

A NEW CYLINDRICAL SPECIES OF *CODIUM* STACKHOUSE FROM THE COAST OF KARACHI, PAKISTAN

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Abstract

Algal specimens collected from Hawkesbay sandy beach and Buleji rocky coast of the Arabian sea, 40-50 km from the Karachi University Campus showed the presence of a new cylindrical species of *Codium* which is described as *Codium islamii* Nizamuddin and named after Prof. Dr. A.K.M. Noorul Islam of the Department of Botany, University of Dhaka, Bangladesh for his devotion and contribution in the field of Phycology.

Description of species

Codium islamii Nizamuddin sp.nov.
(Figs. 1, 2 A-D, 3)

Holofast fibrous, discoid up to 25 cm diam. Stipe erect, terete up to 2 cm high and up to 8 mm diam., distally bifurcate. Thallus erect up to 23 cm high throughout terete up to 4 mm diam., regularly dichotomously branched (10-12 orders). Lower segments at short distance (1-1.5 cm) upper segments at longer distance (3-7 cm). Dichotomies throughout narrow. Terminal segments terete up to 3 mm diam., tips round 2 mm diam. Thallus dissecting out into individual utricles. Utricles spathulate-broadly spathulate, obovate, broadly clavate, oblanceolate, oblong (1) from tip of thallus, 787.5-900 (-1037.5) μm long and 275-450 μm diam. L/B 1.7-3.4 (2) from medial part of thallus 787.5-1250 μm long and 225-637.5 μm diam. L/B 1.65-3.5 (3) from stipe 400-587.5 (-800) μm long and 175-300 μm diam. L/B 1.5-4.5. Apices round, narrow, truncate. Hairs lacking. Medullary filaments 25-60 (-75) μm diam. Gametangia stalked, lance-ovoid, fusiform and sub-ampulliform, 650-787.8 (-1000) μm long and 210-380 μm broad at a distance of 337.5-750 μm below tip of utricles.

Holotype: Buleji (Leg. M. Nizamuddin 4-3-1992 Drift No. B92).

Specimens examined: Buleji (Leg. M. Nizamuddin 4-3-1992 drift no. B36438) Hawkes Bay (Leg. M. Nizamuddin 25-11-1993 drift No. KU 1222. Leg. Saood Omar 25-4-1993 drift S₀₂, S₀₃).

Codium islamii Nizam. sp.nov. resembles *C. decorticatum* f. *flagelliformis* Schmidt in pattern of branching but strongly differs in shape and size of utricles as well as in gametangia.

Diagnose: *Codium islamii* Nizamuddin sp.nov. similis *C. decorticatum* f. *flagelliformis* Schmidt ordinatio ramifactio sed valde differt forma et magnitudo utriculus quoque gametangia.

