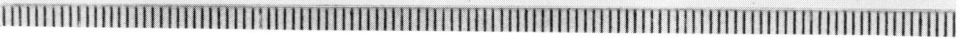


PLATE 41

- Fig. 1. *Mithrax (Mithrax) sinensis* Rathbun, male (*Velero III* Sta. 856-38), dorsal view.
- Fig. 2. *Paramithrax baeckstroemi* Balss, male (M.C.Z. No. 2048), dorsal view.
- Fig. 3. *Mithrax (Mithrax) sinensis clarionensis* Garth, male (*Velero III* Sta. 917-39), dorsal view.
- Fig. 4. *Mithrax (Mithrax) pygmaeus* Bell, male (*Velero III* Sta. 958-39), dorsal view.



PLATE 42

- Fig. 1. *Mithrax (Mithrax) spinipes* (Bell), female (*Velero III* Sta. 518-36), dorsal view.
- Fig. 2. *Mithrax (Mithraculus) denticulatus* Bell, male neotype (*Velero III* Sta. 400-35) (A.H.F. No. 353), dorsal view.
- Fig. 3. *Teleophrys cristulipes* Stimpson, male (*Velero III* Sta. 859-38), dorsal view.
- Fig. 4. *Teleophrys tumidus* (Cano), male (*Velero III* Sta. 844-38), dorsal view.



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PLATE 43

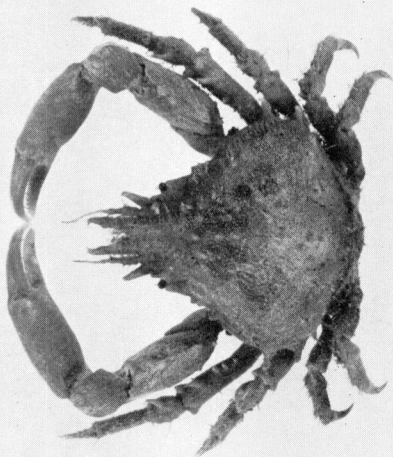
- Fig. 1. *Microphrys weddelli* Milne Edwards, male (U.S.N.M. No. 71229), dorsal view.
- Fig. 2. *Microphrys aculeatus* (Bell), male (*Velero III* Sta. 391-35), dorsal view.
- Fig. 3. *Microphrys platysoma* (Stimpson), male (*Velero III* Sta. 971-39), dorsal view.
- Fig. 4. *Microphrys triangulatus* (Lockington), male (*Velero III* Sta. 745-37), dorsal view.



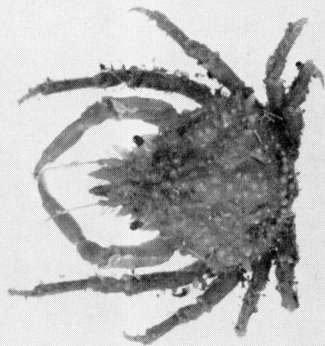
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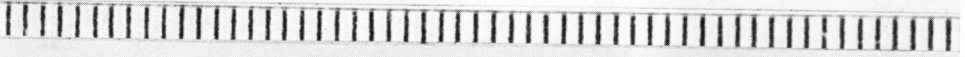
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PLATE 44

- Fig. 1. *Microphrys branchialis* Rathbun, male (*Velero IV* Sta. 1957-50), dorsal view.
- Fig. 2. *Stenocionops ovata* (Bell) (= *S. triangulata* Rathbun), male (*Velero III* Sta. 244-34), dorsal view; right rostral horn broken.



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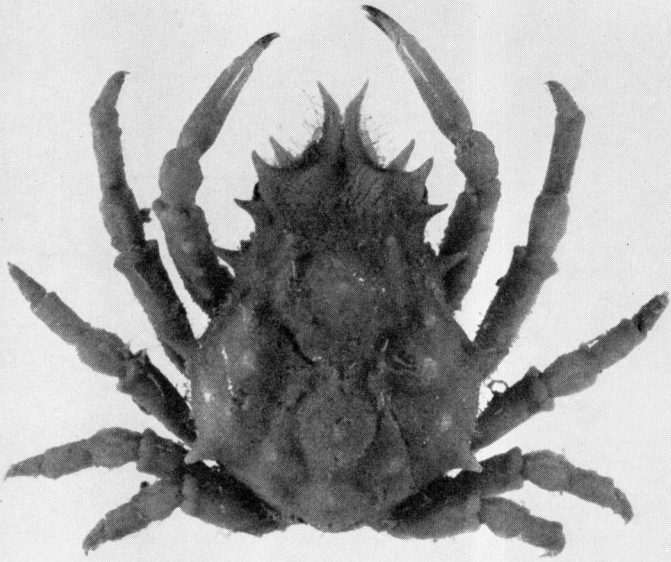


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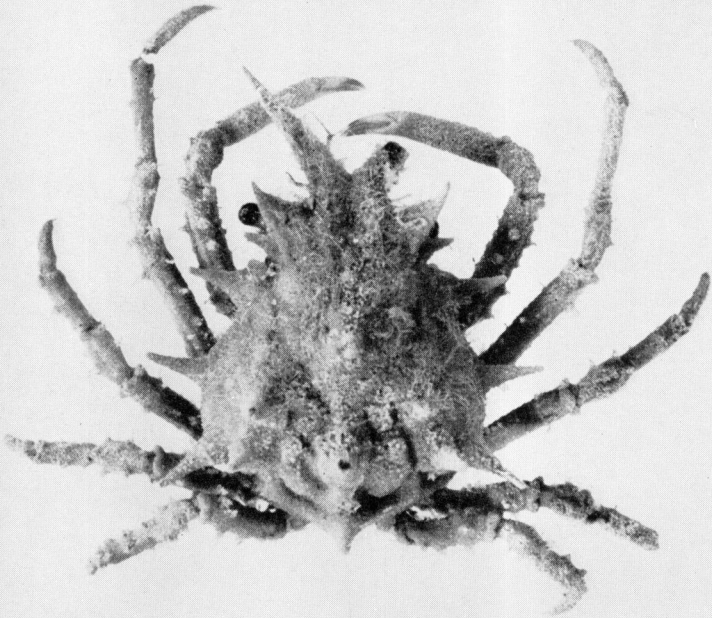


PLATE 45

- Fig. 1. *Stenocionops angusta* (Lockington) [= *S. contigua* (Rathbun)], male (*Velero III* Sta. 564-36), dorsal view.
- Fig. 2. *Stenocionops beebei* Glassell, male (*Velero III* Sta. 702-37), dorsal view.



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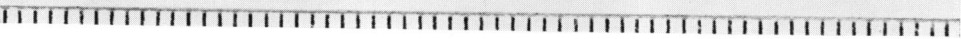
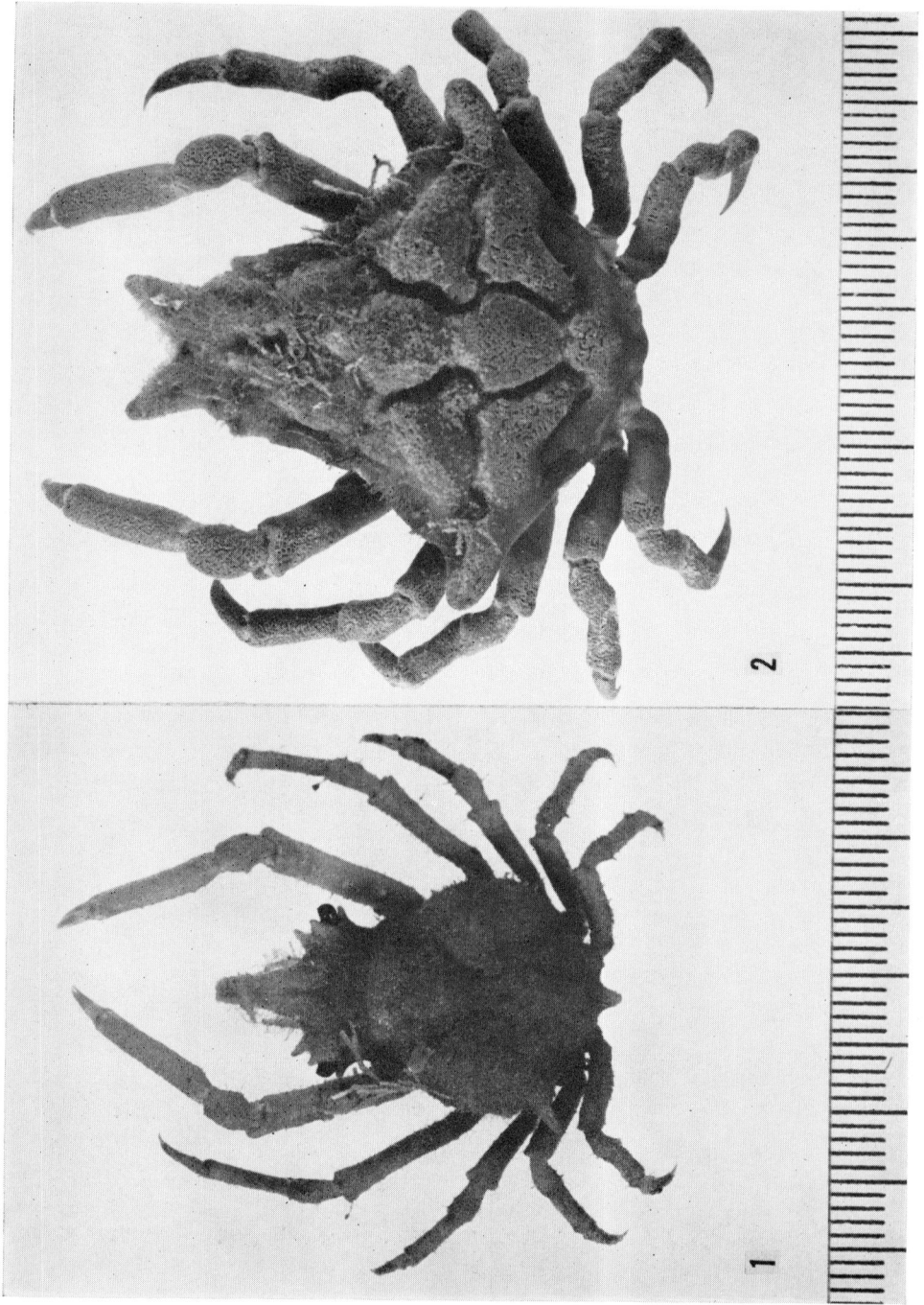


PLATE 46

- Fig. 1. *Macrocoeloma maccullochae* Garth, male holotype (*Velero III* Sta. 747-37) (A.H.F. No. 372), dorsal view.
- Fig. 2. *Macrocoeloma villosum* (Bell), male (*Velero III* Sta. 403-35), dorsal view.



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PLATE 47

- Fig. 1. *Hemus analogus* Rathbun, female (Perdita [Partida?] Island, Gulf of California), dorsal view.
- Fig. 2. *Hemus finneganae*, new species, female (Veleiro III Sta. 1091-40), dorsal view.
- Fig. 3. *Thoe sulcata* Stimpson, male (Veleiro III Sta. 646-37), dorsal view.
- Fig. 4. *Thoe sulcata panamensis* Nobili, male (Veleiro III Sta. 465-35), dorsal view.

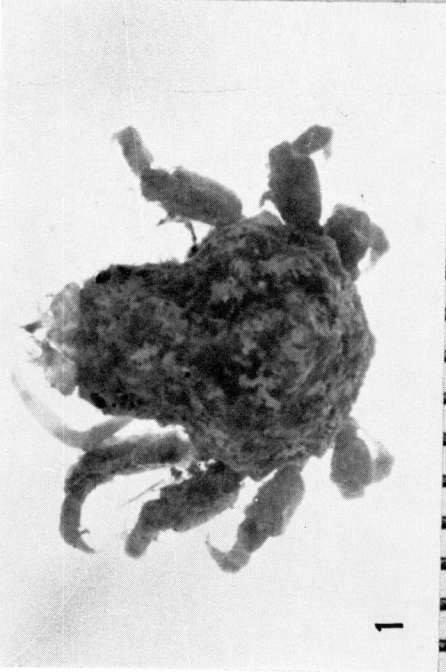
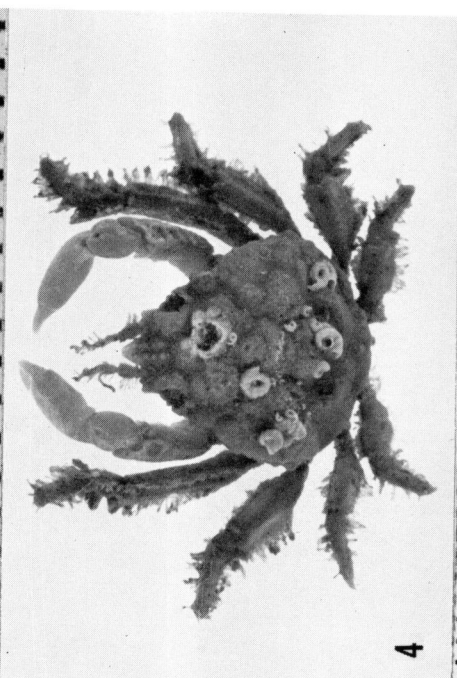
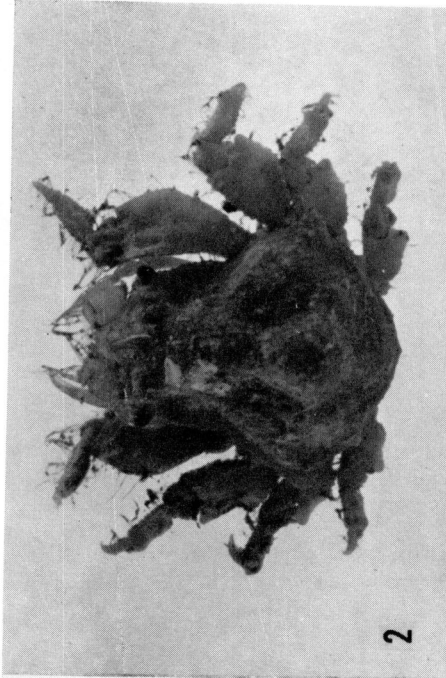
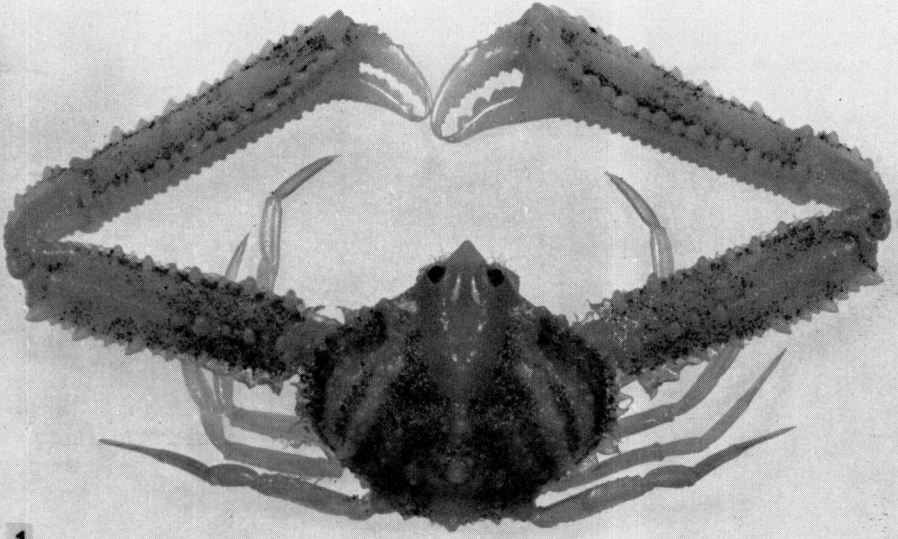
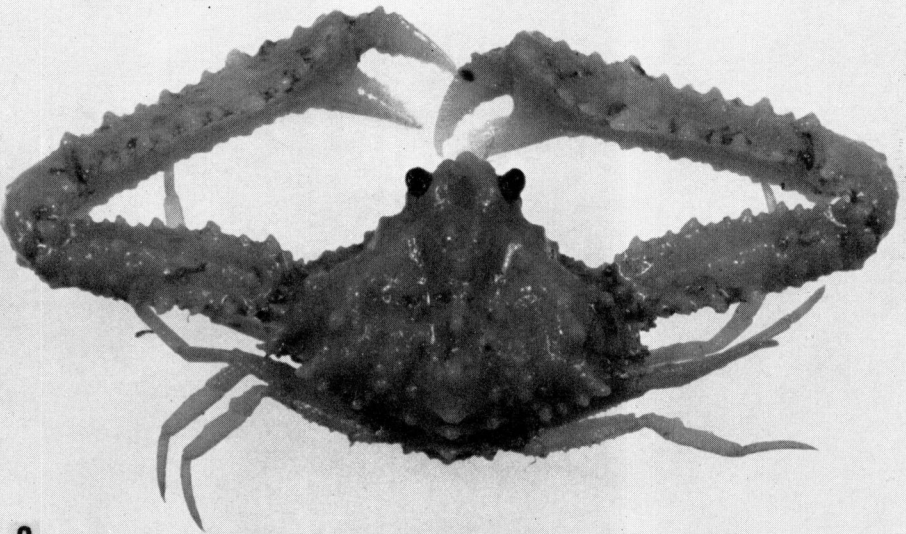


PLATE 48

- Fig. 1. *Parthenope (Parthenope) hyponca* Stimpson, female (*Velero III* Sta. 965-39), dorsal view.
- Fig. 2. *Parthenope (Platylambrus) exilipes* Rathbun, male (*Velero III* Sta. 843-38), dorsal view.



1



2

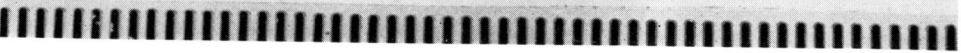


PLATE 49

- Fig. 1. *Parthenope (Platylambrus) depressiuscula* Stimpson, male
(*Velero III* Sta. 959-39), dorsal view.
- Fig. 2. *Parthenope (Pseudolambrus) triangula* Stimpson, female with
rhizocephalan (*Velero IV* Sta. 1724-49), dorsal view.



1



2

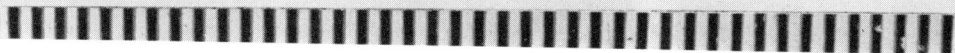


PLATE 50

Fig. 1. *Parthenope (Pseudolambrus) excavata* (Stimpson), male
(*Velero III* Sta. 960-39), dorsal view.

Fig. 2. Same species, female (*Velero III* Sta. 959-39), dorsal view.

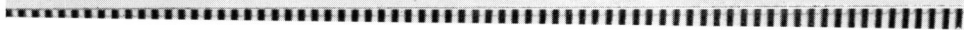
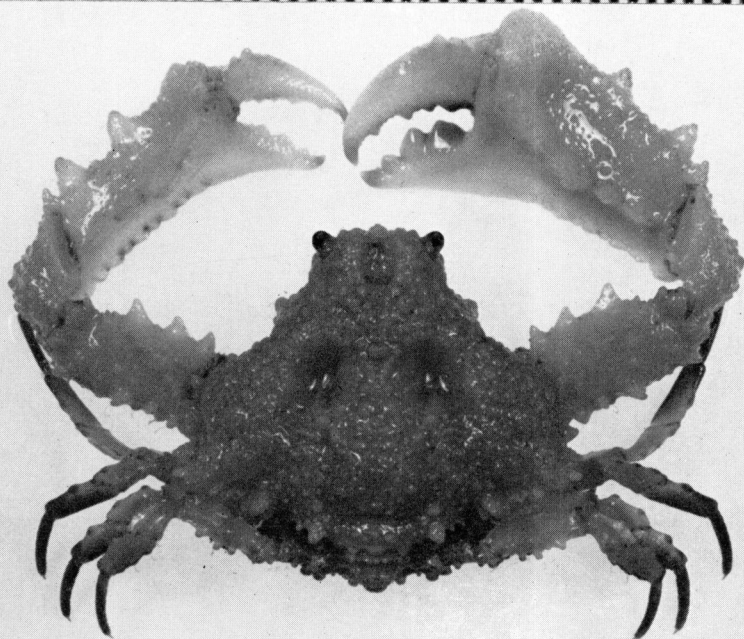
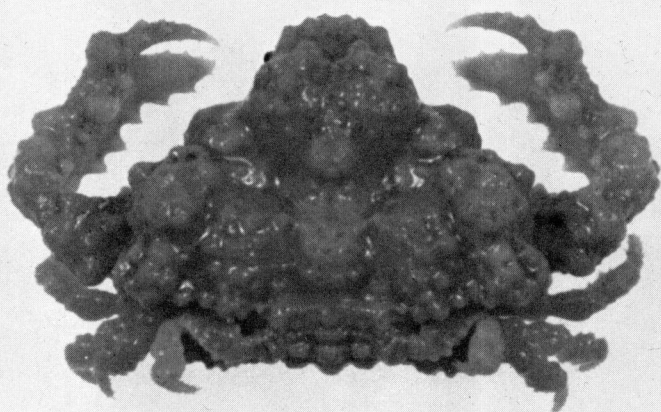
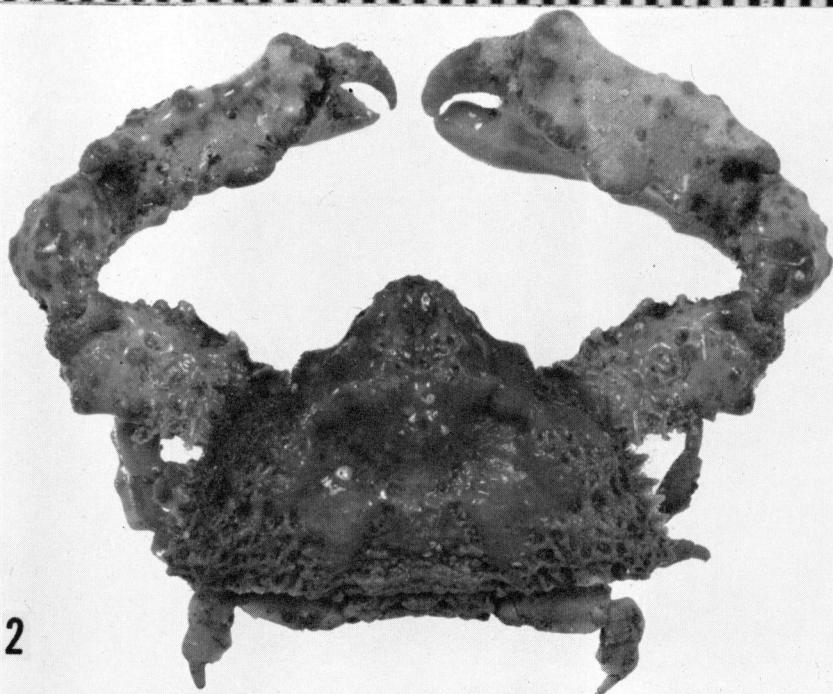


PLATE 51

- Fig. 1. *Thyrolambrus glasselli* Garth (= *T. erosus* Rathbun), female (*Velero III* Sta. 514-36), dorsal view.
- Fig. 2. *Daldorfa garthi* Glassell, male (*Velero III* Sta. 465-35), dorsal view.



1



2

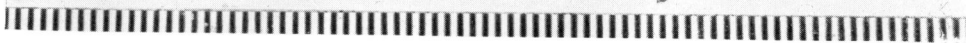
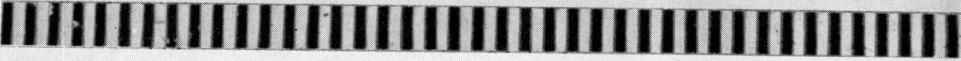


PLATE 52

- Fig. 1. *Solenolambrus arcuatus* Stimpson, male (*Velero III* Sta. 259-34), dorsal view.
- Fig. 2. *Leiolambrus punctatissimus* (Owen), female (*Velero III* Sta. 620-37), dorsal view.



1



2

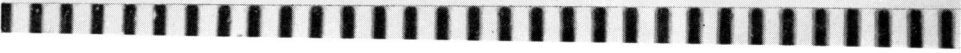


PLATE 53

- Fig. 1. *Aethra scruposa scutata* Smith, female (*Velero III* Sta. 796-38), dorsal view.
- Fig. 2. Same specimen, ventral view.

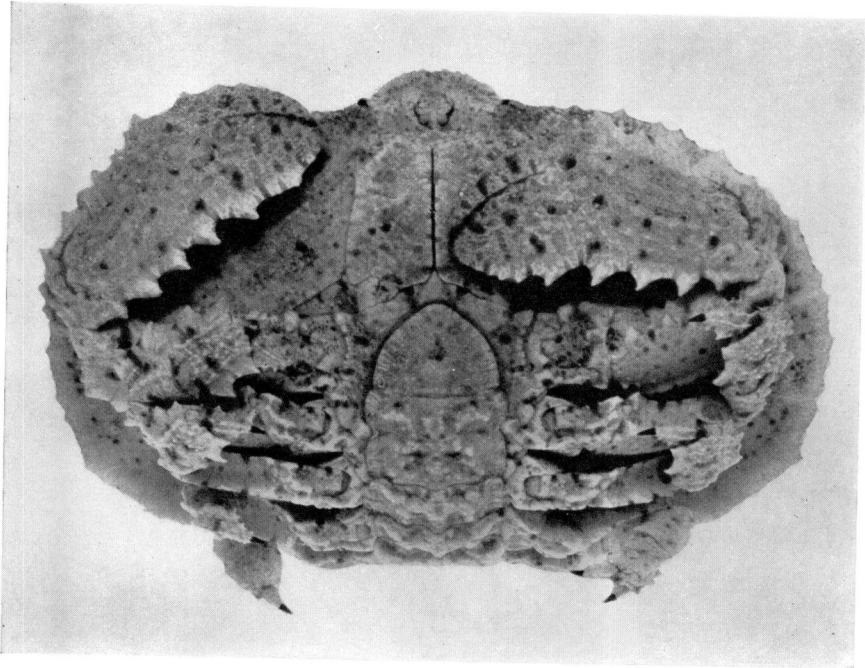
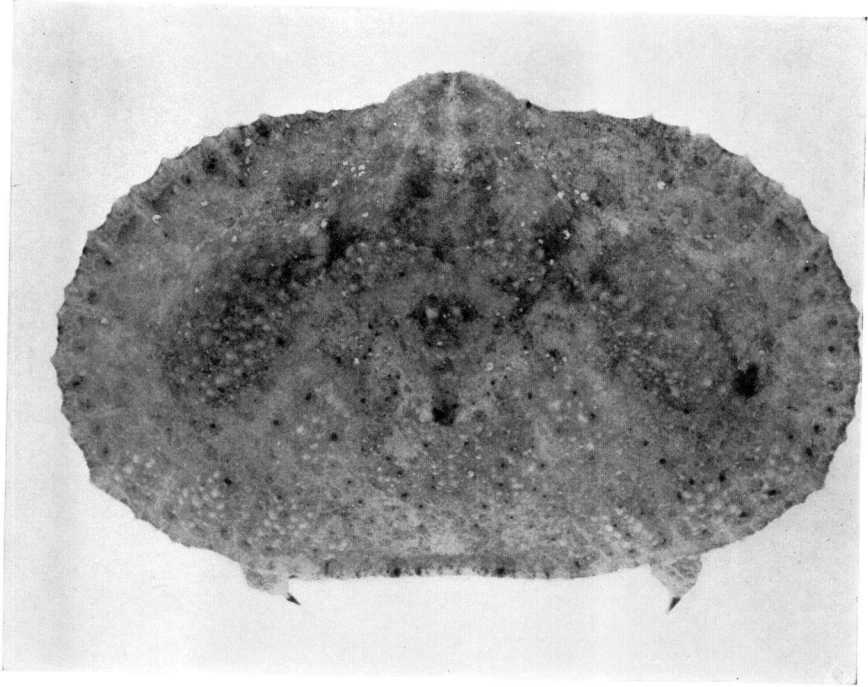
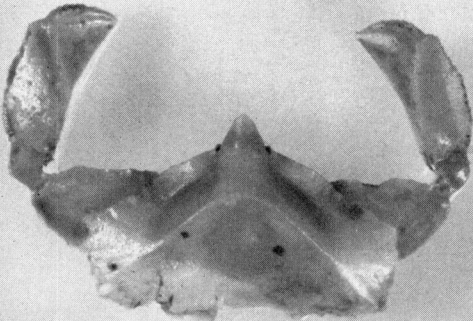


PLATE 54

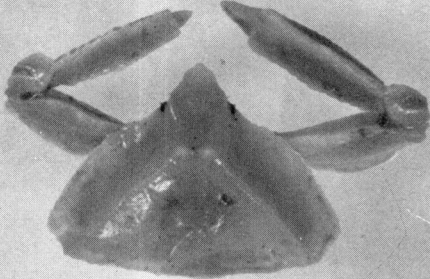
- Fig. 1. *Mesorhoea belli* (A. Milne Edwards), male (*Velero III* Sta. 722-37), dorsal view.
- Fig. 2. *Cryptopodia hassleri* Rathbun, male (*Velero III* Sta. 472-35), dorsal view.
- Fig. 3. *Heterocrypta colombiana* Garth, male (*Velero III* Sta. 478-35), dorsal view.



1



2



3



PLATE 55

- Fig. 1. *Heterocrypta macrobrachia* Stimpson, male (*Velero III* Sta. 1075-40), dorsal view.
- Fig. 2. *Heterocrypta occidentalis* (Dana), male (*Velero III* Sta. 897-38), dorsal view.



1



2





TABLES



EXPLANATION OF TABLES

The following tables include material examined of each species represented by collections from three or more localities, excluding Galapagos Islands localities, previously enumerated (Garth, 1946). Data for species represented by specimens from fewer than three localities will be found in the text under *Material Examined*.

Localities are arranged in geographical order from north to south with the following exceptions: Northern Channel Islands after Santa Barbara County, Southern Channel Islands after San Diego County, California; Gulf of California after west coast of Lower California; Mexico south of Cape Corrientes after Revilla Gigedo Islands.

Hancock Pacific expeditions stations from 1931 to 1941, inclusive, were made by the *Velero III*, stations from 1948 to the present were made by the *Velero IV*, with stations in intervening years made by shore-based Hancock Foundation field parties. Stations from 1933 onward are serially numbered, the two digits following the hyphen indicating the year of collecting.

Other vessels contributing material may be identified as follows: *Albatross*, U. S. Fish Commission; *Anton Dohrn* (D-4, T-212), University of Southern California; *Askoy*, American Museum of Natural History, New York; *Hydah*, Puget Sound Biological Station, Friday Harbor; *Investigator*, Pacific Biological Station, Nanaimo; *N. B. Scofield*, California Department of Fish and Game; *Zaca*, California Academy of Sciences, New York Zoological Society. Most of these vessels have serial station numbers of their own.

Individual collectors contributing material identified by station number, together with a representative station number of each, are John Q. and Thomas A. Burch (B4086), E. Yale Dawson (D54), W. K. Emerson and J. L. Barnard (EB20), Carl L. Hubbs (H47-133), Robert J. Menzies (M139), and L. O. Miles (M86-49). Lund University Chile Expedition (L.U.C.E.) stations (M57) were made by H. Brattström and E. Dahl; Kenyon-Williams Expedition stations (M17B) by M. Woodbridge Williams.

The entries "measured," "color note" under Remarks indicate that the specimen is the one so treated in the appropriate section of the text; the entries "illustrated," "photo," "pleopod" apply similarly to the plates and text-figures.

TABLE 1
HALICARCINUS PLANATUS (FABRICIUS)

Locality	Fms.	Date	Sta.	Number and Sex	Remarks L.U.C.E.
Chile					
Bahía San Vicente, Concepción	shore	June 9, 1949	M121	1 ♀	
Punta Liles, W of San Vicente					
Seno Reloncaví, Chiloe	13-16 m	Nov. 11, 1948	M4		1 yg
Bay off Puerto Montt					
Canal Tenglo	3 m	Nov. 20, 1948	M12		1 yg
Puerto Montt harbor					
Between Isla Tenglo					
and Angelmo	0-6 m	Nov. 30, 1948	M13	7 ♀ ov	
Near "Pontón Sirena"	11 m	Feb. 16, 1949	M50	1 ♀ ov	4 yg
Isla Tenglo, W point	shore	Mar. 13-14, 1949	M59	4 ♀ (1 ov)	11 yg
Isla Tenglo, SW point	shore	Apr. 12, 1949	M90		2 yg
Punta Pilluco	shore	Jan.-Apr., 1949	M37	9 ♀ (1 ov)	21 yg "Under stones"
Paso Maillén, between Punta Panitao and Punta Puchegui	ca. 22 m	Jan. 25, 1949	M47	1 ♀ ov	
Ensenada de Guatral	shore	Apr. 13, 1949	M91	1 ♂	
SW of Punta Guatral	25 m	Jan. 22, 1949	M39	10 ♀ 1 ♀ ov	4 yg
Bay E of Isla Quellín					
Estero Reloncaví, Chiloe					
Bahía Ralún	35-40 m	Jan. 4, 1949	M29	1 ♀	
E of Punta Dirección					
Between Cayo Nahuelguápi	6 m	Apr. 1, 1949	M87	2 ♀	
and Punta Veriles					
Between Cayo Nahuelguápi	12 m	Apr. 1, 1949	M88	5 ♀ (1 ov)	
and Punta Veriles					
W of Río Puelo	ca. 170 m	Mar. 31, 1949	M83		1 yg
El Millagro	shore	July 14, 1949	M139		2 yg

Canal Chacao, Chiloe	shore	Feb. 26-28, 1949	M56	2 ♀ (1 ov)		
Península Laqui	40 m	May 4, 1949	M94	3 ♀	5 yg	
Punta Corona, NE point	40 m	May 5, 1949	M103	8 ♀		
W of Rocas Amazonas	6-7 m	May 4, 1949	M95	9 ♀		
N of Punta Soledad	14 m	May 4, 1949	M97	1 ♀		
Golfo de Quetalmahué	shore	Mar. 1, 1949	M57			specimen missing
SW of Punta Aucan	shore	Nov. 17, 1948	M9A	1 ♀ ov		
S of Punta Arenas	shore	Feb. 27, 1949	M55		1 yg	
Bahía de Ancud, Chiloe	shore	Mar. 2, 1949	M10F	1 ♀	3 yg	"In rockpools"
Península Lacui	15 m	May 6, 1949	M108	5 ♀	6 yg	
Punta Ahui	35 m	Dec. 15, 1948	M18		2 yg	
Punta Ahui, S shore	6-5 m	Dec. 15, 1948	M19		3 yg	
Between Punta San Antonio and Punta Colorada	shore	May 11, 1949	M22	8 ♀		
Punta El Morro	shore	May 5, 1949	M104	2 ♀		
Golfo de Ancud, Chiloe	50-60 m	Feb. 16, 1949	M63	1 ♀ (yg)		
Canal San Antonio	shore	Feb. 24, 1949	M76		1 yg	
N of Punta Yahuecha	shore	May 3, 1949	M115	5 ♂		♂ photo, pleopod
Estero Huito	shore	May 2, 1949	M113	1 ♂		
N of Punta Yahuecha	shore					
Inner part						
Isla Oueni						
Punta Pinto, W side						
SE of Punta Tres Cruces,						
NE of Punta Piedras						
Isla Chiloe, E coast						
Canal Dalcabué, W of						
Bajo Passage						
Canal Moraleda, Chiloe						
Puerto Ballena						
Estrecho de Magallanes						
Near Rio de los Ciervos,						
S of Punta Arenas						
Punta Santa María,						
near Agua Fresca						

TABLE 2
EURYPODIUS LATREILLEI GUÉRIN

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Peru					
Independencia Bay	5	Jan. 14, 1935	382-35	8 ♂	plus 2 fragments
Independencia Bay	5	Jan. 14, 1935	384-35	43 ♀ (11 ov)	17 yg
Independencia Bay	9-10	Jan. 14, 1935	385-35	8 ♂	10 yg
Independencia Bay	10	Feb. 9, 1938	829-38	95 ♀ (26 ov)	17 yg
Independencia Bay	10	Feb. 10, 1938	832-38	10 ♂	14 yg
Independencia Bay	8	Feb. 10, 1938	833-38	1 ♂	
E of Vieja Island	5	Jan. 12, 1935	372-35	2 ♂	7 ♀
Off Vieja Island	12	Jan. 12, 1935	373-35	1 ♂	1 ♀ ov
San Nicolas Bay	10-25	Feb. 6, 1938	820-38	3 ♂	5 ♀
Chile					L.U.C.E.
Tocopilla, off power plant					
S of town	ca. 13 m	Jan. 5, 1949	M156		1 ♀ yg
Seno Reloncaví, Chiloe					
Paso Maillén, between					
Punta Panitao and					
Punta Puchegui	ca. 22 m	Jan. 25, 1949	M47	1 ♂	1 ♀
Estero Reloncaví, Chiloe					with hydroid
Bahía Ralón					
Between Cayo Nahuelguapi and					
Punta Veriles	6 m	Apr. 1, 1949	M87		1 ♀ ov
Golfo de Quetalmahué, Chiloe					
Canal Chacao					
SW of Punta Aucan	6-7 m	May 4, 1949	M95	4 ♂	10 ♀
					2 yg
					covered with red algae

S of Punta Nagle	11 m	May 4, 1949	M96	15 ♂	20 ♀ (13 ov)	with sponges
S of Punta Arenas	14 m	May 4, 1949	M97	6 ♂	7 ♀ ov	with sponges and ascidian
Golfo de Ancud, Chileo						
Between Punta Abtao and Isla Abtao, S of church	36 m	May 5, 1949	M106		1 ♀	
Canal San Antonio, inner part	15 m	May 6, 1949	M108	1 ♂		
Estero Huito						
Inner part	5-6 m	Dec. 15, 1948	M19	1 ♂	3 ♀ ov	with sponges
Central part	15 m	Dec. 15, 1948	M20		3 ♀ (1 ov)	with sponges
N of Punta Yahuecha	35 m	Dec. 15, 1948	M18	2 ♂	1 ♀	
Canal Caicaen, W of Calbuco	ca. 13 m	Jan. 25, 1949	M46A	2 ♂	5 ♀	with algae
Canal Calbuco						
E of church in Calbuco	30 m	Dec. 14, 1948	M17	1 ♂	2 ♀	
Between Punta Metmen and Punta Pinto	25 m	Dec. 15, 1948	M21	13 ♂	10 ♀ (1 ov)	with sponges
Bahía Iltto at Isla Tabon,						
N of Punta Iltto	45 m	May 3, 1949	M92	1 ♂ yg		
ESE of Isla Tac	250-300 m	Jan. 23, 1949	M41	1 ♂		
Isla Chiloe, E coast						
Between Quemchi and Isla Caucahué, W of Punta Queler	30-40 m	Jan. 24, 1949	M43	2 ♂	3 ♀	
Estrecho de Magallanes						
Near Rio de los Ciervos,						
S of Punta Arenas	shore	May 3, 1949	M115	5 ♂	6 ♀	8 yg
Punta Santa Maria, near Agua Fresca	shore	May 2, 1949	M113	1 ♂	3 ♀	1 yg with bryozoan

TABLE 3
EUCINETOPS LUCASI STIMPSON

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California	shore	Apr. 11, 1949		1 ♂	
SE end Cholla Bay, Sonora	shore	Apr. 23, 1940		2 ♂	B. W. Halstead, coll. S. A. Glassell, coll.
Cholla Point, Sonora				1 ♀	
Angel de la Guarda Island					
Puerto Refugio	shore	Mar. 4, 1936	545-36	1 ♂	
Puerto Refugio	shore	Mar. 20, 1937	707-37	1 ♂	
Puerto Refugio	shore	Mar. 21, 1937	713-37	1 ♂	
Puerto Refugio	shore	Jan. 27, 1940	1049-40	1 ♀	photo, pleopod
Puerto Refugio	shore	Jan. 28, 1940	1053-40	1 ♂	
Pond Island	shore	Feb. 4, 1940	1079-40	1 ♀	
Agua Dulce Bay, Tiburon Island	shore	June 15-20, 1951		14 ♂ 16 ♀ (15 ov)	W. N. Smith II, coll.
Puerto San Carlos	shore	Mar. 24, 1949	1766-49	1 ♀	
Vicinity of Puerto San Carlos	shore	Mar. 24, 1949	1767-49	1 ♂	
Bahía de Bocoibampo, Sonora	shore	Nov. 22, 1946	D58	1 ♀	E. Y. Dawson, coll.
Bahía Catalina, Sonora	shore	Feb. 9, 1940	1092-40	1 ♂	
Concepción Bay					
Aguja Point	shore	Mar. 26, 1949	1769-49	3 ♂	
Agua Verde Bay	shore	Mar. 10, 1937	659-37	1 ♂	
Agua Verde Bay	shore	Mar. 11, 1937	664-37	1 ♂	
Agua Verde Bay	shore	Feb. 12, 1940	1104-40	1 ♂	
Agua Verde Bay	shore	Mar. 16, 1949	1740-49	1 ♂	
Espiritu Santo Island	shore	Feb. 17, 1932	20-32	1 ♀ YG	
Ballenas Bay	shore	Mar. 21, 1936	608-36	1 ♂	
Cove S of Ballenas Bay	shore	Feb. 22, 1936	510-36	1 ♂	
San Gabriel Bay	shore	Mar. 6, 1937	634-37	2 ♂	
San Gabriel Bay				(1 ov)	
San Gabriel Bay	1	Mar. 15, 1949	1737-49	4 ♂	
Bahía de La Paz	shore	Nov. 10-11, 1946	D54	1 ♀ ov	E. Y. Dawson, coll.
1 mi NE of Cabeza Ballena	shore	Mar. 11, 1949	1727-49	1 ♀ ov	neotype, AHF 494

TABLE 4
EUCINETOPS PANAMENSIS RATHBUN

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California					
Angel de la Guarda Island	shore	Feb. 4, 1940	1079-40		2 yg
Pond Island	shore	Jan. 25, 1940	1045-40	1 ♀ yg	
S shore of Tiburon Island					
Costa Rica					
Playa Blanca	shore	Feb. 8, 1935	465-35	1 ♂	
Port Culebra	shore	Feb. 24, 1934	256-34	1 ♂	1 ♀
S of Mala Point					
Colombia					
Port Utria	shore	Jan. 23, 1935	413-35	1 ♀ ov	
Ecuador					
Manta Bay	shore	Jan. 19, 1935	400-35	1 ♂	
Off La Libertad		Jan. 21, 1933	20-33	1 ♀	photo, pleopod electric light at anchorage; det. M. J. Rathbun

TABLE 5
EUPROGNATHA BIFIDA RATHBUN

Lower California					
Between East and West San Benito Islands	35	Sept. 19, 1939	1009-39	1 ♂	1 ♀
Cedros Island		May 12, 1946	17A	2 ♂	1 ♀
Cedros Island		May 18, 1946		1 ♂	
South Bay	16	Mar. 5, 1949	1703-49	1 ♂	1 ♀ ov

