

Dredged off Heard Island, in a depth of 75 fathoms. Mud. (Station 151.)

[Pl. XXXV. fig. 6, *a-d*. *a* Carapace seen from left side, *b* from above, *c* from below, *d* from front. Magnified 50 diameters.]

*Sclerochilus*, G. O. Sars (1865).

Valves elongated, very hard, especially towards the margins; surface smooth and shining, ornamented with minute scattered papillæ. Hinge-joint formed by a projecting median crest of the left valve. Muscle-spots linear, subparallel, arranged in an oblique oval patch below the centre of the valve. Antennæ robust; the anterior bearing on each side of its second joint a single seta, its last five joints successively smaller, and bearing numerous long setæ; posterior antennæ larger than the anterior, five-jointed, flagellum very long and slender. Poison-glands very large, and divided into several lobes. Mouth produced, conical; labrum strongly toothed. Mandibles small, teeth numerous and sharp; palp narrow, indistinctly three-jointed, and having a distinct branchial appendage. Terminal lobes of the first pair of jaws partly wanting; branchial plate narrow, almost lanceolate, and beset with numerous setæ on the outer and inner margins. Feet short and robust, second and third joints bearing in front a sharp seta; first pair armed with a single strong spine at the apex of the basal joint. Post-abdominal lobes larger than usual, forming two broad bilobed laminæ, each bearing five setæ. Eye single.

To this genus we can with certainty refer only the single species here noticed; a species which is, however, generally distributed on the Atlantic shores of Europe, reaching as far north as Spitzbergen. It occurs abundantly in almost all the Post-Tertiary beds of Great Britain and Ireland, as well as in those of Norway and Canada.

1. *Sclerochilus contortus* (Norman), (Pl. XXXV. fig. 8, *a, b*).

*Cythere contorta*, Norman, Ann. and Mag. Nat. Hist., vol. ix. p. 48, pl. ii. fig. 15; Trans. Tyneside Nat. Field Club, vol. v. p. 150, pl. iii. fig. 15 (1862).

*Sclerochilus contortus*, Sars, Oversigt. Norges marine Ostrac., p. 90 (1865).

*Sclerochilus contortus*, Brady, Mong. Rec. Brit. Ostr., p. 455, pl. xxxiv. figs. 5-10, and pl. xli. fig. 7.

*Sclerochilus contortus*, Brady, Crosskey, and Robertson, Monog. Post-Tertiary Entom., p. 212, pl. x. figs. 33-35.

Carapace, as seen from the side, elongated, bean-shaped, higher behind than in front, height equal to about half the length; extremities well rounded, dorsal margin boldly arched, inferior deeply sinuated in front of the middle; seen from above, compressed, ovate, extremities acutely pointed, width scarcely equal to one-third of the length; end view ovate, rounded above, pointed below. Shell perfectly smooth. Length, 1-33d of an inch (.77 mm.).

Several specimens, all consisting of separated valves, were found in dredgings from Balfour Bay, Kerguelen Island, 20-50 fathoms; from off Heard Island, 75 fathoms; from Wellington Harbour, New Zealand (in tow-net at trawl).