distance equal to the length of the thorax beyond it. Five pairs of setigerous processes are distinct on the thorax, but the presence of a rudimentary sixth is possible. The bristles consist of a longer and shorter series. The former (Pl. XXXIA. fig. 14) have a straight shaft with a peculiarly tapered tip, the axis of which is bent at a slight angle to the former, thus differing from the kind of bristle observed in *Protula* (which has a much longer tip), and more allied to the structure seen in *Serpula vermicularis*. The wing is well marked though narrow, and is slightly serrated at the margin. The shorter series show very slender shafts, less than a third the length of the former, and delicately tapered extremities. The posterior bristles are extremely slender, with a slightly curved tip, an indication of the winged region.

The anterior hooks (Pl. XXXIA. fig. 15) have a long straight edge, minutely serrated, and terminating inferiorly in a larger process—the great fang. The crown passes backward to join a nearly straight dorsal line, and there is no sinus behind the great fang.

The trace of mud in the alimentary canal showed Diatoms and sponge-spicules.

In all probability this is a Serpula. It is devoid of the thoracic membrane, and the remarkable collar may be found in others of the genus. No operculum is present.

Serpula narconensis, Baird (Pl. LIV. fig. 5; Pl. LV. fig. 1; Pl. XXXIA. fig. 23).

Serpula narconensis, Baird, Proc. Linn. Soc. Lond., vol. viii. p. 21 (1864). Serpula (?), M'Intosh, Ann. and Mag. Nat. Hist., ser. 4, vol. xvii. p. 322 (1876). Serpula patagonica, Grube, Monatsber. d. k. preuss. Akad. d. Wiss. Berlin, Aug. 1877, p. 550.

Habitat.—Dredged abundantly at various Stations, e.g., at Station 144A (off Marion Island), December 26, 1873; lat. 46° 48′ S., long. 37° 49′ E.; depth, 69 fathoms; surface temperature, 41°0; sea-bottom, volcanic sand. Station 149c (in Balfour Bay), January 19, 1874; lat. 49° 32′ S., long. 70° 0′ E.; depth, 60 fathoms; sea-bottom, volcanic mud. Station 151 (off Heard Island), February 7, 1874; lat. 52° 59′ S., long. 73° 33′ E.; depth, 75 fathoms; surface temperature, 36°·2; sea-bottom, volcanic mud.

The total length is about 43 mm. from the tip of the operculum to the tail, and the diameter just behind the thoracic region is fully 5 mm.

The branchiæ are densely covered with pinnæ, and have been decorated with bars of white. The radioles possess a smooth filiform tip. A female Crustacean parasite like Ergasilus was seen on the branchiæ of one example, but could not be subsequently found for description.

The operculum is much firmer than in Serpula vermicularis, and the peduncle is separated by an evident articulation from the bell-shaped distal portion, the latter commencing at once with a diameter fully twice that of the former. The radii of the