Kenyon-Williams Expedition
Kenyon-Williams Expedition

Locality	Fins.	Date	Sta.	Number and Sex	Remarks
Lower California (cont.)					
4 mi N of Dewey Channel	24-25	Feb. 27, 1941	1261-41	2 ♂	3 ♀
Dewey Channel opposite San Eugenio Point	21-26	Feb. 27, 1941	1260-41	5 ♂	
3¾ mi NNW of San Eugenio Point	20	Mar. 5, 1949	1702-49	4 ♂	6 ♀ (4 ov) 1 ♀
Off Thurloe Head	30	Mar. 9, 1934	285-34	1 ♂	2 ♀
San Cristobal Bay	39-41	Apr. 27, 1950	1949-50	1 ♂	1 ♀
7 mi WSW of Abreojos Point	20-24	Apr. 29, 1950	1953-50	1 ♂	1 ♀
Off Santa Maria Bay	18-25	Jan. 19, 1940	1031-40	1 ♂	1 ♀
Hughes Point	30-40	Mar. 7, 1934	281-34	8 ♂	8 ♀ (3 ov)
½ mi SE of Hughes Point	5-18	Apr. 4, 1949	1787-49	2 ♂	6 ♀ (2 ov)
Magdalena Bay	17-18	Mar. 8, 1949	1715-49	4 ♂	3 ♀ (1 ov)
5 mi NE of Entrada Point	13-15	May 3, 1950	1971-50		1 ♀ ov
3.3 mi from Belcher Point	10	Mar. 11, 1949	1724-49	3 ♂	br. 058° T., <i>nicholsi</i> type
1¾ mi NE of Cape San Lucas					
Gulf of California					
Tepoca Bay, Sonora	11-13	Feb. 4, 1940	1078-40	3 ♂	
N of Lobos Point, Sonora	25	Mar. 26, 1937	726-37	3 ♂	3 ♀ (2 ov)
Between Mejia and Angel de la Guarda Islands	6-11	Jan. 28, 1940	1056-40	3 ♂	
Angel de la Guarda Island	40-70	Mar. 5, 1936	546-36	25 ♂	7 ♀ (5 ov)
N of Angel de la Guarda Island	80	Mar. 5, 1936	548-36	11 ♂	6 ♀ (1 ov)
N of Angel de la Guarda Island	8-10	Mar. 20, 1937	706-37	2 ♂	1 ♀ ov
Puerto Refugio					some ♀♀ <i>nicholsi</i> type
					<i>nicholsi</i> type
					<i>nicholsi</i> type

Puerto Refugio	60	Mar. 21, 1937	708-37	4 ♂			
Puerto Refugio	90	Mar. 21, 1937	709-37	1 ♂	4 ♀		
Puerto Refugio	40	Mar. 21, 1937	711-37	5 ♂	(3 ov)		
Puerto Refugio	50-75	Mar. 21, 1937	712-37	8 ♂	3 ♀		
Puerto Refugio	11-22	Jan. 26, 1940	1048-40	6 ♂	(1 ov)		
Puerto Refugio	21	Jan. 27, 1940	1051-40		5 ♀		
Puerto Refugio	51-56	Jan. 29, 1940	1057-40	17 ♂	(4 ov)		2 yg
Puerto Refugio	15-30	Mar. 4, 1936	542-36	7 ♂	5 ♀		♀♀ <i>nicholsi</i> type
Puerto Refugio	65	Mar. 4, 1936	544-36	35 ♂	(2 ov)		<i>nicholsi</i> type
E of Angel de la Guarda Island	10	Mar. 8, 1936	554-36	2 ♂	(8 ov)		♀♀ <i>nicholsi</i> type
N of Granite Island	57	Jan. 28, 1940	1055-40	2 ♂	(1 ov)		
S of Pond Island	62-85	Feb. 5, 1940	1080-40	2 ♂	19 ♀		
Between Angel de la Guarda Island and Isla Partida	20	Mar. 8, 1936	555-36	10 ♂	(10 ov)		♀♀ <i>nicholsi</i> type
N of Isla Partida	30	Mar. 8, 1936	556-36	2 ♂			
N of Isla Partida	46-76	Feb. 5, 1940	1081-40		8 ♀		♀♀ near <i>nicholsi</i> type
S of Isla Partida	20	Mar. 9, 1936	558-36	22 ♂	(5 ov)		♀♀ <i>nicholsi</i> type
S of Isla Partida	45	Mar. 9, 1936	559-36	1 ♂	6 ♀		some ♀♀ <i>nicholsi</i> type
S of Isla Partida	40	Mar. 9, 1936	561-36	3 ♂	(2 ov)		♀♀ <i>nicholsi</i> type
Angeles Bay	25	Mar. 3, 1936	538-36	1 ♂	2 ♀ ov		pre-zoeae, <i>nicholsi</i> type
Angeles Bay	32	Mar. 20, 1937	701-37	5 ♂	7 ♀		near <i>nicholsi</i> type
Angeles Bay	1	Mar. 3, 1936	539-36	1 ♂	(2 ov)		
Angeles Bay	18	Mar. 20, 1937	702-37	4 ♂			<i>nicholsi</i> type
Angeles Channel	30	Mar. 19, 1937	699-37	2 ♂	7 ♀		some ♀♀ <i>nicholsi</i> type
					(4 ov)		comp. with type, ♂
					4 ♀		pleopod
					(2 ov)		

EUPROGNATHA BIFIDA (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California (cont.)					
E of Tiburon Island	12	Mar. 11, 1936	569-36	1 ♀ ov	pre-zoeae present
Off S end Tiburon Island	40-50	Mar. 10, 1936	563-36	1 ♂	
S of Tiburon Island	20	Mar. 11, 1936	566-36	8 ♂ (7 ov)	some <i>nicholsi</i> type
S of Tiburon Island	4	Mar. 11, 1936	567-36	1 ♂	
E of San Esteban Island	20-70	Mar. 10, 1936	562-36	3 ♂	
S of San Esteban Island	35	Mar. 27, 1937	729-37	1 ♂	
San Francisco Bay	40	Mar. 2, 1936	533-36	1 ♀	ornate
N of San Pedro Nolasco Island	60	Mar. 12, 1936	572-36	1 ♂	1 intermediate
Off San Pedro Nolasco Island	75	Mar. 29, 1937	734-37	1 ♀	near <i>nicholsi</i>
Ensenada de San Francisco	15-18	Feb. 7, 1940	1087-40	3 ♂	
S of Tortuga Island	21	Mar. 13, 1936	576-36	2 ♂ (2 ov)	1 intermediate
S of Tortuga Island	83	Mar. 13, 1936	578-36	1 ♀ ov	
S of Tortuga Island	18	Mar. 17, 1937	692-37	1 ♂	
S of Tortuga Island	55	Mar. 17, 1937	693-37	2 ♀	
S of Tortuga Island	45	Mar. 18, 1937	696-37	1 ♀ ov	
E of San Marcos Island	12	Mar. 14, 1936	581-36	2 ♂	
SE of San Marcos Island	20	Mar. 14, 1936	580-36	2 ♂	
SE of San Marcos Island	25	Mar. 14, 1936	583-36	1 ♂	
Off Hildeson Island	50	Mar. 15, 1937	677-37	11 ♂ 8 ♀ (3 ov)	♀♀ spiny
Off NW side Danzante Island	24-40	Mar. 18, 1949	1748-49	1 ♀	
Puerto Escondido	24	Mar. 16, 1936	592-36	1 ♂	ornate
Entrance to Agua Verde Bay	26	Mar. 16, 1936	595-36	2 ♂	
	23-26	Mar. 17, 1949	1743-49	4 ♂ (1 ov)	
E of San Francisco Island	47	Mar. 9, 1937	650-37	1 ♀	♀ <i>nicholsi</i> type
Off San Francisco Island	43-44	Feb. 13, 1940	1106-40	1 ♂	
Espiritu Santo Island					
Off Ballenas Bay	25	Mar. 8, 1937	642-37	1 ♂	near <i>nicholsi</i> type
San Gabriel Bay	35	Feb. 22, 1936	507-36	2 ♂	♀♀ <i>nicholsi</i> type
San Gabriel Bay	24	Mar. 6, 1937	632-37	2 ♂	

Boca de la Trinidad	51-54	Jan. 21, 1940	1037-40	6 ♂	7 ♀ (5 ov)	1 yg	br. 162° T. <i>nicholsi</i> type
2¼ mi SE of Cape Pulmo	18-21	Mar. 13, 1949	1733-49	4 ♂	1 ♀ ov		
Off Los Frailes	5-15	Apr. 4, 1937	751-37	2 ♂	3 ♀ (1 ov)		
Fraille Bay	4-10	Feb. 18, 1936	497-36	1 ♂			
Inner Gorda Bank	60	Jan. 6, 1938	762-38	1 ♂			<i>nicholsi</i> type
E of Cabeza Ballena	25	Mar. 3, 1937	620-37	10 ♂	9 ♀ (7 ov)		<i>nicholsi</i> type
1¼ mi SW of Cabeza Ballena	20	Mar. 11, 1949	1725-49	1 ♂			br. 218° T.
Revilla Gigedo Islands							
Socorro Island							
Cornwallis Bay	41-45	Mar. 18, 1939	926-39	1 ♂			1 <i>nicholsi</i> type
Braithwaite Bay	40	Jan. 4, 1934	132-34	2 ♂	7 ♀ (6 ov)		
Braithwaite Bay	20	Jan. 4, 1934	133-34	5 ♂	1 ♀ ov		
Braithwaite Bay		Jan. 4, 1934		1 ♂	1 ♀ ov	1 yg	
Braithwaite Bay	31-56	Mar. 18, 1939	921-39				
Braithwaite Bay	10-20	Mar. 18, 1939	922-39	1 ♂			
Braithwaite Bay	17-46	Mar. 18, 1939	924-39				
Clarion Island							
Sulphur Bay	25	Jan. 5, 1934	135-34	16 ♂	31 ♀ (24 ov)		
Sulphur Bay	32	Jan. 5, 1934	136-34	3 ♂	1 ♀		
Sulphur Bay	55	June 11, 1934	301-34	1 ♂	1 ♀ ov		
Sulphur Bay	28-43	Mar. 16, 1939	917-39	2 ♂	3 ♀ ov		
Sulphur Bay	48-60	Mar. 16, 1939	918-39	2 ♂			
Mexico							
Nayarit							
Off Isabel Island	10-25	Mar. 5, 1934	277-34	4 ♂	2 ♀ ov		
Off Isabel Island	10-18	Apr. 2, 1937	745-37	1 ♂			
Off Isabel Island	10-18	Apr. 2, 1937	747-37		241 specimens		♂ photo
Off Isabel Island	10-15	Apr. 8, 1938	870-38	6 ♂			color sketch
Off Isabel Island	15-25	May 9, 1939	974-39	2 ♂	1 ♀ ov		

det. M. J. Rathbun

EUPROGNATHA BIFIDA (cont.)

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Mexico (cont.)					
Jalisco					
Tenacatita Bay	2-8	May 8, 1939	964-39	1 ♂	<i>nicholsi</i> type
Tenacatita Bay	8-15	May 8, 1939	965-39	1 ♀ ov	<i>nicholsi</i> type
Oaxaca					
Tangola Tangola Bay	15-20	Feb. 28, 1934	259-34	1 ♀ ov	♀ <i>nicholsi</i> type
Costa Rica					
Salinas Bay	1½	Feb. 11, 1935	478-35	1 ♀ ov	<i>nicholsi</i> type
Port Parker	3-8	Mar. 24, 1939	934-39	3 ♀	<i>nicholsi</i> type
Port Parker	5-10	Mar. 26, 1939	936-39	11 ♂	206 specimens
Playa Blanca	15	Feb. 8, 1935	461-35	5 ♂	5 ♀ ov
Port Culebra	10	Feb. 24, 1934	253-34	1 ♂	<i>nicholsi</i> type
Port Culebra	3-10	Feb. 24, 1934	254-34	1 ♀ ov	<i>nicholsi</i> type, det. M. J. Rathbun
Port Culebra					
Port Culebra	10	Feb. 25, 1934	257-34	14 ♂	<i>nicholsi</i> type
Off South Viradores Islands					
Port Culebra				21 ♀	(19 ov)
Cocos Island					
Off Nuez Island	31-50	Jan. 13, 1938	772-38	1 ♀ ov	<i>nicholsi</i> type
Off Nuez Island	31-50	Jan. 13, 1938	773-38	1 ♂	<i>nicholsi</i> type
Panama					
Secas Islands	25	Feb. 22, 1934	250-34	1 ♂	det. M. J. Rathbun
Secas Islands	12	Feb. 5, 1935	451-35	5 ♂	<i>nicholsi</i> type
Secas Islands	25-26	Mar. 27, 1939	945-39	1 ♂	(1 ov)
Bahia Honda					
Off Medidor Island	30-35	Mar. 28, 1939	948-39	1 ♀ ov	
Colombia					
Off Port Utria	20	Feb. 15, 1934	238-34	1 ♂	<i>nicholsi</i> type
Off Port Utria	20	Jan. 25, 1935	423-35	1 ♀ ov	<i>nicholsi</i> type, det. M. J. Rathbun as <i>Batrachonotus nicholsi</i>
Off Cape Corrientes	10	Feb. 13, 1934	231-34	2 ♂	

Ecuador		Feb. 23, 1938	848-38	1 ♂				
Cape San Francisco	shore							
TABLE 6								
COLLODES GIBBOSUS (BELL)								
Panama		Jan. 29, 1935	439-35	1 ♂	1 ♀ ov			
Piñas Bay	20							
Colombia		Mar. 6, 1941	31	1 ♂	1 ♀			<i>Askoy</i>
Ardita Bay	17-23							
Ecuador		Feb. 23, 1938	850-38	7 ♂	6 ♀	2 yg		largest ♂, pleopod, photo
Off Cape San Francisco	15					1 yg		♂ illustrated
San Francisco Bay	20	Feb. 11, 1934	216-34	1 ♂				neotype, USNM 100921,
Salango Island	12	Jan. 18, 1935	396-35		1 ♀			det. M. J. Rathbun and W. L. Schmitt
TABLE 7								
COLLODES GRANOSUS STIMPSON								
Lower California		Mar. 11, 1949	1724-49	7 ♂	7 ♀			br. 057° T., neotype ♀, AHF 495, photo
1¼ mi NE of Cape San Lucas	10				(5 ov)			
Gulf of California		Apr. 1, 1937	744-37	1 ♂				
Near Point Piaxtla, Sinaloa	6-8	Apr. 4, 1937	751-37	4 ♂	4 ♀			
Off Los Frailes	5-15				(1 ov)			
Fraille Bay	4-10	Feb. 18, 1936	497-36	1 ♂	2 ♀			
E of Cabeza Ballena	25	Mar. 3, 1937	620-37	3 ♂	2 ♀			
1¼ mi SW of Cabeza Ballena	20	Mar. 11, 1949	1725-49	1 ♂	3 ♀ ov			
1¼ mi SW of Cabeza Ballena	30	Mar. 11, 1949	1726-49	1 ♂				

COLLODES GRANOSUS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California (cont.)					
Isabel Island	10-18	Mar. 2, 1937	745-37	5 ♂ 9 ♀ (3 ov)	
Isabel Island	10-15	Mar. 2, 1937	747-37	6 ♂ 15 ♀ (8 ov)	
Isabel Island	10-15	Apr. 8, 1938	870-38	2 ♂ 3 ♀	color sketch
Guatemala					
Off San José Light	11	Jan. 11, 1938	770-38	8 ♂ 4 ♀	6 ygs
Off San José Light	2-5	Mar. 23, 1939	929-39	2 ♂ 1 ♀ ov	
Off San José Light	12-13	Mar. 23, 1939	930-39	4 ♂ 2 ♀ ov	
Costa Rica					
Gulf of Dulce	10-22	Mar. 26, 1939	939-39	1 ♂	
Panama					
Secas Islands	14	Feb. 5, 1935	450-35	1 ♂	
Secas Islands	12	Feb. 5, 1935	451-35	1 ♂	
Secas Islands	12	Feb. 6, 1935	456-35	1 ♀ 1 specimen	soft shell
Secas Islands	5-20	Feb. 6, 1935	458-35	1 ♂ 1 ♀	♀ color note
Secas Islands	25-26	Mar. 27, 1939	945-39	1 ♂	
Piñas Bay	20	Jan. 29, 1935	439-35	2 ♂	
Colombia					
Octavia Bay	2	Jan. 28, 1935	434-35	1 ♂	pleopod, comp. with USNM no. 55766
Port Utría	20	Jan. 25, 1935	423-35	1 ♀	
Ecuador					
Off Cape San Francisco	2	Feb. 11, 1934	214-34	6 ♀ (3 ov)	
Off La Libertad	3-5	Jan. 18, 1933	9-33	1 ♂ 1 ♀ ov	
Off Santa Elena Bay	8-10	Feb. 9, 1934	209-34	2 ♂ 4 ♀ ov	
Near S shore, Santa Elena Bay	7-10	Feb. 9, 1934	210-34	1 ♂ 1 ♀ ov	

TABLE 8
COLLODES TENUIROSTRIS RATHBUN

Lower California									
Cedros Island									
3/4 mi off Cedros Village	25	May 12, 1946	M17A	1 ♂					Kenyon-Williams Expedition
Dewey Channel									
4 mi N of Dewey Channel	24-25	Feb. 27, 1941	1261-41		1 ♀				
Opposite San Eugenio Point	21-26	Feb. 27, 1941	1260-41	2 ♂					
Off Thurloe Head	30	Mar. 9, 1934	285-34		1 ♀ ov				
4 mi ESE of Abreojos Point	20-21	Apr. 29, 1950	1955-50		1 ♀ ov				br. 118° T.
4.5 mi SSE of Abreojos Point	28-32	Apr. 29, 1950	1954-50	1 ♂					br. 167° T.
Off Hughes Point	35-40	Mar. 7, 1934	281-34	1 ♂					
Magdalena Bay									
3 1/2 mi W of Entrada Point	35	Mar. 8, 1949	1712-49	1 ♂					br. 278° T.
Gulf of California									
Tepoca Bay, Sonora									
N of Lobos Point	11-13	Feb. 4, 1940	1078-40	2 ♂					
Angel de la Guarda Island	25	Mar. 26, 1937	726-37		1 ♀				
N of Angel de la Guarda Island	40-70	Mar. 5, 1936	546-36	4 ♂	6 ♀ (3 ov)				
N of Angel de la Guarda Island	80	Mar. 5, 1936	548-36	1 ♂					
Puerto Refugio	60	Mar. 4, 1936	541-36	3 ♂	2 ♀ ov				♀ measured
Puerto Refugio	15-30	Mar. 4, 1936	542-36		1 ♀				
Puerto Refugio	65	Mar. 4, 1936	544-36		4 ♀				
Puerto Refugio	40	Mar. 21, 1937	711-37	3 ♂					
Puerto Refugio	50-75	Mar. 21, 1937	712-37	4 ♂	3 ♀				
Puerto Refugio	21	Jan. 27, 1940	1051-40	2 ♂	1 ♀				
Puerto Refugio	78-90	Jan. 28, 1940	1054-40	1 ♂					pleopod, measured, photo
Puerto Refugio	51-56	Jan. 29, 1940	1057-40	14 ♂	13 ♀ (5 ov)			3 yg	
Angeles Bay	25-40	Mar. 2, 1936	535-36	1 ♂					det. M.J.R.
Angeles Bay	32	Mar. 20, 1937	701-37	1 ♂					
S of Pond Island	62-85	Feb. 5, 1940	1080-40	2 ♂					

COLLODES TENUIROSTRIS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California (cont.)					
Off S end, Tiburon Island	20	Mar. 11, 1936	566-36	1 ♀	
Entrance to Agua Verde Bay	23-26	Mar. 17, 1949	1743-49	1 ♀	
NE of Espiritu Santo Island	52-58	Feb. 15, 1940	1113-40	1 ♀ ov	
Isabel Island	10-18	Apr. 2, 1937	747-37	1 ♂	
Costa Rica					
Port Cuiebra	3-10	Feb. 24, 1934	254-34		1 yg
Panama					
Piñas Bay	20	Jan. 29, 1935	443-35	1 ♂	
Colombia					
Off Cape Corrientes	10	Feb. 13, 1934	231-34	1 ♂	
Ecuador					
Salango Island	12	Jan. 18, 1935	396-35		1 ♀
Peru					
Sechura Bay	9½	Feb. 15, 1938	845-38	1 ♂	
TABLE 9					
COLLODES TUMIDUS RATHBUN					
Lower California					
Magdalena Bay					
2 mi E of Entrada Point	17-18	Mar. 8, 1949	1714-49	5 ♂	topotypes
1 mi off Entrada Point	28-34	May 3, 1950	1965-50	1 ♂	br. 180° T.
4 ♀					
Gulf of California					
Angel de la Guarda Island					
Puerto Refugio	11-22	Jan. 26, 1940	1048-40	2 ♂	
Puerto Refugio	21	Jan. 27, 1940	1051-40	2 ♂	
Between Angel de la Guarda Island and Isla Partida	20	Mar. 8, 1936	555-36		1 ♀ ov det. M. J. Rathbun

S of Isla Partida	20	Mar. 9, 1936	558-36	2 ♂						1 ♀
E of San Esteban Island	20-70	Mar. 10, 1936	562-36	2 ♂						1 ♀
S of San Esteban Island	35	Mar. 27, 1937	729-37							1 ♀ ov
Off San Pedro Nolasco Island	45	Mar. 29, 1937	733-37							1 ♀
S of Tortuga Island	21	Mar. 13, 1936	576-36							
S of Tortuga Island	55	Mar. 17, 1937	693-37	1 ♂						
Off Ildefonso Island	50	Mar. 15, 1937	677-37	1 ♂						
Carmen Island										
San Francisco Bay	25	Mar. 20, 1949	1754-49							1 ♀
1/4 mi SW of Cabeza Ballena	20	Mar. 11, 1949	1725-49							1 ♀ ov

pleopod, ♂ measured

photo, measured

TABLE 10
PARADASYGIUS DEPRESSUS (BELL)

Gulf of California										
Ensenada de San Francisco, Sonora	15-18	Feb. 7, 1940	1087-40	1 ♂						2 ♀
Outside Concepción Bay	30	Mar. 15, 1937	679-37	1 ♂						(1 ov) 4 ♀ (1 ov)
N of Coyote Point	25-28	Mar. 20, 1949	1753-49	2 ♂						
Carmen Island										
San Francisco Bay	25	Mar. 20, 1949	1754-49	1 ♂						1 ♀
Off NW side of Danzante Island	24-40	Mar. 18, 1949	1748-49	6 ♂						1 ♀
Puerto Escondido	24	Mar. 16, 1936	592-36							2 ♀ (1 ov)
Puerto Escondido	26	Feb. 12, 1940	1102-40	1 ♂						
Puerto Escondido	80	Mar. 12, 1937	667-37	1 ♂						1 ♀
Puerto Escondido	20	Mar. 12, 1937	668-37	1 ♂						
Puerto Escondido	18-21	Feb. 11, 1940	1096-40							1 ♀
Agua Verde Bay	20	Mar. 16, 1936	595-36	4 ♂						
Agua Verde Bay	23-26	Mar. 17, 1949	1743-49	3 ♂						1 ♀ yg
E of San Francisco Island	47	Mar. 9, 1937	650-37	3 ♂						4 ♀

PARADASYGIUS DEPRESSUS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California (cont.)					
Espiritu Santo Island				1 ♂ yg	
San Gabriel Bay	35	Feb. 22, 1936	507-36	2 ♂	
San Gabriel Bay	24	Mar. 6, 1937	632-37	3 ♀	
San Gabriel Bay	29-35	Feb. 13, 1940	1107-40	1 ♀	
San Gabriel Bay	18-21	Mar. 13, 1949	1733-49	1 ♂	br. 162° T.
2¼ mi SE of Cape Pulmo	51-55	Feb. 16, 1940	1116-40	3 ♂	
Off Gorda Point	17-25	Feb. 16, 1940	1117-40	2 ♀	
Costa Rica					
Port Parker	5-10	Mar. 25, 1939	936-39	1 ♀	measured
Port Culebra	10	Feb. 24, 1934	253-34	1 ♀	comp. with USNM no. 18143, ♀
Gulf of Dulce	19-48	Mar. 26, 1939	941-39	1 ♂	2 yg ♂ measured, pleopod
Panama					
Secas Islands	12	Feb. 5, 1935	448-35	1 ♂	1 ♀
Secas Islands	12	Feb. 5, 1935	451-35	3 ♂	2 ♀
Secas Islands	30	Mar. 27, 1939	944-39	1 ♂	
Secas Islands	25-26	Mar. 27, 1939	945-39	1 ♂	2 ♀
Off Bahia Honda	30	Mar. 1, 1938	862-38	7 ♂	11 ♀
Piñas Bay	25	Jan. 29, 1935	438-35	1 ♀	1 ♀
Off Jicarita Island	24	Feb. 20, 1934	240-34	3 ♂	2 ♀
Colombia					
Octavia Bay	13-15	Mar. 6, 1941	32	2 ♂	4 ♀
Port Utria	20	Feb. 14, 1934	233-34	2 ♂	1 ♀
Port Utria	35	Jan. 25, 1935	420-35	1 ♂	3 ♀
Cabita Bay	10	Feb. 13, 1934	230-34	3 ♂	3 ♀
Off Cape Corrientes	10	Feb. 13, 1934	231-34	1 ♂	♂ fragmentary

TABLE 11
PYROMAIA TUBERCULATA (LOCKINGTON)

California									
Marin County									
Tomales Bay		Aug. 22, 1946					1 ♀		Quyle & Gale, coll., R. J. Menzies, donor
San Luis Obispo County									
Cayucos		May 23, 1940	B4053	4 ♂			1 ♀ ov		Burch, coll.
San Luis Obispo Bay	8-14	Aug. 4, 1938	885-38						
Santa Barbara County									
Off Point Arguello	15-30	Aug. 10, 1938	893-38	1 ♂			1 ♀ ov		
Off Point Santa Barbara	33	Sept. 13, 1938	897-38				1 ♀ ov	1 yg	
Northern Channel Islands									
San Miguel Island									
1 mi S of Cardwell Point	15-24	Sept. 16, 1941	1414-41	3 ♂			2 ♀ (1 ov)		
Santa Rosa Island									
1 mi NE of Skunk Point	14-15	Aug. 25, 1941	1389-41	1 ♂					
Ventura County									
1½ mi SE of Point Mugu	26	Mar. 23, 1941	1275-41	2 ♂			3 ♀ (1 ov)		
Los Angeles County									
10¾ mi W of Point Dume	47-48	Mar. 23, 1941	1276-41				1 ♀ ov		
Off El Segundo		Aug. 4, 1917	T-188	1 ♂					<i>Anton Dohrn Acc. 525</i>
Off El Segundo	28-31	May 6, 1940	1141-40	4 ♂			4 ♀ (3 ov)		
Off El Segundo		June 9, 1940	B4068 4069				1 ♀ ov		Burch, coll.
Redondo Beach		November, 1937	B3716	1 ♂					
Redondo Beach	18-45	May 5, 1940	1135-40	1 ♂					Burch, coll.
Redondo Beach	11-20	May 6, 1940	1139-40	4 ♂				13 ♀ ov	
Redondo Beach	10-20	May 6, 1940	1140-40	1 ♂ yg					

PYROMAIA TUBERCULATA (cont.)									
Locality	Fms.	Date	Sta.	Number and Sex	Remarks				
California (cont.)									
Los Angeles County (cont.)									
Redondo Beach	shore	June 8, 1940	B4063 4066 4067	1 ♂ 1 ♀ ov	Burch, coll.				
Redondo Beach	shore	June 12-16, 1940	B4073 4074 4075	1 ♂ 1 ♀	Burch, coll.				
Redondo Beach	shore	June 15-16, 1940	B4076 4080 4081	52 ♂ 58 ♀	Burch, coll.				
Redondo Beach	10-25	June 26, 1940	B4088	1 ♂	Burch, coll.				
Redondo Beach	shore	June-July, 1940		5 ♀	Burch, coll.				
Redondo Beach	10-20	July 14-21, 1940	B40114	7 ♂	Burch, coll.				
Redondo Beach	10-20	Aug. 31, 1940		16 ♂	Burch, coll.				
Off Bluff Cove	shore	June 23, 1940	B4085		Burch, coll.	2 yg			
Point San Vicente	20	July 31, 1926	D-153	6 ♂	Anton Dohrn Acc. 657				
Off Point San Vicente light	17-41	May 6, 1940	1142-40	1 ♂		1 yg			
Off Portuguese Point	16-20	May 6, 1940	1143-40	11 ♂					
Point Fermin		Feb. 16, 1924	D-81	2 ♂					
S of Point Fermin	32	Apr. 19, 1924	D-87	1 ♀	Anton Dohrn Acc. 579				
Off San Pedro breakwater	14	July 23, 1940	1165-40	1 ♂	Anton Dohrn Acc. 584				
6 mi S of San Pedro breakwater	20-21	Feb. 15, 1941	1231-40	1 ♂					
Outer Harbor, San Pedro	shore	Nov. 18, 1948	1638-48	2 ♂					
Off Wilmington and Long Beach	10	Aug. 5, 1922	T-212	2 ♂					
Off Long Beach			D-4	1 ♀	Anton Dohrn				
Off Long Beach		July 29, 1922	T-209	1 ♀	Anton Dohrn				
W 7th St. Landing		Nov. 5, 1939		1 ♂	photo, F. Zieshenne, coll.				

At City Yacht Anchorage	June 14, 1942	1452-42	4 ♂	2 ♀ (1 ov) 2 ♀ (1 ov)	
2 mi off Belmont Pier	July 23, 1940	1161-40	5 ♂	1 ♀ yg 2 ♀ ov	
10 mi SE of Long Beach	July 22, 1940	1159-40	3 ♂	1 ♀	<i>Anton Dohrn</i> Acc. 534
11.5 mi SE of Long Beach	July 22, 1940	1160-40	1 ♂	1 ♀	<i>Anton Dohrn</i> Acc. 535
Between Seal Beach and Long Beach	Nov. 4, 1922	D-44			
Between Seal Beach and Long Beach	Nov. 4, 1922				
Orange County					
3 mi off Seal Beach	July 7, 1940	1158-40	2 ♂	1 ♀	
13.5 mi S of Seal Beach	July 23, 1940	1163-40	1 ♂		
3½ mi W of Huntington Beach	Aug. 9, 1940	1169-40	2 ♂		
Off Huntington Beach	Apr. 20, 1940	1127-40	6 ♂	4 ♀	
Off Huntington Beach	Feb. 16, 1941	1233-41	3 ♂	1 ♀ ov	♂ pleopod
Off Huntington Beach	May 7, 1949	1819-49	1 ♂		
Newport Harbor	Apr. 20, 1940	1128-40	8 ♂	6 ♀	
Newport Harbor	Mar. 13, 1942	1449-42	2 ♂		
Newport Bay	Nov. 28, 1914			1 ♀	<i>Anton Dohrn</i> Acc. 320
Off Newport Inlet, ocean side	June 25, 1942	1453-42	6 ♂	4 ♀	1 yg
SW of Newport	June 16, 1915	T-111	1 ♂		<i>Anton Dohrn</i> Acc. 400
SW of Newport	June 16, 1915	T-112	1 ♂	1 ♀	<i>Anton Dohrn</i> Acc. 403
SW of Newport	June 16, 1915	T-113	1 ♂		<i>Anton Dohrn</i> Acc. 404
Balboa	Nov. 28, 1914	D-III-41		1 ♀	<i>Anton Dohrn</i> Acc. 319
Newport Channel	Jan. 25, 1941	1224-41		1 ♀ ov	
Corona del Mar	Dec. 18, 1941	1440-41		1 ♀	
Corona del Mar	June 2, 1942	1451-42	1 ♂	3 ♀ ov	
Corona del Mar	Nov. 9, 1942	1457-42	2 ♂	4 ♀ (1 ov)	
Laguna Beach					
Off Abalone Point	Apr. 21, 1940	1130-40	2 ♂	2 ♀	
Off Abalone Point	Apr. 21, 1940	1131-40	4 ♂	(1 ov) 4 ♀	
San Diego County					
Cabrillo Beach	July 17, 1949		1 ♂		
San Diego Bay	May 2, 1943	M268			
San Diego Bay	1943	M269-317			
					48 specimens
					R. J. Menzies, coll. R. J. Menzies, coll.

PYROMAIA TUBERCULATA (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
California (cont.)					
San Diego County (cont.)					
San Diego Bay Anchorage	6-7	Feb. 23, 1941	1242-41	2 ♂	
San Diego					
Foot of E Street	shore	July 3, 1947	H47-133	3 ♀ ov	C. L. Hubbs, coll.
Off Coronado	13	Nov. 8, 1945	H45-186	1 ♀	C. L. Hubbs, coll.
Off Coronado	46-55	Nov. 8, 1945	H45-189	1 ♀ ov	C. L. Hubbs, coll.
Southern California				3 ♀	
				(2 ov)	
Southern Channel Islands					
Santa Catalina Island					
3 mi WNW of Church Rock	18-23	May 18, 1941	1320-41	1 ♂	
SE end, Santa Catalina Island	117-128	July 5, 1940	1151-40	1 ♂	
5½ mi SE of Santa Catalina Island	145-150	Aug. 20, 1940	1172-40	1 ♀	
Lower California					
San Quentin Bay	25	Feb. 15, 1936	490-36	2 ♀ ov	
Rosario Bay	15	Feb. 28, 1937	610-37	1 ♀ ov	W. Williams, coll.
Scammon Lagoon					
Dewey Channel opposite San Eugenio Point	21-26	Feb. 27, 1941	1260-41	1 ♂	
6.5 mi SSE of Abreojos Point	28-32	Apr. 29, 1950	1954-50	1 ♀ ov	
San Juanico Bay	16	Mar. 2, 1937	616-37	2 ♀	
				(1 ov)	
Santa Maria Bay	10-25	Mar. 21, 1933	126-33	1 ♀	
Santa Maria Bay	35-40	Mar. 7, 1934	281-34	4 ♀	
				(3 ov)	
½ mi SE of Hughes Point	5-18	Apr. 4, 1949	1787-49	3 ♂	
Magdalena Bay					
5 mi NE of Entrada Point	13	Mar. 8, 1949	1715-49	1 ♀	
1 mi off Entrada Point	28-34	May 3, 1950	1965-50	2 ♀	
4¼ mi NE of Redondo Point Light	9	Mar. 8, 1949	1717-49	2 ♂	br. 180° T.
3.3 mi from Belcher Point	13-15	May 3, 1950	1971-50	1 ♀ ov	br. 043° T.
Marcy Channel	13	Mar. 9, 1949	1718-49	1 ♀ ov	br. 058° T.

Gulf of California										
Rocky Point, Sonora	8-12	Mar. 24, 1937	721-37	5 ♂						ssp. <i>mexicana</i>
Rocky Point, Sonora	10-11	Feb. 2, 1940	1072-40	5 ♂						ssp. <i>mexicana</i>
Rocky Point, Sonora	3-10	Feb. 3, 1940	1073-40							ssp. <i>mexicana</i>
Rocky Point, Sonora	11	Feb. 3, 1940	1074-40							ssp. <i>mexicana</i> ?
Off Consag Rock	10-25	Mar. 24, 1937	719-37	6 ♂						near ssp. <i>mexicana</i>
Off Georges Island	10	Mar. 25, 1937	722-37	4 ♂						ssp. <i>mexicana</i>
Inside Georges Island	11-33	Feb. 3, 1940	1075-40	4 ♂						ssp. <i>mexicana</i>
Between San Felipe and mouth of Colorado River	shore	Apr. 6-9, 1947	H47-53	5 ♂						C. L. Hubbs, coll., photo
San Felipe Bay	2½	Feb. 2, 1940	1071-40							♂, ssp. <i>mexicana</i>
Just S of San Felipe Point		Apr. 10, 1947	H47-58	3 ♂						ssp. <i>mexicana</i>
Tepoca Bay, Sonora	11-13	Feb. 4, 1940	1078-40	3 ♂						C. L. Hubbs, coll.,
Off San Luis Island	10	Mar. 23, 1937	717-37	1 ♂						2 yg
Off Willard Point	16-30	Mar. 23, 1937	714-37							3 yg
Off Willard Point	2-3	Mar. 23, 1937	716-37	4 ♂						ssp. <i>mexicana</i> ?
Angel de la Guardia Island										ssp. <i>mexicana</i>
Puerto Refugio	11-22	Jan. 26, 1940	1048-40	1 ♂						ssp. <i>mexicana</i>
Angeles Bay	shore	Mar. 3, 1936	538-36	1 ♂						ssp. <i>mexicana</i>
Angeles Bay	32	Mar. 20, 1937	701-37	18 ♂						ssp. <i>mexicana</i>
Angeles Bay	18	Mar. 20, 1937	702-37	4 ♂						ssp. <i>mexicana</i>
Angeles Channel	30	Mar. 19, 1937	699-37	7 ♂						ssp. <i>mexicana</i>
S of Tiburon Island	20	Mar. 11, 1936	566-36	1 ♂						1 yg
Outside Guaymas Bay, Sonora	6-10	Jan. 23, 1940	1039-40							
Concepcion Bay	10	Mar. 15, 1936	589-36	1 ♂						ssp. <i>mexicana</i>

PYROMAIA TUBERCULATA (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California (cont.)					
Concepción Bay	30	Mar. 15, 1937	679-37	1 ♂	
Concepción Bay	20	Mar. 15, 1937	680-37	4 ♂	1 ♀
Concepción Bay	12	Mar. 16, 1937	688-37	1 ♂	2 ♀ ov
Coyote Bay W of Bargo Island	3-7	Mar. 27, 1949	1771-49	3 ♂	1 ♀
Puerto Escondido	7	Mar. 18, 1949	1747-49	1 ♀ ov	1 ♀ ov
San Ignacio Bay, Sinaloa	3-5	Mar. 31, 1937	740-37	14 ♂	2 ♀
				(1 ov)	
Espiritu Santo Island					
San Gabriel Bay	24	Mar. 6, 1937	632-37		1 yg
Isabel Island	10-18	Apr. 2, 1937	749-37		1 ♀ ov
Guatemala					
Off San José Point	11	Jan. 11, 1938	770-38		1 ♀
Colombia					
Off Cape Corrientes	10	Feb. 13, 1934	231-34	4 ♂	3 ♀
					comp. with USNM no. 21880
TABLE 12					
ERILEPTUS SPINOSUS RATHBUN					
California					
Santa Barbara County					
Off Point Santa Barbara	33	Sept. 13, 1938	897-38		1 ♀
Northern Channel Islands					
San Miguel Island					
2½ mi NE of Cardwell Point	23-30	Sept. 16, 1941	1416-41	1 ♂	
2 mi SW of Cardwell Point	34-35	Sept. 16, 1941	1413-41	2 ♂	2 ♀
1 mi S of Cardwell Point	15-24	Sept. 16, 1941	1414-41	11 ♂	11 ♀
1½ mi SW of Judith Rock	44-48	Sept. 16, 1941	1411-41	14 ♂	23 ♀
					(9 ov)
1½-2 mi S of Crook Point	41-43	Sept. 16, 1941	1412-41	36 ♂	24 ♀
					(18 ov)
S of San Miguel Island	5-15	Aug. 10, 1938	894-38	2 ♂	3 ♀
					(1 ov)

ERILEPTUS SPINOSUS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
California (cont.)					
Northern Channel Islands (cont.)					
Santa Cruz Island (cont.)					
Off Bowen Point	58-90	Oct. 30, 1940	1192-40	2 ♂	1 ♀ ov
1½ mi NW of Cavern Point	54-56	Apr. 12, 1941	1300-41	1 ♂	2 ♀ (1 ov)
1 mi SE of Smugglers Cove	15-21	Apr. 12, 1941	1295-41	7 ♂	5 ♀ ov
1 mi N of San Pedro Point	45-46	Apr. 12, 1941	1298-41	3 ♂	
3½ mi NE of San Pedro Point	45-47	Sept. 17, 1941	1418-41	25 ♂	56 ♀ (37 ± ov)
S side Santa Cruz Island	37-40	Oct. 30, 1940	1191-40	6 ♂	12 ♀ (10 ov)
1¼ mi SE of Santa Cruz Island	23	Dec. 30, 1948	1662-48	1 ♀ ov	
E of Gull Island	21-28	May 28, 1939	978-39	1 ♀	
Off Gull Island	39-43	Oct. 31, 1940	1194-40	1 ♂	2 ♀ ov
½ mi S of Gull Island	34-41	Apr. 11, 1941	1294-41	12 ♂	17 ♀ (most ov)
1.5 mi SW of Gull Island	48	Nov. 8, 1941	1435-41	3 ♂	1 ♀ ov
Anacapa Island					
Anacapa Passage	15-50	Oct. 30, 1940	1190-40	7 ♂	13 ♀ (9 ov)
2½-3 mi NW of Anacapa Light	47-52	Mar. 16, 1941	1267-41		1 yg
1½ mi N of Anacapa Light	47-77	Sept. 17, 1941	1420-41	2 ♂	
1 mi N of W end	45-47	Sept. 17, 1941	1419-41	11 ♂	11 ♀ ov
1 mi NW of W end	38-43	Mar. 24, 1950	1937-50		1 ♀ ov
2 mi E of West Point	35	Mar. 24, 1941	1421-41	8 ♂	18 ♀ (many ov)
½ mi NW of Anacapa Island	37-43	Mar. 16, 1941	1269-41	2 ♂	9 ♀ (7 ov)
NE of Anacapa Island	45	Aug. 1, 1938	874-38	2 ♂	5 ♀ ov
N of Anacapa Island	15	Aug. 1, 1938	878-38	2 ♂	
¾ mi SE of Cat Roek	23-25	Mar. 16, 1941	1271-41	1 ♂	2 ♀
Ventura County					
3½ mi S of Huene me	29-30	Mar. 23, 1941	1274-41	4 ♂	2 ♀ ov
1½ mi SE of Point Mugu	26-30	Mar. 23, 1941	1275-41	1 ♂	

Los Angeles County						1 yg	Burch, coll.
El Segundo		June 9, 1940	B4068 4069 4071				
Off Redondo Beach	18-45	May 5, 1940		10 ♂	1 ♀ ov		
Off Redondo Beach		June 15-16, 1940	B4076 4080 4081	7 ♂	4 ♀ (1 ov)		Burch, coll.
Off Redondo Beach	10-20	Aug. 31, 1940		2 ♂			T. Burch and B. Burch, coll.
Rocky Point	50	Oct. 5, 1941		1 ♂			
Whites Point to Portuguese Bend	21-23	Nov. 19, 1948	1641-48		1 ♀ ov		
San Pedro Channel	67-110	Aug. 20, 1940	1174-40	2 ♂	7 ♀ (6 ov)		
3½ mi SSE of Light, San Pedro	28	Feb. 12, 1949	1678-49	1 ♂			
1½ mi SE of Long Beach	32-52	July 22, 1940	1160-40	2 ♂	3 ♀ ov		
Orange County							
3 mi off Seal Beach	11	July 7, 1940	1158-40	1 ♂			
5¾ mi off Huntington Beach	22-23	May 7, 1949	1819-49	1 ♂	2 ♀ (1 ov)		
3½ mi off Newport Beach	34-37	Aug. 9, 1940	1168-40		2 ♀ ov		
San Diego County							
7½ mi S of Point Loma	30-33	Feb. 23, 1941	1241-41		3 ♀		1 yg
9 mi off San Diego	78-81	Feb. 23, 1941	1240-41	2 ♂	3 ♀ ov		
Southern Channel Islands							
San Nicolas Island							
Dutch Harbor	15-22	Dec. 12, 1940	1219-40		1 ♀ ov		
Off San Nicolas Island	32-48	Apr. 11, 1940	1120-40	1 ♂	2 ♀		
Off San Nicolas Island	30	Apr. 11, 1940	1122-40	1 ♂	3 ♀		
Off San Nicolas Island	28-31	Apr. 12, 1940	1123-40	15 ♂	10 ♀		
Off San Nicolas Island	31-34	Apr. 12, 1940	1124-40		1 ♀ ov		
S side, San Nicolas Island	20-34	Nov. 24, 1940	1205-40		2 ♀ ov		

