

Pourtalès, sp., and *Actinometra blakei*, an MS. species of my own, which is the host of *Myzostoma areolatum*, von Graff. These will all be described and illustrated in my Report on the "Blake" Comatulæ, where I hope to work out the relations of *Comatula echinoptera*, Müller, to the later described *Actinometra meridionalis*.

Actinometra pulchella is also a bidistichate species, while tridistichate series occasionally occur in *Actinometra rubiginosa*. The unique specimen of *Actinometra coppingeri*, Bell, has but twelve arms; and it is therefore not improbable that this species should be referred, like *Actinometra rubiginosa*, to the ten-armed series, as well as to the tridistichate one. It was obtained by the "Alert" at Flinders, Clairmont. Another specimen dredged by the "Alert" at Port Molle has been referred by Bell to *Actinometra cumingi*, Müll., sp., which was brought to the Berlin Museum from Malacca. But no member of this group was obtained by the Challenger in the Eastern Archipelago; and I have not seen more than half a dozen other individual representatives of it in addition to the three already mentioned, although I have visited all the chief continental collections. The type is evidently a rare one in the Eastern Archipelago, although so abundant in the Caribbean Sea and on the Brazilian coast. Most of the species of *Actinometra* which occur in the Eastern seas belong to the tridistichate type; and the ten-armed forms are almost exclusively represented by the *Solaris*-group, which is rich in individuals, though poor in species. But it does not occur at all in the Caribbean Sea where the *Echinoptera*-group is so extensively developed.

4. The *Echinoptera*-group.

Actinometra meridionalis (A. Agassiz), Pourtalès, sp. (Pl. IV. figs. 4, *a-c*; Pl. LVI. figs. 1, 2).

Specific formula— $a. \frac{b}{a}$.

1865. *Alecto meridionalis*, A. Agassiz, MS., Seaside Studies, Boston, 1865, p. 121, figs. 153, 154.
1866. *Antedon meridionalis*, Verrill, Proc. Bost. Soc. Nat. Hist., 1866, vol. x. p. 339.
1869. *Antedon meridionalis*, Pourtalès, Bull. Mus. Comp. Zoöl., 1869, vol. i. No. 11, p. 355.
1878. *Antedon meridionalis*, Pourtalès, *Ibid.*, vol. v. No. 9, p. 214.
1879. *Comatula meridionalis*, P. H. Carpenter, Trans. Linn. Soc. Lond. (Zool.), ser. 2, 1879, vol. ii. pp. 20, 27.
1879. *Antedon meridionalis*, Rathbun, Trans. Connect. Acad., 1879, vol. v. p. 157.
1881. *Actinometra meridionalis*, P. H. Carpenter, Bull. Mus. Comp. Zoöl., 1881, vol. ix. No. 4, p. 6.
1882. *Actinometra meridionalis*, Ludwig, Mém. Acad. Sci. Bruxelles, 1882, t. xlv. p. 6.
1882. *Antedon meridionalis*, Bell, Proc. Zool. Soc. Lond., 1882, p. 533.
1882. *Actinometra meridionalis*, P. H. Carpenter, *Ibid.*, p. 747.

Locality.—Bahia; 7 to 20 fathoms. Fourteen specimens.

Other Localities.—South Carolina; West of Tortugas, and off French Reef in Florida