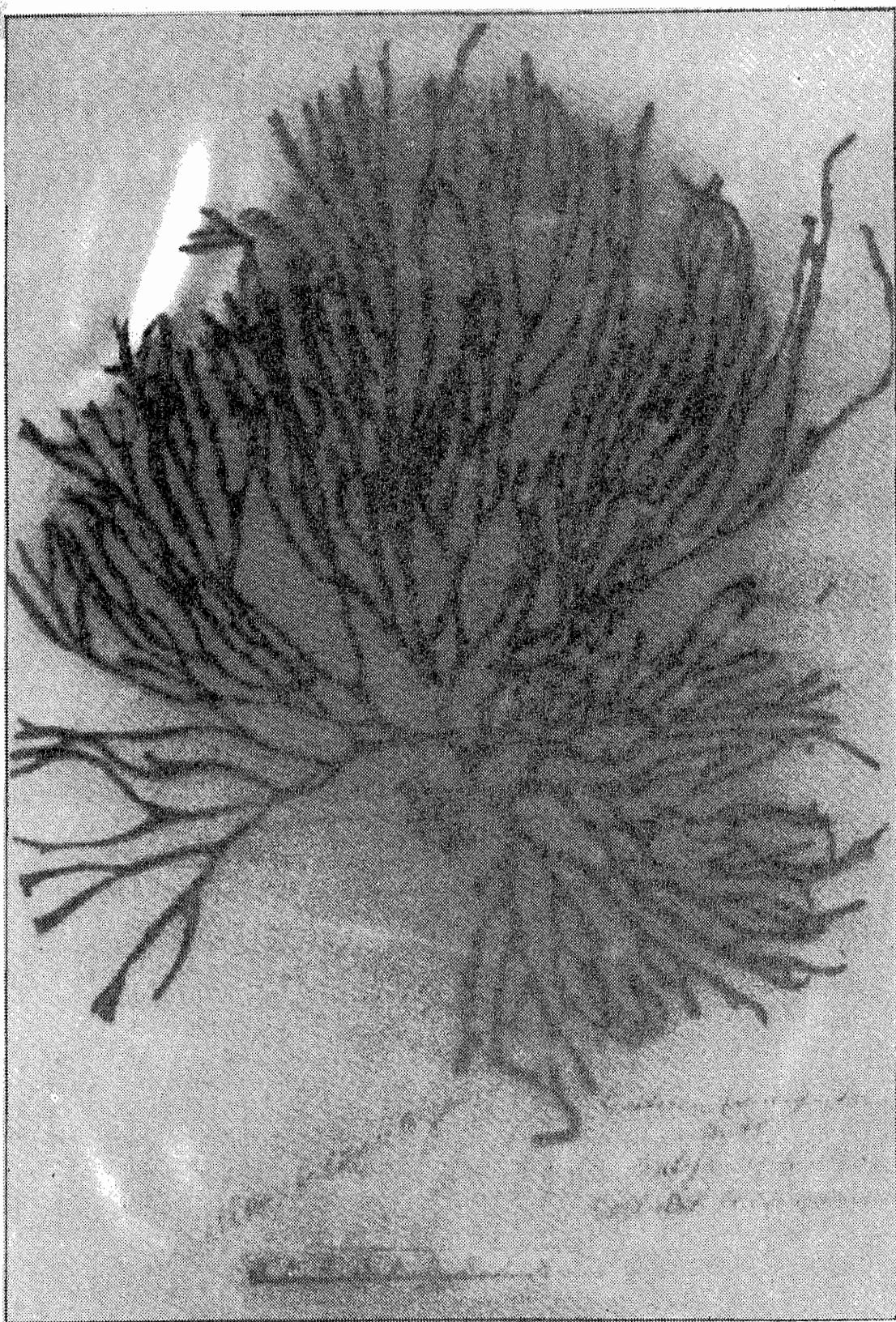


Fig. 1. *Codium islamicum* Nizamuddin sp.nov. Habit of the Holotype: No. KUH B92 (Leg. M. Nizamuddin 4.3.1992 Drift).