ERILEPTUS SPINOSUS (cont.)		Fms.	Date	Sta.	Number and Sex	Remarks
Locality						
California (cont.)						
Southern Channel Islands (cont.)						
Santa Barbara Island		20-40	Sept. 15, 1941	1409-41	1 ♂	3 ♀ ov
1 mi off E side						
Santa Catalina Island		59-69	July 1, 1940	1147-40	1 ♂	1 ♀ ov
W end, Santa Catalina Island						
Off Emerald Bay		65-90	Jan. 29, 1939	909-39	4 ♂	1 ♀
Isthmus Cove		80-100	Aug. 19, 1940	1170-40	1 ♂	
Off Bird Rock		31-40	Sept. 29, 1940	1187-40	2 ♂	
Off Goat Harbor		21	July 13, 1941	1365-41	1 ♀ yg	
Off Goat Harbor		30	July 13, 1941	1364-41	1 ♀ ov	
Long Point		40	May 3, 1941	1309-41	3 ♂	4 ♀ ov
3½ mi WNW		21-40	Sept. 29, 1941	1426-41	2 ♂	2 ♀ ov
½ mi W		35-46	July 5, 1940	1153-40	3 ♂	15 ♀ (1 ov)
E						
Off		50	July 23, 1938	872-38	1 ♂	
2 mi SE		47	Sept. 8, 1941	1399-41	1 ♂	1 ♀
Long Point to Willow Cove		30-45	Sept. 14, 1941	1407-41	4 ♂	9 ♀ ov
1 mi E of White Cove		36-38	June 13, 1941	1358-41		2 ♀ ov
½ mi off White Cove		33-37	Aug. 9, 1941	1381-41	7 ♂	8 ♀
Off White Cove		40-80	Jan. 28, 1939	908-39	5 ♂	12 ♀ (8 ov)
Off White Cove		36-41	Aug. 12, 1939	998-39		4 ♀ (1 ov)
Off White Cove		16-35	July 6, 1940	1155-40	22 ♂	16 ♀ (1 ov)
Off White Cove		25-38	Aug. 19, 1940	1171-40	3 ♂	3 ♀ ov
Off White Cove		2-3	Aug. 10, 1941	1382-41	2 ♂	1 ♀
Off White Cove			Oct. 26, 1941	1431-41	2 ♂	4 ♀ (2 ov)
Off White Cove		14	Sept. 8, 1949	1905-49	1 ♂	2 ♀ ov
Off Willow Cove		15-25	July 11, 1941	1362-41	14 ♂	35 ♀ (25 ov)

Off Howland's Landing	160	Sept. 10, 1940	1182-40	1 ♀	
Off Little Harbor	15-16	Sept. 7, 1949	1902-49	1 ♀	
½ mi off Empire Landing	27	Dec. 1, 1948	1651-48	1 ♀ ov	
1 mi E of Empire Landing	15-20	July 19, 1941	1369-41	2 ♂	
1 mi E of Empire Landing	22	Aug. 3, 1941	1374-41	1 ♀	
1 mi E of Empire Landing	18	Aug. 3, 1941	1375-41	4 ♀	
2½ mi SE of Seal Rocks	90	Oct. 25, 1941	1429-41	1 ♀	
2½ mi SE of Church Rock	59-61	May 18, 1941	1325-41	1 ♀ ov	
2½ mi SE of Church Rock	60-80	June 12, 1941	1354-41	2 ♀ ov	
San Clemente Island					exceptional depth
N of San Clemente Island	250-300	Nov. 12, 1939	1019-39	1 ♀	
1 mi NE of Castle Rock	46-50	June 8, 1941	1326-41	1 ♀ ov	
1 mi SW of Castle Rock	40-46	June 8, 1941	1328-41	21 ♀ (20 ov)	
Off Wilson Cove	60-85	Feb. 18, 1939	911-39	5 ♀ (4 ov)	
Off Wilson Cove	14-16	Feb. 22, 1941	1238-41	27 ♀ (18 ov)	3 yg
Off Pyramid Cove	35-46	Feb. 18, 1939	913-39	4 ♂	
Off Pyramid Cove	55-110	Nov. 25, 1939	1023-39	1 ♂	
Lower California					br. 324° T.
¾ mi NW of San Martin Island	37	Mar. 3, 1949	1692-49	1 ♀ ov	
Guadalupe Island					
1¾ mi 110° from South Bluff	110-123	Dec. 19, 1949	1921-49	9 ♀ ov	
1.6 mi 060° from South Bluff	40-56	Dec. 20, 1949	1927-49	76 specimens	
2¼ mi 043° from South Bluff	35-40	Dec. 20, 1949	1925-49	1 ♀ ov	
2.8 mi 35° from South Bluff	40	Dec. 19, 1949	1922-49	94 specimens	
Melpomene Cove	34-36	Dec. 19, 1949	1919-49	16 ♀ (15 ov)	
Melpomene Cove	50-51	Dec. 19, 1949	1920-49	177 specimens	
S end, Melpomene Cove	40-45	Feb. 2, 1950	H50-42	23 ♀ ov	♂, ♀ photo
Off San Benito Islands	51-52	Sept. 19, 1939	1008-39	1 ♂	C. L. Hubbs, coll.
Off San Benito Islands	71-95	Sept. 20, 1939	1010-39	3 ♂	
Between S ends of East and West San Benito Islands	35	Sept. 19, 1939	1009-39	1 ♀ ov	5 yg

ERILEPTUS SPINOSUS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Lower California (cont.)					
5½ mi S of San Benito Islands	66-81	Feb. 26, 1941	1251-41	1 ♀ ov	Kenyon-Williams Expedition
Cedros Island		May 12, 1946	M17A	1 ♂	
Cedros Island					
8 mi W of Cedros Island	64-65	May 18, 1946		1 ♀	Kenyon-Williams Expedition
Ranger Bank off Cedros Island	76-77	Feb. 26, 1941	1253-41	1 ♂	
3½ mi N of Natividad Island Light	19-20	Feb. 25, 1941	1247-41	1 ♂	br. 351° T.
7½ mi SSW of Natividad Island	63-66	Mar. 6, 1949	1706-49	2 ♂	
8½ mi S of Dewey Channel	49	Feb. 27, 1941	1258-41	1 ♀	br. 166° T.
3¼ mi NNW of San Eugenio Point	20	Feb. 27, 1941	1259-41	1 ♂	
		Mar. 5, 1949	1702-49	5 ♂	
San Cristobal Bay					
6.25 mi SSW of San Hipolito Point	39-41	Apr. 27, 1950	1949-50	10 ♂	br. 205° T.
	36-39	Apr. 29, 1950	1952-50	10 ♂	
Magdalena Bay					
1 mi off Entrada Point	28-34	May 3, 1950	1965-50	2 ♂	br. 180° T.
Gulf of California					
Off Rocky Point, Sonora	11	Feb. 2, 1940	1072-40	1 ♀ ov	det. M. J. Rathbun
Angel de la Guarda Island	3-10	Feb. 3, 1940	1073-40	1 ♂	
Puerto Refugio	40-70	Mar. 5, 1936	546-36	1 ♀	
Puerto Refugio	15-30	Mar. 4, 1936	542-36	1 ♂	
Puerto Refugio	65	Mar. 4, 1936	544-36	1 ♂	
Puerto Refugio	40	Mar. 21, 1937	711-37	3 ♂	
Puerto Refugio	51-56	Jan. 29, 1940	1057-40	1 ♂	
N of Granite Island	57	Jan. 28, 1940	1055-40	2 ♀ ov	
Between Angel de la Guarda Island and Isla Partida					
Angeles Channel	20	Mar. 8, 1936	555-36	1 ♂	1 ♀
S of Tiburón Island	10	Mar. 19, 1937	699-37	1 ♂	
S of Tiburón Island	20	Mar. 11, 1936	566-36	5 ♂	1 ♀
N of San Pedro Nolasco Island	7	Mar. 28, 1937	731-37	1 ♂	
N of San Pedro Nolasco Island	60	Mar. 12, 1936	572-36	2 ♂	1 ♀ ov
N of San Pedro Nolasco Island	80	Mar. 12, 1936	574-36	1 ♂	

N of San Pedro Nolasco Island	100	Mar. 12, 1936	575-36	1 ♂	1 ♀ ov
O of San Pedro Nolasco Island	74	Mar. 29, 1937	734-37	1 ♂	1 ♀
S of Tortuga Island	40	Mar. 13, 1936	577-36	1 ♂	
S of Tortuga Island	55	Mar. 17, 1937	693-37		1 yg
Inner Gorda Bank	60	Jan. 6, 1938	762-38	1 ♂	
Outer Gorda Bank	64-95	Jan. 20, 1940	1034-40	1 ♂	
Panama					
3 mi S of Isla Ladronez	54	Mar. 27, 1939	943-39	1 ♂	extra limital
Peru					
Sechura Bay	9½	Feb. 15, 1938	845-38		♂ pleopod, meas., photo
Sechura Bay	6	Feb. 15, 1938	846-38		
Lobos de Afuera Islands					
North Bay	12	Jan. 17, 1935	393-35	1 ♂	
South Bay	14-16	Jan. 17, 1935	395-35	8 ♂	429 specimens 2 ♀ ov
North Chincha Island	10	Feb. 11, 1938	838-38	1 ♂	9 ♀ (4 ov)
Independencia Bay	5	Jan. 14, 1935	384-35	29 ♂	1 ♀ 28 ♀ (14 ov)
Independencia Bay	9-10	Jan. 14, 1935	385-35	16 ♂	14 ♀ (8 ov)
Independencia Bay	10	Feb. 9, 1938	829-38		135 specimens
Independencia Bay	10	Feb. 10, 1938	832-38	16 ♂	12 ♀ (8 ov)
Independencia Bay	8	Feb. 10, 1938	833-38	1 ♂ yg	
Independencia Bay	18	Feb. 10, 1938	835-38	2 ♂	2 ♀
E of Vieja Island	5	Jan. 12, 1935	372-35		2 yg
Off Vieja Island	12	Jan. 12, 1935	373-35	1 ♂	2 ♀ ov

TABLE 13

INACHOIDES MICROHYNCHUS MILNE EDWARDS AND LUCAS

det. M. J. Rathbun

TABLE 14
INACHOIDES LAEVIS STIMPSON

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Lower California					
Cedros Island		May 14, 1946	M17B	1 ♂	Kenyon-Williams Expedition
Seammon Lagoon		Apr. 27, 1946	M9A	1 ♂ 1 ♀	Kenyon-Williams Expedition
San Ignacio Lagoon					
Off South Whale Island	3.5 m	Feb. 11, 1950		2 ♂	Martin Johnson, coll.
San Juanico Bay	16	Mar. 2, 1937	616-37	1 ♀ ov	
Santa Maria Bay	18-25	Jan. 19, 1940	1031-40	5 ♂ (3 ov)	
1/2 mi SE of Hughes Point	5-18	Apr. 4, 1949	1787-49	1 ♂	
Magdalena Bay					
2 mi E of Entrada Point	17-18	Mar. 8, 1949	1714-49	2 ♂	
1 mi off Entrada Point	28-34	May 3, 1950	1965-50	1 ♂	br. 180° T.
Gulf of California					
Rocky Point, Sonora	6	May 24, 1937	720-37	1 ♂	
Rocky Point, Sonora	10	Feb. 2, 1940	1072-40	3 ♀	♂ photo
Rocky Point, Sonora	3-10	Feb. 3, 1940	1073-40	1 ♀	
Off Georges Island	10	Mar. 25, 1937	722-37	2 ♂	
Tepeca Bay, Sonora	11-13	Feb. 4, 1940	1078-40	1 ♂	
Angel de la Guarda Island					
Off Puerto Refugio	51-56	Jan. 29, 1940	1057-40	1 ♀	
S of Tiburon Island	12	Mar. 28, 1937	732-37	1 ♂	
Ensenada de San Francisco	2-6	Feb. 7, 1940	1088-40	1 ♀	
Guaymas Bay, Sonora	shore	Jan. 23, 1940	1041-40	1 ♂	
Concepción Bay	12	Mar. 15, 1937	683-37	1 ♀	
Concepción Bay	12	Mar. 16, 1937	688-37	1 ♀	
Near Point Piaxtla, Sinaloa	6-8	Apr. 1, 1937	744-37	1 ♂	

INACHOIDES LAEVIS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Ecuador					
Off Cape San Francisco	2	Feb. 11, 1934	214-34	5 ♂	1 ♀
Off Cape San Francisco	15	Feb. 23, 1938	850-38	1 ♂	
Off La Libertad	4	Jan. 19, 1933	12-33		1 ♀
Off La Libertad	2	Jan. 20, 1933	15-33		1 ♀ ov
Off Santa Elena Bay	8-10	Feb. 9, 1934	209-34	6 ♂	5 ♀ ov
California					
Northern Channel Islands					
San Miguel Island					
1 mi S of Cardwell Point	15-24	Sept. 16, 1941	1414-41	2 ♂	1 ♀ ov
1½ mi E of Cardwell Point	20-21	Sept. 16, 1941	1415-41	1 ♂	
Off Point Bennett	34	Sept. 12, 1938	896-38		2 ♀ (1 ov)
S of San Miguel Island	5-15	Aug. 10, 1938	894-38	1 ♂	2 ♀
Santa Rosa Island					
1 mi NE of Skunk Point	14-15	Aug. 25, 1941	1389-41	1 ♂	
1 mi S of East Point	15-16	Apr. 10, 1941	1284-41		1 ♀ ov
2½ mi E of South Point	15	Apr. 10, 1941	1280-41		2 ♀
3 mi E of South Point	23-26	Apr. 10, 1941	1281-41	1 ♂	
2¼ mi E of South Point	23-28	Apr. 10, 1941	1283-41	1 ♂	
3 mi E of South Point	17-20	Sept. 15, 1941	1410-41	1 ♂	
Santa Cruz Island					
N of Santa Cruz Island	53	Sept. 14, 1938	898-38	1 ♂	2 ♀ (1 ov)
1 mi SE of Smugglers Cove	15-17	Apr. 12, 1941	1295-41	1 ♂	1 ♀ ov
E of Gull Island	6-10	Oct. 31, 1940	1197-40		1 ♀
N of Anacapa Island	15	Aug. 1, 1938	878-38		2 ♀

TABLE 15

PODOCHELA HEMPHILLI (LOCKINGTON)

det. M. J. Rathbun as
I. microrhynchus

PODOCHELA HEMPHILLI (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
California (cont.)					
Southern Channel Islands (cont.)					
Santa Catalina Island (cont.)					
White Cove	25-38	Aug. 19, 1940	1171-40	11 ♂	4 ♀ (2 ov)
White Cove	2-3	Aug. 10, 1941	1382-41	2 ♂	9 ♀
White Cove		Oct. 26, 1941	1431-41	7 ♂	(4 ov) 1 ♂ ov 1 ♀ ov
White Cove	8-10	Dec. 1, 1948	1649-48		2 yg
White Cove	15	Dec. 1, 1948	1650-48		
0.2 mi NE of Willow Cove	21	Aug. 25, 1949	1870-49		
Off Willow Cove	15-25	June 11, 1941	1362-41	2 ♂	
Off Little Harbor	15-16	Sept. 7, 1949	1902-49	1 ♂	
SE of Avalon	22	June 15, 1916	T-136	3 ♂	
Fisherman's Cove		Sept. 29, 1940			1 ♀
Seal Rocks	30	June 15, 1916	T-135	7 ♂	1 ♀
San Clemente Island					<i>Anton Dohrn</i> Acc. 499
Off Wilson Cove	14-16	Feb. 22, 1941	1238-41	3 ♂	6 ♀ (1 ov)
Pyramid Cove	10	Nov. 25, 1939	1024-39		1 ♀ ov
Lower California					
4¾ mi E of Los Coronados Islands	14	Mar. 11, 1938	871-38	3 ♂	
Off Rosario Bay	15	Feb. 28, 1937	611-37	1 ♂	
Guadalupe Island					
1.6 mi 60° from South Bluff	40-56	Dec. 20, 1949	1927-49	1 ♂	1 ♀ ov
2.8 mi 35° from South Bluff	40	Dec. 19, 1949	1922-49	1 ♂	2 ♀ ov
Melpomene Cove	18	Dec. 7, 1946	H46-145	1 ♂	
Guadalupe Island					
Melpomene Cove		Dec. 7, 1946	H46-144	2 ♂	2 ♀ (1 ov)
Melpomene Cove		Dec. 9, 1946	H46-158	2 ♂	2 ♀
Melpomene Cove	34-36	Dec. 19, 1949	1919-49	6 ♂	9 ♀ (8 ov)
					plus fragments, C. L. Hubbs, coll. C. L. Hubbs, coll.
					1 yg
					2 yg
					C. L. Hubbs, coll.

PODACHELA HEMPHILLI (cont.)					Number and Sex	Remarks
Locality	Fms.	Date	Sta.			
Gulf of California Between Mejia and Angel de la Guarda Islands	6-11	Jan. 28, 1940	1056-40	1 ♂	2 ♀ (1 ov) 2 ♀	
N of Angel de la Guarda Island	40-70	Mar. 5, 1936	546-36	4 ♂	1 ♀	
E of Angel de la Guarda Island	40	Mar. 6, 1936	549-36	1 ♂		
E of Angel de la Guarda Island	90	Mar. 6, 1936	550-36	1 ♂		
E of Angel de la Guarda Island	8-10	Mar. 6, 1936	551-36	1 ♀		
E of Angel de la Guarda Island	10	Mar. 8, 1936	554-36	6 ♂	7 ♀	
Puerto Refugio	15-30	Mar. 4, 1936	542-36	1 ♀		1 yg
Puerto Refugio	15	Mar. 20, 1937	705-37			1 yg
Puerto Refugio	40	Mar. 21, 1937	711-37	6 ♂	3 ♀	2 yg
Puerto Refugio	11-22	Jan. 26, 1940	1048-40	4 ♂		
Puerto Refugio	21	Jan. 27, 1940	1051-40	3 ♂	1 ♀	
Puerto Refugio	51-56	Jan. 29, 1940	1057-40	1 ♀		
Granite Island	57	Jan. 28, 1940	1055-40	1 ♂ yg		
Between Angel de la Guarda Island and Isla Partida	20	Mar. 8, 1936	555-36	5 ♂	1 ♀	
Off White Rock	95	Mar. 8, 1936	557-36	1 ♂		
N of Isla Partida	30	Mar. 8, 1936	556-36	1 ♂		
N of Isla Partida	46-76	Feb. 5, 1940	1081-40	1 ♂		
S of Isla Partida	20	Mar. 9, 1936	558-36	13 ♂	8 ♀	
S of Isla Partida	45	Mar. 9, 1936	559-36	4 ♂	3 ♀	
S of Isla Partida	40	Mar. 9, 1936	561-36	5 ♂	4 ♀	
S of Tiburon Island	20	Mar. 11, 1936	566-36	1 ♂ yg		
S of Tiburon Island	20	Mar. 28, 1937	731-37	1 ♂		
E of San Esteban Island	20-70	Mar. 10, 1936	562-36	3 ♂	4 ♀	
S of San Esteban Island	35	Mar. 27, 1937	729-37	2 ♂	2 ♀	
Off San Francisco Bay	10-20	Mar. 1, 1936	530-36	1 ♂	1 yg	
Off San Francisco Bay	20	Mar. 2, 1936	532-36	2 ♂		
Off San Pedro Nolasco Island	45	Mar. 29, 1937	733-37	9 ♂	6 ♀ (2 ov)	
Off San Pedro Nolasco Island	110	Mar. 29, 1937	735-37		1 specimen	1st ambulatory leg only
Ensenada de San Francisco, Sonora	15-18	Feb. 7, 1940	1087-40	1 ♂		

S of Tortuga Island	21	Mar. 13, 1936	576-36	7 ♂	6 ♀	
S of Tortuga Island	83	Mar. 13, 1936	578-36	1 ♂	2 ♀	
S of Tortuga Island	55	Mar. 17, 1937	693-37		(1 ov)	
SE of San Marcos Island	20	Mar. 14, 1936	580-36	1 ♂	2 ♀	1 yg
Off Hdefonso Island	50	Mar. 15, 1937	677-37	6 ♂		
Off Pulpito Point	55	Mar. 15, 1937	675-37			
Carmen Island						
Salinas Bay	7	Mar. 20, 1949	1755-49	1 ♂		
Entrance to Agua Verde Bay	23-26	Mar. 17, 1949	1743-49	1 ♂	1 ♀	
San Ignacio Bay, Sinaloa	30-50	Mar. 31, 1937	742-37	1 ♂	2 ♀	
N of San Francisco Island	22	Mar. 8, 1937	647-37	1 ♂		
E of San Francisco Island	47	Mar. 9, 1937	650-37	1 ♂	1 ♀ yg	
Off San Francisco Island	30	Feb. 24, 1936	513-36			
Off San Francisco Island	43-44	Feb. 13, 1940	1106-40	1 ♂	1 ♀ ov	
2¼ mi SE of Cape Pulmo	18-21	Mar. 13, 1949	1733-49		4 ♀	br. 162° T. br. 218° T.
1¼ mi SW of Cabeza Ballena	20	Mar. 11, 1949	1725-49	6 ♂		
Revilla Gigedo Islands						
N of Clarion Island	30-56	Mar. 17, 1939	921-39		1 ♀ ov	
Mexico, S of Cape Corrientes						
Tenacatita Bay	25-35	Mar. 4, 1934	275-34	2 ♂	2 ♀	det. M. J. Rathbun (1 ♀ as <i>P. vestita</i>), pre-zoeae
Costa Rica						pre-zoeae
Cocos Island						
Off Nuez Island	31-50	Jan. 13, 1938	773-38	1 ♂	1 ♀ ov	
Panama						
Bahia Honda						
N of Medidor Island	30-50	Mar. 1, 1938	863-38	6 ♂	2 ♀ ov	
Outside Medidor Island	30-35	Mar. 29, 1939	948-39	15 ♂	7 ♀ (3 ov)	1 yg
Colombia						
Off Cape Corrientes	10	Feb. 13, 1934	231-34	2 ♂	2 ♀	det. M. J. Rathbun as <i>P. vestita</i>

TABLE 16
 PODOCHELA ANGULATA FINNEGAN

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Costa Rica					
Port Parker	30	Feb. 9, 1935	472-35	2 ♂	
Puerto Culebra	3-10	Feb. 24, 1934	254-34	1 ♂	det. M. J. Rathbun
Gulf of Dulce	19-48	Mar. 26, 1939	941-39	1 ♂	
Panama					
Secas Islands	12	Feb. 5, 1935	448-35	1 ♀	
Secas Islands	12	Feb. 5, 1935	451-35	1 ♀	
Secas Islands	5-20	Feb. 6, 1935	458-35	1 ♂	
Secas Islands	25-26	Mar. 27, 1939	945-39	2 ♂	♂ meas., pleopod, photo
Bahia Honda	5-8	Mar. 9, 1933	113-33	1 ♂	
Colombia					
Utria Bay	7-12	May 14, 1941	100	1 ♂	Askoy, A.M.N.H.
N of Gorgona Island	10-20	Feb. 24, 1938	851-38	1 ♂	topotype
Off Gorgona Island	35	Feb. 12, 1934	223-34	1 ♀	topotype
Ecuador					
Off La Plata Island	7-10	Feb. 10, 1934	213-34	1 ♀	det. M. J. Rathbun
Off Santa Elena Bay	8-10	Feb. 9, 1934	209-34	1 ♂	det. M. J. Rathbun as <i>P. hemphilli</i>

TABLE 17

PODOCHELA VELERONIS, NEW SPECIES

Gulf of California					
Los Frailes	5-15	Apr. 4, 1937	751-37	1 ♂	1 ♀ ov
Mexico					
Nayarit					
Isabel Island	10-15	Mar. 8, 1938	870-38		1 ♀ ov
Tres Marias Islands					
María Magdalena Island	3-5	May 9, 1939	971-39	1 ♂	♂ holotype, photo, illlus., ♀ allotype, AHF 393

Jalisco													
Barra Navidad	lagoon		Dec. 25, 1946	D84	1 ♂								E. Y. Dawson, coll.
Guerrero													
Acapulco Harbor													
Santa Lucia Bay			Sept. 13, 1946	1561-46									
N shore, Roqueta or Grifo Island	0-1		Jan. 30, 1954	2592-54									C. L. Hubbs, coll.
Costa Rica													
Salinas Bay	1.5		Feb. 11, 1935	478-35	1 ♂								
Playa Blanca	shore		Feb. 8, 1935	465-35									
Panama													
Secas Islands	15		Feb. 22, 1934	251-34									
Secas Islands	14		Feb. 5, 1935	450-35	1 ♂								det. M. J. Rathbun as <i>P. vestita</i> pleopod
Ecuador													
Off Cape San Francisco	2		Feb. 11, 1934	214-34									
Off Cape San Francisco	2		Feb. 11, 1934	217-34									
Off La Plata Island	10		Jan. 22, 1933	23-33									
Off La Plata Island	7-10		Feb. 10, 1934	213-34	1 ♂								
Salango Island	8		Jan. 18, 1935	399-35	1 ♂								det. M. J. Rathbun as <i>P. hemphilli</i>
Gulf of California													
Off Rocky Point, Sonora	3-10		Feb. 3, 1940	1073-40	1 ♂								measured
E of Angel de la Guarda Island	10		Mar. 8, 1936	554-36	1 ♂ yg								
Tiburón Island													
E of Tiburón Island	10		Mar. 11, 1936	568-36	1 ♂								
E of Tiburón Island	5		Mar. 11, 1936	571-36									

TABLE 18

PODOCHELA LATIMANUS (RATHBUN)

PODOCHELA LATIMANUS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California (cont.)					
S of Tiburon Island	7	Mar. 28, 1937	731-37	1 ♀ ov	
S of Tiburon Island	shore	Jan. 25, 1940	1045-40	1 ♀	
Off S end, Tiburon Island	8-10	Mar. 10, 1936	564-36	1 ♂	det. M. J. Rathbun
S of Tiburon Island	12	Mar. 28, 1937	732-37	1 ♂	
Turner's Island	shore	Jan. 24, 1940	1042-40	1 ♂ yg	
Puerto San Carlos	shore	Mar. 24, 1949	1766-49	3 ♂	
				4 ♀	
				(1 ov)	
				3 ♀	
				(1 ov)	
				1 ♀	
Puerto San Carlos and vicinity	1-10	Mar. 24, 1949	1765-49	4 ♂	
Ensenada de San Francisco	2-6	Feb. 7, 1940	1088-40		
Guaymas Bay, Sonora	shore	Jan. 23, 1940	1041-40	1 ♂	
Concepción Bay	2-3	Mar. 14, 1936	584-36	1 ♂	
Coyote Bay	2-3	Mar. 14, 1936	585-36	1 ♂	
Outside Concepción Bay	12	Mar. 15, 1937	683-37	1 ♂	♂ pleopod, ♀ photo
Agua Verde Bay	8	Mar. 11, 1937	662-37	1 ♀	
San Francisco Island	shore	Mar. 8, 1937	646-37	1 ♀	
Espiritu Santo Island				1 ♀ ov	
San Gabriel Bay	shore	Mar. 7, 1937	638-37	1 ♀	
San Lorenzo Channel	24	Mar. 21, 1936	607-36	2 ♂	
San Lorenzo Channel	3-5	Mar. 7, 1937	639-37	2 ♂	
				4 ♀	
				(1 ov)	
San Lorenzo Channel	30	Mar. 7, 1937	640-37	1 ♀	
Bahía de La Paz	shore	Nov. 11-12, 1946	D54	3 ♀	E. Y. Dawson, coll.
				(2 ov)	

TABLE 19

PODOCHELA LOBIFRONS RATHBUN

California					
1½ mi SE of Point Mugu	26	Mar. 23, 1941	1275-41	1 ♂	pleopod, photo
El Segundo		June 9, 1940	B4068		Burch, coll.
			4069	1 ♀ ov	
			4071		

Location	Distance	Date	Number	Sex	Age	Collector
Off Redondo Beach		June 8, 1940	B4063 4066 4067	1 ♂		Burch, coll.
11½ mi SE of Long Beach	32-52	July 22, 1940	1160-40		1 ♀ ov	
San Pedro Channel	69-110	Aug. 20, 1940	1174-40	4 ♂		
Off Coronado	46-55	Nov. 8, 1945	H45-189	1 ♂		C. L. Hubbs, coll.
Channel Islands						
Anacapa Island						
2.5-5 mi NW of Light	47-52	Mar. 16, 1941	1267-41	1 ♂		
Santa Catalina Island						
Off Emerald Bay	65-90	Jan. 29, 1939	909-39	1 ♂		
Isthmus Cove	80-100	Aug. 19, 1940	1170-40	1 ♂	1 ♀	
Off Goat Harbor	21	July 13, 1941	1365-41		1 ♀ ov	
Off Long Point	50	July 23, 1938	872-38		1 ♀ ov	
2 mi SE of Long Point	47	Sept. 8, 1941	1399-41	2 ♂		1 yg
1 mi E of Long Point	77-87	Sept. 13, 1941	1404-41	1 ♂		
½ mi W of Long Point	21-40	Sept. 29, 1941	1426-41	1 ♂		
Off White Cove	40-80	Jan. 28, 1939	908-39		2 ♀	
					(1 ov)	
½ mi off White Cove	33-37	Aug. 9, 1941	1381-41		2 ♀	1 yg
					(1 ov)	
Off Willow Cove						
1 mi E of Empire Landing	15-25	June 11, 1941	1362-41	2 ♂	1 ♀ ov	
San Clemente Island	18	Aug. 3, 1941	1375-41	2 ♂	1 ♀ ov	
Off Wilson Cove						
	60-85	Feb. 18, 1939	911-39		1 ♀ ov	
Lower California						
4 mi N of Todos Santos Island	41	Feb. 24, 1941	1245-41		1 ♀ ov	
Guadalupe Island						
1.6 mi 60° from South Bluff	40-56	Dec. 20, 1949	1927-49	2 ♂	2 ♀	
					(1 ov)	
2.8 mi 35° from South Bluff	40	Dec. 19, 1949	1922-49	1 ♂	1 ♀ ov	
Melpomene Cove	34-36	Dec. 19, 1949	1919-49		1 ♀ ov	
Melpomene Cove	50-51	Dec. 19, 1949	1920-49	3 ♂	2 ♀ ov	
S end Melpomene Cove	40-45	Feb. 2, 1950	H50-42	3 ♂		C. L. Hubbs, coll.

PODOCHELA LOBIFRONS (cont.)		Date	Sta.	Number and Sex	Remarks
Locality	Fms.				
Lower California (cont.)					
Ranger Bank	78-83	Feb. 21, 1941	1246-41	1 ♂	
5 mi S of San Benito Islands	87-97	Feb. 19, 1940	1119-40	5 ♂	
5½ mi S of San Benito Islands	66-81	Feb. 26, 1941	1251-41	1 ♂	
				2 ♀	
				(1 ov)	
8 mi W of Cedros Island	64-65	Feb. 26, 1941	1253-41	7 ♂	♂ measured
8 mi SW of Cedros Island	63-65	Feb. 26, 1941	1254-41	1 ♂	
8½ mi S of Dewey Channel	49	Feb. 27, 1941	1259-41	1 ♂ ov	
San Cristobal Bay	39-41	Apr. 27, 1950	1949-50	1 ♀	
Gulf of California					
Angel de la Guarda Island					
Puerto Refugio	65	Mar. 4, 1936	544-36	5 ♂	
				4 ♀	
				(1 ov)	
Puerto Refugio	80	Mar. 5, 1936	548-36	2 ♂	
Puerto Refugio	50-75	Mar. 21, 1937	712-37	1 ♂	
Puerto Refugio	51-56	Jan. 29, 1940	1057-40	4 ♂	
Off San Francisco Bay	125	Mar. 2, 1936	534-36	1 ♀	
N of San Pedro Nolasco Island	80	Mar. 12, 1936	574-36	1 ♂	ov ♀ measured
				3 ♀	
				(1 ov)	
Off San Pedro Nolasco Island	75	Mar. 29, 1937	734-37	6 ♂	
6½ mi from Gorda Point,					
Outer Gorda Bank	70	Mar. 12, 1949	1729-49	4 ♂	br. 123° T.
				1 ♀ ov	
TABLE 20					
PODOCHELA VESTITA (STIMPSON)					
Lower California					
Santa Maria Bay					
½ mi SE of Hughes Point	5-18	Apr. 4, 1949	1787-49	1 ♂	
Magdalena Bay					
2 mi E of Entrada Point	17-18	Mar. 8, 1949	1714-49	1 ♂	
1¾ mi NE of Cape San Lucas	10	Mar. 11, 1949	1724-49	1 ♀ ov	

Gulf of California													
Off Rocky Point, Sonora	10-11	Feb. 2, 1940	1072-40	1 ♀									
E of Angel de la Guarda Island	10	Mar. 8, 1936	554-36	1 ♀									
Off Ildefonso Island	50	Mar. 15, 1937	677-37										
Puerto Escondido	20	Mar. 16, 1936	596-36	1 ♀									
Agua Verde Bay	5-10	Feb. 27, 1936	520-36	1 ♀									
E of San Francisco Island	15	Feb. 25, 1936	517-36	2 ♂									
				(1 yg)									
San Lorenzo Channel	3-5	Mar. 7, 1936	639-36	1 ♀									
San Lorenzo Channel	6-13	Feb. 14, 1940	1111-40	1 ♂									
Arena Bank	35	May 1, 1936	Zaca 136	1 ♂									
Off Los Frailes	5-15	Apr. 4, 1937	751-37										
Revilla Gigedo Islands													
Socorro Island	4-10	June 8, 1934	290-34	1 ♂									
SE of Cape Rule													
Mexico													
Nayarit													
Isabel Island	10-25	Mar. 5, 1934	277-34	1 ♂									
Isabel Island	10-18	Apr. 2, 1937	745-37	1 ♀									
Isabel Island	10-18	Apr. 2, 1937	747-37	2 ♀ ov									
Isabel Island	10-15	Mar. 8, 1938	870-38	4 ♀									
				(2 ov)									
Tres Marias Islands													
Magdalena Island	13	May 9, 1939	970-39	3 ♀									
				(2 ov)									
Panama													
Secas Islands	14	Feb. 5, 1935	450-35	1 ♀									
Secas Islands	12	Feb. 6, 1935	456-35	1 ♀									
Bahia Honda	15-20	Feb. 22, 1934	249-34	1 ♀									
				1 ♂									
Colombia													
Octavia Bay	2	Jan. 28, 1935	434-35	1 ♀ ov									
Port Utria	15-30	Feb. 25, 1938	856-38	1 ♂									
Off Gorgona Island	8-10	Feb. 12, 1934	225-34	1 ♀ ov									
Off Gorgona Island	5-6	Feb. 12, 1934	227-34	1 ♂									

NYZS, pleopod, photo

color sketch

fragmentary

TABLE 21
PODOCHELA ZIESENHENNEI GARTH

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Mexico					
Jalisco					
Tenacatita Bay	shore	Mar. 17, 1933	121-33	1 ♀	allotype
Tenacatita Bay	4-10	Mar. 18, 1933	122-33	1 ♂	holotype USNM 78780
Guerrero					
Santa Lucia Bay, Acapulco	1-4	Feb. 1-2, 1954	2596-54	1 ♀ ov	
Costa Rica					
Playa Blanca	shore	Feb. 8, 1935	465-35	2 ♀ (1 ov)	paratypes
Panama					
Bahia Honda	shore	Mar. 11, 1938	861-38	1 specimen	dry
Colombia					
Port Utria	shore	Feb. 15, 1934	239-34	1 ♂	paratypes, ♂ pleopod, ♀ photo
Ecuador					
Salango Island	8	Jan. 18, 1935	399-35	1 ♀	paratype

TABLE 22
STENORYNCHUS DEBILIS (SMITH)

Gulf of California					
Off Consag Rock	10-25	Mar. 24, 1937	719-37	1 ♀ ov	
Tepoca Bay, Sonora	11-13	Feb. 4, 1940	1078-40	2 ♀ (1 ov, 1 yg)	
Gonzaga Bay					
Off Willard Island	10-20	Jan. 30, 1940	1064-40	1 ♀	

Location	Date	Sex	Measurements	Notes
Between Mejia and Angel de la Guarda Islands	Jan. 28, 1940	2 ♀ yg	1056-40	
Angel de la Guarda Island	Mar. 4, 1936	2 ♂	542-36	
Puerto Refugio	Mar. 20, 1937	2 ♂ yg	704-37	
Puerto Refugio	Jan. 26, 1940	1 ♂	1048-40	
Puerto Refugio	Jan. 29, 1940	2 ♂	1057-40	
E of Angel de la Guarda Island	Mar. 8, 1936	3 ♀	554-36	
Between Angel de la Guarda Island and Isla Partida	Mar. 8, 1936	1 ♂	555-36	
Angeles Bay	Mar. 20, 1937	4 ♀	702-37	(1 ov, 2 yg)
N of Isla Partida	Mar. 8, 1936	1 ♂	556-36	
S of Isla Partida	Mar. 9, 1936	2 ♀	558-36	
S of Isla Partida	Mar. 9, 1936	1 ♂	559-36	
E of Tiburón Island	Mar. 11, 1936	3 ♂	568-36	
E of Tiburón Island	Mar. 11, 1936	1 ♂	571-36	measured, ♂ photo
S of Tiburón Island	Mar. 28, 1937	1 ♂	732-37	picopod
S of Tiburón Island	Jan. 25, 1940	1 ♂	1044-40	
S shore, Tiburón Island	Jan. 25, 1940	1 ♂	1045-40	
Off S end, Tiburón Island	Mar. 10, 1936	1 ♂	564-36	
Turner's Island	Jan. 24, 1940	5 ♂	1042-40	
E of San Esteban Island	Mar. 10, 1936	1 ♂	562-36	
S of San Esteban Island	Mar. 27, 1937	1 ♂	729-37	
San Francisco Bay	Mar. 1, 1936	1 ♂	530-36	
San Francisco Bay	Mar. 2, 1936	1 ♂	532-36	
San Francisco Bay	Mar. 2, 1936	1 ♂	533-36	
San Francisco Bay	Mar. 29, 1949	1 ♂	1765-49	
Puerto San Carlos and vicinity	Mar. 29, 1937	5 ♂	733-37	
Off San Pedro Nolasco Island	Mar. 30, 1937	1 ♂	737-37	
Ensenada de San Francisco, Sonora	Feb. 7, 1940	2 ♀	1087-40	1 yg
Ensenada de San Francisco, Sonora	Mar. 13, 1936	3 ♀	576-36	
S of Tortuga Island		(1 ov)		
E of San Marcos Island	Mar. 14, 1936	1 ♂	581-36	
SE of San Marcos Island	Mar. 14, 1936	1 ♀ yg	580-36	

STENORYNCHUS DEBILIS (cont.)							
Locality	Fms.	Date	Sta.	Number and Sex	Remarks		
Gulf of California (cont.)							
Off Pulpito Point	55	Mar. 15, 1937	675-37	1 ♂	1 ♀		
Carmen Island							
Salinas Bay	7	Mar. 20, 1949	1755-49	2 ♂	1 ♀ ov		
1 mi WSW of Perico Point	7-11	Mar. 21, 1949	1759-49				br. 243° T.
Puerto Escondido	10	Mar. 16, 1936	597-36	1 ♂	2 ♀		
Puerto Escondido	8-15	Feb. 10, 1940	1093-40	1 ♂			
Agua Verde Bay	8	Mar. 11, 1937	662-37	2 ♂			
Agua Verde Bay	15	Mar. 11, 1937	663-37		1 ♀		
Entrance to Agua Verde Bay	23-26	Mar. 17, 1949	1743-49		1 ♀		
Off San Francisco Island	30	Feb. 24, 1936	513-36	3 ♂	4 ♀ (3 ov)		
N of San Francisco Island	22	Mar. 8, 1937	647-37	7 ♂	6 ♀ (5 ov)		
N of San Francisco Island	60	Mar. 8, 1937	648-37	3 ♂ (1 yg)			
E of San Francisco Island	15	Feb. 25, 1936	517-36		1 ♀ yg		
S of San Francisco Island	15	Feb. 24, 1936	514-36	1 ♂	1 ♀		
Espiritu Santo Island							
Off Bailenas Bay	25	Mar. 8, 1937	642-37		1 ♀		
San Lorenzo Channel	24	Mar. 21, 1936	607-36		1 ♀		
San Lorenzo Channel	3-5	Mar. 7, 1937	639-37		2 ♀ (1 ov)		
San Lorenzo Channel	30	Mar. 7, 1937	640-37		1 ♂ yg		
San Lorenzo Channel	6-13	Feb. 14, 1940	1111-40		1 ♀ ov		
San Lorenzo Channel	13	Mar. 15, 1949	1738-49	1 ♂			
Ensenada de los Muertos	40	Mar. 5, 1937	629-37	1 ♂ yg			
2¼ mi SE of Cape Pulmo	18-21	Mar. 13, 1949	1733-49	1 ♂			
Fraile Bay	10	Mar. 13, 1949	1735-49	1 ♂			br. 162° T.
Off Gorda Point	17-25	Feb. 16, 1940	1117-40		1 ♀ yg		
Inner Gorda Bank	59-78	Feb. 17, 1940	1118-40	1 ♂ yg			

Revilla Gigedo Islands									
Socorro Island	shore	Jan. 3, 1934	131-34	1 ♂	1 ♀ ov				
Braithwaite Bay	31-56	Mar. 17, 1939	921-39	1 ♂					
N of Clarion Island									
Mexico									
Nayarit									
Isabel Island	10-18	Apr. 2, 1937	745-37	1 ♂	1 ♀			1 yg	
Isabel Island	10-18	Apr. 2, 1937	747-37	2 ♂	3 ♀				color sketch
Isabel Island	10-15	Mar. 8, 1938	870-38	3 ♂	4 ♀				
					(1 ov)				
Jalisco									
Tenacatita Bay	25-35	Mar. 4, 1934	275-34		1 ♀			1 yg	
Guerrero									
N of White Friars Islands	25	Mar. 3, 1934	268-34	1 ♂					
Oaxaca									
Chacahua Bay	40-50	Jan. 9, 1938	767-38					1 yg	
Chacahua Bay	shore	Mar. 20, 1939	928-39		1 ♀ ov				
Tangola Tangola and Santa Cruz Bays	15-20	Feb. 28, 1934	259-34		1 ♀ yg				
Costa Rica									
Salinas Bay	2	Feb. 11, 1935	477-35	2 ♂	3 ♀				
Salinas Bay	1½	Feb. 11, 1935	478-35		1 ♀				
Salinas Bay	12	Feb. 11, 1935	480-35		1 ♀				
Port Parker	5	Feb. 9, 1935	468-35	1 ♂					fragmentary
Port Parker	10	Feb. 9, 1935	469-35	1 ♂					
Port Parker	3-8	Mar. 24, 1939	934-39	1 ♂					
Port Parker	5-10	Mar. 25, 1939	936-39		1 ♀				
Playa Blanca	15	Feb. 8, 1935	461-35	2 ♂					
Playa Blanca	shore	Feb. 8, 1935	465-35	2 ♂	5 ♀				
					(4 ov)				
Port Culebra	10	Feb. 24, 1934	253-34	1 ♂					

