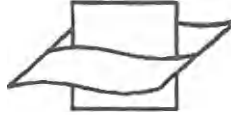


PROCEEDINGS



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SOME DECAPOD CRUSTACEA DREDGED OFF THE
COAST OF CENTRAL CALIFORNIA

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In the following pages an attempt has been made to list the species of decapod crustacea which were obtained during the dredging operations of the California Academy of Sciences under Contract No. N9 onr 94400 with the Office of Naval Research. The work was performed largely with equipment designed to secure geological material; nevertheless some interesting and important species were obtained. If equipment which was better adapted to collecting biological material had been used a greater number of forms might have been obtained; however, it is doubtful if such gear as trawls could have been used successfully on the rugged terrain of the continental slopes which was being investigated.

Under each species there is recorded the stations where collected, together with the depth. All stations so indicated are located off the coast of central California between lines drawn westerly from Half Moon Bay and Point Reyes. For complete geographic data for all stations, a preceding paper of this series (Vol. XXVII, No. 9) by G. D. Hanna, on the geological results should be consulted. All specimens referred to are deposited in the collections of the Academy.

***Gennadas borealis* Rathbun**

Gennadas borealis RATHBUN, Proc. U. S. Nat. Mus., vol. 24, No. 1272, pp. 887-888, 1902. Type locality off Copper Island, Kamchatka, 1,567 fathoms.

This species was collected at Sta. 44, in 1300-1380 fathoms, a locality near Guide Seamount, which is within the known range.

Pasiphaea pacifica Rathbun

Pasiphaea pacifica RATHBUN, Proc. U. S. Nat. Mus., vol. 24, No. 1272, p. 905, 1902.
Type locality, off Point Sur, California, 328 fathoms.

One specimen was taken at Sta. 61, in 400–450 fathoms, near Cordell Bank. Three additional specimens, which lacked some diagnostic characters, were collected at Sta. 58 in 600 fathoms.

Acanthephyra cristata Faxon

Acanthephyra cristata FAXON, Bull. Mus. Comp. Zool., vol. 24, No. 7, p. 206, 1893.
Type locality, Albatross Sta. 3361, latitude north $6^{\circ}10'0''$, longitude west $83^{\circ}6'0''$, 1,471 fathoms; collected also at Sta. 3381, latitude north $4^{\circ}56'0''$, longitude west $80^{\circ}52'30''$, 1,772 fathoms.

Only one specimen was taken at Sta. 62, in 1150–1000 fathoms, approximately 18 miles north of Farallon Light.

Acanthephyra curtirostris Wood-Mason

Acanthephyra curtirostris WOOD-MASON, Ann. Mag. Nat. Hist., Ser. 6, vol. 7, No. 38, p. 195, 1891. Type locality, Bay of Bengal, 840 fathoms.

One specimen was taken at Sta. 62, in 1150–1000 fathoms, off the Farallon Islands, California. This probably extends the northern range of *A. curtirostris* from San Clemente Island to the Farallon Islands.

Hymenodora frontalis Rathbun

Hymenodora frontalis RATHBUN, Proc. U. S. Mus., vol. 24, No. 1272, p. 904, 1902.
Type locality, west of Unalaska, 322 fathoms.

This species was collected off San Francisco in 1150–1000 fathoms, at Sta. 62.

Spirontocaris cristata (Stimpson)

Hippolyte cristata STIMPSON, Proc. Acad. Nat. Sci. Phila., vol. 12, p. 33, 1860. Type locality, San Francisco, California.

A number of specimens were taken at Sta. 55, at Drakes Bay, 5 fathoms.

Crago resima (Rathbun)

Crago resima RATHBUN, Proc. U. S. Nat. Mus., vol. 24, No. 1272, p. 889, 1902. Type locality, off San Diego, California, in 124 fathoms.

Several specimens were taken on Sta. 20, in 62–60 fathoms, on Cordell Bank.

***Crago nigricauda* (Stimpson)**

Crago nigricauda STIMPSON, Proc. Calif. Acad. Nat. Sci., vol. 1, pt. 2D., p. 97, 1856.
Type locality, Tomales Bay, California.

This common shrimp of the California coast was taken well within the known geographic and bathymetric range at Sta. 55, at Drakes Bay, in 5 fathoms.

***Lopholithodes foraminatus* (Stimpson)**

Echidnocerus foraminatus STIMPSON, Ann. Lyc. Nat. Hist. New York, vol. 7, pp. 79-80, 1862. Type locality, off San Francisco, California.

Seventeen of these crabs were taken at Sta. 23, Fanny Shoal, 62 fathoms.

***Munida quadrispina* Benedict**

Munida quadrispina BENEDICT, Proc. U. S. Nat. Mus., vol. 26, No. 1311, pp. 269-270, text fig. 17, 1902. Type locality, off Cape Beale, Vancouver Island, British Columbia, 66 fathoms.