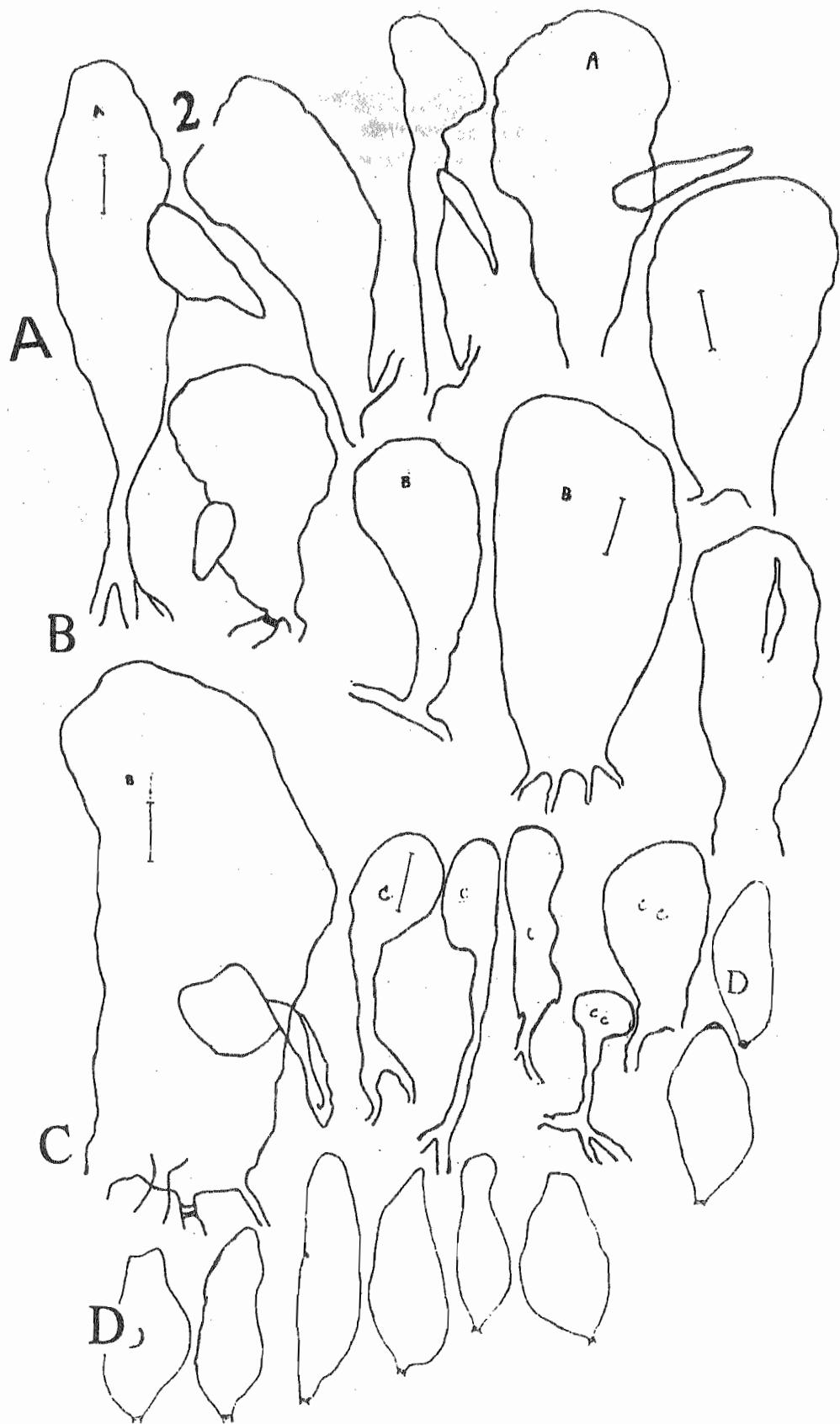


Fig. 2. Series of utricles (A) utricles from tip of thallus Scale 500 μm (B) utricles from medial part of thallus. Scale 500 μm . (C) utricles from stipe Scale 500 μm (D) Gametangia Scale 500 μm .

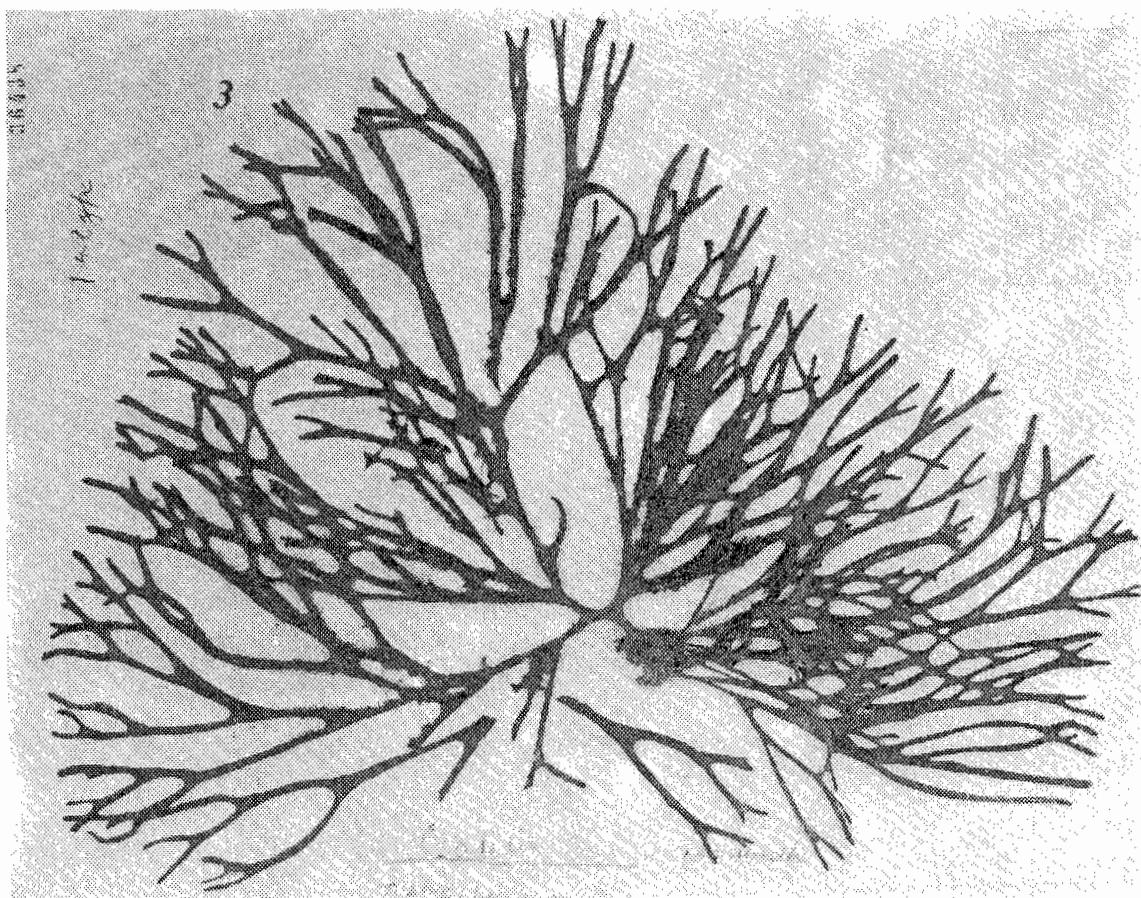


Fig. 3. *Codium islamii* Nizamuddin sp.nov. (A) Habit of the isotype (B) Buleji (Leg. M. Nizamuddin 4-3-1992 Drift. No. B92)

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Reference

- Schmidt, O.C. 1923. Beiträge zur kenntnis der Gattung *Codium* Stackh. *Bibl. Bot.*, 91, 1-67.

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