STENORYNCHUS DEBILIS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Costa Rica (cont.)					
Port Culebra	3-10	Feb. 24, 1934	254-34	1 ♂	1 ♀
Off South Viradores Islands	10	Feb. 25, 1934	257-34	30 ♂	20 ♀ (2 ov)
Gulf of Dulce	10-22	Mar. 26, 1939	939-39	5 ♂	2 ♀ ov
Gulf of Dulce	19-48	Mar. 26, 1939	941-39	1 ♀	1 ♀
Cocos Bay	2	Mar. 13, 1933	116-33	3 ♂	2 ♀ (1 ov)
Cocos Island					
Off Nuez Island	30-50	Jan. 14, 1938	779-38	1 ♂ yg	
Chatham Bay	47	Jan. 14, 1938	780-38		1 ♀ yg
Panama					
Secas Islands	25	Feb. 22, 1934	250-34	2 ♂	1 ♀
Secas Islands	15	Feb. 22, 1934	251-34	3 ♂	2 ♀ ov
Secas Islands	shore	Feb. 2, 1935	448-35		1 ♀ yg
Secas Islands	14	Feb. 5, 1935	450-35	2 ♂	3 ♀ (1 ov)
Secas Islands	12	Feb. 5, 1935	451-35		2 ♀
Secas Islands	5-20	Feb. 6, 1935	458-35	2 ♂ yg	
Secas Islands	30	Mar. 27, 1939	944-39	1 ♂	
Secas Islands	25-26	Mar. 27, 1939	945-39	1 ♂	2 ♀
Bahia Honda	15-20	Feb. 22, 1934	249-34	1 ♂ yg	
Bahia Honda	30-50	Mar. 1, 1938	863-38	3 ♂	2 ♀
Bahia Honda	30-35	Mar. 28, 1939	948-39	14 ♂	21 ♀ (6 ov)
Taboga Island	2-5	May 2, 1939	960-39	2 ♂	
Piñas Bay	25	Jan. 29, 1935	438-35	1 ♂	
Piñas Bay	30-35	Jan. 29, 1935	442-35	1 ♂	
Colombia					
Octavia Bay	2	Jan. 28, 1935	434-35	2 ♂	4 ♀ (3 ov)
Off Port Utria	35	Jan. 25, 1935	420-35		
Off Port Utria	20	Jan. 25, 1935	423-35	1 ♂	1 yg

Off Port Utria	15-30	Jan. 25, 1938	856-38	2 ♂		
N of Gorgona Island	10-20	Feb. 24, 1938	851-38	3 ♂	2 ♀	3 yg
Gorgona Island	shore	Feb. 12, 1934	222-34			
Ecuador						
Off La Plata Island	7-10	Feb. 10, 1934	213-34		1 ♀	
Off Santa Elena Bay	8-10	Feb. 9, 1934	209-34		2 ♀	1 yg
TABLE 23						
OREGONIA GRACILIS DANA						
British Columbia						
S of Dodds Narrows	5	July 27, 1934		3 ♂	3 ♀ (2 ov)	J. F. L. Hart, coll.
Berry Point, Burrard Inlet	22	June 27, 1929		1 ♂	1 ♀	Prov. Mus. Hopkins Marine Sta.
Departure Bay				1 ♂		
Washington		1948		7 ♂	14 ♀ (10 ov)	
San Juan County						
Sucia Island		Aug. 11, 1948		4 ♂	2 ♀	J. L. Mohr, coll., ♂ photo
Echo Bay						Carl Emmanuel, coll.
Waldron Island						B. W. Halstead, coll.
North Bay	6-8	Aug. 12, 1948		3 ♂		<i>Hydab</i>
Obstruction Pass	11	July 21, 1948		17 ♂	38 ♀ (23 ov)	<i>Hydab</i>
Peavine Pass	29	June 26, 1949		1 ♂ yg		D. L. Ray and J. L. Mohr, coll.
Orcas Island						J. L. Mohr, coll.
Nr "Potato Patch" off Orcas Island	20-25	1949		3 ♂	1 ♀	
Deer Harbor		Aug. 13, 1949		16 ♂	14 ♀ (3 ov)	
East Sound		Aug. 19, 1948		6 ♂	3 ♀ (2 ov)	
N of Roche Harbor and Pearl Island		Aug. 18, 1949		5 ♂	1 ♀	1 yg

OREGONIA GRACILIS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Washington (cont.)					
San Juan County (cont.)					
S side of Spieden Channel	ca. 9	Aug. 18, 1949		4 ♂ yg	J. L. Mohr, coll.
San Juan Island					
Rocky Bay	16-18	Aug. 18, 1949		6 ♂	J. L. Mohr, coll.
Off Flat Point		Aug. 15, 1949		1 ♂	<i>Hydrah</i>
San Juan Channel					
By Point Caution cable crossing	60-62	Aug. 10, 1949		1 ♂	<i>Hydrah</i>
Skagit County					
Ship Harbor	5-8	July 26, 1949		2 ♂	<i>Hydrah</i>
				(1 ov)	
				5 ♀	
Ship Harbor	6	Aug. 16, 1950		6 ♂	2 yg H. G. Coffin, coll.
				(2 ov)	
Burrows Bay	3-20	Aug. 17, 1950		3 ♂	H. G. Coffin, coll.
				6 ♀	
				(3 ov)	
Puget Sound					
Hein Bank or Middle Bank		Aug. 9, 1948		6 ♂	J. L. Mohr, coll.
Oregon					
35 mi W of Depoe Bay	60-74	July 9, 1942	1498-42		photo
California					
2.8 mi 356° from Laguna Point	25.5-27	Aug. 6, 1940	291	1 ♂	<i>N. B. Scofield</i> CAS loc. 31156, pleopod
2.5 mi off Drakes Bay buoy	30	July 28, 1940	263		<i>N. B. Scofield</i> CAS loc. 31107
				1 ♀	

TABLE 24
HYAS LYRATUS DANA

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
British Columbia					
Inside Narrows, Narrows Arm		Apr. 20, 1933		1 ♂	Prov. Mus.
Entrance to Montaine Harbor	11-12	June 9, 1934		2 ♀	J. F. L. Hart, coll.
Washington					
San Juan County		1948		8 ♂	♂ photo
Sucia Island					
Echo Bay		Aug. 11, 1948		5 ♂	J. L. Mohr, coll.
Obstruction Pass	11	July 21, 1948		2 ♂	
Peavine Pass	29	June 26, 1949		2 ♂	B. W. Halstead, coll.
Orcas Island					
Nr "Potato Patch" off Orcas Island	20-25	1949		1 ♂	<i>Hydah</i>
Deer Harbor		Aug. 13, 1949		1 ♂	<i>Hydah</i>
East Sound		Aug. 19, 1948		1 ♀	D. L. Ray and J. L. Mohr, coll.
N of Roche Harbor and Pearl Island		Aug. 18, 1949		1 ♀	J. L. Mohr, coll.
San Juan Island					
Off Flat Point		Aug. 15, 1949		3 ♀	<i>Hydah</i>
San Juan Channel					
By Point Caution cable crossing	60-62	Aug. 10, 1949		1 ♂	<i>Hydah</i>
Skagit County					
Ship Harbor	6	Aug. 16, 1950		3 ♂	H. G. Coffin, coll.
Fidalgo Island					
Burrows Bay	3-20	Aug. 17, 1950		2 ♂	H. G. Coffin, coll.
Burrows Bay	5-20	Aug. 17, 1950		2 ♂	H. G. Coffin, coll.
					7 yg

TABLE 25
HYAS COARCTATUS ALUTACEUS BRANDT

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Alaska					
Arctic Ocean					
Off Point Barrow	20.8	Sept. 9, 1948		4 ♀ (3 ov)	G. E. MacGinitie, coll.
Off Point Barrow, 4 mi out	21.6	Aug. 9, 1949		4 ♀ ov	G. E. MacGinitie, coll.
Off Point Barrow, 7 mi out	70.0	Aug. 9, 1949	4 ♂		G. E. MacGinitie, coll., photo
Off Point Barrow, 7.5 mi out	36.1	Sept. 6, 1949	4 ♂	1 ♀	G. E. MacGinitie, coll.
Off Point Barrow, 16 mi out	79.5	Sept. 6, 1949	1 ♂		G. E. MacGinitie, coll.
Off Point Barrow, 4 mi out	35.5	Oct. 6, 1949	1 ♂	1 ♀ ov	G. E. MacGinitie, coll.
Off Point Barrow, 5 mi out	49.1	Oct. 6, 1949	1 ♂	2 ♀	G. E. MacGinitie, coll.
Off Point Barrow, 6 mi out	56.8	Oct. 11, 1949	1 ♂	1 ♀	G. E. MacGinitie, coll.
Off Point Barrow, 4 mi out	29.1	Oct. 14, 1949		1 ♀ ov	G. E. MacGinitie, coll.
Bering Sea					
Between Pribilof Islands and Bristol Bay	25.5	June 14, 1890	3251	1 ♂	<i>Albatross</i> USNM 15873

TABLE 26

CHIONOCETES BAIRDI RATHBUN

British Columbia					
English Bay					
SE Round Island	10-16	Aug. 15, 1932		2 ♂	C. V. Wilby, coll.
Burrard Inlet, N Arm	30	July 27, 1934		1 ♀	J. F. I. Hart, coll.
		June 14, 1949		12 ♀ (3 ov)	<i>Investigator</i> , ♂ photo, pleopod
Washington					
San Juan Islands					
East Sound, Orcas Island	10	Aug. 19, 1951		1 ♂	H. G. Coffin, coll.

TABLE 27
PITHO SEXDENTATA BELL

Gulf of California							
Tiburon Island							
Agua Dulce Bay							
Off Los Frailes							
1 mi NE of Cabeza Ballena							
Revilla Gigedo Islands							
Socorro Island							
Braithwaite Bay							
Off Cape Rule							
Clarion Island							
Sulphur Bay							
Mexico							
Tres Marias Islands							
Magdalena Island							
Magdalena Island							
Ecuador							
Cape San Francisco							
Manta Bay							
Manta Bay							
	shore	June 15-20, 1951			2 ♀		
	5-15	Apr. 4, 1937	751-37	1 ♂	1 ♀		W. N. Smith II, coll.
	shore	Mar. 11, 1949	1727-49	1 ♂			photo
	10-20	Mar. 18, 1939	922-39	1 ♂			
	4-10	June 8, 1934	291-34		1 ♀		
	5	Mar. 16, 1939	915-39		1 ♀		
	13	May 9, 1939	970-39		1 ♀		
	3-5	May 9, 1939	971-39	6 ♂	5 ♀		
	2	Feb. 11, 1934	214-34		1 ♀		
	shore	Jan. 19, 1935	400-35	1 ♂			
	1	Jan. 19, 1935	401-35		1 ♀		
							pleopod

TABLE 28
PITHO PICTETI (SAUSSURE)

Lower California							
Scammon Lagoon							
San Ignacio Lagoon							
North Whale Island							
Off South Whale Island							
	shore	Apr. 27, 1946			1 ♀		W. Williams, coll.
	shore	Feb. 8, 1950		1 ♂			Martin Johnson, coll.
	3.5 m	Feb. 11, 1950		4 ♂	3 ♀		Martin Johnson, coll.

PIRHO PICTETI (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California					
Tepoca Bay, Sonora	shore	Feb. 3, 1940	1076-40	1 ♀	
Ensenada de San Francisco, Sonora	2-6	Feb. 7, 1940	1088-40	2 ♂	color note 413
Concepción Bay	10	Mar. 15, 1936	589-36	1 ♂	♂ photo, pleopod
Concepción Bay	12	Mar. 16, 1937	686-37	1 ♀	
Concepción Bay	12	Mar. 16, 1937	688-37	2 ♀	
Coyote Bay	2-3	Mar. 14, 1936	585-36	1 ♀	
Coyote Bay W of Bargo Island	3-7	Mar. 27, 1949	1771-49	7 ♂ (4 ov)	
S of Mangles Anchorage	3-5	Feb. 28, 1936	526-36	1 ♀	crushed
Puerto Escondido	7	Mar. 18, 1949	1747-49	2 ♀	
Agua Verde Bay	5-10	Feb. 27, 1936	521-36	2 ♂	
Agua Verde Bay	shore	Feb. 13, 1940	1103-40	1 ♂	
Espiritu Santo Island					
Ballenas Bay	shore	Mar. 21, 1936	608-36	2 ♀ ov	
San Gabriel Bay	1-4	Feb. 22, 1936	506-36	1 ♀	
San Gabriel Bay	shore	Mar. 6, 1937	634-37	1 ♂ yg	
San Gabriel Bay	shore	Feb. 13, 1940	1108-40		2 yg
San Lorenzo Channel	3-5	Mar. 7, 1937	639-37	5 ♂	
Off Los Frailes	5-15	Apr. 4, 1937	751-37	1 ♂ (1 ov)	
Mexico					
Nayarit					
Isabel Island	10-18	Apr. 2, 1937	745-37	2 ♂	
Isabel Island	15-20	Mar. 8, 1938	870-38	2 ♂	color sketch
Tres Marias Islands					
Magdalena Island	13	May 9, 1939	970-39	2 ♀ (1 ov)	
Magdalena Island	3-5	May 9, 1939	971-39	2 ♀	
Jalisco					
Tenacatita Bay	shore	Mar. 18, 1933	121a-33	1 ♂	

Guerrero									
Santa Lucia Bay, Acapulco	1-4	Feb. 1-2, 1954	2596-54	2 ♂		1 ♀			
Costa Rica									
Playa Blanca	shore	Feb. 8, 1935	465-35			1 ♀ ov			
Port Culebra	3-10	Feb. 24, 1934	254-34	1 ♂		1 ♀			
Panama									
Taboga Island	2-5	May 2, 1939	959-39	4 ♂		7 ♀ ov			color note 215
Taboga Island	2-5	May 2, 1939	960-39	1 ♂		2 ♀			
						(1 ov)			
TABLE 29									
PITHO QUINQUEIDENTATA BELL									
Panama									
Bahia Honda	shore	Jan. 10, 1933	5-33	4 ♂		3 ♀			♂ photo, pleopod
Bahia Honda	5-8	Mar. 9, 1933	113-33	1 ♂		(1 ov)			
Bahia Honda	15-20	Feb. 22, 1934	249-34			2 ♀			
						1 ♀			
TABLE 30									
TYCHE LAMELLIFRONS BELL									
Gulf of California									
Agua Verde Bay	shore	Mar. 10, 1937	659-37	2 ♂					
Agua Verde Bay	8	Mar. 11, 1937	662-37	1 ♂					
Agua Verde Bay	shore	Feb. 13, 1940	1103-40			1 ♀ yg			pleopod
San Francisco Island	shore	Mar. 9, 1937	652-37	1 ♂					
Espiritu Santo Island	shore	Feb. 20, 1936	501-36	1 ♂					
San Lorenzo Channel	5-15	Feb. 19, 1936	498-36			1 ♀			photo
Off Los Frailes	5-15	Apr. 4, 1937	751-37	1 ♂					
Mexico									
Nayarit									
Isabel Island	10-15	Mar. 8, 1938	870-38			1 ♀			color sketch

TYCHE LAMELLIFRONS (cont.)

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Mexico (cont.)					
Tres Marias Islands	13	May 9, 1939	970-39	4 ♂	
Magdalena Island	3-5	May 9, 1939	971-39	1 ♂	
Magdalena Island					
Guerrero					
Acapulco		Feb. 2, 1947	D123	1 ♀	E. Y. Dawson, coll.
Costa Rica					
Gulf of Dulce	shore	Mar. 26, 1939	940-39	1 ♂	
Panama					
Secas Islands	14	Feb. 5, 1935	450-35	1 ♂	
Secas Islands	shore	Feb. 6, 1935	454-35	1 ♂	
Secas Islands	3	Mar. 2, 1938	865-38	1 ♀, yg	
Secas Islands	shore	Mar. 2, 1938	867-38	1 ♂	
Ecuador					
Salango Island	2-3	Jan. 18, 1935	398-35	1 ♀	
Off La Libertad	3-5	Jan. 19, 1933	9-33	1 ♀	

TABLE 31

TYCHE CLARIONENSIS, NEW SPECIES

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Revilla Gigedo Islands					
Clarion Island					
Sulphur Bay	30	June 11, 1934	303-34	2 ♂	♂ holotype, AHF 344, pleopod, maxilliped
Sulphur Bay	20	June 11, 1934	304-34	1 ♀	
Sulphur Bay	15	June 11, 1934	305-34	1 ♂	
Sulphur Bay	5	Mar. 16, 1939	915-39	1 ♂	
Sulphur Bay	shore	Mar. 16, 1939	916-39	1 ♂	

TABLE 32
MIMULUS FOLIATUS STIMPSON

British Columbia	Vancouver Island, W coast	shore	July 28, 1934	2241-12S	1 ♂	1 ♀	E. G. Hart, coll. Prov. Mus.
		shore	May-July 1934		3 ♂	4 ♀ (2 ov)	
		shore	July 9, 1934	2231-28	1 ♂	2 ♀	
Oregon	Cape Arago State Park	shore	July 11, 1934	2231-30	2 ♂		
		shore	July 1, 1942	1468-42	1 ♂		
California	Mendocino County	shore	June 25, 1949	EB20	2 ♀		W. K. Emerson and J. Barnard, coll.
		shore	June 26, 1949	EB21	4 ♂	8 ♀ (4 ov)	W. K. Emerson and J. Barnard, coll.
		shore	June 27, 1949	EB22		1 ♀	W. K. Emerson and J. Barnard, coll.
		shore	June 30, 1949	EB26	1 ♂		W. K. Emerson and J. Barnard, coll.
		shore	June 11, 1949	EB9	1 ♂	1 ♀	W. K. Emerson and J. Barnard, coll.
		shore	June 12, 1949	EB10	1 ♂		W. K. Emerson and J. Barnard, coll.
		shore	June 12, 1949	EB10	1 ♂		W. K. Emerson and J. Barnard, coll.
		shore	June 12, 1949	EB10	1 ♂		W. K. Emerson and J. Barnard, coll.
		shore	June 12, 1949	EB10	1 ♂		W. K. Emerson and J. Barnard, coll.
		shore	June 12, 1949	EB10	1 ♂		W. K. Emerson and J. Barnard, coll.
Sonoma County	Shell Beach	shore	Nov. 19, 1949	M86-49	1 ♂		L. O. Miles, coll.
		shore	Feb. 27-28, 1950	M122-50		1 ♀ ov	L. O. Miles, coll.
		shore	Mar. 1-2, 1950	M123-50	1 ♂		L. O. Miles, coll.
		shore	Dec. 28, 1948	1673-48	3 ♂	1 ♀	R. J. Menzies, coll.
		shore	Jan. 12, 1949	1676-48	1 ♂	2 ♀ (1 ov)	R. J. Menzies, coll.

MIMULUS FOLIATUS (cont.)								
Locality	Fms.	Date	Sta.	Number and Sex	Remarks			
California (cont.)								
Sonoma County (cont.)								
E beach N of Russian River	shore	Feb. 11, 1950	M116-50	2 ♀ ov	L. O. Miles, coll.			
N of mouth of Russian River	shore	Dec. 17, 1949	M96-49	3 ♂	L. O. Miles, coll.			
Bodega Bay								
North Jetty	shore	Mar. 22, 1949	1815-49	1 ♂	R. J. Menzies, coll.			
South Jetty	shore	Mar. 23, 1949	1816-49	1 ♂	R. J. Menzies, coll.			
				4 ♀				
				(3 ov)				
South Jetty	shore	Mar. 24, 1949	1817-49	2 ♀ ov	R. J. Menzies, coll.			
South Jetty	shore	Mar. 25, 1949	1818-49	2 ♀	R. J. Menzies, coll.			
				(1 ov)				
Marin County								
Tomaes Point	shore	Aug. 5, 1948	1608-48	1 ♀	R. J. Menzies, coll.			
Tomaes Bluff	shore	Nov. 2, 1948	1628-48	1 ♂	R. J. Menzies, coll.			
Monterey County								
Monterey Bay	70	Feb. 12, 1931		1 ♀	G. E. MacGinitie, coll., Hopkins Marine Station			
Monterey Bay off Del Monte	15			8 ♂	Hopkins Marine Station			
Monterey Bay near 3rd beach				3 ♂	H. Heath, coll., Hopkins Marine Station			
Monterey		Aug. 18, 1940	B40128	1 ♂	Hopkins Marine Station			
Point Pinos	shore	Feb. 4, 1947	1588-47	3 ♂	Burch, coll.			
				(1 ov)				
San Luis Obispo County								
Piedras Blancas		Mar. 31, 1947	1598-47	1 ♀				
Leffingwell Landing, Cambria	shore	Jan. 5, 1947	1581-47	1 ♂				
5 mi N of Cayucos	shore	Dec. 8, 1946	1576-46	9 ♂				
				(3 ov)				♂ photo, pleopod
Morro Bay		Jan. 3-8, 1947	1579-47	1 ♂				
San Luis Obispo Bay	8-14	Aug. 4, 1938	885-38	1 ♀				

Location	Date	Count	Sex	Collector
Santa Barbara County Point Arguello	Mar. 13, 1942	1 ♀ ov		
Channel Islands Santa Rosa Island	Apr. 10, 1941	1 ♂		
2½ mi E of South Point	Dec. 30, 1948	1 ♀ ov		
1¼ mi SE of Santa Cruz Island				
TABLE 33 PUGETTIA PRODUCTA (RANDALL)				
British Columbia Piper's Lagoon, Nanaimo	July 7, 1940		1 yg	G. E. MacGinitie, coll.
Washington Rosario Beach, Skagit County	July 25, 1949	1 ♂		H. G. Coffin, coll.
Rosario Beach, Skagit County	June 1948		1 ♀	F. Phelps, coll.
Oregon Boiler Bay	July 14, 1942	2 ♂		
Agate Beach under Yaquina Head Light	July 13, 1942	6 ♂	7 ♀ (1 ov)	
Cape Arago State Park South Cove	June 30, 1942	3 ♂	4 ♀	
North Bay	July 28, 1942	2 ♂	2 ♀	
North Beach	July 31, 1942	2 ♂	2 ♀	
Middle Bay	July 1, 1942	4 ♂	8 ♀ (1 ov)	
South Bay	July 30, 1942	6 ♂	7 ♀	
Coes Bay Railroad bridge	July 21, 1942	1 ♂	1 ♀	
Off Coos Head at Coast Guard Station	July 25, 1942	1 ♂	2 ♀	

PUGETIA PRODUCTA (cont.)						
Locality	Fms.	Date	Sta.	Number and Sex	Remarks	
Oregon (cont.)						
Charleston						
Institute of Marine Biology	shore	July 2, 1942	1469-42	1 ♂ yg		
Fossil Point	shore	June 27, 1942	1463-42	1 ♀	old submerged jetty	
Fossil Point	shore	Aug. 14, 1942	1501-42	1 ♀ yg	old breakwater jetty	
Cape Arago lighthouse, reef and bight	shore	July 29, 1942	1490-42	3 ♂		
Squaw Island off Cape Arago Light	shore	July 27, 1942	1488-42	7 ♂	4 yg	
Sunset Bay				6 ♀		
N side	shore	June 29, 1942	1466-42	8 ♂	2 ♀	
S side	shore	June 28, 1942	1464-42	4 ♂	7 ♀	
				(1 ov)	1 yg	
California						
Mendocino County						
Cormorant Cove	shore	June 26, 1949	EB21	2 ♂	W. K. Emerson and J. Barnard, coll.	
Cormorant Cove	shore	June 28, 1949	EB23	1 ♂	W. K. Emerson and J. Barnard, coll.	
Cormorant Cove	shore	June 29, 1949	EB24	1 ♀	W. K. Emerson and J. Barnard, coll.	
Albion Bay at mouth of Albion River					W. K. Emerson and J. Barnard, coll.	
Salmon Point	shore	July 14, 1949	EB42	1 ♀	W. K. Emerson and J. Barnard, coll.	
Bluffs N of Whitesboro Cove	shore	June 10, 1949	EB7	1 ♂	W. K. Emerson and J. Barnard, coll.	
Point Arena reef	shore	July 9, 1949	EB37	1 ♂	W. K. Emerson and J. Barnard, coll.	
		July 1, 1949	EB27	1 ♀	W. K. Emerson and J. Barnard, coll.	
Sonoma County						
E beach N of Russian River	shore	Dec. 28, 1948	1673-48	1 ♂	R. J. Menzies, coll., ♂ photo	
E beach N of Russian River	shore	Jan. 12, 1949	1676-49	1 ♀ ov	R. J. Menzies, coll.	
E beach N of Russian River	shore	Feb. 11, 1950	M116-50	1 ♀ yg	L. O. Miles, coll.	
N of mouth of Russian River	shore	Dec. 17, 1949	M196-49	1 ♀	L. O. Miles, coll.	

Carnet	shore	Oct. 31, 1948	1627-48	1 ♂	1 ♀ ov	R. J. Menzies, coll.
Carnet	shore	Nov. 16, 1948	1654-48	5 ♂	2 ♀ (1 ov)	R. J. Menzies, coll.
½ mi N of Salmon Creek	shore	Jan. 11, 1949	1675-49		1 ♀	R. J. Menzies, coll.
Horseshoe Cove	shore	Dec. 29, 1948	1674-48	1 ♂	2 ♀ (1 ov)	R. J. Menzies, coll.
Horseshoe Cove, 2 mi N of	shore	Jan. 13, 1949	1677-49		1 yg	R. J. Menzies, coll.
Bodega Head	shore	Feb. 10, 1949	1797-49	1 ♂		R. J. Menzies, coll.
Mussel Point	shore	Mar. 11, 1949	1808-49		3 ♀	R. J. Menzies, coll.
Bodega Lagoon	shore	July 27, 1949		1 ♂	1 ♀	R. J. Menzies, coll.
North Jetty	shore	Feb. 8, 1949	1795-49	1 ♂	2 ♀ ov	R. J. Menzies, coll.
S of Gafney Ranch	shore	Aug. 6, 1948	1609-48	1 ♂		R. J. Menzies, coll.
Campbell's Cove	shore	Jan. 24, 1949	1684-49	1 ♂	3 ♀ (1 ov)	R. J. Menzies, coll.
Bodega Head	shore	Sept. 29, 1949	M79-49		1 ♀	Janice
Bodega Head	1-3 shore	Feb. 24, 1949	1801-49	2 ♂	1 ♀	R. J. Menzies, coll.
Bodega Bay	shore	Mar. 20, 1949	1813-49	2 ♂	1 ♀	R. J. Menzies, coll.
North Jetty	shore	Mar. 21, 1949	1814-49		1 ♀ yg	R. J. Menzies, coll.
North Jetty	shore	Mar. 22, 1949	1815-49	1 ♂	1 ♀	R. J. Menzies, coll.
North Jetty	shore	Mar. 23, 1949	1816-49	2 ♂	2 ♀	R. J. Menzies, coll.
South Jetty	shore	Mar. 24, 1949	1817-49	4 ♂	2 ♀	R. J. Menzies, coll.
South Jetty	shore	Mar. 25, 1949	1818-49	1 ♂	7 ♀ yg	R. J. Menzies, coll.
South Jetty	shore	June 12, 1946				
Bodega Beach	shore					
Marin County						
Dillon Beach	shore	Aug. 4, 1948	1607-48	1 ♂		R. J. Menzies, coll.
Second Sled Road	shore	Oct. 20, 1948	1626-48	1 ♂	2 ♀ ov	R. J. Menzies, coll.
Second Sled Road	shore	Nov. 15, 1948	1653-48		1 ♀	R. J. Menzies, coll.
Tomales Point	shore	Aug. 5, 1948	1608-48	1 ♂	2 ♀ (1 ov)	R. J. Menzies, coll.
Tomales Point	shore	Nov. 28, 1948	1656-48	3 ♂		R. J. Menzies, coll.
Tomales Bluff	shore	Nov. 2, 1948	1623-48	1 ♂	4 ♀ (2 ov)	R. J. Menzies, coll.

PUGETIA PRODUCTA (cont.)		Date	Sta.	Number and Sex	Remarks
Locality	Fms.				
California (cont.)					
Marin County (cont.)					
Tomales Bay and vicinity	shore	Oct.-Nov., 1948	1625-48, 1630-48	3 ♂	2 yg R. J. Menzies, coll.
Monterey County					
Point Pinos	shore	Feb. 4, 1947	1588-47	1 ♂	3 yg
Point Pinos	shore	Dec. 26, 1947	1604-47	2 ♂	1 yg 1 ♀ ov
Kasler Point	shore	Feb. 3, 1947	1587-47	1 ♂	1 ♀
Pacific Grove	shore	Aug. 25, 1942	1455-42	1 ♂ yg	
Big Sur	shore	Feb. 6, 1947	1592-47	3 ♂	1 ♀
San Luis Obispo County					
Piedras Blancas	shore	Mar. 31, 1947	1598-47	1 ♂	1 ♀
Breaker Point	shore	Apr. 1, 1947	1599-47	1 ♂	1 ♀
Leffingwell Landing	shore	Jan. 5, 1947	1581-47	1 ♂	
5 mi N of Cayucos	shore	Dec. 7, 1946	1576-46	3 ♂	6 ♀
½ mi W of Cayucos	shore	Jan. 3, 1947	1579-47	3 ♂	5 ♀
4.5 mi westward to Cayucos	shore	Jan. 7, 1947	1583-47	4 ♂	1 ♀
2 mi N of Morro Bay (town)	shore	Apr. 2, 1947	1600-47	2 ♀	2 ♀
Wood Mar 5 mi E of Gaviota Beach	shore	Jan. 8, 1947	1585-47	1 ♀	J. L. Mohr, coll.
Santa Barbara County					
6.7 mi S of Surf	shore	Dec. 7, 1946	1575-46	3 ♀ ov	
Point Arguello	shore	Mar. 15, 1942	1447-42	5 ♂	5 ♀
Stevens Wharf, Santa Barbara	shore	Apr. 25, 1947	H47-74		
Off Point Santa Barbara	33	Sept. 13, 1938	897-38		1 ♀
Northern Channel Islands					
Santa Cruz Island	shore	Oct. 29, 1940	1189-40	3 ♂	pleopod
Fraser Point	shore	Apr. 28, 1947	H47-90	1 ♂	C. L. Hubbs, coll.
N shore	shore	Apr. 28, 1947	H47-88	1 ♂	C. L. Hubbs, coll.
Reef connecting bird rocks with mainland	shore	Apr. 27, 1947	H47-77		2 ♀
Willow Anchorage	shore	Oct. 30, 1940	1193-40	1 ♂	
Willow Anchorage	shore	Dec. 30, 1948	1664-48	2 ♂	1 ♀
SW shore Smugglers Cove	shore	Dec. 29, 1948	1660-48	9 ♂	7 ♀
Gull Island	10	Oct. 31, 1940	1197-40	1 ♂	3 yg 2 yg

Los Angeles County									
Santa Monica Bay at foot of Topanga Canyon									Dawson and Durham, coll.
Flat Rock Point	shore	Dec. 18, 1945	1503-45	1 ♂	1 ♀				
Flat Rock Point	shore	Nov. 18, 1941	1437-41	1 ♂	1 ♀				
Palos Verdes	shore	Dec. 17, 1941	1439-41	1 ♂	1 ♀				
White's Point	shore	Nov. 11, 1946	1573-46	2 ♂					
Portuguese Bend	shore	Nov. 28, 1948		1 ♂					
Portuguese Bend	shore	Nov. 21, 1938	902-38	2 ♂	3 ♀				
Point Fermin	shore	Nov. 10, 1939	1013-39	2 ♂	1 ♀				C. L. Wright, coll.
Point Fermin	shore	June 9, 1926		1 ♂					
San Pedro breakwater	shore	Nov. 1937		1 ♂					
San Pedro breakwater	shore	Jan. 26, 1941	1230-41	1 ♂					
San Pedro breakwater	shore	Oct. 14, 1947						1 yg	
Orange County									
Anaheim Landing	shore	Dec. 5, 1938		1 ♂					
Anaheim Landing	shore	Feb. 12, 1942	1445-42		1 ♀ ov			1 yg	
Anaheim Slough	shore	Dec. 7, 1938	905-38	4 ♂	1 ♀				
SE of Newport breakwater	shore	Jan. 25, 1941	1225-41		1 ♀				
Corona del Mar	shore	Dec. 18, 1941	1440-41		1 ♀				
Corona del Mar	shore	Nov. 9, 1942	1457-42		1 ♀				
Laguna Beach	shore	Nov. 29, 1940	1209-40	1 ♂					
North reefs	shore	Jan. 24, 1948			1 ♀				J. L. Mohr, coll.
Abalone Cove	shore	Mar. 13, 1949			1 ♀			1 yg	
San Diego County									
Oceanside	shore	Aug. 20, 1933		1 ♂					
La Jolla	shore	Jan. 15, 1946	1506-46		1 specimen				J. Shirquist, coll. carapace only
La Jolla	shore	Nov. 1, 1947			1 ♀ ov				
Southern Channel Islands									
San Nicolas Island									
Off Dutch Harbor	4-9	Nov. 24, 1940	1206-40	18 ♂	14 ♀				
					(1 ov)				

PUGETTIA PRODUCTA (cont.)		Fms.	Date	Sta.	Number and Sex	Remarks
Locality						
California (cont.)						
Southern Channel Islands (cont.)						
Santa Barbara Island						
E of Santa Barbara Island	shore-40		Aug. 12, 1938	895-38	1 ♂	
1 mi off E side	20-40		Sept. 15, 1941	1409-41	1 ♀	
4 mi E of landing	40		Aug. 28, 1941	1398-41	1 ♂ YG	
Santa Catalina Island						
Isthmus Harbor, W shore			Nov. 27, 1913		2 ♂	
Cherry Cove	shore		Oct. 30, 1948	1623-48	1 ♂	
Long Point	shore		Nov. 30, 1948	1646-48	3 ♂	4 YG 1 YG
White Cove	shore		July 12, 1941	1363-41	2 ♀	
White Cove	shore		July 18, 1941	1367-41	2 ♂	
White Cove	shore		Sept. 14, 1941	1406-41	1 ♂	
White Cove	shore		Oct. 2, 1948	1614-48	1 ♂	
Catalina Harbor	shore		Dec. 1, 1948	1652-48	1 ♂	
San Clemente Island						
Northwest Harbor	shore		Nov. 24, 1939	1021-39	3 ♀	
Horse Cove	shore		Nov. 25, 1939	1025-39	1 ♀	
Pyramid Cove	10		Nov. 25, 1939	1024-39	1 ♂	
Lower California						
Near Descanso Point	shore		Jan. 14, 1946	1505-46	1 ♂	
7 mi N of Halfway House	shore		Mar. 3, 1947	1594-47	2 ♂	
Mouth of Rio Santo Tomas	shore		Mar. 4, 1947	1595-47	2 ♂	2 YG
Punta Clara S of Rio Santo Tomas	shore		Dec. 18, 1945	H45-217a	1 ♀	C. L. Hubbs, coll.
S side of Punta Banda	shore		Feb. 3, 1951	H51-21	1 ♂	C. L. Hubbs, coll.
S of Rio San Isidro	shore		June 30, 1946	H46-58	1 ♂	C. L. Hubbs, coll.
Cape Colnett						
Cape Colnett	shore		Jan. 13, 1946	1504-46	3 ♀	
Colnett Bay	5-6		Mar. 2, 1949	1688-49	3 ♀	
Punta Santa Rosalia	shore		Oct. 9, 1946		1 ♀	
					2 ♂	1 YG E. Y. Dawson, coll.

Location	Date	Number	Sex	Stage	Collector
Punta Rosarito on Bahía Rosalia 2 mi S of Rosarito	Oct. 10, 1946	1 ♂			E. Y. Dawson, coll.
	Mar. 6, 1947	1597-47	2 ♀ (1 ov)	1 yg	
	May 8, 1950	1977-50	1 ♂ yg		
San Benito Islands	Apr. 28, 1950	1950-50	1 ♀ yg		night light from drift?
Asunción Point					
TABLE 34 PUGETIA RICHI DANA					
British Columbia Vancouver Island, W coast South Bottle Island	June 26, 1934	2231-20	1 ♂	1 ♀ ov	Prov. Mus.
	June 30, 1942	1467-42	1 ♂		
	July 28, 1942	1489-42		1 ♀	
	July 29, 1942	1490-42	3 ♂		
	June 29, 1942	1466-42	1 ♂		
Oregon Cape Arago State Park South Cove North Bay Cape Arago lighthouse, reef and bight Sunset Bay, north side	Jan. 6, 1931		1 ♀		G. E. MacGinitie, coll., Hopkins Marine Station
California Humboldt County Humboldt Bay	June 26, 1949	EB21	1 ♂		
Mendocino County Cormorant Cove	June 28, 1949	EB23	1 ♀		
Cormorant Cove	June 10, 1949	EB7	1 ♂	2 yg	
Salmon Point	June 11, 1949	EB9	1 ♂	5 ♀	
Salmon Point					W. K. Emerson and J. Barnard, coll. W. K. Emerson and J. Barnard, coll. W. K. Emerson and J. Barnard, coll. W. K. Emerson and J. Barnard, coll.

PUGETIA RICHI (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
California (cont.)					
Mendocino County (cont.)					
Salmon Point	shore	June 13, 1949	EB11	1 ♂	W. K. Emerson and J. Barnard, coll.
Bluffs N of Whitesboro Cove	shore	July 9, 1949	EB37	1 ♂	W. K. Emerson and J. Barnard, coll.
Sonoma County					
E beach N of Russian River	shore	Dec. 28, 1948	1673-48	1 ♂	R. J. Menzies, coll.
E beach N of Russian River	shore	Feb. 11, 1950	M116	1 ♂	L. O. Miles, coll.
Horseshoe Cove, 2 mi N of Bodega Head	shore	Dec. 29, 1948	1674-48	1 ♀	R. J. Menzies, coll.
Bodega Lagoon		Aug. 12, 1949	M67	1 ♂	L. O. Miles and W. K. Emerson, coll.
Outer Bodega Bay adjacent to Doran Spit		July 26, 1949	M63	1 ♀	L. O. Miles and W. K. Emerson, coll.
Marin County					
Tomales Point	shore	Aug. 5, 1948	1608-48	2 ♂	R. J. Menzies, coll.
Tomales Point	shore	Nov. 28, 1948	1656-48	1 ♀ ov	R. J. Menzies, coll.
Tomales Bluff	shore	Nov. 2, 1948	1628-48	3 ♀ ov	R. J. Menzies, coll.
Monterey County					
Monterey Bay		May 14, 1930		1 ♀	G. E. MacGinitie, coll., Hopkins Marine Station
Off Del Monte	6-8	Sept. 7, 1931		6 ♂	G. E. MacGinitie, coll., Hopkins Marine Station
Near bell buoy	20	June 27, 1932		3 ♂	G. E. MacGinitie, coll., Hopkins Marine Station
Monterey Point Pinos	shore	Aug. 18, 1940	B40128	1 ♀ ov	Hopkins Marine Station
		Dec. 26, 1947		1 ♂	Burch, coll. Barnard and Worden, coll.
Off Point Pinos	shore	Dec. 21, 1932		6 ♂	G. E. MacGinitie, coll., Hopkins Marine Station
Off Point Pinos	shore	Feb. 4, 1947	1588-47	5 ♂	G. E. MacGinitie, coll., Hopkins Marine Station
Kasler Point	shore	Feb. 3, 1947	1587-47	2 ♀ yg	

Pacific Grove											I. McCulloch, coll.
Big Sur	shore										
		Apr. 1, 1928									
		Feb. 6, 1947	1592-47	2 ♂						1 ♀	
										1 ♀	
San Luis Obispo County											
Piedras Blancas	shore	Mar. 31, 1947	1598-47	1 ♂						4 ♀	
Leflingwell Landing	shore	Jan. 5, 1947	1581-47							2 yg	
5 mi N of Cayucos	shore	Dec. 8, 1946	1576-46	2 ♂						3 yg	
	shore	Jan. 4, 1947	1580-47							(8 ov)	
										1 ♀	
Santa Barbara County											
6.7 mi off Surf	shore	Dec. 7, 1946	1575-46							1 ♀	
Stevens Wharf, Santa Barbara	shore	Apr. 25, 1947	H47-74	1 ♂							
Off Point Santa Barbara	33	Sept. 13, 1938	897-38	2 ♂							C. L. Hubbs, coll.
Northern Channel Islands											
San Miguel Island											
1 mi S of Cardwell Point	15-24	Sept. 16, 1941	1414-41	1 ♂						2 ♀	
1½ mi SW of Judith Rock	44-48	Sept. 16, 1941	1411-41	1 ♂ yg							
S of San Miguel Island	5-15	Aug. 10, 1938	894-38	10 ♂						3 yg	
San Miguel Passage	37-39	Aug. 4, 1939	990-39	1 ♂						2 ♀	
Santa Rosa Island											
Bechers Bay	10	Aug. 2, 1938	881-38	1 ♂						2 ♀	
Bechers Bay	14	Aug. 18, 1939	1003-39	1 ♂							
1 mi S of East Point	15-16	Apr. 10, 1941	1284-41	1 ♂						3 ♀	
2¼ mi E of South Point	23-28	Apr. 10, 1941	1283-41	3 ♂							
2½ mi E of South Point	15-21	Apr. 10, 1941	1280-41	1 ♂ yg							
2½ mi E of South Point	17-18	Apr. 10, 1941	1282-41	3 ♂						1 ♀	
3 mi E of South Point	23-26	Apr. 10, 1941	1281-41							1 ♀ ov	
3 mi E of South Point	17-20	Sept. 15, 1941	1410-41	4 ♂						4 ♀	
Santa Cruz Island											
Santa Cruz Island	shore	Sept. 16, 1933		1 ♂						2 ♀	
		Oct. 29, 1940	1189-40	2 ♂						(1 ov)	
N of Santa Cruz Island	53	Sept. 14, 1938	898-38							1 ♀ yg	
Forings Cove		Sept. 16, 1933									
Fraser Point	shore	Apr. 28, 1947	H47-88	1 ♂							
				1 ♂							

PUGETIA RICHI (cont.)		Date	Sta.	Number and Sex	Remarks
Locality	Fms.				
California (cont.)					
Northern Channel Islands (cont.)					
Santa Cruz Island (cont.)		Oct. 30, 1940	1193-40	1 ♀	
Willow Anchorage	shore	Dec. 30, 1948	1664-48	3 ♀ (1 ov)	5 yg
Smugglers Cove	shore	Dec. 29, 1948	1660-48		1 yg
Smugglers Cove	shore	Jan. 30, 1949	1666-49		1 yg
W end, Santa Cruz Island	shore	Apr. 27, 1947	H47-77	1 ♀	C. L. Hubbs, coll.
E of Gull Island	6-10	Oct. 31, 1940	1197-40	6 ♀ (2 ov)	2 yg
Ventura County					
12 mi N of Ventura	shore	Dec. 9, 1946	1577-46	1 ♀	
Outer end Mugu Lagoon	shore	Sept. 14, 1940		1 ♂	
Los Angeles County					
Venice		Jan. 24, 1913		2 ♀ (1 ov)	
Palos Verdes		Dec. 24, 1939	B3962	2 ♀ (1 ov)	Burch, coll.
Palos Verdes drive near Bluff Cove	shore	Nov. 11, 1946	1573-46	1 ♀	
2 mi SxE from Playa del Rey	20	Aug. 8, 1913	O140	2 ♀ ov	
Off Portuguese Point	16-20	May 6, 1940	1143-40	1 ♀	
Portuguese Bend	shore	Nov. 21, 1938	902-38	1 ♀	
Portuguese Bend	shore	Nov. 10, 1939	1013-39		
Point Fermin	shore	Nov. 30, 1940	1216-40	1 ♂	
Off San Pedro	10-13	April 1948		2 ♀	
San Pedro breakwater	shore	Jan. 26, 1941	1230-41	1 ♀	K. O. Emery, coll.
2.3 mi S of breakwater light	12-14.5	Nov. 6, 1949	1910-49	1 ♀ ov	
Off Long Beach			D-4	2 ♂	
Orange County				1 ♂	<i>Anton Dolinn</i>
Newport Channel	shore	Jan. 25, 1941	1224-41	1 ♂	
Laguna Beach	shore	Nov. 30, 1940	1218-40	1 ♂	
Abalone Cove		Mar. 13, 1949		2 ♂	

San Diego County					
La Jolla					
Mission Bay		Nov. 1, 1949			
2¾ mi off Point Loma	9-13	Apr. 5, 1928		1 ♀	1 yg
Between Point Loma and Coronado Island	30	Feb. 23, 1941	1243-41	1 ♂	R. J. Menzies, coll.
Southern Channel Islands					
San Nicolas Island					
W of Dutch Harbor	8-9	Nov. 23, 1940	1204-40	2 ♂	
Santa Barbara Island					
N of Santa Barbara Island	25-27	May 28, 1939	976-39	2 ♂	
NW of Santa Barbara Island	10-30	May 28, 1939	980-39	1 ♂	
E of Santa Barbara Island	shore-40	Aug. 12, 1938	895-38	1 ♂	3 ♀
1 mi off east side	20-40	Sept. 15, 1941	1409-41	2 ♂	2 ♀
4 mi E of landing	40	Aug. 28, 1941	1398-41		1 yg
Santa Catalina Island					
Off Long Point	50	Aug. 13, 1939	1002-39	1 ♂	
White Cove	16-35	July 6, 1940	1155-40	1 ♂	
White Cove	2-3	Aug. 10, 1941	1382-41		1 yg
White Cove	14	Sept. 8, 1949	1905-49	2 ♂	
San Clemente Island					
Pyramid Cove	10	Nov. 25, 1939	1024-39	1 ♂	3 ♀
Lower California					
South Coronado Island					
E side, S of lighthouse	shore	Nov. 9, 1946	H46-125	1 ♂	1 ♀
Punta Banda	shore	Dec. 20, 1953		1 ♂	1 ♀
Mouth of Rio Santo Tomas	shore	Mar. 4, 1947	1595-47	1 ♂	
Mouth of Rio Santo Tomas	shore	Mar. 5, 1947	1596-47	1 ♂	
Punta Cabras	shore	June 28, 1946	H46-57a		2 ♀ (1 ov)
					C. L. Hubbs, coll. Emerson, Soule, Loring, coll. ♂ photo, Dawson and Durham, coll. Dawson and Durham, coll. C. L. Hubbs, coll.

