

Genus 4. *Trochostoma*, Danielssen and Koren, 1877, 1882.

Retractors absent or rudimentary. Calcareous ring with five bipartite, posterior prolongations. Tentacles fifteen, branched, digitate. Anus often with teeth-like papillæ. Body-wall mostly rough. Deposits—ellipses of a reddish colour and concentric structure alone; or tables alone; or both kinds together.

A. Deposits—Ellipses and Tables.

Trochostoma boreale (*Molpadia*), Sars, 1859, 1861; Danielssen and Koren, 1882. *Molpadia oolitica*, Selenka, 1867 (*partim*). *Haplodactyla oolitica*, Semper, 1868 (*partim*).

Tentacles with three (?) digits. Deposits—small red, crowded ellipses; tables composed of an irregular network of a triangular or rounded form representing the disk with large holes and carrying a spire terminating in two slightly spinous tops; tables having the disk elongate fusiform with some central holes, and a spire terminating in a single slightly spinous top, these being present in greater number at the ends of the animal.

Habitat.—Finmark (Sars), Barents Sea (Hoffman), Kara Sea (Stuxberg), Florida Reef (Pourtales).

(Mus. Holm.) Numerous specimens from the Arctic coast of Siberia. As it seems to me, each short tentacle has a very short, broad, middle digit, and a narrower on each side, thus three digits. Anus with five (?) short papillæ. The red bodies in the perisome seem mostly to be collected in groups.

Trochostoma thomsoni, Danielssen and Koren, 1878, 1882.

Several localities south and north of the Arctic circle in the North Atlantic Ocean, at depths from 136 to 658 fathoms (Danielssen and Koren).

So far as I can discover, this form must be very nearly allied to the former, and it seems to me almost impossible to point out any difference of such importance as to justify their separation into two distinct species. I do not think the very inconsiderable differences in the conformation of the deposits, &c., sufficient to establish a new species.

Trochostoma violaceum (*Molpadia*), Studer, 1877. *Trochostoma boreale*, Danielssen and Koren, 1879, 1882 (*partim*).

Tentacles with three short digits. Deposits—round or elongate reddish bodies of a concentric structure; very large, smooth fusiform rods or three-armed bodies without spire, but with a few holes at their middle; and small, very few scattered