

Short Note:**Additions to the seaweed flora of Muttom coastal waters, southwest coast of India**

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Abstract

During our field survey, 92 taxa were collected from the Muttom coastal waters of southwest coast of India. Specimens were brought to laboratory and processed for herbarium specimens with standard procedure and identified by using pertinent literature. After critical investigations, authors found that 52 taxa are not earlier reported from the region. So present paper deals new records of 54 taxa with its correct and updated citation and the seaweed flora of Muttom coast now consists of 92 taxa belonging to 42 genera and 28 families.

Key words: Additional taxa, Muttom coast, Seaweeds, Southwest coast.

Southwest coast of Kanyakumari district is one of the most botanized areas of southern India in terms of diversity and distribution of seaweeds (Domettila and Jeeva, 2013). Such seaweeds are mainly distributed in the intertidal rocks of Muttom, Kadiapattinam, Manavalakurichi, Colachel and Kurumpanai of southwest coast. Of these sites, Muttom sports a beautiful and tidy beach with rocky shores showing an astonishing biodiversity. Huge rocks standing at either sides of the beach give it a pristine look. However, in recent days anthropogenic factors causes the deterioration of this pristine habitat. For implementing any conservation measures it is utmost important to document the biodiversity of the area. In view of this coast the present study was conducted to inventory the seaweed flora of Muttom coastal waters of southwest coast of India.

Kaliaperumal and Pandian (1984) inventoried 25 taxa of seaweeds from Muttom

coast. Domettila *et al.* (2013) provided an annotated checklist of 38 taxa belonging to 3 phyla (Chlorophyta, Ochrophyta and Rhodophyta), 4 classes (Bryopsidaceae, Florideophyceae, Phaeophyceae and Ulvophyceae), 23 genera and 18 families. Perusal of these literatures reveals that many species of seaweeds of these coasts neither collected nor preserved as herbarium specimens. As a continuation of such explorations during our field survey, 54 additional taxa were collected from the coast (Table 1). The seaweed flora of Muttom coast now consists of 92 taxa belonging to 42 genera and 28 families.

The authors are thankful to Dr. P. Charles, Head, Department of Botany, Scott Christian College (Autonomous), Nagercoil for providing necessary facilities and encouragement. Authors are also thankful to the Director, Krishnamurthy Institute of Algology, Chennai for providing herbarium consultation and library facilities.

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Table 1. List of additional seaweed taxa collected from Muttom coast with their binomial, class and family.