PUGETTIA RICHI (cont.)		PUGETTIA GRACILIS DANA				
Locality	Fms.	Date	Sta.	Number and Sex	Remarks	
Lower California (cont.)						
Colnett Bay	5-6 shore	Mar. 2, 1949	1688-49	6 ♂	1 ♀	Kenyon-Williams Expedition
Geronimo Island		Apr. 12, 1946	M-5		1 ♀	
Alaska						
Atka Island	shore	July 10, 1932			1 ♀	W. J. Eyerdam, coll., C.A.S.
Unalaska	shore	June, 1932		2 ♂ yg		W. J. Eyerdam, coll., C.A.S.
Durch Harbor					1 ♀	H. Heath, coll., Hopkins Marine Station
British Columbia						
Vancouver Island, W coast	shore	June 26, 1934	2231-20	2 ♂		Prov. Mus.
South Bottle Island	shore	July 11, 1934	2231-30		1 ♀	Prov. Mus.
Nootka Sound Area						
Vancouver Island, E coast	shore	June 27, 1930			3 ♀	Prov. Mus.
False Narrows, S of Nanaimo	shore	July 18, 1940			3 ♀	G. E. and N. MacGinitie
False Narrows, S of Nanaimo				3 ♂		Hopkins Marine Station
Departure Bay					2 ♀ ov	
Washington						
San Juan County		1948		2 ♂		
Sucia Island						
Echo Bay		Aug. 11, 1948	1 ♂		3 ♀	J. L. Mohr, coll.

Waldron Island																		Carl Emmanuel, coll.
North Bay	6-8		Aug. 12, 1948		1 ♂													
Obstruction Pass	11		July 21, 1948		2 ♂													
Orcas Island																		
Deer Harbor			Aug. 13, 1949		3 ♂													<i>Hydah</i>
N of Roche Harbor and Pearl Island			Aug. 18, 1949		1 ♂													J. L. Mohr, coll.
San Juan Channel																		<i>Hydah</i>
By Point Caution cable crossing	60-62		Aug. 10, 1949							1 ♀								
Skagit County																		
Rosario Beach	shore		June 27, 1949		1 ♂													H. G. Coffin, coll.
Ship Harbor	6		Aug. 16, 1950		2 ♂					1 ♀								H. G. Coffin, coll.
Burrows Bay, Fidalgo Island	3-20		Aug. 17, 1950		2 ♂					6 ♀								H. G. Coffin, coll.
Green Point, Fidalgo Island			Aug. 21, 1949		1 ♂					1 ♀								H. G. Coffin, coll.
Puget Sound																		
Hein Bank or Middle Bank			Aug. 9, 1948		1 ♂													J. L. Mohr, coll.
Oregon																		
Boiler Bay	shore		July 14, 1942		1 ♂													
35 mi W of Depoe Bay	60-74		Aug. 7-10, 1942							2 ♀								
Agate Beach under Yaquina Head																		<i>Andrea</i>
Light	shore		July 13, 1942		1 ♂													
Cape Arago State Park																		
North Bay	shore		July 28, 1942															
Middle Bay	shore		July 1, 1942		1 ♂					1 ♀								
South Bay	shore		July 30, 1942		2 ♂					2 ♀								
Coos Bay	shore		July 12, 1942		1 ♂					2 ♀								
Coos Bay	shore		July 18, 1942							1 ♀ ov								
South slough, Charleston	1-2		July 10, 1942							1 ♀								
Fossil Point	shore		June 27, 1942		8 ♂					10 ♀								
Fossil Point	shore		Aug. 14, 1942		5 ♂					8 ♀								
Cape Arago Lighthouse, reef and bight	shore		July 29, 1942		2 ♂					4 yg								
Squaw Island off Cape Arago light	shore		July 27, 1942		3 ♂													
Sunset Bay, south side	shore		June 28, 1942		4 ♂					16 ♀								
										(14 ov)								♂ photo, pleopod

PUGETTIA GRACILIS (cont.)		Date	Sta.	Number and Sex	Remarks
Locality	Fms.				
California					
Sonoma County					
Stewart's Point		Nov. 8, 1950		1 ♀ ov	L. O. Miles, coll.
Bodega Lagoon	shore	Feb. 9, 1949	1796-49		1 yg
Campbell's Cove					
Boodega Bay	shore	Mar. 21, 1949	1814-49	1 ♀ ov	R. J. Menzies, coll.
North Jetty	shore	Mar. 22, 1949	1815-49	1 ♀ yg	R. J. Menzies, coll.
South Jetty	shore	Mar. 23, 1949	1816-49	1 ♀	R. J. Menzies, coll.
South Jetty	shore	Mar. 25, 1949	1818-49	3 ♀	R. J. Menzies, coll.
				(2 ov)	
Stemple Creek	shore	July 9, 1946		1 ♂	R. J. Menzies, coll.
Marin County					
Tomales Point	shore	Aug. 5, 1948	1608-48	1 ♂	R. J. Menzies, coll.
Monterey County					
Monterey Bay					
Off Del Monte	7			1 ♂	Hopkins Marine Station
TABLE 36					
PUGETTIA DALLI RATHBUN					
California					
Northern Channel Islands					
San Miguel Island					
1/2 mi E of Cardwell Point	20-21	Sept. 16, 1941	1415-41	1 ♀ ov	
1 mi S of Cardwell Point	15-24	Sept. 16, 1941	1414-41	1 ♀ ov	
S of San Miguel Island	5-15	Aug. 10, 1938	894-38	3 ♀	1 yg
				(1 ov)	
Santa Rosa Island					
Off Bechers Bay	16	Aug. 2, 1938	880-38	1 ♀ yg	
Off Bechers Bay	10	Aug. 10, 1939	995-39	1 ♀ ov	
Off Bechers Bay	14	Aug. 18, 1939	1003-39	1 ♂	
Off Bechers Bay	13-16	Aug. 18, 1939	1004-39	1 ♂	

2.6 mi E of East Point	47-49	Apr. 11, 1941	1289-41	1 ♂	2 ♀ ov	
1 mi S of East Point	15-16	Apr. 10, 1941	1284-41	2 ♂	1 ♀ ov	
2¼ mi E of South Point	23-28	Apr. 10, 1941	1283-41	1 ♂	3 ♀	
2½ mi E of South Point	15	Apr. 10, 1941	1280-41	3 ♂		
2½ mi E of South Point	17-18	Apr. 10, 1941	1282-41	1 ♂	3 ♀	
3 mi E of South Point	23-26	Apr. 10, 1941	1281-41	2 ♂	(1 ov)	
Santa Cruz Island	shore	Oct. 29, 1940	1189-40		1 ♀ ov	
Fraser Point	shore	Apr. 28, 1947	H47-89		1 ♀	C. L. Hubbs, coll.
3 mi S of Fraser Point	20-24	Apr. 11, 1941	1286-41	2 ♂		1 yg
E of Gull Island	21-28	May 28, 1939	978-39			
E of Gull Island	10	Oct. 31, 1940	1197-40	2 ♂	4 ♀	
Anacapa Island					(3 ov)	
¾ mi SE of Cat Rock	23-25	Mar. 16, 1941	1271-41		1 ♀ ov	
Los Angeles County						
Redondo Beach	shore	May 2, 12, 1940	B4053	1 ♂		Burch, coll.
Redondo Beach	10	May 5, 1940	1135-40	1 ♂		color note 464
Redondo Beach	11-20	May 6, 1940	1139-40	11 ♂	11 ♀	
Redondo Beach		June 15-16, 1940	B4076	14 ♂	(1 ov)	Burch, coll.
			4080		16 ♀	
			4081		(10 ov)	
Redondo Beach	10-25	June-July, 1940		1 ♂		Burch, coll.
Redondo Beach	shore	July 12-14, 1940	B40114	1 ♂	1 ♀ ov	Burch, coll.
Redondo Beach	10-20	Aug. 31, 1940		1 ♂	2 ♀ ov	Burch, coll.
Flat Rock Point	shore	Dec. 7, 1942	1459-42			1 yg
Palos Verdes Drive near Bluff Cove	shore	Nov. 11, 1946	1573-46		1 ♀	
Off Point San Vicente light	17-41	May 6, 1940	1142-40	1 ♂ yg		
Off Portuguese Point	16-20	May 6, 1940	1143-40	1 ♂	1 ♀	
Portuguese Bend	shore	Feb. 13, 1942	1446-42			1 yg
San Pedro breakwater	shore	Jan. 26, 1941	1230-41		1 ♀ ov	
5 mi 152° from San Pedro breakwater	18-19	Jan. 5, 1941	1232-41	2 ♂		

PUGETTIA DALLI (cont.)		Date	Sta.	Number and Sex	Remarks
Locality	Fms.				
California (cont.)					
Orange County					
Off Huntington Beach	4-20	Apr. 20, 1940	1127-40	1 ♀	
Newport Harbor	4-10	Apr. 20, 1940	1128-40	1 ♀	
Newport Harbor	shore	Mar. 13, 1942	1449-42	1 ♂	
Newport Harbor	shore	June 2, 1942	1451-42	3 ♀ ov	
Off Newport Inlet, ocean side	6-18	June 25, 1942	1453-42	5 ♀ (2 ov)	
Newport Channel, Balboa	shore	Jan. 25, 1941	1224-41	5 ♀ (2 ov)	♂ photo, pleopod
Newport Bay, Corona del Mar side	shore	Dec. 8, 1950	2000-50	1 ♀ ov	
Corona del Mar	shore	Nov. 18, 1941	1440-41	4 ♀ (2 ov)	
Corona del Mar	shore	Nov. 9, 1942	1457-42	1 ♂	
Arch Rock		Dec. 19, 1941	1443-41	1 ♀	
Off Abalone Point	28-29	Apr. 21, 1940	1130-40	1 ♂	
Off Abalone Point	54-57	Apr. 21, 1940	1131-40	1 ♂	
Abalone Cove		Mar. 13, 1949		1 ♂	
Laguna Beach	shore	Nov. 29, 1940	1209-40	1 ♂	
San Diego County					
2¾ mi off Point Loma	9-13	Feb. 23, 1941	1243-41	1 ♀ ov	
Southern Channel Islands					
San Nicolas Island					
Off San Nicolas Island	28-31	Apr. 12, 1940	1123-40	1 ♂	
S side San Nicolas Island	20-34	Nov. 24, 1940	1205-40	1 ♀ ov	
Santa Barbara Island					
E of Santa Barbara Island	shore-40	Aug. 12, 1938	895-38	1 ♀ ov	
E of Santa Barbara Island	25-27	May 27, 1939	975-39	1 ♂	
1 mi off E side	20-40	Sept. 15, 1941	1409-41	2 ♀ (1 ov)	
4 mi E of landing	40	Aug. 28, 1941	1398-41	1 ♀ ov	

Santa Catalina Island									
Off Goat Harbor	21	July 13, 1941	1365-41	1 ♂					
Long Point	shore	Nov. 30, 1948	1646-48	1 ♂					
Long Point to Willow Cove	30-45	Sept. 14, 1941	1407-41		1 ♀ yg				
Fourth of July Cove	shore	Mar. 4, 1950	1932-50	1 ♂					
White Cove	16-35	June 6, 1940	1155-40	2 ♂	1 ♀				
White Cove	14	Sept. 8, 1949	1905-49		1 ♀				1 yg
1/2 mi off	33-37	Aug. 9, 1941	1381-41		1 ♀ ov				
N side	shore	Sept. 14, 1941	1406-41		16 ♀				22 yg
1 mi NW	2-3	Aug. 4, 1941	1378-41	12 ♂	(10 ov)				
Off Willow Cove	15-25	July 11, 1941	1362-41		1 ♀				
1 mi E of Willow Cove	34-50	Sept. 13, 1941	1403-41	2 ♂	1 ♀				
Catalina Harbor	shore	Dec. 1, 1948	1652-48	1 ♂	1 ♀				
Off Howlands Landing	58-64	Sept. 10, 1940	1181-40		1 ♀ yg				
Avalon	shore	Dec. 27, 1940	1221-40	2 ♂					
Fishermans Cove	shore	Sept. 29, 1940		2 ♂	2 ♀ ov				1 yg
1 1/2 mi SE of W end	40-50	May 4, 1941	1311-41	1 ♂					
San Clemente Island									
NW anchorage		Aug. 12, 1933			1 ♀ ov				
Off Wilson Cove	52-61	Feb. 22, 1941	1239-41						1 yg
Off Pyramid Cove	35-46	Feb. 18, 1939	913-39	1 ♂					
Off Pyramid Cove	10	Nov. 25, 1939	1024-39		1 ♀ ov				1 yg
Lower California									
6.5 mi SW of San Carlos Point	20	Apr. 25, 1950	1944-50		1 ♀ ov				
Rosario Bay	10-15	Feb. 15, 1936	491-36		1 ♀ ov				
San Benito Islands									
Between S ends, East and West									
San Benito Islands	35	Sept. 19, 1939	1009-39	1 ♂					
1 mi S of San Benito Islands	34-44	Feb. 26, 1941	1249-41	1 ♂					
Cedros Island									
South Bay	10-15	Mar. 10, 1934	287-34	4 ♂					4 ♀ ov

PUGETTIA DALLI (cont.)		Date	Sta.	Number and Sex	Remarks
Lower California (cont.)					
3½ mi N of Navidad Island light	19-20	Mar. 6, 1949	1706-49	3 ♂ (2 ov) 9 ♀ (8 ov)	1 yg
¾ mi NNW of San Eugenio Point	20	Mar. 5, 1949	1702-49	2 ♂	
Dewey Channel opposite San Eugenio Point	21-24	Feb. 27, 1941	1260-41	1 ♂	
1.1 mi NNE of Kelp Point, Punta San Bartolomé	shore	Feb. 11, 1954	2603-54	1 ♂	
Off Cape Tortolo	1-4	Mar. 6, 1949	1707-49	4 ♂	
Off Thurloe Head	8-10	Mar. 9, 1934	283-34	4 ♂ (1 ov)	det. M. J. Rathbun
TABLE 37					
PUGETTIA HUBBSI, NEW SPECIES					
Lower California		Dec. 9, 1946	H46-158	1 ♀	
Guadalupe Island		Dec. 18, 1949	1917-49	2 ♀ (1 ov)	C. L. Hubbs, coll. plus 1 cheliped
Barracks Beach, 200 yds N	shore			2 ♀ ov	
2¼ mi N of South Bluff	shore	Dec. 19, 1949	1923-49	2 ♀ (1 ov)	1 yg
2.8 mi 35° from South Bluff	40	Dec. 19, 1949	1922-49	2 ♂	1 yg
Melpomene Cove	shore	Dec. 7, 1946	H46-144	1 ♂	♂ holotype, pleopod, ♀ ov
Melpomene Cove	shore	Dec. 9, 1946	H46-158A	1 ♀	allotype, AHF 496
Melpomene Cove	shore	Dec. 17, 1949	1912-49	2 ♀	C. L. Hubbs, coll.
Melpomene Cove	34-36	Dec. 19, 1949	1919-49	5 ♀ (4 ov)	C. L. Hubbs, coll.
Melpomene Cove at landing	shore	Dec. 18, 1949	1915-49	1 ♂	2 yg
Between Melpomene Cove and inner island	shore	Dec. 7, 1946	H46-145	1 ♂ yg	C. L. Hubbs, coll.
Between Melpomene Cove and inner island	5-15	Dec. 18, 1949	1914-49	1 ♂	
S end Melpomene Cove	40-45	Feb. 2, 1950	H50-42	5 ♂	2 ♀
From between Inner and Outer Islands, toward Melpomene Cove		Dec. 8, 1946	H46-152	1 ♂	1 yg C. L. Hubbs, coll.

TABLE 38
 PUGETTIA VENETIAE RATHBUN

California									
5 mi 152° from San Pedro breakwater	17-19	Feb. 15, 1941	1232-41	1 ♂					
Tanner Bank	38-40	June 10, 1941	1340-41	1 ♂					
Santa Barbara Basin	321	June 14, 1949	1856-49		1 ♀				2 yg
Santa Barbara Basin	45-46	June 11, 1941	1348-41	1 ♂	1 ♀				1 yg
Channel Islands									
S of San Miguel Island	5-15	Aug. 10, 1938	894-38	1 ♂					
Santa Rosa Island									
4½ mi NE of Sandy Point	35-36	Sept. 16, 1941	1417-41		1 ♀				
Santa Cruz Island									
Santa Cruz Channel	32-34	Aug. 18, 1939	1005-39	1 ♂					
Anacapa Island									
N of Anacapa Island	15	Aug. 1, 1938	878-38	1 ♂					
Anacapa Passage	15-50	Oct. 30, 1940	1190-40		1 ♀ ov				
San Nicolas Island									
Outside of Anchorage	30	Apr. 11, 1940	1122-40						3 yg
Off San Nicolas Island	28-31	Apr. 12, 1940	1123-40	1 ♂	1 ♀				10 yg
Santa Barbara Island									♂ pleopod
N of Santa Barbara Island	37-40	Sept. 9, 1940	1177-40		2 ♀				♀ photo
E of Santa Barbara Island	shore-40	Aug. 12, 1938	895-38	2 ♂	(1 ov)				
Santa Catalina Island									
2 mi SE of Long Point	47	Sept. 8, 1941	1399-41	1 ♂					
Long Point to Willow Cove	30-45	Sept. 14, 1941	1407-41	1 ♂					
White Cove	16-35	July 6, 1940	1155-40						1 yg
½ mi off White Cove	33-37	Aug. 9, 1941	1381-41	1 ♂					
1 mi E of Willow Cove	34-50	Sept. 13, 1941	1403-41						1 yg
San Clemente Island									
Off Pyramid Cove	35-46	Feb. 18, 1939	913-39	1 ♂	1 ♀				

PUGETIA VENETIAE (cont.)		Date	Sta.	Number and Sex	Remarks
Locality	Fms.				
Lower California					
Cortes Bank	15-20	Aug. 27, 1949	1889-49	1 ♂	
Center of Cortes Bank	45-46	June 11, 1941	1347-41	1 ♀	
11 mi NW of buoy	20	Apr. 25, 1950	1944-50	1 ♂	
6.5 mi SW of San Carlos Point					
Guadalupe Island					
2.8 mi 35° from South Bluff	40	Dec. 19, 1949	1922-49	2 ♀	
Melpomene Cove		Jan. 29, 1950	H50-32	5 ♀ ov	
S end, Melpomene Cove	40-45	Feb. 2, 1950	H50-42	7 ♀	
8 mi W of Cedros Island	64-65	Feb. 26, 1941	1253-41	1 ♀	
					3 yg
					C. L. Hubbs, coll.
					C. L. Hubbs, coll.
TABLE 39					
TALIEPUS NUTTALLI (RANDALL)					
California					
Los Angeles County					
Venice breakwater		Apr. 26, 1912		1 ♂	
Flat Rock Point	shore	Nov. 18, 1941	1437-41	4 ♂	
Portuguese Bend				1 ♂	
Point Fermin		June 9, 1926		1 ♂	
Point Fermin	shore	Nov. 1937		1 ♂	
Orange County					
3 mi off Seal Beach	11	July 7, 1940	1158-40	1 ♂ yg	
San Diego County					
Oceanside	shore	Aug. 20, 1933		1 ♀	
Channel Islands					
Santa Catalina Island					
W shore, Isthmus Cove		Mar. 29, 1915		1 ♀	
2 mi SE of Long Point	47	Sept. 8, 1941	1399-41		
Long Point to Willow Cove	30-45	Sept. 14, 1941	1407-41	2 ♀ yg	
					1 yg

N side, White Cove	Sept. 14, 1941	1406-41	5 ♂	2 ♀	4 yg	
1 mi NW of White Cove	Aug. 4, 1941	1378-41			7 yg	
½ mi off White Cove	Aug. 9, 1941	1381-41			2 yg	
White Cove	July 18, 1941	1367-41	1 ♂		2 yg	
White Cove	July 20, 1941	1370-41			2 yg	
1 mi E of Willow Cove	Sept. 13, 1941	1403-41	1 ♂ yg			
Fishermans Cove	Aug. 29, 1940					
Lower California						
South Coronado Island						
E side, S of lighthouse	Nov. 9, 1946	H46-125	1 ♂	1 ♀		C. L. Hubbs, coll.
Guadalupe Island						
Barracks Beach, 200 yds N	Dec. 18, 1949	1917-49			1 yg	
2¼ mi N of South Bluff	Dec. 19, 1949	1923-49	1 ♂	1 ♀		
2¼ mi N of South Bluff	Dec. 20, 1949	1928-49	1 ♂			
Melpomene Cove	Dec. 7, 1946	H46-144		1 ♀		C. L. Hubbs, coll.
Melpomene Cove	Dec. 17, 1949	1912-49		3 ♀		
Melpomene Cove	Jan. 29, 1950	H50-32	1 ♂			C. L. Hubbs, coll.
Between Melpomene Cove and Inner Island	Dec. 18, 1949	1914-49			2 yg	
West San Benito Island						
Reef at E end of N shore	Feb. 5, 1950	H50-51		1 ♀		C. L. Hubbs, coll.
N end of Cedros Island	Mar. 5, 1949	1698-49		1 ♀ ov		
Turtle Bay						
Off Cape Tortolo	Mar. 6, 1949	1707-49	1 ♂			
San Hipolito Bay	Apr. 5, 1949	1789-49	1 ♂			
Magdalena Bay						
Entrada Point	Mar. 8, 1949	1713-49	1 ♂			
Entrada Point	May 2, 1950	1961-50	2 ♂ yg		1 yg	

TABLE 40
TALIEPUS DENTATUS (MILNE EDWARDS)

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Chile					
Montemar, N of Valparaiso	shore		M123	1 ♀ ov	L. U. C. E. lacks rostrum
Bahía San Vicente, Concepción	shore	June 8, 1949	M120	2 ♂	
SE of Punta Gualpén	shore	June 9, 1949	M121	13 ♂ 11 ♀	size small
Punta Liles, W of San Vicente					
Golfo de Arauco					
Bahía de Lota, SE of Punta Fuerte Viejo	shore	June 10, 1949	M122		1 yg
Seno Reloncaví, Chiloe					
Piedra Azul, NE of Punta Quilliape	40-55 m	Apr. 15, 1949	M16G	1 ♂	size large
Canal Chacao, Chiloe					
Punta Corona, Península Laqui	shore	Feb. 26, 28, 1949	M56, M56A	4 ♂ 3 ♀	12 yg
Bahía de Ancud, Chiloe					
Punta Ahui, Península Lacui	shore	Mar. 1, 1949	M57		2 yg
SE of Punta Ahui	8 m	May 5, 1949	M98	1 ♂	photo ♂
Between Punta San Antonio and Punta Colorada	shore	Feb. 25-27, Mar. 7, 1949	M55		2 ♀
Punta El Morro	shore	Mar. 2, 1949	M10F	1 ♂	1 ♀ 2 yg
Golfo de Quetalmahue					
Isla Pullinque, N of Punta Rangui		Nov. 17, 1948	M8A	1 ♀	
Port Otway, Magallanes		Feb. 9-10, 1888	<i>Albatross</i>	1 ♂	1 ♀ USNM 21903, ♂ pleopod

TABLE 41
TALIEPUS MARGINATUS (BELL)

Peru							
North Chincha Island	shore	Feb. 11, 1938	837-38	1 ♂			
Independencia Bay	5	Jan. 12, 1935	371-35	1 ♂		photo	
E of Vieja Island	shore	Feb. 8, 1938	828-38	1 ♂	1 ♀ ov		
San Juan Bay	shore	Feb. 7, 1938	825-38		1 ♀		
San Juan Bay							
Chile							
Iquique, S of town	shore	July 1, 4, 6, 1949	M131		1 yg	5.5 mm, L.U.C.E.	
Montemar (N of Valparaiso)	shore	various dates, 1949	M123	1 ♂	2 ♀ ov	♂ large, pleopod, L.U.C.E.	

TABLE 42

SPHENOCARCINUS AGASSIZI RATHBUN

Gulf of California							
Angel de la Guarda Island	78-90	Jan. 28, 1940	1054-40	1 ♂			
Puerto Refugio	60	Mar. 12, 1936	572-36		1 ♀	♂ photo, pleopod	
N of San Pedro Nolasco Island	51-54	Jan. 21, 1940	1037-40	1 ♂	2 yg	det. M. J. Rathbun	
Boca de la Trinidad							
Costa Rica							
Cocos Island							
Off Nuez Island	31-50	Jan. 13, 1938	772-38	1 ♂	1 ♀ ov		
Panama							
Bahia Honda							
Off Medidor Island	30-35	Mar. 28, 1939	948-39	2 ♂	1 ♀ ov		

TABLE 43
ACANTHONYX PETIVERI MILNE EDWARDS

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Lower California					
Santa Maria Bay	shore	Mar. 21, 1933	127-33	1 ♀ yg	
Magdalena Bay					
Entrada Point	shore	May 2, 1950	1961-50	2 ♂	
Gulf of California					
Bahia de La Paz	shore	Nov. 10-11, 1946	D54	1 ♂	E. Y. Dawson, coll.
Punta Palmilla near San Jose del Cabo	shore	Nov. 7, 1946	D49	2 ♀ (1 ov)	E. Y. Dawson, coll.
Cabeza Ballena	shore	Nov. 9, 1946	D53	8 ♂ 9 ♀ (5 ov)	E. Y. Dawson, coll.
Revilla Gigedo Islands					
San Benedicto Island	surf	Apr. 17, 1935		1 ♀ ov	E. Y. Dawson, coll.
Clarion Island					
Sulphur Bay	shore	Jan. 5, 1934	140-34	1 ♂	
Mexico					
Sinaloa					
2 mi N of Mazatlan	shore	Dec. 8, 1946	D71	1 ♂	
Tres Marias Islands					
Magdalena Island	3-5	May 9, 1939	971-39	2 ♂	
Guerrero					
Acapulco, base of San Lorenzo Reef	shore	Sept. 3, 1946	1552-46	1 ♀ ov	C. L. Hubbs, coll.
Acapulco		Feb. 2, 1947	D123	4 ♀ ov	E. Y. Dawson, coll.
Ecuador					
Cape San Francisco	2	Feb. 11, 1934	214-34	1 ♂	
Off beach at La Libertad	4	Jan. 19, 1933	12-33	1 ♂	
Santa Elena Bay					
Off La Playa		Jan. 20, 1933	14-33	2 ♂	
				1 yg	

Santa Elena Point	shore	Sept. 17, 1926		1 ♂	3 ♀ (1 ov) 1 ♀ yg	USNM 61571 W. L. Schmitt USNM 70937 W. L. Schmitt USNM 70936 W. L. Schmitt
Santa Elena Point	shore	Sept. 16, 1926				
Salinas		Sept. 12, 1926			2 ♀ (1 ov)	
Peru						
9½ mi SW of Zorritos Light	shore	Feb. 16, 1938	847-38	2 ♂ yg		USNM 81363
Negritos		Sept. 7, 1939		2 ♂	1 ♀	H. E. and D. L. Frizzel
Sechura Bay	9.5	Feb. 15, 1938	845-38	10 ♂	5 ♀	
Paita		October 1926		1 ♂		
Paita		Oct. 6, 1926		7 ♂	15 ♀ (13 ov)	USNM 71019 W. L. Schmitt USNM 70935 W. L. Schmitt USNM 71017 W. L. Schmitt USNM 71018 W. L. Schmitt USNM 76569 W. L. Schmitt USNM 71016 W. L. Schmitt
Paita		Oct. 6, 1926				3 yg
Paita		Oct. 7, 1926		2 ♂	4 ♀ ov	
Paita		Oct. 8, 1926		1 ♂		
Paita		Oct. 13, 1926		1 ♂	1 ♀	
Lobos de Afuera Islands	shore	Jan. 17, 1935	391-35	19 ♂	14 ♀ (5 ov)	USNM 61570 W. L. Schmitt USNM 73381 W. L. Schmitt
Lobos de Afuera Islands	14-16	Jan. 17, 1935	395-35		1 ♀	
Salaverry		Oct. 21, 1926		1 ♂	1 ♀ ov	
Salaverry		Oct. 21, 1926		1 ♂		
Off Lorenzo Island	3	Jan. 10, 1935	364-35	2 ♂	2 ♀ ov	USNM 71020
Off Lorenzo Island		Nov. 3, 1926		6 ♂	7 ♀ (5 ov)	W. L. Schmitt USNM 61497 W. L. Schmitt
Off Lorenzo Island		Nov. 3, 1926			1 ♀	

ACANTHONYX PETIVERI (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Peru (cont.)					
Off Lorenzo Island		Nov. 7, 1926		1 ♂	USNM 61498 W. L. Schmitt
Independencia Bay	shore	Jan. 14, 1935	380-35	1 ♀ ov	
Independencia Bay	5	Jan. 14, 1935	382-35	1 ♀	
Independencia Bay	5	Jan. 14, 1935	384-35	1 ♂	
Independencia Bay	10	Feb. 9, 1938	829-38	1 ♂	color sketch
Independencia Bay	10	Feb. 10, 1938	832-38	1 ♂	
E of Vieja Island	5	Jan. 12, 1935	371-35	1 ♂	
Off Vieja Island	12	Jan. 12, 1935	374-35	1 ♂	♂ photo, pleopod
TABLE 44					
EPIALTUS MINIMUS LOCKINGTON					
Lower California					
Lagoon Head anchorage	17	Mar. 1, 1937	613-37	1 ♂	
Gulf of California					
Angel de la Guardia Island					
Puerto Refugio	shore	Jan. 27, 1940	1049-40	1 ♂	
Puerto Refugio	shore	Jan. 28, 1940	1053-40	1 ♀ yg	
Tiburon Island					
Agua Dulce Bay	shore	June 15-20, 1951		2 ♂	Wm. N. Smith II, coll.
S of Tiburon Island	shore	Jan. 24, 1940	1042-40	3 ♂	
S of Tiburon Island	shore	Jan. 25, 1940	1045-40	1 ♂	♂ photo, pleopod
Guaymas, Sonora					
N of Cabo Arco	shore	May 15, 1946	1513-46	2 ♀ ov	
Bahía Catalina	shore	Feb. 9, 1940	1092-40	1 ♂	
Playa Miramar, Sonora	shore	Nov. 22, 1946	D58	2 ♂	E. Y. Dawson, coll.

Off Concepción Bay	12	Mar. 15, 1937	683-37		2 ♀		
Agua Verde Bay	shore	Feb. 12, 1940	1104-40		1 ♀		
Agua Verde Bay	shore	Mar. 16, 1949	1740-49	1 ♂	3 ♀		
					(1 ov)		
Espíritu Santo Island							
S of Ballenas Bay	shore	Feb. 22, 1936	510-36	1 ♂			
San Gabriel Bay	shore	Mar. 6, 1937	634-37		1 ♀		
San Gabriel Bay	shore	Mar. 7, 1937	638-37		1 ♀		
Bahía de la Paz	shore	Nov. 10-11, 1946	D54		1 ♀ ov		E. Y. Dawson, coll.
Mexico							
Tenacatita Bay							
Cove W of Squall Point	0-4	Feb. 5, 1954	2600-54		1 ♀ yg		
Acapulco		Feb. 3, 1947	D126	1 ♂			E. Y. Dawson, coll.
TABLE 45							
EPIALTUS SULCIROSTRIS STIMPSON							
Gulf of California							
San Marcos Island	shore	June	1921		1 ♂		
Punta Palmilla near San Jose del Cabo	shore	Nov. 7, 1946	D49		1 ♀		pleopod, Johnson and Baker, coll., C.A.S.
Cabeza Ballena	shore	Nov. 9, 1946	D53	1 ♂	1 ♀		E. Y. Dawson, coll.
Cabeza Ballena	shore	Mar. 11, 1949	1727-49		1 ♀		E. Y. Dawson, coll. photo
TABLE 46							
EPIALTOIDES HILTONI (RATHBUN)							
California							
Santa Catalina Island							
1 mi NW of White Cove	2-3	Aug. 4, 1941	1378-41		2 ♀		
La Jolla	shore	Nov. 17, 1941	M139	1 ♂	(1 ov)		pleopod, R. J. Menzies, coll.

EPIALTOIDES HILTONI (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Lower California					
Guadalupe Island					
Barracks Beach, 200 yds N	shore	Dec. 18, 1949	1917-49	4 ♂	2 yg
2¼ mi N of South Bluff	shore	Dec. 20, 1949	1928-49		2 yg
W side of Middle San Benito Island	shore	May 8, 1950	1976-50	1 ♂	
Cedros Island					
N end, Cedros Island	shore	Oct. 30, 1951	2063-51	1 ♂	1 ♀ ov
South Bay	shore	Apr. 19, 1951	2027-51	1 ♂	
Magdalena Bay					
Entrada Point	shore	Mar. 8, 1949	1713-49	4 ♂	1 ♀
Entrada Point	shore	May 2, 1950	1961-50	4 ♂	4 ♀
					♂ photo
TABLE 47					
EPIALTOIDES PARADIGMUS, NEW SPECIES					
Gulf of California					
Sonora					
Punta Cholla	shore	Apr. 13, 1940		1 ♂	1 ♀
Angel de la Guarda Island					
Puerto Refugio	shore	Jan. 28, 1940	1053-40	1 ♂	2 ♀ (1 ov)
Turner's Island	shore	Jan. 24, 1940	1042-40	1 ♂	
Mexico					
Tres Marias Islands					
Magdalena Island	13	May 9, 1939	970-39	1 ♂	pleopod

♂ photo, illus., holotype,
AHF 404, S. A. Glassell,
coll.

