

Excluding Protozoa, about a dozen specimens of invertebrates were obtained at this Station, belonging to 7 species, of which 4 are new to science, including representative of 1 new genus; 2 of the new species and the new genus were not obtained elsewhere.

STATION 87.

Willemoes-Suhm writes: "In the dredge was a shrimp, probably a Peneid, which apparently shows that these animals live on the bottom, for it is improbable that a shrimp could penetrate deeply into the mud during the passage of the dredge through the surface water. There was also a transparent, very spiny, blind larva of a Brachyurous crab [= *Eryoneicus caecus*], probably answering to the Megalopa-stage, but remarkable, in addition to its blindness, for the development of the first pair of cheliferous legs and the presence of only one largely developed, and three very slightly developed, pairs of pereopods, though the swimmerettes were normal. Of the internal organs one could see a bright-red stomach and, on both sides of it, a yellow liver. The spines were placed in rows on the carapace, and also covered the legs and abdomen, but there was no very spiny rostrum, which, however, might appear in a subsequent stage. The full-grown crab to which this larva belongs is evidently blind, and might bear some resemblance to the *Pericera*-like crab taken on July 10 [= *Lithodes agassizii*], which, however, had a pair of well-developed eyes and a rostrum composed of strong spines. This is, as far as I am aware, the first instance of a larva of a deep-sea Crustacean being brought up in the dredge."

A longicorn beetle (*Clytus*) was blown on board, perhaps from Africa.

Station 88 (Sounding 152), Madeira to Cape Verde Islands (see Chart 6 and Diagram 7). STATION 88.

July 22, 1873; lat. 23° 58' N., long. 21° 18' W.

Temperature of air at noon, 75°·3; mean for the day, 73°·7.

Temperature of water :—

| | | | |
|------------------------|------|------------------------|------|
| Surface, | 72·0 | 600 fathoms, | 43·2 |
| 100 fathoms, | 61·0 | 700 " | 42·0 |
| 200 " | 55·4 | 800 " | 41·0 |
| 300 " | 50·4 | 900 " | 40·1 |
| 400 " | 46·8 | 1000 " | 39·3 |
| 500 " | 44·5 | Bottom, | 36·4 |

Density at 60° F. at surface, 1·02755; 400 fathoms, 1·02627; bottom, 1·02618.

Depth, 2300 fathoms; deposit, Globigerina Ooze, containing 64·38 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 1.20 P.M. shortened and furled sails, and got up steam to sound. Sounded in 2300 fathoms. At 3 P.M. took serial temperatures at intervals of 100 fathoms down to