Botanical name	Phylum	Order	Class	Family
<i>Acanthophora spicifera</i> (M.Vahl) Borgesen	Rhodophyta	Ceramiales	Florideophyceae	Rhodomelaceae
<i>Acetabularia caliculus</i> J.V. Lamouroux	Chlorophyta	Dasycladales	Ulvophyceae	Polyphyceae
<i>Ahnfeltia plicata</i> (Hudson) E.M.Fries	Rhodophyta	Ahnfeltiales	Florideophyceae	Ahnfeltiaceae
<i>Ahnfeltiopsis densus</i> Greville	Rhodophyta	Ahnfeltiales	Florideophyceae	Ahnfeltiaceae
<i>Amphiroa foliacea</i> J.V.Lamouroux	Rhodophyta	Corallinales	Florideophyceae	Corallinaceae
<i>Botryocladia leptopoda</i> (J.Agardh) Kylin	Rhodophyta	Rhodymeniales	Florideophyceae	Rhodymeniaceae
<i>Bryopsis plumosa</i> (Hudson) C.Agardh	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Caulerpa clavifera</i> (Forsskal) J.Agardh	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Caulerpa crassifolia</i> Sonder ex Kutzing	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Caulerpa cupressoides</i> (West) C.Agardh	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Caulerpa dichotoma</i> Svedelius	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Caulerpa fastigiata</i> Montagne	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Caulerpa fergusonii</i> G.Murray	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Caulerpa latevirens</i> J.V.Lamouroux	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Caulerpa parvula</i> Svedelius	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Caulerpa sedoides</i> C.Agardh	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Caulerpa sertularioides</i> (S.G.Gmelin) m.A.Howe	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Caulerpa taxifolia</i> (M.Vahl) C.Agardh	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Chaetomorpha aerea</i> (Dillwyn) Kutzing	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Chaetomorpha linum</i> (O.F. Muller) Kutzing	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Chaetomorpha litorea</i> Harvey	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Chaetomorpha media</i> (Bory de Saint- Vincent) Kutzing	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Chaetomorpha vieillardii</i> (Kutzing) M.J.Wynne	Chlorophyta	Bryopsidales	Bryopsidophyceae	Bryopsidaceae
<i>Champia compressa</i> Harvey	Rhodophyta	Rhodymeniales	Florideophyceae	Champiaceae
<i>Chnoospora fastigiata</i> J.Agardh	Ochrophyta	Scytosiphonales	Phaeophyceae	Scytosiphonaceae
<i>Codium decortcatum</i> (Woodward) M.A.Howe	Chlorophyta	Bryopsidales	Bryopsidophyceae	Codiaceae
<i>Codium dwarkense</i> Borgesen	Chlorophyta	Bryopsidales	Bryopsidophyceae	Codiaceae
<i>Colpomenia sinuosa</i> (Mertens ex Roth) Derbes & Solier	Ochrophyta	Scytosiphonales	Phaeophyceae	Scytosiphonaceae
<i>Cystoseira trinodis</i> (Forsskal) C.Agardh	Ochrophyta	Fucales	Phaeophyceae	Scytosiphonaceae
<i>Dictyota dichotoma</i> var. <i>intricata</i> (C.Agardh) Greville	Ochrophyta	Dictyotales	Phaeophyceae	Dictyotaceae
<i>Dictyota implexa</i> J.V.Lamouroux	Ochrophyta	Dictyotales	Phaeophyceae	Dictyotaceae
<i>Enteromorpha compressa</i> Linnaeus	Chlorophyta	Bryopsidales	Ulvophyceae	Ulvaceae
<i>Gelidiella acerosa</i> (Forsskal) Feldmann & G.Hamel	Rhodophyta	Gelidiales	Florideophyceae	Gelidiaceae
<i>Gracilaria corticata</i> var. <i>corticata</i> (J.Ag) J.Ag.	Rhodophyta	Gracilariales	Florideophyceae	Gracilariaceae
<i>Gracilaria corticata</i> var. <i>cylindrica</i> Umamaheswara Rao	Rhodophyta	Gracilariales	Florideophyceae	Gracilariaceae
<i>Halimeda opuntia</i> (Linnaeus) J.V.Lamouroux	Chlorophyta	Bryopsidales	Bryopsidophyceae	Halimedaceae
<i>Halimeda tuna</i> (J.Ellis & Solander) J.V.Lamouroux	Chlorophyta	Bryopsidales	Bryopsidophyceae	Halimedaceae
<i>Halopeltis sonderi</i> (J.Agardh) G.W.Saunders	Rhodophyta	Rhodymeniales	Florideophyceae	Rhodymeniaceae
<i>Helminthocladia calvadosii</i> (J.V.Lamouroux) ex Duby	Rhodophyta	Nemaliales	Florideophyceae	Liagoraceae
<i>Jania rubens</i> (Linnaeus) J.V.Lamouroux	Rhodophyta	Corallinales	Florideophyceae	Corallinaceae
<i>Laurencia parvula</i> Borgesen	Rhodophyta	Ceramiales	Florideophyceae	Rhodomelaceae
<i>Padina commersonii</i> Thivy	Ochrophyta	Dictyotales	Phaeophyceae	Dictyotaceae
<i>Padina distromatica</i> Hauck	Ochrophyta	Dictyotales	Phaeophyceae	Dictyotaceae
<i>Palisada perforata</i> (Bory de Saint-Vincent) K.W.Nam	Rhodophyta	Ceramiales	Florideophyceae	Rhodomelaceae
<i>Polysiphonia subtilissima</i> Montagne	Rhodophyta	Ceramiales	Florideophyceae	Rhodomelaceae
<i>Polysiphonia variegata</i> (C.Agardh) Zanardini	Rhodophyta	Ceramiales	Florideophyceae	Rhodomelaceae
<i>Scinaia fascicularis</i> (Borgesen) Huisman	Rhodophyta	Nemaliales	Florideophyceae	Scinaiaceae
<i>Scinaia furcellata</i> (Turner) J.Agardh	Rhodophyta	Nemaliales	Florideophyceae	Scinaiaceae
<i>Scinaia hatei</i> Borgesen	Rhodophyta	Nemaliales	Florideophyceae	Scinaiaceae
<i>Spyridia filamentosa</i> (Wulfen) Harvey	Rhodophyta	Ceramiales	Florideophyceae	Spyridiaceae
<i>Spyridia hypnoides</i> (Bory de Saint-Vincent) Papenfuss	Rhodophyta	Ceramiales	Florideophyceae	Spyridiaceae
<i>Syringoduim isoetifolium</i> (Ascher) Dandys.	Tracheophyta	Alismatales	Magnoliidae	Potamogetonaceae
<i>Thalassia hemprichii</i> (Ehrenberg) Ascherson	Tracheophyta	Alismatales	Magnoliidae	Potamogetonaceae
<i>Halodule pinifolia</i> (Miki) Hartog	Tracheophyta	Alismatales	Magnoliidae	Potamogetonaceae