TABLE 48
EUPLEURODON TRIFURCATUS STIMPSON

Gulf of California Cabeza Ballena	shore	Nov. 9, 1946	D53	1 ♀ ov	E. Y. Dawson, coll.
Mexico Acapulco, Guerrero	shore	Feb. 2, 1947	D123	1 ♀ ov	E. Y. Dawson, coll.
Ecuador Manta	shore	Jan. 20, 1935	403-35	1 ♀	illustrated

TABLE 49
EUPLEURODON PERUVIANUS (RATHBUN)

Ecuador Salinas	shore	Sept. 2, 1926		1 ♀ ov	USNM 70939 W. L. Schmitt
Salinas	shore	Sept. 13, 1926		1 ♀ ov	USNM 61502 W. L. Schmitt
Santa Elena Point	shore	Sept. 16, 1926	1 ♂		USNM 70938 W. L. Schmitt,
S side	shore	Sept. 17, 1926	5 ♂	6 ♀	photo, pleopod USNM 61503
S side	shore	Sept. 17, 1926		1 ♀ yg	W. L. Schmitt USNM 70940 W. L. Schmitt
Peru Lobos de Afuera Islands	shore	Jan. 17, 1935	391-35	1 ♀	
Callao Bay San Lorenzo Island	shore	Nov. 3, 1926	1 ♂		USNM 61504 W. L. Schmitt

TABLE 50
SCYRA ACUTIFRONS DANA

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
British Columbia					
Vancouver Island, W coast	shore	June 26, 1934	2231-20	2 ♀ ov	Prov. Mus.
South Bortle Island	shore	July 11, 1934	2231-30	1 ♂	Prov. Mus.
Bajo Point, Nootka Island					
Vancouver Island, E coast	7-12	Aug. 30, 1934		1 ♀	Prov. Mus.
Gabriola Pass, S of Nanaimo					
Burrard Inlet	22	June 27, 1929		1 ♀ ov	Prov. Mus.
Berry Point					
Washington					
		1948		1 ♂	
San Juan County					
Obstruction Pass	11	July 21, 1948		5 ♂	
Orcas Island					
Deer Harbor		Aug. 13, 1949		1 ♀	<i>Hydrah</i>
East Sound		Aug. 19, 1948		1 ♀	D. L. Kay, J. L. Mohr, coll.
San Juan Channel					
By Point Caution cable crossing	60-62	Aug. 10, 1949		1 ♀	<i>Hydrah</i>
Puget Sound		Aug. 19, 1949		1 ♂	J. L. Mohr, coll.
Hein Bank or Middle Bank		Aug. 9, 1948		1 ♂	J. L. Mohr, coll.
Oregon					
Cape Arago State Park					
South Bay	shore	July 30, 1942	1492-42	1 ♀	
Coos Bay					
Fossil Point	shore	June 27, 1942	1463-42		1 yg old submerged jetty
Fossil Point	shore	Aug. 14, 1942	1501-42		1 yg old breakwater jetty
Squaw Island off Cape Arago Light	shore	July 27, 1942	1488-42	1 ♂	
Sunset Bay, S side	shore	July 28, 1942	1464-42	1 ♂ yg	pleopod, photo

California												
Mendocino County												
Cormorant Cove	shore	June 26, 1949	EB21	2 ♂	1 ♀	1 yg	W. K. Emerson, J. L. Barnard					
Cormorant Cove	shore	June 27, 1949	EB22		1 ♀		W. K. Emerson, J. L. Barnard					
Salmon Point	shore	June 11, 1949	EB9	2 ♂	1 ♀		W. K. Emerson, J. L. Barnard					
Sonoma County												
Shell Beach	shore	Feb. 2, 1950	M110		1 ♀		L. O. Miles, coll.					
East Beach N of Russian River	shore	Jan. 12, 1949	1676-49	1 ♂			R. J. Menzies, coll.					
Horseshoe Cove	shore	Dec. 13, 1948	1669-48	1 ♂			R. J. Menzies, coll.					
Bodega Bay	shore	Mar. 24, 1949	1817-49		1 ♀ yg		R. J. Menzies, coll.					
South Jetty	shore	Mar. 25, 1949	1818-49	1 ♂	2 ♀ ov		R. J. Menzies, coll.					
South Jetty	shore											
Marin County												
Tomales Point	shore	Nov. 28, 1948	1656-48	1 ♂			L. Miles and R. J. Menzies, coll.					
Cordell Bank	22	Aug. 18, 1940	315		1 ♀		N. B. Scofield CAS loc. 31180					
Monterey County												
Monterey	shore	Aug. 18, 1940	B40128	5 ♂	8 ♀ (2 ov)	1 yg	Burch, coll.					
Monterey Bay	shore			6 ♂	5 ♀		Hopkins Marine Station					
Monterey Bay	10			10 ♂	4 ♀ (2 ov)		Hopkins Marine Station					
Monterey Bay	12	June 5, 1922			2 ♀ (1 ov)		A. G. Smith and Farber, coll., Hopkins Marine Station					
Monterey Bay		Apr. 14, 1930		1 ♂		1 yg	G. E. MacGinitie, coll., Hopkins Marine Station					
Monterey Bay	20	June 27, 1932		1 ♂	2 ♀ (1 ov)		Hopkins Marine Station					
Near mouth of Salinas River	10-13	Aug. 8, 1938	888-38	1 ♂								

SCYRA ACUTIFRONS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
California (cont.)					
Monterey County (cont.)					
Point Pinos	shore	Feb. 4, 1947	1588-47	2 ♀	
SW of Point Pinos	26	Aug. 8, 1938	891-38	2 ♀	
Kasler Point	shore	Feb. 3, 1947	1587-47	1 ♂	
Big Sur	shore	Feb. 6, 1947	1592-47		1 yg
San Luis Obispo County					
5 mi N of Cayucos	shore	Dec. 8, 1946	1576-46	2 ♂	
Cayucos	shore	Jan. 3, 1947	1579-47	1 ♀ ov	
San Luis Obispo Bay	8-14	Aug. 4, 1938	885-38	4 ♀	
Northern Channel Islands					
San Miguel Island					
2½ mi NE of Cardwell Point	23-30	Sept. 16, 1941	1416-41	1 ♂	2 yg
Off Tyler Bight	15	Aug. 3, 1938	882-38	1 ♂ yg	
S of San Miguel Island	5-15	Aug. 10, 1938	894-38	12 ♂	3 yg
San Miguel Passage					
San Miguel Passage	18-19	Aug. 4, 1939	991-39	1 ♀	1 yg
San Miguel Passage		Apr. 30, 1947	H47-96a		C. L. Hubbs, coll.
Santa Rosa Island					
Bechers Bay	10	Aug. 2, 1938	881-38		2 yg
Bechers Bay	10	Aug. 10, 1939	995-39	2 ♂	2 ♀ ov
Bechers Bay	14	Aug. 18, 1939	1003-39	1 ♂	
Bechers Bay	13-16	Aug. 18, 1939	1004-39	1 ♂	4 ♀
					(2 ov)
1 mi S of East Point	15	Apr. 10, 1941	1284-41	5 ♂	2 ♀
2½ mi E of South Point	15	Apr. 10, 1941	1280-41	7 ♂	5 ♀
					(1 ov)
2½ mi E of South Point	17-18	Apr. 10, 1941	1282-41	1 ♂	1 ♀ ov
3 mi E of South Point	23-26	Apr. 10, 1941	1281-41	1 ♂	

SCYRA ACUTIFRONS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
California (cont.)					
San Diego County					
Mission Bay		1929		1 ♂	R. Morrison, coll.
Southern Channel Islands					
San Nicolas Island					
Dutch Harbor	15-22	Dec. 12, 1940	1219-40	1 ♀	
W of Dutch Harbor	8-9	Nov. 23, 1940	1204-40	1 ♀	
Off San Nicolas Island	28-31	Apr. 12, 1940	1123-40	1 ♂	
S side San Nicolas Island	20-34	Nov. 24, 1940	1205-40	1 ♀	
Santa Barbara Island					
E of Santa Barbara Island	25-27	May 27, 1939	975-39	1 ♂	
1 mi off E side	20-40	Sept. 15, 1941	1409-41	1 ♀	2 YG
4 mi E of landing	40	Aug. 28, 1941	1398-41	1 ♂	1 YG
Santa Barbara Basin	321	June 14, 1949	1856-49	6 ♂	4 YG station data in error
Santa Catalina Island					
E of Long Point	35-46	July 5, 1940	1153-40	1 ♀	
Long Point to Willow Cove	30-45	Sept. 14, 1941	1407-41	2 ♀	
White Cove	16-35	July 6, 1940	1155-40	1 ♂ YG	
White Cove	12	Oct. 17, 1948	1621-48		1 YG
Off Willow Cove	15-25	July 11, 1941	1362-41	1 ♀	
0.2 mi NE of Willow Cove	21	Aug. 25, 1949	1870-49	1 ♀ ov	
1 mi E of Willow Cove	34-50	Sept. 13, 1941	1403-41		2 YG
1.1 mi SE of Willow Cove	25	Aug. 25, 1949	1871-49	1 ♂	
1½ mi SE of W end, Willow Cove	40-50	May 4, 1941	1311-41	1 ♀ ov	
Farnsworth Bank	15-17	Sept. 7, 1949	1903-49	2 ♀	1 YG
San Clemente Island					
Off Pyramid Cove	35-46	Feb. 18, 1939	913-39	1 ♂	1 ♀ ov
Lower California					
Center of Cortes Bank	15-20	Aug. 27, 1949	1889-49	1 ♂	
6.5 mi SW of San Carlos Point	20	Apr. 25, 1950	1944-50	1 ♀	

TABLE 51
LOXORHYNCHUS GRANDIS STIMPSON

	June	1911								
California										
Marin County										
Cordell Bank	22	Aug. 18, 1940	Sta. 315 Haul 58					1 ♀ yg	1 yg	<i>N. B. Scofield</i> , CAS Loc. 31180, det. S. A. Glassell
Northern Channel Islands										
Santa Rosa Island	10	Aug. 2, 1938	881-38					1 ♀ yg		
Bechers Bay	10	Aug. 10, 1938	995-38				1 ♂	3 ♀		
Santa Cruz Island										
1/4 mi SE of Santa Cruz Island	23	Dec. 30, 1948	1662-48						2 yg	photo
E of Gull Island	10	Oct. 31, 1940	1197-40				3 ♂			
Los Angeles County										
Redondo Beach		Sept. 1937	B3716					1 ♀		Burch, coll.
Redondo Beach	11-20	May 6, 1940	1139-40				1 ♂	1 ♀		Burch, coll.
Redondo Beach		June 15-16, 1940	B4076				1 ♂	2 ♀		Burch, coll.
Redondo Beach			4080							
Redondo Beach			4081							
Redondo Beach		July-Sept. 1940	B3854					1 ♀ yg		Burch, coll.
2 mi Sx E from Playa del Rey	shore	July 14-21, 1940	B40110					1 ♀		Burch, coll.
Portuguese Bend	2	Aug. 8, 1913	OJ40					1 ♀		
Orange County		Nov. 10, 1939	1013-39				1 ♂			
Off Huntington Beach	4-20	Apr. 20, 1940	1127-40					1 ♀		photo
Off Newport Inlet, ocean side	6-18	June 25, 1942	1453-42					2 ♀		
Newport Channel, Balboa	shore	Jan. 25, 1941	1224-41				1 ♂			
Newport Bay, Corona del Mar side	shore	Dec. 8, 1950	2000-50				1 ♂	1 ♀		
Corona del Mar		April 1940						1 ♀		G. E. MacGinitie, coll.
Corona del Mar	shore	Nov. 17, 1941	1441-41					1 ♀ yg		
Corona del Mar	shore	Nov. 19, 1941	1438-41				1 ♂			
Corona del Mar	shore	Dec. 18, 1941	1440-41							
Newport Harbor	shore	June 2, 1942	1451-42				1 ♂	3 ♀		

LOXORHYNCHUS GRANDIS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
California (cont.) Southern Channel Islands San Nicolas Island W of Dutch Harbor	8-9	Nov. 23, 1940	1204-40	1 ♂	
Santa Catalina Island Long Point		Summer 1941		2 ♂	pleopod
Lower California Rosario Bay	15	Feb. 28, 1937	610-37	1 ♂	
Rosario Bay	10-15	Feb. 15, 1936	491-36	1 ♀	3 yg
Cedros Island N end Cedros Island	shore	Oct. 30, 1951	2063-51		6 yg
South Bay	10-15	Mar. 10, 1934	287-34	1 ♂	
Punta Eugenia Nameless cove 12 mi E of Punta Eugenia	shore	Nov. 1, 1951	2066-51	1 ♀, yg	
Off Thurloe Head	8-10	Oct. 31, 1951	2064-51	1 ♂, yg	1 yg
		Mar. 9, 1934	283-34		
TABLE 52					
LOXORHYNCHUS CRISPATUS STIMPSON					
California Marin County SW of Baker Head Off Cordell Bank Between Farallones and Point Reyes	50	December 1948		1 ♀	
Off Pigeon Point Monterey County Monterey Bay		Jan. 10, 1935		1 ♂	Capt. Tarentino, coll., C.A.S.
		Mar. 2, 1935		1 ♂	Capt. Tarentino, coll., C.A.S.
		Aug. 18, 1940	B40128	2 ♂	Burch, coll. 1 yg

Monterey Bay	dr				1 ♂	1 ♀	Hopkins Marine Station
Monterey Bay	12	June 5, 1922			1 ♂	1 ♀	A. G. Smith and Farber, coll., Hopkins Marine Station
Monterey Bay, off Del Monte	15	July 1932			1 ♂	1 ♀	Hopkins Marine Station
Monterey Bay, off Point Pinos	15				1 ♂	1 ♀	Dr. Luck and fisherman, Hopkins Marine Station
SW of Point Pinos	26	Aug. 8, 1938	891-38			1 ♀	
Northern Channel Islands							
S of San Miguel Island	5-15	Aug. 10, 1938	894-38		3 ♂	1 ♀	1 yg
San Miguel Passage	18-19	Aug. 4, 1939	991-39				1 yg
Santa Rosa Island							
4½ mi NE of Sandy Point	36	Sept. 16, 1941	1417-41			1 ♀	
Bechers Bay	14	Aug. 18, 1939	1003-39		1 ♂	1 ♀	
Bechers Bay	13-16	Aug. 18, 1939	1004-39			3 ♀	
2.6 mi E of East Point	47-49	Apr. 11, 1941	1289-41				2 yg
4-6 mi SW ½ W of East Point	40	Aug. 26, 1941	1391-41		1 ♂		1 yg
6¼ mi SE of South Point	46	Apr. 11, 1941	1291-41		1 ♂ yg		
Santa Cruz Island							
Santa Cruz Channel	32-34	Aug. 18, 1939	1005-39			1 ♀	
N of Santa Cruz Island	53	Sept. 14, 1938	898-38			2 ♀ yg	
3 mi S of Fraser Point	20-24	Apr. 11, 1941	1286-41		1 ♂		
Willow Anchorage	shore	Dec. 30, 1948	1664-48				1 yg
3.5 mi NE of San Pedro Point	46-47	Sept. 17, 1941	1418-41			2 ♀	
S side, Santa Cruz Island	39-40	Oct. 30, 1940	1191-40		1 ♂ yg		
E of Gull Island	10	Oct. 31, 1940	1197-40		3 ♂	2 ♀	
Anacapa Island							
Anacapa Passage	15-50	Oct. 30, 1940	1190-40				1 yg
1 mi WNW of Anacapa Island	41-43	Mar. 16, 1941	1269-41		1 ♂		
1 mi N of W end	45-47	Sept. 17, 1941	1419-41		3 ♂	2 ♀	♂ pleopod, photo

LOXORHYNCHUS CRISPATUS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
California (cont.)					
Los Angeles County					
SW of Venice	40	July 28, 1917	T-186	1 ♂	
Redondo Beach		June 15-16, 1940	B4076	1 ♂	<i>Anton Dohrn</i> Acc. 524 Burch, coll.
			4080	3 ♀	
			4081		
Redondo Beach		April 1940	B4026	1 ♀ yg	Burch, coll.
Redondo Beach		June or July 1941	B4113	1 ♀ ov	Burch, coll.
Between Whites Point and Portuguese Bend	14	Nov. 19, 1948	1640-48	1 ♂ yg	
Portuguese Bend		July 15, 1922		1 ♂	
Portuguese Bend		Nov. 21, 1938	902-38	1 ♂ yg	
San Pedro Channel	shore	Aug. 20, 1940	1174-40	1 ♀	
2¼ mi off San Pedro breakwater	15	Oct. 24, 1940	1207-40	1 ♀	
5 mi 152° from San Pedro breakwater	19	Feb. 15, 1941	1232-41	2 ♀	
1½ mi SE of Long Beach	32-52	July 22, 1940	1160-40		photo
Orange County					
Newport Bay, Corona del Mar side	shore	Dec. 8, 1950	2000-50	1 ♂	
Southern Channel Islands					
Off San Nicolas Island	28-31	Apr. 12, 1940	1123-40	1 ♀ yg	
Santa Barbara Island					
15.5 mi NNW of Santa Barbara Island	70	May 29, 1939	983-39	1 ♂	
E of Santa Barbara Island	25-27	May 27, 1939	975-39	1 ♂	
Santa Catalina Island					
½ mi NE of Long Point	108-109	Aug. 10, 1941	1384-41	1 ♂ yg	
E of Long Point	35-46	July 5, 1940	1153-40		2 yg
Long Point to Willow Cove	30-45	Sept. 14, 1941	1407-41		1 yg
White Cove	40-80	Jan. 28, 1939	908-39	1 ♀	2 yg
White Cove	36-41	Aug. 12, 1939	998-39	1 ♂	1 yg
White Cove	16-35	July 6, 1940	1155-40	1 ♂	3 yg
White Cove	14	Sept. 8, 1949	1905-49		

CHORILIA LONGIPES (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
California (cont.)					
Channel Islands					
3½ mi S of Santa Barbara Island	240-275	May 30, 1939	985-39	1 ♂	of 5 specimens
Santa Catalina Island	121-260	Dec. 10, 1939	1029-39		1 ♀ ov
E. of White Cove	132-148	July 5, 1940	1152-40	1 ♂	
SE end, Santa Catalina Island					
TABLE 54					
CHORILIA LONGIPES TURGIDA RATHBUN					
California					
Off Rocky Point		July 13, 1940	B40106	1 ♂	Burch, coll.
San Pedro Channel	67-110	Aug. 20, 1940	1174-40	1 ♂	
6 mile bank	230-250	Aug. 23, 1950	1992-50	5 ♀	
12 mi SW of Newport	225-250	Jan. 25, 1941	1223-41	1 ♂	
70-fathom bank	68-82	Nov. 30, 1940	1215-40	1 ♀	
Channel Islands					
San Miguel Island					
Tyler Bight	shore	Aug. 3, 1938	883-38	1 ♂ yg	
S of San Miguel Island	130-138	Aug. 3, 1939	986-39	1 ♂	
Santa Rosa Island					
4.5 mi SW x ½ W of East Point	43-45	Aug. 26, 1941	1390-41	1 ♀ yg	
4.6 mi SW x ½ W of East Point	40	Aug. 26, 1941	1391-41	1 ♀ yg	
13-16.5 mi SSE of East Point	71-76	Aug. 25, 1941	1385-41	1 ♂	
7.8 mi S of Santa Rosa Island	70	Aug. 26, 1941	1395-41	1 ♂	
Santa Cruz Island					
Off Gull Island	110-140	Oct. 31, 1940	1196-40	1 ♂	1 ♀
Santa Barbara Island					
10 mi NNW of Santa Barbara Island	80-81	May 29, 1939	982-39	1 ♂	fragmentary
3½ mi S of Santa Barbara Island	240-275	May 30, 1939	985-39	4 ♂	

not an intertidal species;
data in error?

fragmentary

Location	Number	Date	Sex	Age	Notes
Santa Catalina Island					
2.8 mi WNW of Long Point	64-69	May 3, 1941	1 ♂		
1 1/4 mi NE of Long Point	124-179	Sept. 26, 1941	1 ♂		
6 1/4 mi ENE x E of Long Point	228-267	Sept. 8, 1941	2 ♀	1 yg	
6 1/2 mi ENE of Long Point	300	Sept. 8, 1941	2 ♀	1 yg	
6 1/2 mi E of Long Point	230-380	July 7, 1940	4 ♀	5 yg	♂ pleopod
6 3/4 mi E of Long Point	267	Sept. 28, 1941	1 ♀ ov	6 yg	
7 mi E of Long Point	230-340	Aug. 8, 1940	3 ♂		
7 mi E of Long Point	228-267	May 3, 1941	2 ♀		
7 mi E of Long Point	228	May 3, 1941	4 ♂		
7 mi E of Long Point	228-267	May 3, 1941	3 ♂	5 ♀	
7.3 mi E of Long Point	240-250	Dec. 17, 1950	3 ♂	5 ♀	
8 mi E of Long Point	240	Sept. 13, 1941	2 ♂	(2 ov) 3 ♀	
8 mi E of Long Point	228	Sept. 14, 1941		(1 ov) 2 ♀	♂ photo
8 1/2 mi E of Long Point	228	Sept. 14, 1941		(1 ov) 3 ♀	
6 mile bank E of Long Point	250-320	Aug. 8, 1941		1 ♀	
4.5 mi ENE of Avalon	330	July 1, 1949	3 ♂	3 ♀	
2.5 mi E of tile plant	110-114	Aug. 12, 1950	1 ♂	1 ♀	
7 1/2 mi SE of Seal Rocks	152-200	Apr. 3, 1950		3 ♀	
11 1/2 mi SE of Church Rock	280	Oct. 25, 1941		1 ♀	
SE end, Santa Catalina Island	117-128	Sept. 28, 1941	3 ♂	3 ♀	
5 mi SE of Santa Catalina Island	140-150	July 5, 1940	1 ♂	2 ♀	
5 1/2 mi SE of Santa Catalina Island	145-150	Dec. 10, 1939	1 ♂	1 ♀	
1.4 mile bank ESE of Santa Catalina Island	310-350	Aug. 20, 1940	1 ♂		br. 066° T.
1.4 mile bank ESE of Santa Catalina Island	310-350	July 11, 1949	1 ♂	1 yg	
San Clemente Island					
N of San Clemente Island	250-300	Nov. 24, 1939	5 ♂	3 ♀	
Off Wilsons Cove	60-85	Feb. 18, 1939		(2 ov)	
Off Wilsons Cove	60-135	Nov. 23, 1939		1 ♀ yg	1 yg
Off Pyramid Cove	35-46	Feb. 18, 1939	2 ♂		1 yg

CHORILIA LONGIPES TURGIDA (cont.)					
Locality	Fins.	Date	Sta.	Number and Sex	Remarks
Lower California	60-61	June 10, 1941	1341-41	1 specimen	fragmented
4¼ mi NNW of Cortes Bank	50	June 10, 1941	1342-41	1 ♂, yg	
9.5 mi NW of buoy, Cortes Bank					
TABLE 55					
PELIA TUMIDA (LOCKINGTON)					
California		June-July 1942	B4113	3 ♀, ov	Burch, coll.
Redondo Beach	shore	Nov. 18, 1941	1437-41	1 ♂	
Flat Rock Point	shore	Dec. 17, 1941	1439-41	1 ♂	
Flat Rock Point	shore	Dec. 7, 1942	1459-42	1 yg	
Portuguese Bend	shore	Nov. 10, 1939	1013-39	1 ♀	
Portuguese Bend	shore	Feb. 13, 1942	1446-42	1 ♂	
Point Fermin	shore	Nov. 30, 1940	1216-40	5 ♂	
San Pedro breakwater	shore	Jan. 26, 1941	1230-41	9 ♂	
Newport Harbor, bay side	shore	Mar. 13, 1942	1449-42	1 ♂	
Newport Channel, Balboa	shore	Jan. 25, 1941	1224-41	2 ♂	
Newport Bay, Corona del Mar side	shore	Dec. 8, 1950	2000-50	1 ♂	
Corona del Mar	shore	October, 1941			
Corona del Mar	shore	Dec. 18, 1941	1440-41	1 ♀	
Corona del Mar	shore	Nov. 9, 1946	1572-46	2 ♂	
Laguna Beach	shore	Mar. 13, 1926		1 ♂	
Laguna Beach	shore	Nov. 30, 1940	1218-40	1 ♂	
Abalone Cove	shore	Mar. 13, 1949		1 ♂	
La Jolla	shore	Nov. 28, 1940	1210-40	3 ♀	
La Jolla	shore	Jan. 15, 1946	1506-46	1 ♂	
Channel Islands					
Santa Cruz Island	shore	Oct. 29, 1940	1189-40	2 ♀	
Santa Catalina Island	shore	May 4, 1941	1310-41	1 ♂	
Fourth of July Cove	shore	Mar. 4, 1950	1932-50	2 ♀	
Fourth of July Cove	2-3	Aug. 4, 1950	1378-50	1 ♀, ov	1 yg
1 mi NW of White Cove	shore	Dec. 27, 1940	1221-40	1 ♀	
Avalon	shore	Dec. 1, 1948	1652-48	3 ♀	
Catalina Harbor	shore				

Lower California									
Todos Santos Bay	shore	Dec. 20, 1930	1 ♂	1 ♀					G. E. MacGinitie, coll., Hopkins Marine Station
Guadalupe Island									
2¼ mi N of South Bluff	shore	Dec. 19, 1949			1923-49				
2¼ mi N of South Bluff	shore	Dec. 20, 1949		1 ♀	1928-49			2 yg	
Melpomene Cove	shore	Dec. 12, 1946			H46-145			1 yg	C. L. Hubbs, coll.
Cedros Island									
South Bay									
3½ mi N of Natividad Light	10-15	Mar. 10, 1934	1 ♂		287-34				
4 mi N of Dewey Channel	19-20	Mar. 6, 1949	13 ♂	14 ♀	1706-49				
Dewey Channel opposite San Eugenio Point	24-25	Feb. 27, 1941	1 ♂ yg		1261-41				
3¾ mi NNW of San Eugenio Point	21-26	Feb. 27, 1941	1 ♂	2 ♀	1260-41			1 yg	
Off Thurloe Head	20	Mar. 5, 1949		1 ♀	1702-49				
Off Thurloe Head	8-10	Mar. 9, 1934	2 ♂	2 ♀	283-34				
San Hipolito Bay	30	Mar. 9, 1934	1 ♂		285-34				
28 mi S of Abreojos Point	7	Apr. 5, 1949		1 ♀ yg	1789-49				br. 199° T.
Abreojos Point to NE Point	55	Mar. 7, 1949		1 ♀ ov	1709-49				
San Ignacio Lagoon	shore	Apr. 30, 1950	4 ♂	6 ♀	1956-50				
North Whale Island									
		Feb. 9-11, 1950		1 ♀ ov	H-50, 65, 67, 69, 70				C. L. Hubbs, M. W. Johnson, A. A. Allanson, coll. M. W. Johnson, coll.
Off South Whale Island	3.5 m								
Santa Maria Bay	shore	Feb. 11, 1950	6 ♂						
Santa Maria Bay	10	Mar. 21, 1933		1 ♀	127-33				
Magdalena Bay		Mar. 7, 1934	1 ♂	1 ♀	279-34				
2 mi E of Entrada Point	17-18	Mar. 8, 1949	8 ♂	8 ♀	1714-49				
1 mi off Entrada Point	28-34	May 3, 1950	1 ♂	1 ♀	1965-50				
Gulf of California									
Off Rocky Point, Sonora	10-11				1940				
Angel de la Guarda Island		Feb. 2, 1940	1 ♂		1072-40				
Puerto Refugio	shore	Mar. 21, 1937		1 ♀	713-37				
Puerto Refugio	shore	Jan. 27, 1940		1 ♀	1049-40				

PELIA TUMIDA (cont.)		PELIA PACIFICA A. MILNE EDWARDS			
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California (cont.)					
Puerto Refugio	shore	Jan. 28, 1940	1053-40	20 ♂	
Off S end, Tiburon Island	8-10	Mar. 10, 1936	564-36	1 ♂	
Off S end, Tiburon Island	shore	Jan. 25, 1940	1045-40	11 ♂	3 yg
Turner's Island	shore	Jan. 24, 1940	1042-40	2 ♂	6 ♀ 2 ♀ (1 ov)
E of San Esteban Island	20-70	Mar. 10, 1936	562-36	1 ♂	4 ♀
S of San Esteban Island	35	Mar. 27, 1937	729-37	1 ♂	3 ♀
Puerto San Carlos	shore	Mar. 24, 1949	1766-49	1 ♂	
Bahía Empalme, Sonora	shore	Nov. 19, 1946	D55		1 ♀
Off Concepción Bay	12	Mar. 12, 1937	683-37		1 specimen
Near Point Piaxtla, Sinaloa	6-8	Apr. 1, 1937	744-37	2 ♂	3 ♀
1 mi NE of Cabeza Ballena	shore	Mar. 11, 1949	1727-49		1 ♀
Mexico					
Guerrero					
Petatlan Bay	25	Mar. 2, 1934	264-34	1 ♂	
Mexico					
Guerrero					
Santa Lucia Bay, Acapulco	1-4	Feb. 1-2, 1954	2596-54	1 ♂	2 ♀ ov
Oaxaca					
Tangola Tangola	shore	Mar. 1, 1934	260-34		1 ♀ ov
Costa Rica					
Playa Blanca	shore	Feb. 8, 1935	465-35	2 ♂ yg	pleopod, comp. with USNM 70993
Panama					
Changamé, Canal Zone		May 1, 1938		2 ♂	photo, pleopod, Elinor D. Robson, coll.
Bellavista		Feb.-Mar. 1937			Elinor D. Robson, coll.

TABLE 56

Colombia											
Port Utria	shore	Feb. 15, 1934	239-34								
Port Utria	shore	Feb. 15, 1934	239a-34								
Port Utria	shore	Jan. 23, 1935	419-35	1 ♂							1 yg
Ecuador											
Off Cape San Francisco	2	Feb. 11, 1934	217-34								
Manta Bay	1	Jan. 19, 1935	401-35								
W of Manta	shore	Jan. 20, 1935	403-35	1 ♂ yg							
Off La Libertad	1-2	Jan. 19, 1933	12-33	3 ♂							
Off La Libertad	2	Jan. 20, 1933	15-33	1 ♂							
Guayaquil		1926?									
Peru											
9½ mi SW of Zorritos Light	shore	Feb. 16, 1938	847-38	4 ♂							
											♂ pleopod
											USNM 70993
											W. L. Schmitt
											det. M. J. Rathbun as <i>P. tumida</i>
											det. M. J. Rathbun as <i>P. tumida</i>
											1 ♀
											(1 ov)
											1 ♀ ov
											2 ♀
											(1 ov)
											photo, pleopod
											L.U.C.E.
Peru											
San Nicolas Bay	10-25	Feb. 6, 1938	820-38	1 ♂							
San Juan Bay	shore	Feb. 7, 1938	825-38	1 ♂ yg							
San Juan Bay	shore	Feb. 8, 1938	828-38								
Chile											
Montemar, N of Valparaiso	shore										
Bahia San Vicente, Concepción											
Punta Liles, W of San Vicente	shore	June 9, 1949	M121	1 ♂							
SE of Punta Gualpén	shore	June 8, 1949	M120	1 ♂							
											1 yg
											hydroids sponge

TABLE 57
PISOIDES EDWARDSI (BELL)

PISODES EDWARDSI (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Chile (cont.)					
Estero Reloncaví, Chiloe					
Bahía Ralún, between Cayo Nahuelgnapi and Punta Veriles	12 m	Apr. 1, 1949	M88	1 ♂	sponge
Canal Chacao, Chiloe					
S of Punta Nagle, Golfo de Quetalmahúe	11 m	May 4, 1949	M96	1 ♂	chelae gape
Punta Corona, Península Laqui	shore	Feb. 26, 28, 1949	M56	1 ♀	postovigerous
W of Roca Amazonas	40 m	May 4, 1949	M94	2 ♂	damaged
N of Punta Soledad	40 m	May 5, 1949	M103	2 ♂	largest specimen
Golfo de Ancud, Chiloe					
Canal Calbuco, between Punta Meimen and Punta Pinto	25 m	Dec. 15, 1948	M21	1 ♂	sponge
SE of Bajo Corvó	24 m	May 6, 1949	M110	1 ♀	sponge
Isla Chiloe, east coast					
Paso Tenaun, S of Punta Tenaun	70 m	Jan. 24, 1949	M42	1 ♂	chelae without gape

TABLE 58

ROCHINIA VESICULARIS (RATHBUN)

Lower California					
5 mi S of San Benito Islands	95-97	Feb. 19, 1940	1119-40	1 ♂	♂ pleopod, photo
29 mi S of Abrejos Point	52-54	Mar. 7, 1949	1710-40 1711-40	1 ♀ yg 1 ♀	br. 191-194° T.
San Jaime Bank off Cape San Lucas	75	Mar. 3, 1937	618-37	2 ♂	

TABLE 59
LIBIDOCLEA GRANARIA MILNE EDWARDS AND LUCAS

				L.U.C.E.
Chile				
Seno Reloncaví, Chiloe				
Piedra Azul, NW of Punta				
Quilliape	40-55 m	Dec. 4, 1948	M16A 2 ♂	1 ♀ ov
Golfo de Ancud, Chiloe				
Canal Calbuco, E of church	30 m	Dec. 14, 1948	M17	1 ♀
in Calbuco				
Argentina				
Off Gulf of San Matias, Patagonia	52	Jan. 13, 1888	2767 1 ♂	1 ♀

♂ photo, pleopod,
USNM 21919, *Albatross*

large male, color note

TABLE 60
LIBIDOCLEA GRANARIA SMITHI (MIERS)

				L.U.C.E.
Chile				
Seno Reloncaví, Chiloe				
Off Puerto Montt, between Isla				
Tenglo and Punta Pilluco	225 m	Dec. 1, 1948	M14	1 yg
E of Isla Guar	250 m	July 15, 1949	M144	1 yg
Estero Reloncaví, Chiloe				
Central part, W of Punta				
Iglesia	200-250 m	Mar. 30, 1949	M81	1 ♀
Golfo de Ancud, Chiloe				
SW of Isla Quellín	300 m	Jan. 22, 1949	M38	1 ♀
N of Punta Barranco at Isla Abtao	60 m	May 5, 1949	M107	
Off Port Otway	61f	Feb. 9, 1888	2787 1 ♂	1 yg

♂ photo, pleopod,
USNM 21923, *Albatross*

TABLE 61
NOTOLOPAS LAMELLATUS STIMPSON

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California					
Off Rocky Point, Sonora	10-11	Feb. 2, 1940	1072-40	5 ♀ (1 ov)	
Inside Georges Island	11-13	Feb. 3, 1940	1075-40	1 ♀ ov	
San Ignacio Bay, Sinaloa	3-5	Mar. 31, 1937	740-37	3 ♀ (1 ov)	
Near Point Piaxtla, Sinaloa	6-8	Apr. 1, 1937	744-37	4 ♂ 1 ♀	
Mexico					
Jalisco					
Tenacatita Bay	4-10	Mar. 18, 1933	122-33	3 ♀ yg	
Tenacatita Bay	10	Mar. 4, 1934	271-34	1 ♀ yg	
Oaxaca					
Chacahua Bay	10-15	Mar. 20, 1939	927-39	8 ♀	
Tangola Tangola Bay	15-20	Feb. 28, 1934	259-34	2 ♂ 1 ♀	
Guatemala					
Off San José Point	11	Jan. 11, 1938	770-38	8 ♂ 10 ♀ (6 ov)	
Off San José Point	12-13	Mar. 23, 1939	930-39	5 ♂ 3 ♀ ov	
Off San José Point	53-55	Mar. 23, 1939	932-39	1 ♀	
Costa Rica					
Salinas Bay	shore	Feb. 10, 1935	474-35	1 ♂	♂ pleopod
Salinas Bay	2	Feb. 11, 1935	479-35	2 ♂	
Gulf of Dulce	10-22	Mar. 26, 1939	939-39	2 ♂	

Panama								
Guayabo Chiquito	13-35.5	Mar. 4, 1941	30	1 ♂	1 ♀			<i>Askoj</i>
Colombia								
Málaga Bay	2-3.5	Mar. 19, 1941	40		2 ♀			<i>Askoj</i>
Cupica Bay	shore	Jan. 26, 1935	427-35	1 ♂ yg				
Ecuador								
Cape San Francisco	2	Feb. 11, 1934	214-34	1 ♂ yg				photo
Cape San Francisco	15	Feb. 23, 1938	850-38	1 ♂				
Manta Bay	1	Jan. 19, 1935	402-35		1 ♀			
La Libertad	3-5	Jan. 18, 1933	9-33		1 ♀ ov			variant
Off Santa Elena Bay	8-10	Feb. 9, 1934	209-34	6 ♂	2 ♀			
Near S shore, Santa Elena Bay	7-10	Feb. 9, 1934	210-34	1 ♂				
Gulf of California								
Patos Island	4.5	Apr. 23, 1921			1 ♀			Fred Baker, coll., C.A.S.
Pond Island	shore	Feb. 4, 1940	1079-40	1 ♂				
San Esteban Island	shore	Feb. 5, 1940	1083-40	1 ♂				photo
Puerto Escondido	shore	Mar. 20, 1949	1752-49	1 ♂				
San Francisco Island	shore	Mar. 9, 1937	652-37	2 ♂				pleopod
North Bay	shore	Feb. 25, 1936	518-36	1 ♂				
Espiritu Santo Island								
San Gabriel Bay	shore	Feb. 20, 1936	501-36	1 ♂				
San Gabriel Bay	shore	Mar. 20, 1936	604-36	1 ♂				
San Gabriel Bay	shore	Mar. 6, 1937	634-37		1 ♀			
San Gabriel Bay	shore	Mar. 7, 1937	638-37		1 ♀			1 yg
San Gabriel Bay	shore	Feb. 14, 1940	1110-40	1 ♂	1 ♀			1 yg
San Gabriel Bay	1	Mar. 15, 1949	1737-49	3 ♂	1 ♀			

TABLE 62

HERBSTIA CAMPTACANTHA (STIMPSON)

HERBSTIA CAMPTACANTHA (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Mexico					
Sonora					
Vicinity of Puerto San Carlos	shore	Mar. 24, 1949	1767-49	1 ♀	
Nayarit					
Isabel Island	shore	Mar. 19, 1933	124-33	1 ♂	
				3 ♀	
				(2 ov)	
				5 ♀ ov	1 yg
Isabel Island	shore	Mar. 19, 1933	125-33	2 ♂	
Guerrero					
Santa Lucia Bay, Acapulco	1-4	Feb. 1-2, 1934	2596-54	3 ♂	
Oaxaca					
Tangola Tangola Bay	shore	Mar. 1, 1934	261-34	4 ♀	2 yg
TABLE 63					
HERBSTIA PURESCENS STIMPSON					
Costa Rica					
Playa Blanca	shore	Feb. 8, 1935	464-35	1 ♂	
Playa Blanca	shore	Feb. 8, 1935	465-35		1 ♀ yg
Port Culebra					
Near South Viradores Islands	shore	Feb. 25, 1934	258-34	1 ♂ yg	
Panama					
Secas Islands	shore	Feb. 4, 1935	447-35	2 ♂	
Secas Islands	shore	Feb. 6, 1935	454-35	1 ♂	
Secas Islands	shore	Mar. 2, 1938	867-38	2 ♂	
Taboga Island	shore	May 2, 1939	957-39		1 yg
Colombia					
Octavia Bay	shore	Jan. 25, 1935	435-35	1 ♂	
Gorgona Island	2-3½	Apr. 23, 1941	89	1 ♂	1 ♀ ov
					<i>Attoy</i>

TABLE 64
HERBSTIA TUMIDA (STIMPSON)

Revilla Gigedo Islands									
Clarion Island									
Sulphur Bay	shore	Jan. 5, 1934	140-34				1 ♀ ov		
Costa Rica									
Cocos Bay, S of Port Culebra	2-4	Mar. 13, 1933	116-33	1 ♂				det. M. J. Rathbun	
Cocos Island									
Off Nuez Island	31-50	Jan. 13, 1938	773-38	1 ♂					
Chatham Bay	shore	Jan. 14, 1938	778-38	1 ♂				illustrated, pleopod	
Panama									
Secas Islands	shore	Feb. 22, 1934	252-34	2 ♂			3 ♀		♂ photo, pleopod
Secas Islands	15	Feb. 22, 1934	251-34					1 yg	
Secas Islands	shore	Feb. 4, 1935	447-35	1 ♂				1 yg	
Secas Islands	shore	Mar. 2, 1938	867-38	2 ♂					
Bahia Honda	2	Mar. 10, 1933	114-33	6 ♂			4 ♀	1 yg	det. M. J. Rathbun
Bahia Honda	shore	Feb. 21, 1934	247-34	2 ♂			1 ♀ ov		♂ pleopod
Colombia									
Octavia Bay	shore	Jan. 28, 1935	435-35	2 ♂					
Gorgona Island	2½	Apr. 20, 1941	89	1 ♂			2 ♀		<i>Askey</i>
							(1 ov)		
Ecuador									
Santa Elena Bay									
Off La Playa	2	Jan. 20, 1933	14-33					1 yg	det. M. J. Rathbun

TABLE 65
HERBSTIA PARVIFRONS RANDALL

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
California					
Monterey Bay, Point Pinos	shore	Nov. 10, 1931		1 ♀	
Venice pier	shore	Nov. 18, 1941	1437-41	1 ♀	Hopkins Marine Station
Flat Rock Point	shore	July 17, 1923		1 ♀ yg	
Point Vicente	shore	Nov. 21, 1938	902-38	1 ♂	
Portuguese Bend	shore	October 1941		1 ♀	
Corona del Mar	shore	Dec. 6, 1938	904-38	1 ♂	N. MacGinitie, coll.
Laguna Beach and pier	shore	Jan. 15, 1946	1506-46	1 ♂ yg	photo, pleopod
La Jolla	shore	Nov. 28, 1940	1210-40	1 ♀	
Reefs just N of caves					
Channel Islands					
Santa Cruz Island	shore	Oct. 29, 1940	1189-40	2 ♂	
SW shore, Smugglers Cove	shore	Dec. 29, 1948	1660-48	1 ♂	
Santa Catalina Island					
Long Point	shore	Nov. 30, 1948	1646-48	1 ♀	
Fourth of July Cove	shore	Mar. 4, 1950	1932-50	1 ♂	
White Cove	9-11	Dec. 1, 1948	1648-48	1 ♂	
Cherry Cove	shore	Oct. 30, 1948	1623-48	1 ♂ yg	
Catalina Harbor	shore	Dec. 1, 1948	1652-48	1 ♀	
Lower California					
Guadalupe Island					
SW end, S side of reef	shore	Dec. 8, 1946		1 ♀	Woody Williams, coll.
2¼ mi N of South Bluff		Dec. 19, 1949	1923-49	2 ♀ (1 ov)	2 yg
2¼ mi N of South Bluff	shore	Dec. 20, 1949	1928-49		1 yg
Melpomene Cove	shore	Dec. 17, 1949	1912-49	1 ♂	
Melpomene Cove	shore	Jan. 29, 1950	H50-32	1 ♂	C. L. Hubbs, coll.
Asumpción Point	shore	Apr. 28, 1950	1950-50	1 ♂	

TABLE 66

LIBINIA SETOSA LOCKINGTON

	"surface"		Dec. 16, 1916	<i>Albatross</i>	1 ♀	"with lampara net" C.A.S.
Lower California						
San Bartolomé Bay						
San Juanico Bay	16		Mar. 2, 1937	616-37	1 ♂	
Santa Maria Bay			Aug. 11, 1932	<i>Zaca</i>	1 ♂	♂ neotype, photo, pleopod, C.A.S. Loc. 27594
Santa Maria Bay	25		Mar. 21, 1933	126-33	1 ♂	
Santa Maria Bay	18-25		Jan. 19, 1940	1031-40	3 ♀	
½ mi SE of Hughes Point	5-18		Apr. 4, 1949	1787-49	1 ♀	
3.5 mi ESE of Hughes Point	11		May 5, 1950	1974-50	1 ♀	
Magdalena Bay						
4¼ mi NE of Redondo Point Light	9		Mar. 8, 1949	1717-49		
Marcy Channel	13		Mar. 9, 1949	1718-49	1 ♀	1 yg br. 043° T.

TABLE 67

LIBINIA MEXICANA RATHBUN

			Mar. 24, 1937	721-37	1 ♀	
Gulf of California						
Rocky Point, Sonora	8-12		Feb. 2, 1940	1072-40	1 ♀	
Rocky Point, Sonora	10-11		Feb. 3, 1940	1073-40	1 ♀	
Rocky Point, Sonora	3-10		Feb. 3, 1940	1074-40	1 ♀	♂ photo, pleopod,
Rocky Point, Sonora	11		Fall, 1946- March 1947		1 yg	
San Felipe, Lower California			Mar. 31, 1937	740-37	1 ♂	♂ photo, pleopod, J. Rodriguez, coll. plus 1 carapace
San Ignacio Bay, Sinaloa	3-5					

TABLE 68
LISSA TUBEROSA RATHBUN

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Lower California					
Magdalena Bay					
1 mi N of Redondo Point Light	18	Mar. 9, 1949	1721-49	1 ♀ ov	
Gulf of California					
S of Tortuga Island	21	Mar. 13, 1936	576-36	1 ♀	
W of Coronados Island	3-10	Feb. 28, 1936	525-36	1 ♂	
Carmen Island					
¼ mi WSW of Perico Point	15-18	Mar. 21, 1949	1758-49	1 ♂	
N of San Francisco Island	22	Mar. 8, 1937	647-37	1 ♀ ov	
E of San Francisco Island	shore	Feb. 24, 1936	515-36	1 ♀	
E of San Francisco Island	15	Feb. 25, 1936	517-36	2 ♂	
San Lorenzo Channel	5-15	Feb. 19, 1936	498-36	1 ♂	
San Lorenzo Channel	24	Mar. 21, 1936	607-36	1 ♀ ov	
San Lorenzo Channel	6-13	Feb. 14, 1940	1111-40	1 ♀	
San Lorenzo Channel	13	Mar. 15, 1949	1738-49	1 ♂	br. 253° T.
Revilla Gigedo Islands					
Clarion Island					
Sulphur Bay	20	June 11, 1934	304-34	1 ♀ ov	
Sulphur Bay	25-26	Mar. 17, 1939	919-39	1 ♀	
Mexico					
Tres Marias Islands					
Magdalena Island	13	May 9, 1939	970-39	1 ♂	
Jalisco					
Tenacatita Bay	10	Mar. 4, 1934	271-34	1 ♀ ov	
Tenacatita Bay	25-35	Mar. 4, 1934	275-34	1 ♀ ov	

Location	40-47	Jan. 14, 1938	780-38	1 ♂	1 ♀ ov	♂ photo, pleopod
Costa Rica						
Cocos Island						
Chatham Bay						
Panama						
Secas Islands	15	Feb. 22, 1934	251-34		1 ♀	
Secas Islands	14	Feb. 5, 1935	450-35		1 ♀ ov	
Secas Islands	12	Feb. 5, 1935	451-35	1 ♂		
Bahia Honda	5-8	Mar. 9, 1933	113-33		1 ♀	
Bahia Honda	15-25	Feb. 21, 1934	245-34	2 ♂	2 ♀	det. M. J. Rathbun
Bahia Honda	25-30	Feb. 22, 1934	248-34	1 ♂		
Bahia Honda	15-20	Feb. 22, 1934	249-34		2 ♀ (1 ov)	
Colombia						
Octavia Bay	2	Jan. 28, 1935	434-35		1 ♀ ov	
Lower California						
Santa Maria Bay						
½ mi SE of Hughes Point	5-18	Apr. 4, 1949	1787-49	1 ♂		
Magdalena Bay						
2 mi E of Entrada Point	17-18	Mar. 8, 1949	1714-49		1 ♀	
Gulf of California						
Angel de la Guarda Island						
E of Angel de la Guarda Island	8-10	Mar. 6, 1936	551-36		1 ♀	
Puerto Refugio	21	Jan. 27, 1940	1051-40		2 ♀	color note
Angeles Bay	18	Mar. 20, 1937	702-37		1 ♀	
2¼ mi SE of Cape Pulmo	18-21	Mar. 13, 1949	1733-49		2 ♀	br. 162° T.
¼ mi SW of Cabeza Ballena	20	Mar. 11, 1949	1725-49	4 ♂	3 ♀	br. 218° T.