Seven specimens were collected at Sta. 12, 3¾ miles off Cordell Bank, in 218-100 fathoms; 4 additional specimens were taken at Sta. 22, 8 miles off Fanny Shoal, in 400 fathoms.

***Munidopsis verrilli* Benedict**

Munidopsis verrilli BENEDICT, Proc. U. S. Nat. Mus., vol. 26, No. 1311, p. 291, text fig. 34, 1902. Type locality, off San Diego, California, 822 fathoms.

One specimen was collected at Sta. 28, in 600-450 fathoms, off Pioneer Seamount; and one from Sta. 29, 440-450 fathoms, in the same vicinity. This is probably an extension in range for *M. verrilli* from Monterey Bay to Pioneer Seamount, California.

***Chorilia longipes* Dana**

Chorilia longipes DANA, Amer. Journ. Sci. Arts, Ser. 2, vol. 2, No. 32, pt. 6, p. 269, 1851.

Several specimens were collected at Sta. 10, Cordell Bank, in 34 fathoms; also Sta. 22, 400 fathoms.

***Chionoecetes tanneri* Rathbun**

Chionoecetes tanneri RATHBUN, Proc. U. S. Nat. Mus., vol. 16, No. 927, pp. 76-78, pl. 4, figs. 1-4, 1893. Type locality, Gulf of Farallones, California, 29 fathoms.

This species was taken at Sta. 38, on Mulberry Seamount, 690-800 fathoms; also at Sta. 52, off San Francisco, in 300 fathoms.

PLATE 20

Fig. 1. *Discorbis laquei* Church, n. sp. Holotype No. 9517 (C. A. S.) from Pacific ocean 10 miles southeast of Shelter Cove, Mendocino County, California, dredged in 85-92 fathoms. Length, 4.4 mm.; breadth, 3.9 mm. Page 375.

Fig. 2. *Liotia farallonensis* A. G. Smith, n. sp. Holotype No. 9527 (C. A. S.), from Southeast Farallon Island, California, in bird guano. Altitude, 10.3 mm.; maximum diameter, 12.9 mm. Page 385.

Fig. 3. *Liotia farallonensis* A. G. Smith, n. sp. Apical view of specimen shown in figures 2 and 4.

Fig. 4. *Liotia farallonensis* A. G. Smith, n. sp. View of base of specimen shown in figures 2 and 3.

Fig. 5. *Discorbis laquei* Church, n. sp. Edge view of specimen shown in figures 1 and 8.

Fig. 6. *Placiphorella (Placophoropsis) pacifica* Berry. Hypotype No. 9529 (C. A. S.), from U. S. *Mulberry* Station 27, Lat. 37°24.4' N., Long. 123°23.5' W., on slope of Pioneer Seamount, in 500-700 fathoms, on volcanic rock. Length, 30.5 mm.; width, 22.5 mm.; height, 5 mm. Page 390.

Fig. 7. *Calliostoma platinum* Dall. Hypotype No. 9525 (C. A. S.), from Loc. 33242 (C. A. S.), *N. B. Scofield*, Calif. Fish and Game vessel, Station 51-B-14, Pacific ocean, in 220-236 fathoms; Santa Cruz Island, California, bears 42°T., about 10 miles distant. Height, 29 mm., maximum diameter, 27.8 mm. Delbert Goodwin collector.

Fig. 8. *Discorbis laquei* Church, n. sp. View of opposite side of specimen shown in figure 1.

Fig. 9. *Cidarina cidaris* A. Adams. Hypotype No. 9526 (C. A. S.), Loc. 33243 (C. A. S.), *N. B. Scofield*, Calif. Fish and Game vessel, Station 51-B-8, Pacific ocean, in 80 fathoms; Anacapa Light bears 195°T., 9 miles distant. Height, 33 mm.; maximum diameter, 26.8 mm. Delbert Goodwin collector.

Fig. 10. *Placiphorella (Placophoropsis) pacifica* Berry. Dorsal view of specimen shown in figures 6 and 11.

Fig. 11. *Placiphorella (Placophoropsis) pacifica* Berry. Ventral view of specimen shown in figures 6 and 10.

Fig. 12. *Lima (Acesta) mori* Hertlein, n. sp. Holotype, right valve, No. 9524 (C. A. S.), from Loc. 33027 (C. A. S.), U. S. *Mulberry*, Station 38, Lat. 37°26.5' N., Long. 123°28.7' W., *Mulberry* Seamount, in 690 to 800 fathoms. Height, 61.8 mm.; length, 55 mm. View of interior. Page 379.

Fig. 13. *Lima (Acesta) mori* Hertlein, n. sp. View of exterior of specimen shown in figure 12.

