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XXVIII. *Catalogue of Animals, of the Class Vermes, found in the Frith of Forth, and other Parts of Scotland.*

BY PROFESSOR JAMESON.

[*Read 9th Dec. 1809.*]

* MOLLUSCA.

TRITONIA. Lamark, Müller, Bosc.

T. papillosa, Bosc. Leith Shore.

verrucosa, Bosc. Leith Shore, and Shetland Islands.

DORIS.

D. Argo, Lin. I observed several specimens of this beautiful species on the rocks near the Beacon at Leith.

ASCIDIA.

A. rustica, Müller. Adhering to roots of the *Fucus digitatus* on Leith Shore.

ASCIDIA.

- A. prunum*, Müller. Adhering to fuci, Leith Shore.
conchilega, Müller. Adhering to fuci, Leith Shore.

MAMMARIA.

- M. mammella*, Müller. Adhering to fuci, but rare, Leith Shore.

LINEUS.

- L. longissimus*. (*Black-worm* of the Newhaven fishermen). On the oyster-banks, not uncommon. Noticed many years ago by my friend Mr Neill; afterwards transmitted by the late Mr Simmonds to Mr Sowerby, who has figured and described it under its present name in his "British Miscellany."

NEREIS.

- N. mollis*, Müller. This rare species occurs seldom in this neighbourhood. I have also met with it on the shores of Shetland.
lamelligera. Deep water in the Frith, brought up by the oyster-dredges. Mr Neill.

APHRODITA.

- A. scabra*, Lin. Leith Shore.
aculeata, Lin. Leith Shore.

APHRODITA.

A. punctata, Bosc. *squamata*, Lin. Pallas, Misc.
Zool. cap. 7. fig. 14. Leith Shore, and
Orkney and Shetland Islands.

imbricata. Leith Shore, and Orkney and Shet-
land Islands.

AMPHITRITE.

A. ventilabrum, Müller. Near Queensferry.

cristata, Müller. Leith Shore.

HOLOTHURIA.

The following species of this genus were found
in the Frith of Forth by Mr Neill.

H. pentactes, Pennant.

— *sp. nov.* Lin. Trans. vol. ix. t. vii. fig. 4*.

MEDUSA.

M. æquorea, Müller. Orkney and Shetland
Islands.

aurita, Lin. Orkney and Shetland Islands.

ACTINIA.

A. rufa. Leith Shore, also Orkney and Shetland
Islands.

crassicornis. Orkney and Shetland Islands,
also the Western Islands.

gemmacea, Ellis. Leith Shore.

truncata, Müller. Shetland Islands.

* First found on the coast of Devonshire, and de-
scribed and figured, as above, by Col. Montagu.

** TESTACEA.

CHITON.

C. ruber, Fabricius. I found this rare species on rocks in the island of Unst.

*** CRUSTACEA.

ECHINUS.

E. Cidaris, Lin. I found this rare species in the island of Fulah, the most western of the Shetland islands.

lacunosus, Lin. Dredged in the Frith of Forth.

spatagus, Lin. Leith Shore and Shetland Islands.

placenta. Isle of Fulah. Very rare.

ASTERIAS.

A. papposa, Lin. Leith Shore.

rubens, Lin. Leith Shore, and the islands of Scotland.

equestris. Newhaven. Mr Neill.

glacialis, Lin. Leith Shore, common.

aculeata, Lin. Orkney islands.

sphærulata, Lin. Newhaven, common.

opbiura, Lin. Leith Shore, Shetland islands.

caput-medusæ, Lin. In the sea off the Mainland, one of the largest of the Shetland islands; *argus* of the Shetland islands.

**** CORALLIA.

MILLEPORA.

- M. compressa*. Shetland islands.
truncata, Lin. Shetland islands.
cellulosa, Lin. Shetland islands, and in the
 island of Fulah.
polymorpha, Lin. Orkney and Shetland islands,
 and Hebrides.
pumicosa. Leith Shore and Shetland islands.

CELLEPORA.

- C. pumicosa*. Leith Shore.

ISIS.

- I. hippuris*. Said by the late Dr Walker to occur
 on the east coast of Scotland, and also in the
 Orkney islands.

GORGONIA.

- G. lepadifera*. Found on the coast of Aberdeenshire,
 and coasts of Shetland islands.
viminalis. Said by Dr Walker to occur in
 Shetland; and, according to Mr Sowerby, occurs
 in Mount's Bay, Cornwall; and Colonel Montagu
 found it plentiful on the coast of Devonshire*.

* Sowerby's Miscellany, p. 81.

GORGONIA.