TABLE 69

LISSA AURIVILLIUSI RATHBUN

LISSA AURIVILLIUSI (cont.)						
Locality	Fms.	Date	Sta.	Number and Sex	Remarks	
Mexico						
Jalisco						
Tenacatita Bay						
W of islands off Navidad Head	25-35	Mar. 4, 1934	275-34	1 ♂		
Guerrero						
E of White Friars Islands	5-10	Mar. 3, 1934	269-34	1 ♀ ov		
Costa Rica						
Playa Blanca	3-5	Feb. 8, 1935	460-35	1 ♂		det. M. J. Rathbun
Port Culebra	3-10	Feb. 24, 1934	254-34	2 ♀		
Off South Viradores Islands	10	Feb. 25, 1934	257-34	12 ♀		
Cocos Bay	2	Mar. 13, 1933	116-33	1 ♀		det. M. J. Rathbun
Panama						
Secas Islands	15	Feb. 22, 1934	251-34	2 ♂		
Secas Islands	12	Feb. 5, 1935	448-35	1 ♂		
Secas Islands	12	Feb. 5, 1935	451-35	2 ♀		
				(1 ov)		
Secas Islands	5-20	Feb. 6, 1935	458-35	2 ♂		
Bahia Honda	15-20	Feb. 22, 1934	249-34	1 ♀ ov		
Taboga Island	2-5	May 2, 1939	959-39	1 ♀		
Colombia						
Off Port Utria	10-20	Feb. 14, 1934	235-34	1 ♂		
Ecuador						
Off Cape San Francisco	2	Feb. 11, 1934	214-34	1 ♀		
Off La Plata Island	7-10	Feb. 10, 1934	213-34	3 ♂		
Off Santa Elena Bay	7-10	Feb. 9, 1934	209-34	1 ♂		♂ photo, pleopod
				2 ♀ ov		

TABLE 70
ALA CORNUTA (STIMPSON)

Gulf of California									
SE end, Cholla Bay, Sonora	shore	Apr. 11, 1949		1 ♂					B. W. Halstead, coll.
Angel de la Guarda Island	shore	Mar. 3, 1936	540-36		1 ♀				
Puerto Refugio	shore	Mar. 20, 1937	707-37	1 ♂	1 ♀				
Puerto Refugio	shore	Jan. 27, 1940	1049-40	2 ♂	8 ♀				
Puerto Refugio	shore	Jan. 28, 1940	1053-40	3 ♂	3 ♀				
Tiburon Island	shore	Jan. 25, 1940	1045-40	2 ♂	1 ♀				
Agua Dulce Bay	shore	June 15-20, 1951		5 ♂	11 ♀				W. N. Smith II, coll.
					(8 ov)				
Turner's Island	shore	Jan. 24, 1940	1042-40	1 ♂					
San Esteban Island	shore	Feb. 5, 1940	1083-40	4 ♂					
Vicinity of Puerto San Carlos	shore	Mar. 24, 1949	1767-49	2 ♂	2 ♀				photo, pleopod
Ensenada de San Francisco, Sonora	shore	May 17, 1946	1516-46		1 ♀ ov				
Bahia Catalina, Sonora	shore	Feb. 9, 1940	1092-40	1 ♂					
Off Concepción Bay	12	Mar. 15, 1937	683-37		1 ♀				
Aguja Point	shore	Mar. 26, 1949	1769-49	1 ♂					
Puerto Escondido	shore	Mar. 20, 1949	1752-49	1 ♂					
Agua Verde Bay	shore	Feb. 12, 1940	1104-40		2 ♀				
Agua Verde Bay	shore	Mar. 16, 1949	1740-49	2 ♂	3 ♀				
San Francisco Island	8	Mar. 8, 1937	646-37		1 ♀				
San Francisco Island	shore	Mar. 9, 1937	652-37	2 ♂					
Espiritu Santo Island	shore	Feb. 14, 1940	1112-40	1 ♂					
San Gabriel Bay	1	Mar. 15, 1949	1737-49	1 ♂					
San Gabriel Bay									
Mexico									
Jalisco									
Tenacatita Bay	2-3	Mar. 18, 1933	122-33		1 ♀				
Guerrero									
Acapulco	shore	Feb. 3, 1947	D126		1 ♀				E. Y. Dawson, coll.

ALA CORNUTA (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Costa Rica					
Port Parker	shore	Feb. 9, 1935	466-35	5 ♂	1 ♀
Port Parker	5-10	Mar. 25, 1939	936-39		1 ♀
Playa Blanca	shore	Feb. 8, 1935	465-35	21 ♂	11 ♀ (1 ov)
Port Culebra					
Near South Viradores Islands	shore	Feb. 25, 1934	258-34	2 ♂	3 ♀ (1 ov)
Panama					
Secas Islands	shore	Feb. 23, 1934	252-34		1 ♀
Secas Islands	shore	Feb. 4, 1935	447-35	1 ♂	3 ♀
Secas Islands	shore	Mar. 2, 1938	867-38		3 ♀
Bahia Honda	shore	Feb. 21, 1934	246-34	1 ♂	♂ pleopod (2 ov)

TABLE 71
MITHRAX (MITHRAX) TUBERCULATUS STIMPSON

Gulf of California					
Carmen Island	shore	Mar. 21, 1949	1757-49		1 ♀
Perico Point	shore	Mar. 16, 1936	591-36		1 ♀
Puerto Escondido					
Mexico					
Tres Marias Islands	13	May 9, 1939	970-39		1 ♀ ov
Magdalena Island					
Guerrero	25	Mar. 3, 1934	268-34		1 ♀
N of White Friars					
Costa Rica					
Playa Blanca	shore	Feb. 8, 1935	464-35	1 ♂	1 ♀

Panama									
Secas Islands	shore	Feb. 22, 1934	258-34	1 ♂					
Secas Islands	shore	Feb. 4, 1935	447-35	1 ♂					
Piñas Bay	shore	Jan. 28, 1935	437-35	1 ♂	1 ♀ ov				photo, pleopod
Piñas Bay	24	Jan. 29, 1935	444-35	2 ♂					
Colombia									
Port Utria	shore	Feb. 15, 1934	239-34		1 ♀				
Port Utria	3	Jan. 23, 1935	414-35		2 ♀ ov				
Port Utria	shore	Jan. 24, 1935	419-35		1 ♀				
Ecuador									
Off beach at La Libertad	4	Jan. 19, 1933	12-33		1 ♀				

TABLE 72

MITHRAX (MITHRAX) ARMATUS SAUSSURE

Gulf of California									
Los Frailes	shore	Mar. 13, 1949	1734-49	1 ♂					
Mazatlan, Sinaloa	shore	Dec. 8, 1931	1-32	1 ♂	1 ♀ ov				2 yg
Costa Rica									
Salinas Bay	shore	Feb. 10, 1935	474-35	1 ♂					topotypes, ♂ photo, pleopod

TABLE 73

MITHRAX (MITHRAX) SINENSIS RATHBUN

Gulf of California									
Angel de la Guarda Island									
Between Mejia and Angel de la Guarda Islands	6-11	Jan. 28, 1940	1056-40	1 ♂					
E of Angel de la Guarda Island	40	Mar. 6, 1936	549-36						1 ♀
Puerto Refugio	11-22	Jan. 26, 1940	1048-40	1 ♂					

MITHRAX (MITHRAX) SINENSIS (cont.)		Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California (cont.)						
Angeles Bay		18	Mar. 20, 1937	702-37	1 ♂	
N of Isla Partida		20	Mar. 8, 1936	555-36	1 ♀	
E of San Esteban Island		20-70	Mar. 10, 1936	562-36	1 ♂	
S of Tortuga Island		21	Mar. 13, 1936	576-36	1 ♂	
Carmen Island						
Salinas Bay		7	Mar. 20, 1949	1755-49	5 ♀	
1 mi WSW of Perico Point		7-11	Mar. 21, 1949	1759-49	1 ♀	
Agua Verde Bay		shore	Feb. 12, 1940	1104-40		1 yg
N of San Francisco Island		22	Mar. 8, 1937	647-37	3 ♀	
Off San Francisco Island		30	Feb. 24, 1936	513-36	1 ♂	
E of San Francisco Island		shore	Feb. 24, 1936	515-36	1 ♀ ov	
San Lorenzo Channel		24	Mar. 21, 1936	607-36	2 ♂	
San Lorenzo Channel		6-13	Feb. 14, 1940	1111-40	1 ♂	
Revilla Gigedo Islands						
Socorro Island			Jan. 3, 1934	131-34	1 ♀	
Braithwaite Bay		shore				
Panama						
Secas Islands		15	Feb. 22, 1934	251-34	1 ♂	
Bahia Honda		30-35	Feb. 21, 1934	244-34	1 ♀	
Bahia Honda		15-25	Feb. 21, 1934	245-34	5 ♂	
Bahia Honda						(6 ov)
Bahia Honda		25-30	Feb. 22, 1934	248-34	1 ♀ ov	
Bahia Honda		15-20	Feb. 22, 1934	249-34	1 ♀	
Bahia Honda		30-50	Mar. 1, 1938	863-38	1 ♂	6 ♀
Bahia Honda						(1 ov)
Bahia Honda		30-35	Mar. 28, 1939	948-39	3 ♀ (1 yg)	color note 48
Pinas Bay		30-35	Jan. 29, 1935	442-35	1 ♂	2 ♀
Colombia						
Octavia Bay		2	Jan. 28, 1935	434-35	1 ♀	
Port Utria		35	Jan. 25, 1935	420-35	1 ♂	

Port Utria	20	Jan. 25, 1935	423-35	1 ♂	1 ♀	color sketch, ♂ photo, pleopod
Port Utria	15-30	Feb. 25, 1938	856-38	2 ♂	1 ♀	
Gorgona Island	22	Jan. 22, 1935	406-35	1 ♂	1 ♀	2 yg
Gorgona Island	20	Jan. 22, 1935	407-35	1 ♂	1 ♀	
Gorgona Island	20	Jan. 22, 1935	409-35	1 ♀	1 ♀	
Gorgona Island	10-20	Jan. 24, 1938	851-38	2 ♂	5 ♀ (1 ov)	
Ecuador						
Off La Plata Island	10	Jan. 22, 1933	23-33			2 yg det. M. J. Rathbun
Off La Plata Island	7-10	Feb. 10, 1934	213-34		2 ♀ (1 ov)	

TABLE 74

MITHRAX (MITHRAX) SINENSIS CLARIONENSIS GARTH

Revilla Gigedo Islands						
Clarion Island						
Sulphur Bay	14	Jan. 5, 1934	133-34			1 yg holotype, USNM 78777 paratype paratypes, ♂ photo, pleopod
Sulphur Bay	57	Jan. 5, 1934	137-34		1 ♀	
Sulphur Bay	15	June 11, 1934	305-34		1 ♀	
Sulphur Bay	28-43	Mar. 16, 1939	917-39	6 ♂	5 ♀ (2 ov)	

TABLE 75

MITHRAX (MITHRAX) PYGMAREUS BELL

Revilla Gigedo Islands						
Socorro Island						
Braithwaite Bay	shore	Jan. 3, 1934	131-34		1 ♀	R. Paessler, coll., Hamburg Mus. K478
Mexico						
Isabel Island	10-18	Apr. 2, 1937	745-37	1 ♂	1 ♀ ov	
Manzanillo	15m	Aug. 17, 1906		1 ♂		

MITHRAX (MITHRAX) PYGMAEUS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Panama					
Secas Islands	15	Feb. 22, 1934	251-34	1 ♂	
Secas Islands	shore	Feb. 23, 1934	252-34	1 ♂	
Secas Islands	14	Feb. 5, 1935	450-35	1 ♂	
Bahia Honda	shore	Mar. 10, 1933	114-33	1 ♂ yg	det. M. J. Rathbun
Bahia Honda	15-25	Feb. 21, 1934	245-34	1 ♀	
Bahia Honda	shore	Feb. 21, 1934	247-34	2 ♂	
Bahia Honda	15-20	Feb. 22, 1934	249-34	5 ♂	
Taboga Island	2-5	May 2, 1939	958-39	8 ♂	♂ photo, pleopod
Taboga Island	shore	May 2, 1939	959-39	1 ♂	
Perlas Islands					
Isla Saboga	2	May 26, 1941	111	2 ♀ (1 ov)	Askoy
Colombia					
Octavia Bay	2	Jan. 28, 1935	434-35	1 ♀ yg	
Gorgona Island	20	Jan. 22, 1935	409-35	2 ♂ yg	
Gorgona Island	shore	Jan. 22, 1935	411-35	1 yg	
Ecuador					
Off La Plata Island	10	Jan. 22, 1933	23-33	1 ♂	det. M. J. Rathbun

TABLE 76

MITHRAX (MITHRAX) SPINIPES (BELL)

MITHRAX (MITHRAX) SPINIPES (BELL)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California					
Agua Verde Bay	shore	Feb. 12, 1940	1103-40	1 ♂	pleopod
San Francisco Island					
North Bay	shore	Feb. 25, 1936	518-36	1 ♀	photo
Costa Rica					
Cocos Island					
Off Nuez Island	30-50	Jan. 14, 1938	779-38	1 ♂ yg	

MITHRAX (MITHRACULUS) DENTICULATUS (cont.)

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Mexico (cont.)					
Tres Marias Islands (cont.)					
Cleopha Island	shore	Feb. 7, 1954	2601-54	4 ♂	5 ♀ (4 ov)
Lagoon behind NE point					2 yg
Jalisco	shore	Dec. 25, 1946	D85		1 ♀ E. Y. Dawson, coll.
Guerrero					
Acapulco		Dec. 2, 1947	D123		1 ♀ ov
Acapulco		Dec. 3, 1947	D126	2 ♂	1 ♀ E. Y. Dawson, coll. E. Y. Dawson, coll.
Oaxaca					
Tangola	shore	Mar. 1, 1934	260-34	3 ♂	4 ♀ (2 ov)
Tangola Bay	shore	Mar. 1, 1934	261-34	3 ♂	1 yg 3 yg
Costa Rica					
Playa Blanca	shore	Feb. 8, 1935	465-35		1 ♀ comp. with USNM 3209
Port Culebra	shore	Feb. 25, 1934	258-34		3 ♀ (1 ov)
Near South Viradores Islands					
Panama					
Secas Islands	shore	Feb. 6, 1935	454-35	2 ♂	
Secas Islands	shore	Mar. 2, 1938	867-38	6 ♂	8 ♀ (6 ov)
Bahia Honda	shore	Mar. 10, 1933	114-33	1 ♂	
Bahia Honda	shore	Mar. 1, 1938	861-38	3 ♂	
Colombia					
Octavia Bay	shore	Jan. 27, 1935	433-35	1 ♂	1 ♀
Port Utria	shore	Feb. 14, 1934	232-34		16 ♀ (7 ov)
Port Utria	shore	Feb. 15, 1934	239-34	9 ♂	2 yg
Port Utria	shore	Jan. 23, 1935	413-35	2 ♂	1 ♀ ov
Port Utria	shore	Jan. 24, 1935	418-35	1 ♂	1 ♀ ov
Port Utria	shore	Feb. 25, 1938	859-38	1 ♂	2 ♀ ov

	shore	Jan. 19, 1935	400-35	2 ♂	2 ♀ (1 ov)	♂ neotype, AHF 353, photo, pleopod
Ecuador						
Manta Bay	shore	Jan. 19, 1935	400-35	2 ♂	2 ♀ (1 ov)	♂ neotype, AHF 353, photo, pleopod
TABLE 78						
TELEOPHRYS CRISTULIFES STIMPSON						
Lower California						
Santa Maria Bay	shore	Mar. 21, 1933	127-33		1 ♀ ov	
Gulf of California						
Agua Verde Bay	1-3	Mar. 18, 1936	602-36		1 ♀ yg	
Espiritu Santo Island	shore	Mar. 7, 1937	638-37	1 ♂	1 ♀ ov	♂ pleopod
San Gabriel Bay	shore	Feb. 14, 1940	1110-40		1 ♀ ov	
San Gabriel Bay	1	Mar. 15, 1949	1737-49	1 ♂		2 yg
San Gabriel Bay	shore	Mar. 13, 1949	1734-49	1 ♂		
Los Frailes						
Revilla Gigedo Islands						
Socorro Island	shore	Jan. 3, 1934	131-34	2 ♂	1 ♀	
Braithwaite Bay	4-10	June 8, 1934	290-34	1 ♂		2 yg
Braithwaite Bay						
Clarion Island	shore	Jan. 5, 1934	140-34	4 ♂	7 ♀ (4 ov)	
Sulphur Bay	shore	June 10, 1934	298-34		1 ♀ ov	
Mexico						
Nayarit						
Isabel Island	shore	Mar. 19, 1933	124-33	1 ♂	1 ♀ ov	det. M. J. Rathbun
Isabel Island	shore	Mar. 19, 1933	125-33	1 ♂		
Guerrero	shore					
Santa Lucia Bay, Acapulco	1-4	Feb. 1-2, 1954	2596-54	13 ♂	9 ♀ (6 ov)	
Oaxaca						
Tangola Tangola and Santa Cruz Bays	15-20	Feb. 28, 1934	259-34			1 yg
Tangola Tangola Bay	shore	Mar. 1, 1934	260-34	1 ♂	2 ♀ ov	
Tangola Tangola Bay	shore	Mar. 1, 1934	261-34	2 ♂	2 ♀	1 yg

TELEPHRYX CRISTULIPES (cont.)						
Locality	Fms.	Date	Sta.	Number and Sex	Remarks	
Costa Rica						
Port Parker	shore	Feb. 9, 1935	466-35	2 ♂	1 ♀ ov	
Port Parker	2	Feb. 9, 1935	467-35	1 ♀ ov	1 ♀ ov	
Port Parker	shore	Feb. 9, 1935	473-35	11 ♂	5 ♀ (3 ov)	2 yg
Port Parker	5-10	Mar. 25, 1939	936-39		1 ♀	
Playa Blanca	shore	Feb. 8, 1935	464-35	1 ♂	2 ♀	
Playa Blanca	shore	Feb. 8, 1935	465-35	3 ♂	16 ♀ (6 ov)	
Cocos Island						
Chatham Bay	shore	Jan. 14, 1938	778-38		1 ♀ ov	
Port Culebra						
Near South Viradores Islands	shore	Feb. 25, 1934	258-34	2 ♂	6 ♀ ov	1 yg
Panama						
Secas Islands	shore	Feb. 22, 1934	252-34	10 ♂	7 ♀ (5 ov)	
Secas Islands	shore	Feb. 4, 1935	446a-35	9 ♂	10 ♀ ov	5 yg
Secas Islands	shore	Feb. 4, 1935	446b-35	2 ♂	1 ♀ ov	
Secas Islands	shore	Feb. 4, 1935	447-35	2 ♂	13 ♀ ov	3 yg
Secas Islands	shore	Feb. 6, 1935	454-35	2 ♂	1 ♀ ov	
Secas Islands	shore	Mar. 2, 1938	867-38	4 ♂	7 ♀ (5 ov)	
Bahia Honda	shore	Mar. 9, 1933	111-33			1 yg
Bahia Honda	shore	Mar. 10, 1933	114-33	2 ♂	2 ♀	det. M. J. Rathbun
Bahia Honda	shore	Feb. 21, 1934	247-34	2 ♂	5 ♀	det. M. J. Rathbun
Panama City	shore	Feb. 2, 1935	445-35	6 ♂	1 ♀ ov	
Taboga Island	shore	May 2, 1939	958-39		(4 ov)	
Piñas Bay	shore	Jan. 28, 1935	437-35	3 ♂	2 ♀	
Piñas Bay	2-4	Jan. 29, 1935	444-35	9 ♂	7 ♀ (3 ov)	

Colombia										
Octavia Bay	shore	Jan. 28, 1935	435-35	4 ♂	6 ♀ (5 ov) 14 ♀	1 yg				
Port Utria	shore	Feb. 15, 1934	239-34	14 ♂	(10 ov) 4 ♀	1 yg				
Port Utria	shore	Jan. 23, 1935	414-35	2 ♂	1 ♀					♂ photo
Port Utria	2 shore	Jan. 24, 1935	419-35		1 ♀					
Cape Corrientes	10 shore	Feb. 25, 1938	859-38	1 ♂	1 ♀ ov					
Gorgona Island	shore	Feb. 13, 1934	230-34		3 ♀	1 yg				
Gorgona Island		Feb. 12, 1934	222-34	7 ♂	(1 ov) 2 ♀					
Gorgona Island	5-6	Feb. 12, 1934	227-34		(1 ov) 1 ♀ ov					
Gorgona Island	3	Jan. 21, 1935	404-35		1 ♀ ov					
Gorgona Island	20	Jan. 22, 1935	409-35		1 ♀ ov					
Gorgona Island	shore	Jan. 22, 1935	411-35	6 ♂	9 ♀ ov	1 yg				
Gorgona Island	shore	Jan. 22, 1935	412-35		1 ♀ ov					
Ecuador										
Manta Bay	1 shore	Jan. 19, 1935	401-35		1 ♀ ov					
Manta Bay		Jan. 20, 1935	403-35	1 ♂						
Off La Plata Island	10	Jan. 22, 1933	23-33	2 ♂						
Off La Plata Island	3	Apr. 13, 1941	80	3 ♂	3 ♀ (2 ov)					Askey
Peru										
9½ mi SW of Zorritos Light	shore	Feb. 16, 1938	847-38	1 ♂						USNM 71030
Paita		October 1926		10 ♂	4 ♀ ov					W. L. Schmitt USNM 61513
Paita		Oct. 6, 1926		1 ♂						W. L. Schmitt USNM 71031
Paita		Oct. 6, 1926		55 ♂	74 ♀ (23 ov)	14 yg				W. L. Schmitt

TABLE 79

TELLOPHRYS TUMIDUS (CANO)

TELEOPHRYS TUMIDUS (cont.)						
Locality	Fms.	Date	Sta.	Number and Sex	Remarks	
Peru (cont.)						
Paita		Oct. 6, 1926		1 ♂	USNM 72223 W. L. Schmitt	
Paita		Oct. 6, 1926		1 ♂	USNM 72657 W. L. Schmitt	
Paita		Oct. 7, 1926		2 ♂	USNM 71028 W. L. Schmitt	
Paita		Oct. 8, 1926		16 ♂	W. L. Schmitt USNM 76576	
Paita		Oct. 8, 1926		13 ♂	W. L. Schmitt USNM 71029	
Paita	shore	Oct. 13, 1926		1 ♀	W. L. Schmitt USNM 71027	
Sechura Bay	9½	Feb. 15, 1938	845-38	2 ♀	1 yg	
Lobos de Afuera Islands	shore	Jan. 17, 1935	391-35	2 ♂	9 ♀ (5 ov)	
Lobos de Afuera Islands	shore	Feb. 14, 1938	844-38	8 ♂	8 ♀ (4 ov)	
Lobos de Afuera Islands	shore	Feb. 14, 1938	(none)	14 ♂	8 ♀ (4 ov)	
Independencia Bay	10	Feb. 9, 1938	829-38	1 ♂	♂ photo, pleopod	
TABLE 80						
MICROPHRYS WEDDELLI MILNE EDWARDS						
Ecuador						
Guayaquil		1926?		2 ♀ (1 ov)	USNM 70994 W. L. Schmitt	
Peru						
Paita		October 1926		2 ♀ (1 ov)	USNM 71230 W. L. Schmitt	

	Oct. 6, 1926	Oct. 8, 1926	Oct. 8, 1926	Oct. 13, 1926	3 ♂	5 ♀ (1 ov)	4 yg	USNM 71231 W. L. Schmitt USNM 71215 W. L. Schmitt USNM 76571 W. L. Schmitt USNM 71229 W. L. Schmitt, ♂ photo, pleopod
Paita								
Paita					1 ♂			
Paita					2 ♂	2 ♀ (1 ov)		
Paita					7 ♂	1 ♀		
TABLE 81								
MICROPERYS PLATYSOMA (STIMPSON)								
Lower California				Apr. 18, 1951	2025-51	1 ♀		
10 mi W of Malarrimo Point								
Gulf of California								
Angel de la Guarda Island								
Puerto Refugio Bay	Jan. 27, 1940	1049-40				1 ♀		
Puerto Refugio Bay	Jan. 28, 1940	1053-40				1 ♀		
Agua Dulce Bay, Tiburon Island	June 15-20, 1951				2 ♂	8 ♀ (4 ov)		W. N. Smith II, coll.
S shore of Tiburon Island	Jan. 25, 1940	1045-40			2 ♂ (1 yg)	2 ♀		
Turner's Island	Jan. 24, 1940	1042-40			2 ♂	3 ♀		
Vicinity of Puerto San Carlos	Mar. 24, 1949	1767-49				1 ♀		
Vicinity of Puerto San Carlos	Mar. 24, 1949	1765-49			2 ♂			
Ensenada de San Francisco	May 17, 1946	1516-46				1 ♀		
Bahia Catalina, Sonora	Feb. 9, 1940	1092-40			4 ♂	1 ♀		
Off Concepcion Bay	Mar. 15, 1937	683-37			1 ♂	2 ♀		
Aguja Point	Mar. 26, 1949	1769-49				1 ♀ ov		
Agua Verde Bay	Mar. 11, 1937	662-37			1 ♂			
Agua Verde Bay	Feb. 12, 1940	1104-40				1 ♀		
Agua Verde Bay	Mar. 16, 1949	1740-49			1 ♂	1 ♀		
Puerto Escondido	Mar. 12, 1937	670-37				1 ♀ ov		
E of San Francisco Island	Feb. 24, 1936	515-36				1 ♀		color note

MICROPHRYS FLATYSOMA (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California (cont.)					
Espiritu Santo Island					
Ballenas Bay	shore	Mar. 21, 1936	608-36	2 ♂	6 ♀ (3 ov)
Cove S of Ballenas Bay	shore	Feb. 22, 1936	510-36		1 ♀
San Gabriel Bay	shore	Mar. 6, 1937	634-37	1 ♂	1 ♀
San Gabriel Bay	shore	Mar. 7, 1937	638-37	2 ♂	1 ♀
San Gabriel Bay	1-2	Feb. 14, 1940	1110-40	1 ♂	1 ♀ ov
San Gabriel Bay	shore	Feb. 14, 1940	1112-40	1 ♂	
San Gabriel Bay	1	Mar. 15, 1949	1737-49	4 ♂	3 ♀
Mazatlan, Sinaloa	shore	Dec. 6, 1946	D68	1 ♂	
1 mi NE of Cabeza Ballena	shore	Mar. 11, 1949	1727-49	1 ♂	2 ♀
Revilla Gigedo Islands					
Socorro Island					
Off Cape Rule	4-10	June 8, 1934	291-34		1 ♀
Mexico					
Tres Marias Islands					
Magdalena Island	13	May 9, 1939	970-39	1 ♂	
Magdalena Island	3-5	May 9, 1939	971-39	3 ♂	
Jalisco					
Tenacatita Bay	shore	Feb. 15, 1935	487-35	1 ♂	
Panama					
Changamé	shore	May 1, 1938		2 ♂	2 ♀ ov
Colombia					
Gorgona Island	2½	Apr. 20, 1941	89	1 ♂	
Ecuador					
Off La Libertad	10	Jan. 20, 1933	15-33		1 specimen
Punta Santa Elena	shore	Sept. 16, 1926			
S of Santa Elena Point	shore	Jan. 18, 1933	10-33	1 ♂	

E. Y. Dawson, coll.

♂ photo, pleopod

Elinor D. Robson, coll.

Askoy

det. M. J. Rathbun
as *M. aculeatus*

USNM 70941

W. L. Schmitt,

det. M. J. Rathbun

as *Macrocneloma**heptacanthum*

TABLE 82
MICROPHYS TRIANGULATUS (LOCKINGTON)

Gulf of California									
Off Concepción Bay	12	Mar. 15, 1937	683-37			1 ♀ ov			
Puerto Escondido	7	Mar. 18, 1949	1747-49			1 ♀ yg			
Agua Verde Bay	5-10	Feb. 27, 1936	521-36	1 ♂					
Agua Verde Bay	8	Mar. 11, 1937	662-37	2 ♂		1 ♀ ov			
Agua Verde Bay	10	Feb. 20, 1940	1101-40	1 ♂		1 ♀			1 yg
Agua Verde Bay	shore	Feb. 13, 1940	1103-40	4 ♂		3 ♀			
N of San Francisco Island	22	Mar. 8, 1937	647-37	2 ♂		1 ♀			
E of San Francisco Island	15	Feb. 25, 1936	517-36			2 ♀			
Off San Francisco Island	43-44	Feb. 13, 1940	1106-40	1 ♂		1 ♀			
Espiritu Santo Island		Feb. 17, 1932	20-32			1 ♀ ov			
Isla Partida		May 7, 1932				1 ♀ ov			
Off Ballenas Bay	8	Mar. 8, 1937	643-37	2 ♂		1 ♀			det. M. J. Rathbun
S of Ballenas Bay	shore	Feb. 22, 1936	510-36						
San Gabriel Bay	shore	Feb. 22, 1936	506-36			1 ♀ ov			1 yg
San Gabriel Bay	shore	Feb. 14, 1940	1112-40			8 ♀			
San Lorenzo Channel	2-4	Mar. 21, 1936	607-36	6 ♂		(2 ov)			
San Lorenzo Channel	3-5	Mar. 7, 1937	639-37			1 ♀			
San Lorenzo Channel	6-13	Feb. 14, 1940	1111-40	2 ♂		4 ♀			color note 445
San Lorenzo Channel	13	Mar. 15, 1949	1738-49	1 ♂					
Mexico									
Nayarit									
Isabel Island	10-18	Apr. 2, 1937	745-37	4 ♂		2 ♀			♂ photo, pleopod color sketch
Isabel Island	10-15	Mar. 8, 1938	870-38	1 ♂					
Isabel Island	15-25	May 9, 1939	974-39	1 ♂		1 ♀ ov			
Tres Marias Islands									
Magdalena Island	13	May 9, 1939	970-39			2 ♀ ov			
Guerrero									
Acapulco									
Santa Lucia Bay		September 1946	1569-46			5 ♀			1 yg
Panama		Sept. 15, 1946	1561-46			(3 ov)			2 yg
Bahia Honda	15-25	Feb. 21, 1934	245-34	1 ♂		1 ♀			C. L. Hubbs, coll. C. L. Hubbs, coll.

TABLE 83
MICROPHRYX BRANCHIALIS RATHBUN

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Lower California					
Dewey Channel					
4 mi N of Dewey Channel	24-25	Feb. 27, 1941	1261-41	1 ♂	♂ pleopod
Opposite San Eugenio Point	21-26	Feb. 27, 1941	1260-41	5 ♂	br. 118° T. photo
4 mi ESE of Abreojos Point	20-21	Apr. 29, 1950	1955-50	1 ♂	
Hutchins Bank	28	May 1, 1950	1957-50	1 ♂	
San Juanico Bay	16	Mar. 2, 1937	616-37	1 ♂	
San Juanico Bay	24	Mar. 2, 1937	617-37	1 ♂	
Santa Maria Bay					
½ mi SE of Hughes Point	5-18	Apr. 4, 1949	1787-49	2 ♂	4 yg
Magdalena Bay					
5 mi NE of Entrada Point	13	Mar. 8, 1949	1715-49	1 ♂	1 ♀
2 mi E of Entrada Point	17-18	Mar. 8, 1949	1714-49	7 ♂	6 ♀
1 mi off Entrada Point	28-34	May 3, 1950	1965-50	3 ♂	5 ♀
4¼ mi NE of Redondo Point Light	9	Mar. 8, 1949	1717-49	1 ♀	1 yg
3.3 mi from Belcher Point	13-15	May 3, 1950	1971-50	3 ♂	br. 043° T.
Marcy Channel	13	Mar. 9, 1949	1718-49	1 ♂	1 yg
Gulf of California					
Angeles Bay	18	Mar. 20, 1937	702-37	2 ♀	(1 ov)
Agua Verde Bay	10	Feb. 12, 1940	1101-40	1 ♂	
Mexico					
Nayarit					
Isabel Island	10-25	Mar. 5, 1934	277-34	1 ♂	
Jalisco					
Tenacatita Bay	25-35	Mar. 4, 1934	275-34	3 ♂	1 ♀

Guerrero									
Petatlan Bay	25	Mar. 2, 1934	264-34	1 ♂	1 ♀				
Petatlan Bay	25	Mar. 3, 1934	268-34	28 ♂	30 ♀				
Santa Lucia Bay, Acapulco	1-4	Feb. 1-2, 1934	2596-34		(13 ov)				
Costa Rica									
Port Culebra	3-10	Feb. 24, 1934	254-34	6 ♂	1 ♀	1 yg			
Off South Viradores Islands	10	Feb. 25, 1934	257-34		7 ♀				
Cocos Island									
Off Nuez Island	31-50	Jan. 13, 1938	772-38	1 ♂	2 ♀	2 yg			
Off Nuez Island	31-50	Jan. 13, 1938	773-38	2 ♂	4 ♀				
Panama									
Secas Islands	14	Feb. 5, 1935	450-35	1 ♂	1 ♀				
Secas Islands	12	Feb. 6, 1935	457-35	2 ♂					det. M. J. Rathbun
Secas Islands	5-20	Feb. 6, 1935	458-35		1 ♀				
Bahia Honda	15-20	Feb. 22, 1934	249-34	1 ♂					
Bahia Honda	30-50	Mar. 1, 1938	863-38		2 ♀				
Bahia Honda	30-35	Mar. 28, 1939	948-39		1 ♀				
Colombia									
Port Utria	20	Jan. 25, 1935	423-35	1 ♂					
Ecuador									
Off La Plata Island	10	Jan. 22, 1933	23-33		1 ♀				
Off La Plata Island	7-10	Feb. 10, 1934	213-34	1 ♂					det. M. J. Rathbun
Off Santa Elena Bay	8-10	Feb. 9, 1934	209-34	2 ♂	1 ♀				♂ pleopod
Lower California									
Magdalena Bay	13	Mar. 8, 1949	1715-49		1 ♀				
5 mi NE of Entrada Point	12	Mar. 9, 1949	1720-49	1 ♂					
W entrance to Almejas Bay									

TABLE 84

STENOCIONOPS ANGUSTA (LOCKINGTON)

STENONCOPUS ANGUSTA (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California					
Off Rocky Point, Sonora	10-11	Feb. 2, 1940	1072-40	1 ♂	♂ pleopod
Off Rocky Point, Sonora	3-10	Feb. 3, 1940	1073-40	1 ♂	
Tepoca Bay, Sonora	11-13	Feb. 4, 1940	1078-40	1 ♂	
Angel de la Guarda Island					
Puerto Refugio	15-30	Mar. 4, 1936	542-36	2 ♂	
Puerto Refugio	15	Mar. 20, 1937	705-37	1 ♀	
Puerto Refugio	8-10	Mar. 20, 1937	706-37	1 ♀	
Puerto Refugio	11-22	Jan. 26, 1940	1048-40	4 ♀	
Puerto Refugio	21	Jan. 27, 1940	1051-40	1 ♀	
E of Angel de la Guarda Island	10	Mar. 8, 1936	554-36	2 ♀	
Angeles Bay	18	Mar. 20, 1937	702-37	1 ♂	
Off S end, Tiburon Island	8-10	Mar. 10, 1936	564-36	1 ♂	photo
Ensenada de San Francisco, Sonora	15	Mar. 30, 1937	737-37	1 ♂	
Ensenada de San Francisco, Sonora	2-6	Feb. 7, 1940	1088-40	1 ♂	
Concepción Bay	2-3	Mar. 14, 1936	584-36	1 ♂	
Coyote Bay W of Fargo Island	3-7	Mar. 27, 1949	1771-49	1 ♂	
Puerto Escondido	10-15	Mar. 16, 1936	594-36	1 specimen	carapace only
Puerto Escondido	10	Mar. 16, 1936	597-36	1 ♀	crushed
Agua Verde Bay	15	Mar. 11, 1937	663-37	1 ♂	
E of San Francisco Island	shore	Feb. 24, 1936	515-36	1 ♀	det. M. J. Rathbun
Espiritu Santo Island					
Off Ballenas Bay	8	Mar. 8, 1937	643-37	1 ♀	
San Gabriel Bay	18	Mar. 6, 1937	633-37	1 ♀ ov	
San Lorenzo Channel	5-15	Feb. 19, 1936	498-36	1 ♂	
San Lorenzo Channel	24	Mar. 21, 1936	607-36	1 ♀	
San Lorenzo Channel	13	Mar. 15, 1949	1738-49	1 ♂	

TABLE 85

STENOCIONOPS OVATA (BELL)

Gulf of California	40-55	Mar. 10, 1936	563-36	1 ♀	
Off S end of Tiburón Island Mexico					
Tres Marias Islands 2.5 mi SW of SE pt., Cleopha Island	20-41	Feb. 8, 1954	2602-54	1 carapace	broken
Costa Rica					
Port Culebra					
Off South Viradores Islands	10	Feb. 25, 1934	257-34	1 ♂	
Cocos Island					
Off Nuez Island	31-50	Jan. 13, 1938	773-38	1 ♂ yg	
Panama					
Off Jicarita Island	30	Feb. 20, 1934	242-34	1 ♀	
Bahia Honda	30-35	Feb. 21, 1934	244-34	1 ♂	photo
Bahia Honda	30-35	Mar. 28, 1939	948-39	1 ♀	
Colombia					
Off Cape Corrientes	10	Feb. 13, 1934	231-34	1 ♀	
Ecuador					
Off Santa Elena Bay	8-10	Feb. 9, 1934	209-34	1 ♀ yg	

TABLE 86

STENOCIONOPS BEEBEI GLASSELL

Lower California					
Off Santa Maria Bay	18-25	Jan. 19, 1940	1031-40		1 yg
Gulf of California					
Angel de la Guarda Island					
Puerto Refugio	15-30	Mar. 4, 1936	542-36	1 ♀	
Angeles Bay	18	Mar. 20, 1937	702-37	1 ♂	
S of Tiburón Island	20	Mar. 11, 1936	566-36	3 ♀	photo, pleopod comp. with type
Ensenada de San Francisco	15-18	Feb. 7, 1940	1087-40	1 ♀	
Puerto Escondido	20	Mar. 16, 1936	596-36	1 ♂	

TABLE 87
MACROCOELOMA MACCULLOCHAE GARTH

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Mexico					
Nayarit					
Isabel Island	10-18	Apr. 2, 1937	747-37	1 ♂	holotype, AHF 372, photo, pleopod paratypes
Isabel Island	10-15	Mar. 8, 1938	870-38	2 ♂	1 yg
Tres Marias Islands Magdalena Island	13	May 9, 1939	970-39	1 ♀ ov	
Costa Rica					
Port Parker	30	Feb. 9, 1935	468-35	1 ♀	
Ecuador					
Off Santa Elena Bay (La Libertad)	8-10	Feb. 9, 1934	209-34	1 ♂	
La Libertad	5-12	Feb. 21, 1939		1 ♂	F. E. Lewis, coll.

TABLE 88
MACROCOELOMA VILLOSUM (BELL)

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California					
Agua Verde Bay	shore	Feb. 12, 1940	1099-40	1 ♂	
Ecuador					
Manta Bay	shore	Jan. 19, 1935	400-35	1 ♂	
Manta Bay	shore	Jan. 20, 1935	403-35	1 ♂	
Salinas		Sept. 12-14, 1926		3 ♂	photo, pleopod USNM 70942 W. L. Schmitt
				1 ♀	

TABLE 89
HEMUS ANALOGUS RATHBUN

Gulf of California						
Concepción Bay						
Coyote Bay W of Bargo Island	3-7	Mar. 27, 1949	1771-49	1 ♂	3 ♀ (2 ov)	1 yg
Carmen Island						
Salinas Bay	7	Mar. 20, 1949	1755-49	1 ♂	1 ♀	
Agua Verde Bay	5-10	Feb. 27, 1936	521-36		1 ♀	
Espiritu Santo Island						
Isla Partida		May 7, 1932	(none)		1 ♀ ov	<i>Velero III</i> , photo
San Gabriel Bay	1-4	Feb. 22, 1936	506-36	2 ♂	2 ♀	♂ pleopod
Mexico						
Tenacatita Bay						
W of islets off Navidad Head	25-35	Mar. 4, 1934	275-34		1 specimen	broken, mature ♂ chelae

TABLE 90
HEMUS FINNEGANA, NEW SPECIES

Gulf of California						
Angel de la Guarda Island						
Puerto Refugio	11-22	Jan. 26, 1940	1048-40		1 ♀	
Puerto Refugio	21	Jan. 27, 1940	1051-40		1 ♀	
Puerto San Carlos	shore	Feb. 8, 1940	1091-40		1 ♀	photo
Off San Francisco Island	30	Feb. 24, 1936	513-36		1 ♀ yg	
Espiritu Santo Island						
San Gabriel Bay	shore	Mar. 7, 1937	638-37		1 ♀	crushed
San Gabriel Bay	1	Mar. 15, 1949	1737-49		1 ♀	

HEMUS FINNEGANAE (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Revilla Gigedo Islands					
Clarion Island	14	Jan. 5, 1934	134-34	1 ♂	
Sulphur Bay	32	Jan. 5, 1934	136-34	1 ♀ ov	
Costa Rica					
Salinas Bay	1½	Feb. 11, 1935	478-35	1 ♂	paratype
Port Culebra	3-10	Feb. 24, 1934	254-34	1 ♀ ov	allotype
Off South Viradores Islands	10	Feb. 25, 1934	257-34	1 ♂	holotype, USNM 100918
Panama					
Secas Islands	12	Feb. 6, 1935	457-35	1 ♂	paratype, pleopod
Bahia Honda	15-20	Feb. 22, 1934	249-34	1 ♂	paratype, det. M. J. Rath-
Bahia Honda	2-5	May 2, 1939	959-39	2 ♀ (1 ov)	bun as <i>H. analogus</i>
Colombia					
Off Gorgona Island	10	Feb. 12, 1934	224-34	1 ♀	paratypes, color note 223
Ecuador					
Santa Elena Bay, near S shore	7-10	Feb. 9, 1934	210-34	2 ♀ ov	
TABLE 91					
THOSE SULCATA SULCATA STIMPSON					
Gulf of California					
Angel de la Guarda Island		Mar. 4, 1936	545-36	1 ♂	
Puerto Refugio	shore	Mar. 21, 1937	713-37	1 ♀	
Puerto Refugio	shore	Jan. 27, 1940	1049-40	2 ♂	
Puerto Refugio	shore	Jan. 28, 1940	1053-40	2 ♂	
Agua Dulce Bay, Tiburón Island	shore	June 15-20, 1951		9 ♀ (3 ov)	W. N. Smith II, coll.

S shore, Tiburon Island	shore	Jan. 25, 1940	1045-40		3 ♀	
Turner's Island, S of Tiburon Island	shore	Jan. 24, 1940	1042-40	1 ♂		
San Esteban Island	shore	Feb. 5, 1940	1083-40	1 ♂		
Vicinity of Puerto San Carlos	shore	Mar. 24, 1949	1767-49	4 ♂		
Bahía Catalina, off Guaymas, Sonora	shore	Feb. 9, 1940	1092-40	1 ♂	1 ♀	
Concepción Bay	shore	Mar. 26, 1949	1769-49	2 ♂	3 ♀	
Agujía Point	shore	Mar. 10, 1937	659-37	1 ♂		
Agua Verde Bay	shore	Mar. 11, 1937	664-37	2 ♂	1 ♀	
Agua Verde Bay	shore	Feb. 12, 1940	1104-40	1 ♂	1 ♀	
San Francisco Island	shore	Mar. 8, 1937	646-37	7 ♂	8 ♀	
San Francisco Island	shore	Mar. 9, 1937	652-37	6 ♂	2 ♀	
					(1 ov)	
North Bay	shore	Feb. 25, 1936	518-36	3 ♂	3 ♀	
E of San Francisco Island	shore	Feb. 24, 1936	515-36	2 ♂	1 ♀	
Espiritu Santo Island						
Ballenas Bay	shore	Feb. 23, 1936	512-36	3 ♂	2 ♀	
Cove S of Ballenas Bay	shore	Feb. 22, 1936	510-36	3 ♂	3 ♀	
San Gabriel Bay	shore	Feb. 20, 1936	501-36	1 ♂	1 ♀	
San Gabriel Bay	shore	Mar. 7, 1937	638-37	1 ♂		
San Gabriel Bay	1-2	Feb. 14, 1940	1110-40	1 ♂		1 yg
San Gabriel Bay	1	Mar. 15, 1949	1737-49	2 ♂		
Ensenada de los Muertos	shore	Mar. 5, 1937	626-37	1 ♂		
Los Frailes	shore	Mar. 13, 1949	1734-49	9 ♂	6 ♀	
1 mi NE of Cabeza Ballena	shore	Mar. 11, 1949	1727-49	3 ♂	1 ♀	
Revilla Gigedo Islands						
Socorro Island						
Braithwaite Bay	shore	Jan. 3, 1934	131-34	2 ♂	3 ♀	
Clarion Island						
Sulphur Bay	shore	Jan. 5, 1934	139-34	1 ♂		
Sulphur Bay	shore	Jan. 5, 1934	140-34	4 ♂	2 ♀	
					(1 ov)	1 yg

♂ photo, pleopod

THOE SULCATA SULCATA (cont.)

