

*Cucumaria crocea* (*Holothuria*), Lesson, 1830; Selenka, 1867. *Pentacta crocea*, Jæger, 1833. *Cladodactyla* (*Polyclados*) *lessonii*, Brandt, 1835. *Cladodactyla crocea*, Wyville Thomson, 1877 and 1878.

Tentacles typical, two ventral smaller. Dorsal pedicels more numerous and several times smaller than the ventral.

*Habitat*.—Falkland Islands (Lesson, Thomson).

Allied to *Cucumaria frondosa*. Compare the above description.

*Cucumaria japonica*, Semper, 1868.

Calcareous ring almost absent, only traces of radial pieces being left. Deposits—irregular, perforated plates with fine knobs or spines; larger plates near the anal aperture.

*Habitat*.—Japan (Semper).

Even with regard to this species, the arrangement of the dorsal pedicels and the size of the tentacles are not fully clear. Semper states that it is closely allied to *Cucumaria frondosa*.

II. Pedicels present in the ambulacra, and also scattered all over the interambulacra or over some of them.

1. *Pedicels arranged in double rows along the five ambulacra; besides, scattered ones on the dorsal interambulacra, whereby the dorsal rows become more or less indistinct.*

*Cucumaria frondosa* (*Holothuria*), Gunnerus, 1767; Forbes, 1841; Duncan and Sladen, 1881. *Holothuria pentactes*, O. F. Müller, 1806. *Pentacta frondosa*, Jæger, 1833. *Cuvieria frondosa*, Blainville, 1834. (?) *Cladodactyla pentactes*, Brandt, 1835. (?) *Cucumaria fucicola*, Forbes, 1841. *Botryodactyla grandis*, Ayres, 1854 and 1873. *Botryodactyla affinis*, Ayres, 1854.

Body ovate. Tentacles nearly equal. A quadruple disposition of the pedicels in the middle of the ambulacra common in old individuals; a few pedicels scattered over the dorsal interambulacra. Deposits—irregular smooth simple perforated plates. Some specimens, especially the larger, are almost devoid of deposits, while others are more or less richly provided with plates. Generally the plates are more frequent in, or in the neighbourhood of the ambulacra. Calcareous ring not very well developed.

*Habitat*.—Greenland (Lütken, Norman, Duncan and Sladen, Ludwig, Stimpson, &c.), Spitzbergen (Lütken, Ljungman), Thousand Islands in the Arctic Sea (Heuglin), off Beeren Island (Danielssen and Koren), Iceland (Lütken, Ludwig), west coast of Scandinavia from Finmark to Kattegat (Düben and Koren, M'Andrew