G. flabellum. Leith Shore; found by the late Mr Mackay.

TUBIPORA.

T. catenularia. Orkney and Shetland islands.

serpens. Ibid.

fascicularis. Ibid.

SPONGIA.

S. ventilabrum, Lin.? In the islands of Unst and Fulah, I picked up several specimens of a sponge, which agrees in many characters with the *Spongia ventilabrum* of Linnæus. It has the reticular woody veins, the same kind of spongy covering, and the same general fan-like shape as the *Sp. ventilabrum*. The reticular woody fibres point out this as one of the species by which the Sponges are connected with the Gorgonias. It is said by some naturalists, that certain varieties of this species are funnel-shaped: it would seem, however, that these supposed varieties belong to a distinct species, which may be characterized thus: SPONGIA ZETLANDICA, *venis lignosis reticularis, obtectis poro favagineo*. This funnel-shaped sponge is distinguished from *Spongia infundibuliformis* of Linnæus, by its reticular woody veins, which are wanting in the other, and

SPONGIA.

by the nature of the spongy substance which covers and connects these veins, which in this species can be rubbed between the fingers when dry; whereas the sponge of the Linnean species is of a flexible elastic nature when dry, and its general consistence approaches to that of the common officinal sponge.

infundibuliformis, Lin. ; *S. crateriformis*, Pallas.

This species is distinguished from that last described, by the want of woody fibres, and the nature of its sponge; but it never splits and assumes the foliaceous aspect, as mentioned by Gmelin. I found it on the shores of the island of Unst.

pulchella, Sowerby*. This delicate sponge occurs on the shores of several of the Western Isles, where it was first noticed by the late Dr Walker.

tomentosa. Leith shore, and Shetland islands.

stuposa. Above Queensferry, and Leith shore.

palmata. Orkney and Shetland islands. *Mermaids' glove* of the Shetlanders.

compressa, Fabricius. Bressay Sound, Shetland.

ALCYONIUM.

A. schlosseri. Leith Shore.

* Sowerby's British Miscellany, p. 87.

ALCYONIUM.

- A. cydonium.* Island of Fulah and Unst.
lyncurium. Island of Fulah.
gelatinosum. Leith Shore.
digitatum. Leith Shore.

FLUSTRA.

- F. foliacea.* Leith Shore ; Orkney and Shetland islands, and Hebrides.
truncata. Leith Shore ; Orkney and Shetland islands, and Hebrides.
pilosa. Adhering to fuci, Leith Shore.
carbacea. Leith Shore.
arenosa? Leith Shore.
hispida. Leith Shore.
membranacea. Adhering to fuci ; Leith Shore, and Orkney islands.
lineata. Orkney islands.

TUBULARIA.

- T. indivisa.* Leith Shore ; Orkney and Shetland islands.
ramosa. Leith Shore ; found by the late Mr Mackay.

CORALLINA.

- C. officinalis.* Leith Shore ; Orkney and Shetland islands, and Hebrides.

SERTULARIA.

The following species occur on Leith Shore :

- S. rosacea.* On shells and corallines.
pumila. On *Fucus serratus*.
operculata. Generally adhering to shells.
abietina. Very common on oyster and muscle shells.
cupressoides.
cupressina. Found in deep water, and detached on the shore.
argentea.
rugosa. Adhering to *Flustra foliacea*, and other corallines.
volubilis. Adhering to *flustræ* and *fuci*.
halecina. Common on oyster shells.
thuya. Dredged from deep water.
falcata. Covers the concave shells of the common oyster.
antennina. From deep water in the Frith.
cuscuta. Adhering to *fuci*.
filicula.
muricata. Adhering to *fuci*.
uva. Adheres to *fuci* and corallines.
lendigera. Adhering to *fuci* and corallines.
geniculata. On *Fucus saccharinus* and *F. digitatus*.
dichotoma.
spinosa.
setacea. On scallop shells.
polyzonias.
loriculata.

SERTULARIA.

*fastigiata.**avicularia.* Not common.*scruposa.**ciliata.* On other sertulariæ, fuci, and sponges.*eburnea.* On shells, fuci, and corallines.*nigra.* Coast of Aberdeenshire ; Mr Brown.

**** ZOOPHYTA.

PENNATULA.

P. phosphorea. Frith of Forth.*mirabilis,* Müller. Prestonpans Bay.

HYDRA.

H. lutea? Bosc. Adhering to fuci ; Frith of Forth.

CORYNA.—Bruguiere.

C. squamata, Müller. I found this beautiful species on the shore of the island of Burra, and on the Holm of Cruster, in Bressay Sound, in Shetland. It was adhering to the *Fucus digitatus*.