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XXIII¹

**EXPEDITION OF THE CALIFORNIA ACADEMY
OF SCIENCES TO THE GULF OF
CALIFORNIA IN 1921²**

CRUSTACEA (Brachyura)

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The collection of Brachyura made by the 1921 Expedition of the California Academy of Sciences to the Gulf of California contains several notable occurrences, although special attention was not given to this group in the field. Especially valuable are the specimens of the two species of *Epialtus* which are rare and little known. Several species are represented by larger specimens than have hitherto been recorded. One small female belongs to an undescribed species of *Goetice* which was first detected in the collections made by the "*Albatross*" in the same region in 1911; it is noted herein as No. 12 and a description will appear in a forth-coming Bulletin of the American Museum of Natural History.

In addition to the collection from the Gulf of California the following report contains notices of three species (Nos. 2, 5, 21), from Abreojos Point, on the west coast of Lower Cali-

¹ No. 35 of the Gulf Expedition papers.

² A map showing all the islands, etc., visited by this Expedition will be found in Vol. XII, No. 6, of these Proceedings, copies of which can be supplied for 50 cents.

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fornia and one species (No. 11) from Guadalupe Island, off the west coast, all taken by Dr. G. Dallas Hanna in 1922.

1. *Dromidia larraburei* Rathbun

Dromidia larraburei [error] RATHBUN, Proc. U. S. Nat. Mus., Vol. 38, 1910, p. 553, pl. 48, fig. 4.

Patos Island anchorage, April 23, 1921, 4½ fathoms; one male and one juv.; Fred Baker, coll.

2. *Hepatus kossmanni* Neumann

Hepatus kossmanni NEUMANN, Catal. Pod. Crust. Heidelberger Mus., 1878, p. 28.

Abreojos Point, July 31, 1922; one male; G. D. Hanna, coll.

A large specimen, carapace 81 mm. long, 110.4 mm. wide; covered with small, unequal, crowded rings of red, which partly run together and reticulate; similar but larger rings are on the dorsal surface of chelipeds and legs.

3. *Portunus (Achelous) minimus* Rathbun

Portunus (Achelous) minimus RATHBUN, Proc. U. S. Nat. Mus., Vol. 21, 1898, p. 595, pl. 44, fig. 3.

San Jose Island, one ovigerous female.

Ballandra Bay, Carmen Island, May 22, 1921; 8 fathoms; three males and two females; Fred Baker, coll.

Mejia Island; one male; Fred Baker, coll.

This male is about twice the size of the type-specimen; carapace with a total length of 21 mm. and a total width of 35.5 mm.

4. *Callinectes bellicosus* (Stimpson)

Lupa bellicosa (SLOAT, ms.) STIMPSON, Ann. Lyc. Nat. Hist. N. Y., Vol. 7, 1859, p. 57.

Callinectes bellicosus, ORDWAY, Boston Journ. Nat. Hist., Vol. 7, 1863, p. 577.

Angeles Bay; one ovigerous female; Fred Baker, coll.

Angeles Bay, bay shore; two males; I. M. Johnston, coll.

5. *Cancer antennarius* Stimpson

Cancer antennarius STIMPSON, Proc. Cal. Acad. Sci., Vol. 1, 1856, p. 96.

Abreojos Point, July 31, 1922; one female; G. D. Hanna, coll.

6. *Xanthodius hebes* Stimpson

Xanthodius hebes STIMPSON, Ann. Lyc. Nat. Hist. N. Y., Vol. 7, 1860, p. 208.

San Carlos Bay, Sonora, March 9, 1921; one male; Fred Baker, coll.

7. *Eurypanopeus planus* (Smith)

Panopeus planus SMITH, Proc. Boston Soc. Nat. Hist., Vol. 12, 1869, p. 283.

Eurypanopeus planus A. MILNE-EDWARDS, Crust. Rég. Mex., 1880, p. 321, pl. 59, figs. 4-4c.

