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XII. Enumeration of Algæ from Fernando de Noronha, collected by H. N. MOSELEY, M.A., Naturalist to H.M.S. 'Challenger.'  
By G. DICKIE, M.D., F.L.S.

[Read April 16, 1874.]

The Algæ from Fernando de Noronha were dredged at depths of from 7 to 20 fathoms; a very few from rock-pools.

FUCACEÆ.

SARGASSUM VULGARE, *Ag.*

*Geogr. distr.* Tropical and subtropical Atlantic; Manilla; Mauritius.

The specimens much smaller than usual.

DICTYOTACEÆ.

HALISERIS PLAGIOGRAMMA, *Mont.*

*Geogr. distr.* Brazil; Sandwich Islands.

H. DELICATULA, *Lamx.*

*Geogr. distr.* Florida; W. Indies; Brazil.

PADINA PAVONIA, *L.*

*Geogr. distr.* Widely diffused in both hemispheres.

DICTYOTA CILIATA, *J. Ag.*

*Geogr. distr.* Florida; W. Indies.

D. BARTYNESIANA, *Lamx.*

*Geogr. distr.* Florida; W. Indies.

ASPEROCOCCUS INTRICATUS, *J. Ag.*

*Geogr. distr.* Gulf of Mexico.

RHODOMELACEÆ.

AMANSIA DUPERREYI, *Ag.*

*Geogr. distr.* Martinique.

ACANTHOPHORA THIERRII, *Lamx.*

*Geogr. distr.* Biarritz; Florida; W. Indies; Brazil.

CORALLINACEÆ.

CORALLINA CERATOIDES, *Ktz.*

*Geogr. distr.* Shores of Mexico.

JANIA CUBENSIS, *Mont.*

*Geogr. distr.* Gulf of Mexico.

LITHOTHAMNION MAMILLARE, *Haw.*

*Geogr. distr.* Bahia; Cape Verde; Algoa Bay.

## SPHÆROCOCCHOIDÆ.

GRACILARIA MULTIPARTITA, *Clem.*

*Geogr. distr.* England; Spain; France; U. States; Indian Ocean.

Mr. Moseley's specimens comprehend the ordinary form of the species, as also var.  $\beta$ . *angustissima*, and forms intermediate between the two.

G. ARMATA, *Ag.?*

*Geogr. distr.* Mediterranean; Florida.

Only two or three very imperfect specimens, and therefore the species doubtful, but having the structure of the genus.

## SQUAMARIÆ.

PEYSSOUNELIA DUBYI, *Crouan.*

*Geogr. distr.* France; Britain; Florida.

A few very dwarf specimens upon *Lithothamnion mamillare*.

## HELMINTHOCLADIÆ.

GALAXAURA CYLINDRICA, *Lamx.*

*Geogr. distr.* Barbadoes; Red Sea.

G. OBLONGATA, *Lamx.*

*Geogr. distr.* W. Indies.

G. MARGINATA, *Lamx.*

*Geogr. distr.* W. Indies; Madagascar; Mauritius.

G. RUGOSA, *Lamx.*

*Geogr. distr.* W. Indies; Mauritius; Gambier Islands.

## CRYPTONEMIACEÆ.

CHRYSYMENIA ENTEROMORPHA, *Harv.?*

*Geogr. distr.* Florida.

The single very fragmentary specimen has the structure of the genus; but the species is doubtful.

## SIPHONACEÆ.

CAULERPA CLAVIFERA, *Ag.*

*Geogr. distr.* Canaries; Red Sea; Indian Ocean.

C. MEXICANA, *Sonder.*

*Geogr. distr.* Gulf of Mexico.

HALIMEDA OPUNTIA, *Lamx.*

*Geogr. distr.* Florida; W. Indies; Mauritius; Philippines.

## ULVACEÆ.

## ENTEROMORPHA — ?

So very imperfect that the genus only can be indicated; it seems nearly allied to *E. clathrata*, Grev.

**KALLONEMA OBSCURUM**, n. sp. Frons capillaris, undulata, pallide virescens, vage et irregulariter ramosa, e cellulis subquadratis laxè connexis formata.

The specimens are very fragmentary, mixed with some of the following in rock-pools.

**ULVA LOBATA**, Ktz.

*Geogr. distr.* Chili; Cape G. Hope; Mauritius; Ceylon; Macao; Singapore.

## CONFERVACEÆ.

**CLADOPHORA SUBVARICOSA**, n. sp. Filamentis passim varicosis sparsissime ramosis, articulis diametro 3-8plo longioribus.

In rock-pools, with *K. obscurum*.

**C. MINUTA**, n. sp. Ramulis brevibus, alterne distributis, articulis omnibus diametro 10plo longioribus.

A very small species, 1 to 2 lines long; diameter = .001 inch.

Rock-pools, Platform Island; with the next.

## OSCILLARIACEÆ.

**LYNGBYA NORONHÆ**, n. sp. Vaginis valde mucosis, subhirtis, confluentibus, trichomatibus curvulis, luteolis, articulis diametro 2-3plo brevioribus.

Forming yellowish shrub-like masses, half an inch to an inch high; entire diameter of filaments = .0006 inch; in rock-pools, Platform Island. It seems nearly allied to *L. fulva*, Haw.

## PALMELLACEÆ.

**HORMOSPORA PELLUCIDA**, n. sp. Tubulis simplicibus, mucosis, pellucidis, æqualibus; cellulis ellipticis, diametro 2plo longioribus, in seriem moniformem transverse dispositis.

A very delicate species; entire diameter of the filaments = .006 inch. In rock-pools, mixed with *Cladophora* &c. above described.

Excluding three or four, mostly cosmopolites, and the smaller species from rock-pools, the Algæ of Fernando de Noronha are related chiefly to those of the Mexican Gulf.