

Algological Notes.

By

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THE following list shows the additions made to the marine flora of Plymouth and district, as a result of the dredging, &c., carried on from the 6th September to the 10th December, 1895.

MYXOPHYCEÆ, *Stizenb.* (= CYANOPHYCEÆ, *Sachs*).

- Lyngbya Meneghiniana*, Gom. (West Hoe).
Phormidium persicinum, Gom. (Duke Rock).
Plectonema terebrans, Born. et Flah. (Cawsand Bay).
Mastigocoleus testarum, Lagerh. (Drake's Island).

CHLOROPHYCEÆ.

- Gomontia polyrhiza*, Born. et Flah.
Ostreobium Queketti, Born. et Flah.

PHÆOPHYCEÆ.

- Desmarestia Dresnayi*, Lamx. (Eddystone, &c.).
Ectocarpus velutinus, Kütz. (Rocks at Ladies' Bathing Place, &c.).
 " " var. *laterifructus*, Batt. in lit. (Rocks at Ladies'
 Bathing Place, Rum Bay, Firestone Bay, &c.).
Ectocarpus terminalis, Kütz. (Firestone Bay).
Leptonema fasciculatum, Rke. var. *uncinatum*, Rke. (Cawsand Bay).
Ralfsia clavata, Crn. (Drake's Island).
 " *spongiocarpa*, Batt. (Wembury Bay).

FLORIDEÆ.

Those marked * are new to science, † new to Britain.

- Conchocelis rosea*, Batt. (Cawsand Bay, &c.).
 * *Colaconema Bonnemaisioniæ*, Batt. in lit. (Eddystone, Mewstone, &c.).
 * " *Chylocladiæ*, Batt. in lit. (Bovisand Bay, &c.).
 * " *reticulatum*, Batt. in lit. (Dredging 34).

Callocolax neglectus, Schmitz (Bovisand Bay, &c.).

Phyllophora Traillii, Batt. (Bovisand Bay, Duke Rock, &c.).

Trailliella intricata, Batt. in lit. (Cawsand Bay).

(= *Spermothamnion Turneri*, var. *intricatum*, Holm. et Batt. Rev. List.)

Rhodochorton membranaceum, Mag.

var. *macrocladum*, Rosenv. (Eddystone).

Rhodochorton minutum, Rke. (Cawsand Bay).

Cruoria adhaerens, Crn. (Queen's Ground).

† „ *rosea*, Crn. (Queen's Ground).

† *Rhododiscus pulcherrimus*, Crn. (Queen's Ground).

Cruoriella Dubyi, Schmitz (Queen's Ground).

Rhododermis parasitica, Batt. (Bovisand Bay).

Melobesia Lejolisii, Rosan. (Cawsand Bay).

Colaconema Bonnemaisionia, Batt. in lit., was first recognised in the "fruiting" condition (monospores) in a fragment of *Bonnemaisionia asparagoides*, dredged off the Eddystone Lighthouse on the 9th September. It was made the type of a new genus of endophytic algæ. On the same expedition the interesting *Desmarestia Dresnayi*, Lamx., was obtained, and in the perfect condition, i.e. with a main frond, having two smaller lateral fronds near the base, symmetrically placed one on each side. Subsequently, in adjacent waters, 26th September (haul 34), a very fine specimen of the same plant was secured.

Colaconema Chylocladiæ, Batt. in lit., was recognised in fruiting condition (monospores) in a tetrasporogenous specimen of *Chylocladia ovalis*, dredged in Bovisand Bay, 20th September. Well-"fruited" specimens of this species had previously been obtained by Mr. Batters at Torquay, although he had not named, or published, his find.

Colaconema reticulatum, Batt. in lit., was found on a very broad old frond of *Desmarestia Dresnayi*, Lamx.; but as its reproductive organs have not yet been recognised, it is only tentatively placed here in the classification. It had previously been found elsewhere by Mr. Edward Batters.

Trailliella intricata, Batt. in lit., has been made the type of a new genus, on account of the discovery of the tetraspores of the plant. This alga had already found a place in the classification as indicated in the above list. As it was placed from barren specimens, the discovery of the tetraspores, which are unique in position and mode of development for the *Calithamnions*, rendered re-classification necessary. It was named in honour of Mr. G. W. Traill, the well-known Scottish algologist.

Cruoria rosea, Crn., and *Rhododiscus pulcherrimus*, Crn., new to Britain, are interesting members of the Squamariaceæ, and were found by Mr. Batters on shells forwarded to him from the Laboratory.

All the above finds were authenticated by Mr. Batters, to whom the writer's heartiest thanks are due for his invaluable advice and assistance. The writer likewise wishes here to express his great indebtedness to the Director and staff of the Laboratory for the aid rendered in the carrying out of these investigations.

NOTE.—The diagnoses of the new genera, and further information about the more important of the above finds, written by Mr. Edward Batters, will be found in the *Journal of Botany* for January, 1896.