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Revilla Gigedo Islands (cont.)					
Clarion Island (cont.)					
Sulphur Bay	shore	Jan. 5, 1934	141-34	2 ♂	
Sulphur Bay	shore	June 10, 1934	298-34	1 ♀ ov	
Sulphur Bay	shore	Mar. 16, 1939	916-39	2 ♂	
				(2 ov)	
Mexico					
Nayarit					
Isabel Island	shore	Mar. 19, 1933	124-33	3 ♀	1 spec. det. M. J. Rathbun
Isabel Island	shore	Mar. 19, 1933	125-33	1 ♀ ov	
Oaxaca					
Tangola Tangola Bay	shore	Mar. 1, 1934	260-34	2 ♀	
Tangola Tangola Bay	shore	Mar. 1, 1934	261-34	2 ♀	
				(1 ov)	

TABLE 92

THOE SULCATA PANAMENSIS NOBILI

Costa Rica					
Salinas Bay	shore	Feb. 10, 1935	474-35	1 ♀ ov	
Port Parker	shore	Feb. 9, 1935	466-35	3 ♀	
				(2 ov)	
Port Parker	shore	Feb. 9, 1935	473-35		1 yg
Playa Blanca	shore	Feb. 8, 1935	465-35	13 ♂	det. M. J. Rathbun ♂ photo
				21 ♀	
				(15 ov)	

Port Culebra										
Near South Viradores Islands	shore	Feb. 25, 1934	258-34	1 ♂						
Panama										
Secas Islands	shore	Feb. 22, 1934	252-34	1 ♂	2 ♀ (1 ov) 1 ♀					
Secas Islands	shore	Mar. 2, 1938	866-38							
Secas Islands	shore	Mar. 2, 1938	867-38							
Bahia Honda	2	Mar. 10, 1933	114-33							
Bahia Honda	shore	Feb. 21, 1934	247-34	2 ♂	2 ♀					det. M. J. Rathbun
Bahia Honda	shore	Mar. 1, 1938	861-38		2 ♀ ov					
Taboga Island	shore	May 2, 1939	958-39		1 ♀					
Colombia										
Octavia Bay	shore	Jan. 27, 1935	433-35		2 ♀ (1 ov)					
Octavia Bay	shore	Jan. 28, 1935	435-35		1 ♀ ov					
Port Utria	shore	Feb. 14, 1934	232-34	3 ♂	1 ♀ ov					
Port Utria	shore	Feb. 15, 1934	239-34	3 ♂						
Port Utria	shore	Jan. 23, 1935	413-35		4 ♀					♂ pleopod
Port Utria	shore	Jan. 24, 1935	419-35							
Port Utria	shore	Feb. 25, 1938	859-38		3 ♀					
Gorgona Island	shore	Jan. 22, 1935	405-35	1 ♂						
Gorgona Island	2½	Apr. 20, 1941	89	1 ♂	1 ♀					<i>Askey</i>
Ecuador										
Salinas		Sept. 12-15, 1926			1 ♀					
										USNM 70987 W. L. Schmitt

TABLE 93
 PARTHENOPE (PARTHENOPE) HYPONCA (STIMPSON)

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Mexico					
Jalisco					
Tenacatita Bay	25	Mar. 4, 1934	272-34	1 specimen	cheiiped only
Tenacatita Bay	5	Feb. 15, 1935	485-35	1 ♂	
Tenacatita Bay	8-15	May 8, 1939	965-39	1 ♀	color note 246, photo
Costa Rica					
Playa Blanca	shore	Feb. 8, 1935	465-35	1 ♀	
Panama					
Piñas Bay	25	Jan. 29, 1935	438-35	1 ♂	
Piñas Bay	15	Jan. 29, 1935	440-35	1 ♂	1 yg pleopods
Colombia					
Port Utria	10	Jan. 24, 1935	417-35	1 ♀	
Off Cape Corrientes	10	Feb. 13, 1934	231-34	4 specimens	1 yg
Ecuador					
Salango Island	3	Jan. 18, 1935	397-35	1 ♂	1 ♀ ?
Salango Island	8	Jan. 18, 1935	399-35		1 specimen

TABLE 94
 PARTHENOPE (PLATYLAMBRUS) EXILIPES (RATHBUN)

Gulf of California									
Boca de la Trinidad	51-54	Jan. 21, 1940	1037-40	2 ♂				3 yg	
Inner Gorda Bank	70-78	Jan. 20, 1940	1035-40		4 ♀			1 yg	
Inner Gorda Bank	59-78	Feb. 17, 1940	1118-40	2 ♂	1 ♀			1 yg	
Outer Gorda Bank	59-95	Jan. 20, 1940	1034-40		1 ♀				
1¼ mi SW of Cabeza Ballena	30	Mar. 11, 1949	1726-49		1 ♀				br. 209° T.
Revilla Gigedo Islands									
Socorro Island									
Braithwaite Bay	shore	Jan. 3, 1934	131-34	1 ♂					det. M. J. Rathbun
Mexico									
Tres Marias Islands									
2.5 mi SW of SE pt. Cleopha Island	20-41	Feb. 18, 1954	2602-54	2 ♂	11 ♀				
Jalisco									
Tenacatita Bay	25-35	Mar. 4, 1934	275-34					2 yg	
Oaxaca									
Chacabua Bay	40-50	Jan. 9, 1938	767-38		1 ♀			3 yg	
Panama									
Secas Islands	25-26	Mar. 27, 1939	945-39	1 ♂					color note 38
10 mi SW of Secas Islands	30	Mar. 27, 1939	944-39					2 yg	
Off Pacora Island	15-25	Feb. 21, 1934	245-34	2 ♂					
Off Medidor Island	30-35	Mar. 28, 1939	948-39	1 ♂	3 ♀			1 yg	
Colombia									
Port Utria	shore	Feb. 15, 1934	239-34		1 ♀				
Peru									
Lobos de Afuera Islands	25-30	Feb. 14, 1938	843-38	1 ♂	6 ♀				♂ photo, pleopods
North Bay	20-22	Jan. 17, 1935	392-35	1 ♂	(2 ov)				
North Bay	12	Jan. 17, 1935	393-35		1 ♀				

TABLE 95
 PARTHENOPE (*PLATYLAMBRUS*) *DEPRESSUSCULA* (STIMPSON)

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Mexico					
Nayarit					
Isabel Island	10-25	Mar. 5, 1934	277-34	1 ♂	
Isabel Island	10-18	Apr. 2, 1937	747-37	1 ♂	
Isabel Island	10-15	Mar. 8, 1938	870-38	1 ♂ 1 ♀	color sketch
Costa Rica					
Salinas Bay	1½	Feb. 11, 1935	478-35	1 specimen	
Salinas Bay	6	Feb. 11, 1935	481-35	1 ♂ 1 ♀	
Panama					
Secas Islands	5-20	Feb. 6, 1935	458-35	1 ♀	
Bahia Honda	15-20	Feb. 22, 1934	249-34	1 ♀ ov	
Taboga Island	2-5	May 2, 1939	959-39	2 ♂ 3 ♀	1 yg color note 220, ♂ photo, pleopods
Colombia					
Octavia Bay	2	Jan. 28, 1934	434-34	1 specimen	
Port Utria	15-30	Feb. 25, 1938	856-38	1 ♀	
Ecuador					
Off Cape San Francisco	2	Feb. 11, 1934	214-34	8 specimens	
Off Cape San Francisco	15	Feb. 25, 1938	850-38	1 ♂ 1 ♀	
Off Santa Elena Bay	8-10	Feb. 9, 1934	209-34	1 specimen	carapace only, det. M. J. Rathbun

TABLE 96
 PARTHENOPE (*PSEUDOLAMBRUS*) TRIANGULA (STIMPSON)

Lower California							
Magdalena Bay							
2 mi E of Entrada Point	17-18	Mar. 8, 1949	1714-49	1 ♂			
1¾ mi NE of Cape San Lucas	10	Mar. 11, 1949	1724-49	1 ♂	1 ♀		br. 057° T., ♀ photo, with rhizocephalan
Gulf of California							
Puerto Escondido	20	Mar. 16, 1936	596-36	2 ♂			
Agua Verde Bay	8	Mar. 11, 1937	662-37	1 ♂ yg			
E of San Francisco Island	15	Feb. 25, 1936	517-36	1 ♂			
San Lorenzo Channel	24	Mar. 21, 1936	607-36		1 ♀ yg		
San Lorenzo Channel	3-5	Mar. 7, 1937	639-37	1 ♂			pleopods
Off Los Frailes	5-15	Apr. 4, 1937	751-37	5 ♂	2 ♀ (1 ov)		
Revilla Gigedo Islands							
Socorro Island							
Braithwaite Bay	14-18	Jan. 3, 1934	129-34	1 ♂			
Braithwaite Bay	20-40	Jan. 4, 1934	132-34, 133-34	1 ♂	2 ♀		1 yg
Braithwaite Bay	20	Jan. 4, 1934	133-34	7 ♂	5 ♀		
Off Cape Rule	4-10	June 8, 1934	291-34	1 ♂	1 ♀		
SE of Cape Rule	20	June 8, 1934	293-34	1 ♂			
Clarion Island							
Off Sulphur Bay	20	June 11, 1934	304-34		1 ♀		
Off Sulphur Bay	15	June 11, 1934	305-34		1 ♀		
Ecuador							
Off La Plata Island	10	Jan. 22, 1933	23-33	3 ♂	1 ♀		det. M. J. Rathbun
Off La Plata Island	7-10	Feb. 10, 1934	213-34		5 ♀		

TABLE 97
 PARTHENOPE (PSEUDOLAMBRUS) EXCAVATA (STIMPSON)

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California Angel de la Guarda Island Puerto Refugio	11-22	Jan. 26, 1940	1048-40	1 ♂	
Mexico Nayarit Isabel Island Isabel Island	10-25 10-18	Mar. 5, 1934 Apr. 2, 1937	277-34 747-37	1 ♂ 1 ♂	1 ♀
Panama Taboga Island Taboga Island	2-5 2-5	May 2, 1939 May 2, 1939	959-39 960-39	1 ♂	1 ♀ color note 225, photo pleopods, photo

TABLE 98
 PARTHENOPE (PSEUDOLAMBRUS) STIMPSONI, NEW SPECIES

Mexico Nayarit Isabel Island Tres Marias Islands Magdalena Island	10-15 13	Mar. 8, 1938 May 9, 1939	870-38 970-39	3 ♂ 2 ♀ (1 ov)
Guerrero E of White Friars Islands	5-10	Mar. 3, 1934	269-34	1 ♂

Costa Rica									
Port Culebra	3-10	Feb. 24, 1934	254-34	2 ♂	2 ♀				
Port Culebra	10	Feb. 25, 1934	257-34	1 ♂	4 ♀ ov				♂ illustrated, pleopods
Panama									
Secas Islands	12	Feb. 5, 1935	448-35	1 ♂	1 ♀				♂ holotype, USNM 100919 ♀ allotype, USNM 100920
Bahia Honda	15-25	Feb. 21, 1934	245-34	1 ♂	1 ♀				
Bahia Honda	15-20	Feb. 22, 1934	249-34		2 ♀				
Colombia									
Octavia Bay	2	Jan. 28, 1935	434-35		1 ♀				
Port Utria	20	Jan. 25, 1935	423-35		1 ♀				
Port Utria	15-30	Feb. 25, 1938	856-38	1 ♂	1 ♀				
Off Gorgona Island	20	Feb. 12, 1934	226-34	1 ♂	1 ♂				
Lower California									
Magdalena Bay									
2 mi E of Entrada Point	17-18	Mar. 8, 1949	1714-49		1 ♀				
Gulf of California									
E of San Marcos Island	12	Mar. 14, 1936	581-36		1 ♀				
S of San Marcos Island	20	Mar. 14, 1936	582-36	1 ♂					
Carmen Island									
Salinas Bay	7	Mar. 20, 1949	1755-49	1 ♂					
¾ mi WSW of Perico Point	15-18	Mar. 21, 1949	1758-49		3 ♀				br. 253° T.
1 mi WSW of Perico Point	7-11	Mar. 21, 1949	1759-49		2 ♀				br. 243° T.

TABLE 99

THYROLAMBRUS CLASSELLI, NEW NAME (= T. EROSUS RATHBUN)

THYROLAMBUS GLASSELLI (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Gulf of California (cont.)					
N of San Francisco Island	22	Mar. 8, 1937	647-37	3 ♀	
E of San Francisco Island	shore	Feb. 24, 1936	515-36	2 ♂	color note
E of San Francisco Island	15	Feb. 25, 1936	517-36	4 ♀	♂ pleopods
S of San Francisco Island	15	Feb. 24, 1936	514-36	1 ♀	photo
San Lorenzo Channel	5-15	Feb. 19, 1936	498-36	1 ♀	
San Lorenzo Channel	6-13	Feb. 14, 1940	1111-40	1 ♀	
San Lorenzo Channel	13	Mar. 15, 1949	1738-49	1 ♀	
Revilla Gigedo Islands					
Clarion Island	14	Jan. 5, 1934	134-34	1 ♂	
Sulphur Bay	15	June 11, 1934	305-34	1 ♀ ov	
Mexico					
Jalisco					
Tenacatita Bay	25-35	Mar. 4, 1934	275-34	2 ♀	
Costa Rica					
Port Culebra	3-10	Feb. 24, 1934	254-34	2 ♂	
Cocos Island					
Wafer Bay	2-4	Mar. 2, 1933	108-33	1 specimen	part of cheliped only
Panama					
Secas Islands	25	Feb. 5, 1935	449-35	1 ♂	
Secas Islands	14	Feb. 5, 1935	450-35	1 ♂	
Bahia Honda	15-25	Feb. 21, 1934	245-34	2 ♂	
Colombia					
Gorgona Island	20	Jan. 22, 1935	409-35	2 ♀	
Off North Point					

TABLE 100

DALDORFIA GARTHI GLASSELL

Costa Rica							
Playa Blanca	shore	Feb. 8, 1935	465-35	2 ♂	2 ♀		♂ figured paratype, pleopods, photo
Panama							
Afuera Island	reef	June	1946		1 ♀		Otis Barton, coll. AMNH Acc. No. 7317 paratype
Secas Islands	shore	Feb. 4, 1935	446-35	1 ♂			paratype
Secas Islands	4	Feb. 4, 1935	447-35		1 ♀		paratype
Bahia Honda	2	Mar. 10, 1933	114-33	1 ♂ yg			paratype
Piñas Bay	2-4	Jan. 29, 1935	444-35				fragments, probably ♂
Colombia							
Octavia Bay	shore	Jan. 28, 1935	435-35		1 ♀ ov		paratype

TABLE 101

SOLENOAMBRUS ARCUATUS STIMPSON

Gulf of California							
Tepoca Bay	11-13	Feb. 4, 1940	1078-40		1 ♀		
Off Los Frailes	5-15	Apr. 4, 1937	751-37	1 ♂			
Fraille Bay	4-10	Feb. 18, 1936	497-36	1 ♂			
Off Gorda Point	17-25	Feb. 16, 1940	1117-40		1 ♀		
E of Cabeza Ballena	25	Mar. 3, 1937	620-37		1 ♀ ov		
1¼ mi SW of Cabeza Ballena	20	Mar. 11, 1949	1725-49		1 ♀ ov		
1¼ mi SW of Cabeza Ballena	30	Mar. 11, 1949	1726-49		1 ♀		
Revilla Gigedo Islands							
Socorro Island							
Braithwaite Bay	shore	Jan. 3, 1934	131-34		1 ♀ ov		

SOLENLAMBRUS ARCUATUS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Mexico					
Nayarit					
Isabel Island	10-18	Apr. 2, 1937	745-37	1 ♂	
Isabel Island	10-18	Apr. 2, 1937	747-37	2 ♂	1 ♀
Isabel Island	10-15	Mar. 8, 1938	870-38		1 ♀
Jalisco					
Tenacatita Bay	2-8	May 8, 1939	964-39	4 ♂	2 ♀
Tenacatita Bay	8-15	May 8, 1939	965-39	1 ♂	1 ♀, 1 yg
Oaxaca					
Chacahua Bay	10-15	Mar. 20, 1939	927-39	2 ♂	1 ♀
Tangola Tangola Bay	15-20	Feb. 28, 1934	259-34	2 ♂	1 ♀
Guatemala					♂ photo, pleopods
Off San José Light	12-13	Mar. 23, 1939	930-39	1 ♂	
Costa Rica					
Salinas Bay	8	Feb. 11, 1935	476-35	3 ♂	3 ♀ (1 ov)
Salinas Bay	1½	Feb. 11, 1935	478-35		2 ♀
Salinas Bay	6	Feb. 11, 1935	481-35	2 ♂	3 ♀, ov
Port Parker	5	Feb. 9, 1935	468-35		1 ♀
Port Parker	5	Feb. 9, 1935	470-35		1 yg
Port Parker	3-8	Mar. 24, 1939	934-39	1 ♂	
Port Parker	5-10	Mar. 25, 1939	936-39	1 ♂	2 ♀
Playa Blanca	3-5	Feb. 8, 1935	460-35	1 ♂, yg	1 yg
Playa Blanca	15	Feb. 8, 1935	461-35	4 ♂	4 ♀ (1 ov)
Playa Blanca	shore	Feb. 8, 1935	465-35	3 ♂	3 ♀
Port Culebra	10	Feb. 24, 1934	253-34	3 ♂	7 ♀
Port Culebra	3-10	Feb. 24, 1934	254-34	5 ♂	8 ♀ (1 ov)
Off South Viradores Islands	10	Feb. 25, 1934	257-34	7 ♂	6 ♀ (2 ov)

det. M. J. Rathbun
as *Mesorhoea belli*

Gulf of Dulce	10-22	Mar. 26, 1939	939-39		1 ♀ ov					
Cocos Bay	2-4	Mar. 13, 1933	116-33	8 ♂	9 ♀					det. M. J. Rathbun
Panama										
Secas Islands	25	Feb. 22, 1934	250-34		1 ♀ ov					
Secas Islands	12	Feb. 5, 1935	448-35		2 ♀					
Secas Islands	12	Feb. 5, 1935	451-35	3 ♂	(1 ov)				2 yg	
Secas Islands	5-20	Feb. 6, 1935	458-35		4 ♀					
Bahia Honda	15-20	Feb. 22, 1934	249-34	1 ♂ yg	2 ♀					
Taboga Island	2-5	May 2, 1939	959-39		2 ♀					
Taboga Island	2-5	May 2, 1939	960-39		(1 ov)					
Colombia					4 ♀					
Port Utria	shore	Jan. 23, 1935	413-35	1 ♂	(3 ov)					
Between Gorgona and Gorgonilla Islands	15	Feb. 12, 1934	228-34	1 ♂	3 ♀				3 yg	
Ecuador										
Salango Island	3	Jan. 18, 1935	397-35		1 ♀ ov					
Off Santa Elena Bay	8-10	Feb. 9, 1934	209-34	5 ♂					1 yg	

TABLE 102

LFIOLAMBRUS PUNCTATISSIMUS (OWEN)

Lower California										
Off Point Tosco	45	Feb. 16, 1936	492-36		4 ♀					
Gulf of California										
E of Cabeza Ballena	25	Mar. 3, 1937	620-37		1 ♀					photo
Panama										
Bahia Honda	30	Mar. 1, 1938	862-38	1 ♂						

LEIOLAMBRUS PUNCTATISSIMUS (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Colombia Solano Bay	20-30	May 16, 1941	101	1 ♂	<i>Askoy</i> , pleopods
Ecuador 01° 07' N x 79° 53' W	20-30	Apr. 17, 1941	87	1 ♂	<i>Askoy</i>
Salango Island	12	Jan. 18, 1935	396-35	2 ♂	3 yg
TABLE 103					
MESORHOEA BELLI (A. MILNE EDWARDS)					
Lower California	16	Mar. 2, 1937	616-37		1 yg
San Juanico Bay	18-25	Jan. 19, 1940	1031-40	1 ♂	2 ♀ (1 ov)
Santa Maria Bay					1 ♀ ov
Off Hughes Point	35-40	Mar. 7, 1934	281-34	1 ♂	14 yg
2 mi SW of Hughes Point	19-22	May 5, 1950	1973-50	1 ♂	br. 140° T.
Magdalena Bay	13	Mar. 8, 1949	1715-49	2 ♂	1 ♀ ov
5 mi NE of Entrada Point	35	Mar. 8, 1949	1712-49	2 ♂	
3½ mi W of Entrada Point					
4¼ mi NE of Redondo Point Light	9	Mar. 8, 1949	1717-49	2 ♂	br. 043° T.
Gulf of California					
Off Georges Island	10	Mar. 25, 1937	722-37	1 ♂	♂ photo, pleopods
Tepeca Bay, Sonora	11-13	Feb. 4, 1940	1078-40	5 ♂	3 ♀
N of Lobos Point, Sonora	25	Mar. 26, 1937	726-37		2 ♀
Angel de la Guarda Island					
Puerto Refugio	65	Mar. 4, 1936	544-36	1 ♂	
E of Angel de la Guarda Island	90	Mar. 6, 1936	550-36	1 ♂	
N of Coyote Point	25-28	Mar. 20, 1949	1753-49		1 ys
Puerto Escondido	26	Mar. 16, 1936	595-36	1 ♂	
Espiritu Santo Island					
Off Ballenas Bay	25	Mar. 8, 1937	644-37		1 ♀ ov

Colombia									
Off Cape Corrientes	10	Feb. 13, 1934	231-34	4 ♂	2 ♀				
Ecuador									<i>Askey</i>
01° 07' N x 79° 53' W	20-30	Apr. 17, 1941	87	1 ♂					
TABLE 104									
CRYPTOPODIA HASSLERI RATHBUN									
Lower California									
Santa Maria Bay									
½ mi SE of Hughes Point	5-18	Apr. 4, 1949	1787-49	1 ♂					
Magdalena Bay									
2 mi E of Entrada Point	17-18	Mar. 8, 1949	1714-49	1 ♂					topotype
Gulf of California									
Angel de la Guarda Island									
Puerto Refugio	11-22	Jan. 26, 1940	1048-40	1 ♂	2 ♀				color note 348
Angeles Bay	32	Mar. 20, 1937	701-37	1 ♂					
Ensenada de San Francisco	15-18	Feb. 7, 1940	1087-40	2 ♂					
SE of San Marcos Island	20	Mar. 14, 1936	580-36		1 ♀				
Mexico									
Nayarit									
Isabel Island	10-18	Apr. 2, 1937	747-37		1 ♀				
Costa Rica									
Port Parker	5	Feb. 9, 1935	468-35	1 ♂					
Port Parker	30	Feb. 9, 1935	472-35	1 ♂	1 ♀				
Port Parker	5-10	Mar. 25, 1939	936-39	1 ♂					♂ photo, pleopods ♂ color note 30
Playa Blanca	15	Feb. 8, 1935	461-35	9 ♂	1 ♀				4 yg

CRYPTOPODIA HASSLERI (cont.)					
Locality	Fms.	Date	Sta.	Number and Sex	Remarks
Costa Rica (cont.)					
Port Culebra	10	Feb. 25, 1934	257-34	4 ♂	
Off South Viradores Islands	19-48	Mar. 26, 1939	941-39	5 ♂	
Gulf of Dulce	2-4	Mar. 13, 1933	116-33	8 ♂	1 ♀
Cocos Bay					1 yg
Panama					
Secas Islands	25	Feb. 22, 1934	250-34	5 ♂	2 ♀
Secas Islands	12	Feb. 5, 1935	448-35	3 ♂	1 ♀
Secas Islands	12	Feb. 5, 1935	451-35	6 ♂	1 ♀
Secas Islands	25-26	Mar. 27, 1939	945-39	1 ♂	
Bahia Honda	5-8	Mar. 9, 1933	113-33	1 ♀ ov	det. M. J. Rathbun
Colombia					
Port Utria	20	Jan. 25, 1935	423-35	1 ♂	
Ecuador					
Off Santa Elena Bay	7-10	Feb. 9, 1934	209-34	2 ♂	1 ♀
TABLE 105					
HETEROCRYPTA MACROBRACHIA STIMPSON					
Lower California					
Santa Maria Bay	18-25	Jan. 19, 1940	1031-40	2 ♂	1 ♀
1/2 mi SE of Hughes Point	5-18	Apr. 4, 1949	1787-49	2 ♂	color note 304
Magdalena Bay					
5 mi NE of Entrada Point	13	Mar. 8, 1949	1715-49	1 ♂	1 ♀
Marcy Channel	13	Mar. 9, 1949	1718-49		1 ♀
Gulf of California					
Rocky Point, Sonora	10-11	Feb. 2, 1940	1072-40	1 ♂	1 ♀
Off Consag Rock	10-25	Mar. 24, 1937	719-37	1 ♂	2 ♀
Off Georges Island	10	Mar. 25, 1937	722-37	5 ♂	2 ♀
Off Georges Island	11-13	Feb. 3, 1940	1075-40	21 ♂	33 ♀
					(4 ov)
					♂ photo

San Felipe Bay	2½	Feb. 2, 1940	1071-40	1 ♂	
Tepoca Bay	11-13	Feb. 4, 1940	1078-40	2 ♂	2 ♀
N of Lobos Point, Sonora	25	Mar. 26, 1937	726-37	2 ♂	
Between Mejia and Angel de la					
Guarda Islands	6-11	Jan. 28, 1940	1056-40		1 ♀
S of Tiburon Island	20	Mar. 11, 1936	566-36	2 ♂	
S of Tiburon Island	12	Mar. 28, 1937	732-37	1 ♂	
Ensenada de San Francisco	2-6	Feb. 7, 1940	1088-40		1 ♀ ov
Outside Guaymas Bay, Sonora	6-10	Jan. 23, 1940	1039-40	1 ♂	
Mexico					
Nayarit					
Off Isabel Island	10-25	Mar. 5, 1934	277-34		1 specimen
Off Isabel Island	15-25	May 9, 1939	974-39		1 ♀
Oaxaca					
Tangola Tangola and Santa					
Cruz Bays	15-20	Feb. 28, 1934	259-34		1 specimen
Guatemala					
Off San José Point	11	Jan. 11, 1938	770-38	1 ♂ yg	
Costa Rica					
Port Parker	5	Feb. 9, 1935	468-35		1 ♀
Port Parker	3-8	Mar. 24, 1939	934-39	2 ♂	
Port Parker	5-10	Mar. 25, 1939	936-39		1 ♀
Port Culebra	2-4	Mar. 13, 1933	116-33	1 ♂	1 ♀ ov
Port Culebra	10	Feb. 24, 1934	253-34	1 ♂	
Panama					
Secas Islands	12	Feb. 5, 1935	448-35	1 ♂	
Secas Islands	12	Feb. 5, 1935	451-35	5 ♂	
Secas Islands	25-26	Mar. 27, 1939	945-39	1 ♂	
Taboga Island	2-5	May 2, 1939	959-39	2 ♂	color note 226
Taboga Island	2-5	May 2, 1939	960-39	2 ♂	♂ pleopods

color note 27
det. M. J. Rathbun

color note 226
♂ pleopods

HETEROCRYPTA MACROBRACHIA (cont.)						
Locality	Fms.	Date	Sta.	Number and Sex	Remarks	
Ecuador	10	Apr. 14, 1941	81	1 ♂ yg	<i>Askoy</i>	
Off Cape Pasado	8-12	Feb. 8, 1934	205-34	1 ♂		
Santa Elena Bay off La Libertad	7-8	Feb. 9, 1934	208-34	2 ♂		
Santa Elena Bay off La Libertad	8-10	Feb. 9, 1934	209-34	3 ♀ (1 ov)		
TABLE 106						
HETEROCRYPTA OCCIDENTALIS (DANA)						
Locality unknown		Apr. 26, 1926		8 ♂	6 ♀	
California						
Marin County						
Drakes Bay, 2.5 mi 156° T from Gas Buoy	27-30	July 26, 1940	262	2 ♂		<i>N. B. Scofield</i> CAS Loc. 31106
San Mateo County						
Halfmoon Bay, S of Pillar Point	16	Aug. 5, 1938	886-38	3 ♂	2 ♀ ov	
Monterey County						
Monterey		Aug. 18, 1940	B40128	1 ♂	3 ♀	
Monterey Bay, near mouth of Salinas River	10-13	Aug. 8, 1938	888-38	11 ♂	2 ♀ (1 ov)	
Carmel Bay	10-40	Aug. 9, 1938	892-38	1 ♂	1 ♀	Burch., coll.
San Luis Obispo County						
San Luis Obispo Bay	8-14	Aug. 4, 1938	885-38		1 ♀	
Santa Barbara County						
Off Point Arguello	15-30	Aug. 10, 1938	893-38	12 ♂	9 ♀	1 yg
E of Santa Barbara	36-48	July 1, 1940	1146-40	1 ♂		
Off Point Santa Barbara	33	Sept. 13, 1938	897-38	20 ♂	37 ♀ (10 ov)	1 yg ♂ photo

Northern Channel Islands									
San Miguel Island									
1 mi S of Cardwell Point	15-24	Sept. 16, 1941	1414-41		4 ♀				chelipeds only
2 mi SW of Cardwell Point	34-35	Sept. 16, 1941	1413-41		1 ♀				
1.5-2 mi S of Crook Point	41-43	Sept. 16, 1941	1412-41	3 ♂	1 specimen	1 yg			
S of San Miguel Island	5-15	Aug. 10, 1938	894-38	3 ♂	2 ♀				
S of San Miguel Island	12-34	Sept. 12, 1938	896-38	1 ♂	3 ♀				
Santa Rosa Island									
Bechers Bay	14	Aug. 18, 1939	1003-39	5 ♂	3 ♀				
					(1 ov)				
Off Vail Ranch pier	shore	Apr. 27, 1947	H47-86	1 ♂	1 ♀				C. L. Hubbs, coll.
1 mi NE of Skunk Point	14-15	Aug. 25, 1941	1389-41	1 ♂	1 ♀				
1 mi S of East Point	15-16	Apr. 10, 1941	1284-41	2 ♂	2 ♀				
4.6 mi SW x 1/2 W of East Point	40	Aug. 26, 1941	1391-41		1 ♀				
2 1/4 mi E of South Point	23-28	Apr. 10, 1941	1283-41	3 ♂	3 ♀				plus 1 pair of chelae
2 1/2 mi E of South Point	15-21	Apr. 10, 1941	1280-41		2 ♀				
3 mi E of South Point	23-26	Apr. 10, 1941	1281-41	5 ♂	6 ♀				
6 mi E of South Point	28-30	Apr. 11, 1941	1292-41	1 ♂	1 ♀				
Santa Cruz Island									
Santa Cruz Channel	32-34	Aug. 18, 1939	1005-39		2 ♀				
N of Santa Cruz Island	53	Sept. 14, 1938	898-38		1 ♀				
Fornings Cove		Sept. 16, 1933		1 ♂					♂ pleopods
1 mi E of Smugglers Cove	19-20	Apr. 12, 1941	1296-41	1 ♂					
1 mi SE of Smugglers Cove	15-21	Apr. 12, 1941	1295-41	1 ♂	1 ♀				
3 1/2 mi NE of San Pedro Point	46-47	Sept. 17, 1941	1418-41		1 ♀	1 yg			
S side, Santa Cruz Island	37-40	Oct. 30, 1940	1191-40	1 ♂	2 ♀				
E of Gull Island	6-10	Oct. 31, 1940	1197-40	7 ♂	8 ♀	5 yg			
Anacapa Island									
N of Anacapa Island	15	Aug. 1, 1938	878-38						
1 mi N of W end	45-47	Sept. 17, 1941	1419-41		1 ♀				
1 1/2 mi N of light	47-77	Sept. 17, 1941	1420-41	1 ♂					
2 mi E of West Point	35	Sept. 17, 1941	1421-41	1 ♂					
Ventura County									
3 1/2 mi S of Hueneme	29-30	Mar. 23, 1941	1274-41		1 ♀				
1 1/2 mi SE of Point Mugu	26-30	Mar. 23, 1941	1275-41	2 ♂	3 ♀ yg				plus one carapace

HETEROCRYPTA OCCIDENTALIS (cont.)

Locality	Fms.	Date	Sta.	Number and Sex	Remarks
California (cont.)					
Los Angeles County					
Santa Monica Bay					
Santa Monica Bay	32	May 10, 1912		2 ♂	<i>Anton Dohrn</i> Acc. 153
SW of Venice	40	Aug. 2, 1951			H. G. McNeill, coll.
		July 28, 1917	T-186	1 ♀	<i>Anton Dohrn</i> Acc. 524
El Segundo		Aug. 4, 1917	T-188	1 ♀ ov	<i>Anton Dohrn</i> Acc. 525
El Segundo		June 9, 1940	B4068 4069 4071	2 ♀	Burch, coll.
Redondo Beach	43	May 5, 1940	1132-40	1 ♂	
Redondo Beach	18-45	May 5, 1940	1135-40	3 ♂	
Redondo Beach	11-20	May 6, 1940	1139-40	3 ♂	1 yg
Redondo Beach		May 12, 1940	B4053	2 ♀	Burch, coll.
Redondo Beach	10-25	June-July, 1940		3 ♂	Burch, coll.
Redondo Beach		June 8, 1940	B4063 4066 4067	1 ♀	Burch, coll.
Redondo Beach		June 15-16, 1940	B4076 4080	9 ♂	Burch, coll.
Redondo Beach		July 14-21, 1940	B40114	7 ♂	Burch, coll.
Redondo Beach		Aug. 31, 1940		5 ♂	Burch, coll.
Off Point Vicente		July 22, 1922	T-207a	1 ♂	<i>Anton Dohrn</i> Acc. 546
Off Point Vicente	20	July 31, 1926	D-155	26 ♂	<i>Anton Dohrn</i> Acc. 657
Off Point Vicente lighthouse	17-41	May 6, 1940	1142-40	3 ♂	
Off Portuguese Point	16-20	May 6, 1940	1143-40	7 ♂	
				7 ♀	
				(1 ov)	
				2 yg	

Between White's Point and Portuguese Bend, ½ mi off	14	Nov. 19, 1948	1640-48	11 ♂	9 ♀	<i>Anton Dohrn</i> Acc. 579
Between White's Point and Portuguese Bend, ½ mi off	12-13	Nov. 19, 1948	1644-48	2 ♂	2 ♀	br. 133° T.
E of Portuguese Bend	8-8.5	Nov. 6, 1949	1909-49	1 ♂	3 ♀	br. 139° T.
Point Fermin		Feb. 16, 1924	D-81	1 ♂		br. 142° T.
2.4 mi WNW of Point Fermin light	11-12.5	May 21, 1955	3051-55	24 ♂	10 ♀	br. 154° T.
6.8 mi S of Point Fermin	18.5-19	July 20, 1951	2041-51	3 ♂	2 ♀	
6.9 mi SE of Point Fermin	24.5	July 20, 1951	2042-51	1 ♂		
8.6 mi SE of Point Fermin	27-29	July 20, 1951	2043-51	2 ♂		
8.1 mi SSE of Point Fermin	32-50	May 19, 1951	2035-51	2 ♂		
Los Angeles Harbor						
3.6 mi S of light	24-27	Aug. 24, 1950	1993-50	3 ♂		br. 101° T.
2.6 mi SE of light	11-12	Sept. 8, 1951	2053-51	1 ♂	1 ♀	K. O. Emery, coll.
1.8 mi ExS of light	12	Oct. 30, 1952	2168-52	1 ♂		
Off San Pedro	10-13	April, 1948		1 ♂		
3.5 mi SSE of light	28	Feb. 12, 1949	1678-49	2 ♂	2 yg	
2.3 mi S of breakwater light	12-14.5	Nov. 6, 1949	1910-49	2 ♂	1 ♀	
1.2 mi off San Pedro breakwater	13	Feb. 24, 1928	T-1	1 ♂		<i>Anton Dohrn</i>
5 mi 152° from San Pedro breakwater	17-19	Feb. 15, 1941	1232-41	3 ♂	3 ♀	
6 mi SE of San Pedro breakwater	20-21	Feb. 15, 1941	1231-41	8 ♂	10 ♀	
Off Wilmington and Long Beach	10	Aug. 5, 1922	T-212	1 ♂	16 yg	<i>Anton Dohrn</i> Acc. 543
Long Beach	4-5	Mar. 24, 1912	D-3		2 ♀	<i>Anton Dohrn</i>
NE of breakwater light		July 12, 1924	D-102	1 ♂	(1 ov) 1 ♀	<i>Anton Dohrn</i> Acc. 598
7/8 mi ESE of breakwater light	10-11	July 20, 1951	2045-51	1 ♂	2 ♀	br. 113° T.
2 mi off Belmont Pier	7-10	July 23, 1940	1161-40		1 ♀ ov	
10 mi SE of Long Beach	22-28	July 22, 1940	1159-40	6 ♂	8 ♀	
11.5 mi SE of Long Beach	32-52	July 22, 1940	1160-40	5 ♂	7 ♀	

HETEROCRYPTA OCCIDENTALIS (cont.)						Remarks
Locality	Fms.	Date	Sta.	Number and Sex		
California (cont.)						
Orange County						
S of Seal Beach						
4 mi S of Seal Beach	15	Nov. 3, 1923	D-79	6 ♂	13 ♀	Anton Dohrn Acc. 580
Off Huntington Beach	8-15	Dec. 6, 1952	2195-52	5 ♂	1 ♀	
		Apr. 20, 1940	1126-40	26 ♂	8 ♀	
					(7 ov)	
					20 ♀	
					(18 ov)	
Off Huntington Beach	4-20	Apr. 20, 1940	1127-40	6 ♂		5 yg
Off Huntington Beach	10	Feb. 16, 1941	1233-41	4 ♂		
3½ mi 238° off Huntington Beach	18-19	Feb. 16, 1941	1234-41	5 ♂		
3¼ mi W of Huntington Beach	17-18	Aug. 9, 1940	1169-40	7 ♂		8 yg
5¾ mi off Huntington Beach	22-23	May 7, 1949	1819-49	9 ♂		
3½ mi off Newport Beach	34-37	Aug. 9, 1940	1168-40			
Newport Harbor	4-10	Apr. 20, 1940	1128-40	19 ♂		4 yg
Off Newport Inlet, ocean side	6-18	June 25, 1942	1453-42			4 yg
Off Abalone Point	25-29	Apr. 21, 1940	1130-40	1 ♂		2 yg
Off Abalone Point	54-57	Apr. 21, 1940	1131-40	2 ♂		1 yg
0.66 mi SSE of Abalone Point	26	June 18, 1952	2115-52			1 chela
San Diego County						
7½ mi S of Point Loma	30-33	Feb. 23, 1941	1241-41	1 ♂		
San Diego Bay anchorage	6-7	Feb. 23, 1941	1242-41	26 ♂		
					44 ♀	
					(38 ov)	
Off Coronado Strand	13	Nov. 8, 1945	H45-188	3 ♂		
Southern Channel Islands						
San Nicolas Island	29-33	Apr. 11, 1940	1120-40	2 ♂		
San Nicolas Island	31-34	Apr. 12, 1940	1124-40	1 ♂		
Dutch Harbor	20	Dec. 12, 1940	1219-40	1 ♂		
S side, San Nicolas Island	20-34	Nov. 24, 1940	1205-40			1 ♀
Santa Barbara Island						
E of Santa Barbara Island	0-40	Sept. 12, 1938	895-38	1 ♂		
E of Santa Barbara Island	25-27	May 27, 1939	975-39	1 ♂		

C. L. Hubbs, coll.

Santa Catalina Island									
0.4 mi WSW of Ship Rock	36-47	Aug. 2, 1955	3311-55	2 ♂	1 ♀				
½ mi W of Long Point	21-40	Sept. 29, 1941	1426-41	2 ♂	1 ♀ ov				
White Cove	16-35	July 6, 1940	1155-40	1 ♂					
½ mi off White Cove	33-37	Aug. 9, 1941	1381-41	6 ♂	4 ♀				plus 1 fragment
Off Willow Cove	15-25	July 11, 1941	1362-41	1 ♂					
Off Little Harbor	15-16	Sept. 7, 1949	1902-49	1 ♂					
1 mi E of Empire Landing	18	Aug. 3, 1941	1375-41	1 ♂					
S of Avalon Bay	46-47	Dec. 12, 1948	1659-48	1 ♂					1 yg
1 mi SW of Ben Weston Point	45-46	May 17, 1941	1316-41	1 ♂					1 yg
2 mi W of Church Rock	45-53	May 18, 1941	1321-41	1 ♂					
3 mi WNW of Church Rock	18-23	May 18, 1941	1320-41	16 ♂					8 ♀
San Clemente Island									
Off Wilson Cove	14-16	Feb. 22, 1941	1238-41	1 ♂					
Pyramid Cove	10	Nov. 25, 1939	1024-39	2 ♂					2 ♀
S of Pyramid Cove	55-69	Nov. 9, 1939	1012-39	1 ♂					1 ♀ yg
Lower California									
4 mi N of Todos Santos Island	41	Feb. 24, 1941	1245-41	1 ♂ yg					
San Quentin Bay	12	Feb. 15, 1936	489-36	3 ♂					
San Quentin Bay	25	Feb. 15, 1936	490-36	2 ♂					
Blanca Bay	8-12	Apr. 15, 1951	2018-51	7 ♂					
Cedros Island									
8¾ mi S of Cape San Augustin	28	Mar. 6, 1949	1705-49	1 ♂					1 ♀ ov
South Bay	16	Mar. 5, 1949	1703-49	1 ♂					br. 159° T.
Dewey Channel opposite San Eugenio Point									
	21-26	Feb. 27, 1941	1260-41	1 ♂					
Gulf of California									
Outer Gorda Bank	59-95	Jan. 20, 1940	1034-40						1 ♀

TABLE 107
 HETEROCRYPTA COLOMBIANA GARTH

Costa Rica Salinas Bay	1½	Feb. 11, 1935	478-35	1 ♂	1 ♀	allotype ♀, AHF 351, ♂ photo, pleopods
Colombia Port Utria	shore	Feb. 15, 1934	239a-34	1 ♂		holotype, USNM 78778

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Received from Dr. John S. Garth today, 23. DEC. 1992,
while in his office at the Allan Hancock Foundation,
USC, Los Angeles, CA. As a gift. He said it is his
last mint copy.

Hans G. Kuk 12/23/92