San Carlos Bay, Sonora, March 9, 1921; one male; Fred Baker, coll.

8. *Micropanope areolata* Rathbun

Micropanope areolata RATHBUN, Proc. U. S. Nat. Mus., Vol. 21, 1898, p. 588.

Patos Island, anchorage, April 23, 1921, 4½ fathoms; three males and one female; Fred Baker, coll.

9. *Pilumnus gonzalensis* Rathbun

Pilumnus gonzalensis RATHBUN, Proc. U. S. Nat. Mus., Vol. 16, 1893, p. 240.

Tepoca Bay, April 25, 1921; two juvenile females; Fred Baker, coll.

Gulf of California; 1921 Expedition; one male.

10. *Eriphia squamata* Stimpson

Eriphia squamata STIMPSON, Ann. Lyc. Nat. Hist. N. Y., Vol. 7, 1859, p. 56.

San Marcos Island, on kelp, June, 1921; one male without chelipeds; Ivan Johnston and Fred Baker, colls.

Gulf of California; 1921 Expedition; one male and one female.

11. *Pachygrapsus crassipes* Randall

Pachygrapsus crassipes RANDALL, Jour. Acad. Nat. Sci. Phila., Vol. 8, 1839 (1840), p. 127.

Jack's Bay, Guadalupe Island, July 16, 1922; one male and one ovigerous female; G. D. Hanna, coll.

12. *Goetice*, species

Tepoca Bay, April 25, 1921; one female; Fred Baker, coll.

13. *Sesarma (Holometopus) magdalenense* Rathbun

Sesarma (Holometopus) magdalenense RATHBUN, Bull. 97, U. S. Nat. Mus., 1918, p. 305, pl. 86.

Espiritu Santo Island, lagoon, two males; 1921; Fred Baker, coll.

These specimens are considerably larger than those of the type lot; the larger carapace measures 15.4 mm. long, 17.8 wide between outer angles of orbit, 17.2 wide between postero-lateral angles.

14. *Uca princeps* (Smith)

Gelasimus princeps SMITH, Trans. Conn. Acad. Arts & Sci., Vol. 2, 1870, pl. 2, fig. 10, pl. 3, figs. 3-3c.

Uca princeps, RATHBUN, Bull. 97, U. S. Nat. Mus., 1918, p. 382, pl. 133, pl. 160, fig. 6.

Ballandra Bay, Carmen Island, May 22, 1921, 8 fathoms; one male; Fred Baker, coll.

15. *Uca crenulata* (Lockington)

Gelasimus crenulatus LOCKINGTON, Proc. Cal. Acad. Sci., Vol. 7, 1876 (1877), p. 149.

Uca crenulata, HOLMES, Occas. Papers Cal. Acad. Sci., Vol. 7, 1900, p. 75, pl. 1, figs. 7-9.

Ballandra Bay, Carmen Island, 8 fathoms; one male; Fred Baker, coll.

Tepoca Bay, April 25, 1921; one male; Fred Baker, coll.

16. *Uca musica* Rathbun

Uca musica RATHBUN, Proc. U. S. Nat. Mus., Vol. 47, 1914, text-fig. 5, pl. 10.

Tepoca Bay, April 25, 1921; five males and one female; Fred Baker, coll.

17. *Stenorynchus debilis* (Smith)

Leptopodia debilis SMITH, Rept. Peabody Acad. Sci. for 1869 and 1870, appendix (1871), p. 87.

Stenorynchus debilis RATHBUN, Proc. U. S. Nat. Mus., Vol. 21, 1898, p. 568.

Patos Island, anchorage, April 23, 1921, 4½ fathoms; two females; Fred Baker, coll.

18. *Podochela latimanus* (Rathbun)

Ericerus latimanus RATHBUN, Proc. U. S. Nat. Mus., Vol. 16, 1893, p. 224.

