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BURITG SPOTGES (CHOULDE) FROM MADEIRA

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IX.—Notes on some Sponges belonging to the Clionidæ obtained at Madeira.

By James Yare Johnson, Corr. M.Z.S.

(Read 21st June, 1899.)

PLATE VI.

ent times extending over a long series of years, in going over adhering masses of Ostrea cocilear and Chana gryphoides, as well as various corals brought up by the lines of the fishermen from deep water of the coast of Madeira. THE following five forms of boring Sponges were met with, at differ-As they appear to be undescribed, I now give the result of my The sponges were all examined in the dry

Acca * g. n.

Spicules of one form only, acerate.

Acca insidiosa sp. n., plate VI. figs. 1 and 1a.

The walls of the tubes are composed of short accrate slender spicules, mouths about 1.5 mm. in diameter, and issuing as tubes from them. Found upon shells of Ostrea and Chama, lining holes with round

EXPLANATION OF PLATE VI.

Fig. 1.—Acca iuniliosa, part of the network of spicules over the end of a tube, and part of its wall, × 100. Fig. 1a, Spicule, × 200.

2.—Acca roleus, part of the wall of a tube, × 200. Fig. 2a, Spicule, × 200.

3.—Particles of coral produced by the action of Acca rodeus, × 200.

—Acca infesta, showing the arrangement of the spicules in the wall of a tube, × 100. Fig. 4a, Spicule, × 200. of a specimen with its accrate and spiral spicules,

6.-Nisella verticillata, spicules, × 200.

of ancient Rome. * Acca, Scantilla, and Nisa are female names to be found in the poetry or prosu

may be seen the dark sinuous bands of similar spicules arranged in bundles, but not forming a network. The tops of the tubes are covered over with a sieve-like reticulation formed of spicules in crossing one another at all angles. In specimens mounted in balsam curved. Colour of the sponge when dry, pale brown The spicules are short, cylindrical, accrate, slender, slightly

Acca rodens sp. n., plate VI. figs. 2 and 2a.

and from it projects a ring wall of sponge. The spicules are short, slender, accrate, curved, are more slender than those of the last species, and the bend at the middle is angular. They are densely matted together at all angles. The entrance to the cavity is a round hole about 1 mm. in diameter, It is closely allied to the preceding species, but is apparently distinct. Found in a cavity in the stem of a coral (Dendrophyllia ramea).

gnawing action of the sponge on the coral represented on pl. VI. ig. 3. both rounded and augular, like fine sand, apparently produced by the From the same cavity was extracted a quantity of minute particles,

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Acca infesta sp. n., plate VI. figs. 4 and 4a

in an irregular manner, and not close together, nor in bundles. The upper end of the tube is covered over by a reticulation of spicules arranged in bundles. The spicules are shorter and stouter than those of the tube are composed of short curved accrate spicules in two layers, 6 mm. long, issuing from round cavities in the shell. The sides Found upon shells attached to a sponge. It forms a cylindrical but somewhat contorted tube, about 1 mm. in diameter and from 2 to of the two preceding species. in the other they are laid transversely to those of the first layer, but in one of which the spicules are placed close together side by side, and

When fresh from the sea this sponge has a pale yellow colour. Placed in fresh water it throw off much clear slimy matter.

SCANTILLA g.n

Spicules of two forms, viz. acerate, and undulating cylindrical

Scantilla spiralis sp. n., plate VI. tigs. 5 and 5a.

forms:—(1) accrate, slender, slightly curved, the shorter ones lying in all directions irregularly; the longer ones are laid in bundles, which are sinuously consecutive, but do not form a network; (2) slender, of Ostreu cochlear from the coral zone. The spicules are of two Pale brown, found in cavities about 1.5 nm. in diameter in shell

> ends blunt or rounded. These are abundant. cylindrical smooth loosely spiral rods of two or three turns, with the

Nisella g. n.

Spicules of two forms, viz. a slender shaft with six long rays at the middle, and a fusiform shaft with two whorls of three short rays

Nisella verticillata sp. n., plate VI. fig. 6

texture with the spicules placed irregularly in all directions. When treated with nitric acid it yielded two interesting forms of spicule. The most abundant is normally a slender straight shaft, from the at the middle. The shuft is roughened or finely ringed, and its ends as well as the ends of the rays are knobbed. The latter form of specule knowbed. There is, however, a good deal of irregularity in the position of the arms. Sometimes they are arranged in a spiral manner, and sometimes there are two whorls of three rays each. The second form Out of these were picked fragments of a dark brown sponge of close at the middle in place of two whorls of rays, along with accrute spicules which a fusiform spicule is found with two rings, each of three tubercles connects this species of sponge with Carter's Alectona Millari,* in of spicule is a fusiform shaft with two whorls of three short rays each arms and the two halves of the shaft tuper slightly, and the ends are long as the shaft, so that the whole forms an eight-rayed star. middle of which radiate six equally slender arms, which are half as fracture crossed several small cavities, unconnected with each other. (Gray) had the solid stony stem broken away from the base, and the A specimen of the alcyonarian coral Pleurocorallium johnson

In a small dark brown sponge, picked out of cavities in the stem of another coral (*Dendrophyllia ramea*) not only were the two forms above described abundant, but a third form of spicule was sparingly as long as No. 2 with an annular swelling at the middle. This may present, viz. a slightly curved fusiformi-acerate shaft more than twice

have been an intruder.

of a dark brown colour. Such a cake is compact enough to cruck across when drying after immersion in water. Imbedded quite irregularly stances to be transformed into a hard structureless homogeneous cake above described were found, but also (a) numerous slender forcipes, as belonging to other sponges. in one mass of this kind, not only the forms of spicule Nos. I and 2 pronged bihamate or equi-anchorate. All these must be considered (c) bihamate C-shaped, with simple acute ends, (d) smaller two-(b) stout spinulose spikes tapering from the truncate end to the other, The soft parts of Wisella verticillata seem under some circum

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