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The Marine Algae of Tunisia

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The Marine Algae of Tunisia

Ernani G. Meñez
and Arthur C. Mathieson



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ABSTRACT

Meñez, Ernani G., and Arthur C. Mathieson. The Marine Algae of Tunisia. *Smithsonian Contributions to the Marine Sciences*, number 10, 59 pages, 1 figure, 1981.—A taxonomic study of the marine flora of Tunisia, North Africa, was conducted during 1973–1975. A total of 169 species, 37 Chlorophyta, 36 Phaeophyta, 96 Rhodophyta, of benthic marine algae were collected from 29 sites along the Mediterranean coast of Tunisia. Of the 169 species, 57 taxa are newly reported for the country. Of these, 16 represent genera previously unreported.

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Contents

	<i>Page</i>
Introduction	1
Acknowledgments	3
Collecting Locations on the Tunisian Coast	3
Key to the Marine Algae of Tunisia	4
Division PHAEOPHYTA	15
Class PHAEOPHYCEAE	15
Order ECTOCARPALES	15
Family ECTOCARPACEAE	15
* <i>Ectocarpus fasciculatus</i> Harvey	15
<i>Ectocarpus siliculosus</i> (Dillwyn) Lyngbye	15
* <i>Giffordia hincksiae</i> (Harvey) Hamel	15
Family RALFSIACEAE	15
<i>Ralfsia verrucosa</i> (Areschoug) J. Agardh	15
Order SPHACELARIALES	15
Family SPHACELARIACEAE	15
<i>Sphacelaria cirrosa</i> (Roth) C. Agardh	15
* <i>Sphacelaria furcigera</i> Kuetzing	16
* <i>Sphacelaria tribuloides</i> Meneghini	16
Family STYPOCAULACEAE	16
<i>Halopteris filicina</i> (Grateloup) Kuetzing	16
<i>Halopteris scoparia</i> (Linnaeus) Sauvageau	16
Family CLADOSTEPHACEAE	17
<i>Cladostephus verticillatus</i> (Lightfoot) Lyngbye	17
Order CUTLERIALES	17
Family CUTLERIACEAE	17
<i>Zanardinia prototypus</i> Nardo	17
Order DICTYOTALES	17
Family DICTYOTACEAE	17
<i>Dictyopteris membranacea</i> (Stackhouse) Batters	17
<i>Dictyota dichotoma</i> (Hudson) Lamouroux	18
<i>Dictyota linearis</i> (C. Agardh) Greville	18
<i>Dilophus fasciola</i> (Roth) Howe	18
<i>Dilophus spiralis</i> (Montagne) Hamel	18
<i>Padina pavonica</i> (Linnaeus) Thivy	19
* <i>Spatoglossum schroederi</i> (C. Agardh) Kuetzing	19
<i>Taonia atomaria</i> (Woodward) J. Agardh	19
<i>Zonaria tournefortii</i> (Lamouroux) Montagne	19

Order CHORDARIALES	20
Family STILOPHORACEAE	20
<i>Stilophora rhizodes</i> (Turner) J. Agardh	20
Family SPERMATOCHNACEAE	20
<i>Spermatochnus paradoxus</i> (Roth) Kuetzing	20
Family CHORDARIACEAE	20
<i>Myrionema strangulans</i> Greville	20
Order SCYTOSIPHONALES	20
Family PUNCTARIACEAE	20
* <i>Punctaria latifolia</i> Greville	20
Family SCYTOSIPHONACEAE	20
<i>Colpomenia sinuosa</i> (Mertens ex Roth) Derbes and Solier	20
<i>Scytosiphon lomentaria</i> (Lyngbye) Endlicher	21
Order FUCALES	21
Family CYSTOSEIRACEAE	21
<i>Cystoseira barbata</i> (Goodenough and Woodward) J. Agardh	21
<i>Cystoseira compressa</i> (Esper) Gerloff and Nizamuddin	21
<i>Cystoseira discors</i> C. Agardh	22
<i>Cystoseira mediterranea</i> Sauvageau	22
* <i>Cystoseira myriophylloides</i> Sauvageau	22
* <i>Cystoseira sauvageauiana</i> Hamel	22
<i>Cystoseira schiffneri</i> Hamel	22
<i>Cystoseira sedoides</i> (Desfontaines) C. Agardh	22
Family SARGASSACEAE	23
<i>Sargassum linifolium</i> (Turner) C. Agardh	23
<i>Sargassum vulgare</i> C. Agardh	23
Division CHLOROPHYTA	23
Class CHLOROPHYCEAE	23
Order ULVALES	23
Family MONOSTROMATACEAE	23
* <i>Blidingia marginata</i> (J. Agardh) Dangeard	23
Family ULVACEAE	23
* <i>Enteromorpha clathrata</i> (Roth) Greville	23
<i>Enteromorpha compressa</i> (Linnaeus) Greville	24
<i>Enteromorpha flexuosa</i> (Roth) J. Agardh	24
<i>Enteromorpha intestinalis</i> (Linnaeus) Link	24
<i>Enteromorpha linza</i> (Linnaeus) J. Agardh	24
* <i>Enteromorpha prolifera</i> (Mueller) J. Agardh	25
* <i>Enteromorpha ramulosa</i> (J. E. Smith) Carmichael in Hooker	25
<i>Ulva lactuca</i> Linnaeus	25
* <i>Ulva rigida</i> C. Agardh	25
Order CLADOPHORALES	25
Family CLADOPHORACEAE	25
<i>Chaetomorpha aerea</i> (Dillwyn) Kuetzing	25
* <i>Cladophora albida</i> (Hudson) Kuetzing	25
* <i>Cladophora crystallina</i> (Roth) Kuetzing	25