Patos Island, anchorage, April 23, 1921, 4½ fathoms; two males and two females; Fred Baker, coll.

19. *Epialtus sulcirostris* Stimpson

Epialtus sulcirostris STIMPSON, Ann. Lyc. Nat. Hist. N. Y., Vol. 7, 1860, p. 198.

San Marcos Island, on kelp, June, 1921; two males; Ivan Johnston and Fred Baker, colls.

Larger male, length of carapace 11 mm., width 9 mm. This exceeds Stimpson's type.

In this species the rostrum ends in a short point or spine; the rostrum itself is subtriangular, very thick, the under surface much smaller than the upper, the lateral surfaces deeply sulcate. Palms of chelipeds short and high, upper edge laminate. The propodus of the first ambulatory leg has at its distal fourth below a small shallow prominence bearing a few short hairs.

20. *Epialtus minimus* Lockington

Epialtus minimus LOCKINGTON, Proc. Cal. Acad. Sci., Vol. 7, 1876 (1877), p. 77.

Patos Island, anchorage, April 23, 1921, 4½ fathoms; one male; Fred Baker, coll.

This specimen has a total carapace-length of 16.8 mm., width across hepatic regions 12.5 mm., across branchial regions 12.2 mm.

Rostrum elongate, tip bilobed. Palms of chelipeds elongate, upper margin lobulate. The propodus of the first ambulatory leg has one, of the other legs, two sockets below, from which proceed a few hairs which simulate a spine.

21. *Libinia setosa* Lockington

Libinia setosa LOCKINGTON, Proc. Cal. Acad. Sci., Vol. 7, 1876 (1877), p. 68.

Abreojos Point, July 31, 1922; eight males and four females; G. D. Hanna, coll.

22. *Herbstia camptacantha* (Stimpson)

Herbstiella camptacantha STIMPSON, Ann. Lyc. Nat. Hist. N. Y., Vol. 10, 1871, p. 94.

Herbstia camptacantha, A. MILNE-EDWARDS, Crust. Rég. Mex., 1875, p. 78, pl. 18, figs. 3-3e.

Patos Island, anchorage, April 23, 1921, 4½ fathoms; one female; Fred Baker, coll.

This little specimen has a soft hairy shell and is so damaged that it cannot be identified with certainty. It belongs, how-

ever, to the group having the antennal spine long and the rostral spines long, regularly tapering and divergent. The legs are transversely banded with an orange color, when preserved; the propodal articles are longer and slenderer than in the young of *H. parvifrons* Randall.

23. *Thoe sulcata* Stimpson

Thoe sulcata STIMPSON, Ann. Lyc. Nat. Hist. N. Y., Vol. 7, 1860, p. 177.

Tepoca Bay, April 25, 1921; one male; Fred Baker, coll.
With chelipeds not fully developed.

24. *Anaptychus cornutus* Stimpson

Anaptychus cornutus STIMPSON, Ann. Lyc. Nat. Hist. N. Y., Vol. 7, 1860, p. 184, pl. 2, figs. 1-1b.

Tepoca Bay, April 25, 1921; two females; Fred Baker, coll.
Encrusted with sponges, serpulids, ascidians and bryozoans. The larger specimen is a little larger than the type, measuring 27.3 by 32.8 mm.

25. *Pitho picteti* (Saussure)

Othonia picteti SAUSSURE, Rev. et. Mag. de Zool., ser. 2, Vol. 5, 1853, p. 357, pl. 13, fig. 2.

San Jose Island; 1921 Expedition; one male.

26. *Microphrys platysoma* (Stimpson)

Milnia platysoma STIMPSON, Ann. Lyc. Nat. Hist. N. Y., Vol. 7, 1860, p. 180.

Microphrys platysoma, A. MILNE-EDWARDS, Crust. Rég. Mex., 1875, p. 62.

Patos Island, anchorage, April 23, 1921, 4½ fathoms; one male; Fred Baker, coll.



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