<i>Cladophora dalmatica</i> Kuetzing	26
* <i>Cladophora lutescens</i> Kuetzing	26
<i>Cladophora prolifera</i> (Roth) Kuetzing	26
* <i>Cladophora ramosissima</i> (Draparnaud ex Kuetzing) Kuetzing ..	27
<i>Cladophora rupestris</i> (Linnaeus) Kuetzing	27
<i>Cladophora utriculosa</i> Kuetzing	27
Family ANADYOMENACEAE	27
<i>Anadyomene stellata</i> (Wulfen) C. Agardh	27
Order SIPHONOCLADALES	27
Family VALONIACEAE	27
* <i>Valonia macrophysa</i> Kuetzing	27
<i>Valonia utricularis</i> C. Agardh	28
Family SIPHONOCLADACEAE	28
<i>Cladophoropsis modonensis</i> (Kuetzing) Boergesen	28
Order BRYOPSISDALES	28
Family BRYOPSISACEAE	28
* <i>Derbesia lamourouxii</i> (J. Agardh) Solier	28
<i>Bryopsis balbisiana</i> Lamouroux	28
* <i>Bryopsis hypnoides</i> Lamouroux	29
<i>Bryopsis muscosa</i> Lamouroux	29
<i>Bryopsis plumosa</i> (Hudson) C. Agardh	29
* <i>Pseudobryopsis myura</i> (J. Agardh) Berthold in Oltmanns ..	29
Family CAULERPACEAE	29
<i>Caulerpa prolifera</i> (Forsskal) Lamouroux	29
Family CODIACEAE	30
<i>Codium bursa</i> (Linnaeus) C. Agardh	30
* <i>Codium decortcatum</i> (Woodward) Howe	30
Family UDOTEACEAE	30
<i>Espera mediterranea</i> Decaisne	30
<i>Halimeda tuna</i> (Ellis and Solander) Lamouroux	30
<i>Udotea petiolata</i> (Turra) Boergesen	31
Order DASYCLADALES	31
Family DASYCLADACEAE	31
<i>Acetabularia acetabulum</i> (Linnaeus) Silva	31
<i>Dasycladus clavaeformis</i> (Roth) C. Agardh	31
Division RHODOPHYTA	32
Class RHODOPHYCEAE	32
Order BANGIALES	32
Family ERYTHROPELTIDACEAE	32
<i>Erythrotrichia carnea</i> (Dillwyn) J. Agardh	32
Family BANGIACEAE	32
<i>Bangia fuscopurpurea</i> (Dillwyn) Lyngbye	32
<i>Porphyra leucosticta</i> Thuret in Le Jolis	32
Order GONIOTRICHALES	32
Family GONIOTRICHACEAE	32
<i>Goniotrichum alsidii</i> (Zanardini) Howe	32

Order ACROCHAETIALES	33
Family ACROCHAETIACEAE	33
<i>Acrochaetium virgatulum</i> (Harvey in Hooker) J. Agardh	33
* <i>Acrochaetium codiculum</i> Boergesen	33
<i>Acrochaetium savianum</i> (Meneghini) Naegeli	33
Order NEMALIALES	33
Family HELMINTHOCLADIACEAE	33
<i>Liagora distenta</i> (Mertens in Roth) C. Agardh	33
<i>Liagora viscida</i> (Forsskal) C. Agardh	33
Order CHAETANGIALES	33
Family CHAETANGIACEAE	33
* <i>Scinaia forcellata</i> (Turner) Bivona	33
Order BONNEMAISONIALES	34
Family BONNEMAISONIACEAE	34
<i>Asparagopsis armata</i> Harvey	34
* <i>Bonnemaisonia asparagoides</i> (Woodward) C. Agardh	34
** <i>Falkenbergia rufolanosa</i> " (Harvey) Schmitz in Engler and Prantl	34
" <i>Trailliella intricata</i> " Batters	34
Order GELIDIALES	34
Family GELIDIACEAE	34
* <i>Gelidium latifolium</i> (Greville) Bornet and Thuret	34
* <i>Gelidium pectinatum</i> Montagne	35
<i>Gelidium pusillum</i> (Stackhouse) Le Jolis	35
<i>Pterocladia capillacea</i> (Gmelin) Bornet and Thuret	35
Order CRYPTONEMIALES	35
Family PEYSSONNELIACEAE	35
<i>Peyssonnelia rubra</i> (Greville) J. Agardh	35
<i>Peyssonnelia squamaria</i> (Gmelin) Decaisne	36
Family CORALLINACEAE	36
* <i>Amphiroa beauvoisii</i> Lamouroux	36
<i>Amphiroa rigida</i> Lamouroux	36
<i>Corallina elongata</i> Ellis and Solander	36
<i>Corallina granifera</i> Ellis and Solander	37
<i>Corallina officinalis</i> Linnaeus	37
<i>Dermatolithon pustulatum</i> (Lamouroux) Foslie	37
<i>Fosliella farinosa</i> (Lamouroux) Howe	37
<i>Halitilton squamatum</i> (Linnaeus) Johansen, Irvine, and Webster	38
<i>Jania corniculata</i> (Linnaeus) Lamouroux	38
* <i>Jania longifurca</i> Zanardini	38
<i>Jania rubens</i> (Linnaeus) Lamouroux	38
<i>Lithophyllum incrustans</i> Philippi	38
Family CRYPTONEMIACEAE	39
* <i>Cryptonemia seminervis</i> (C. Agardh) J. Agardh	39

Family KALLYMENIACEAE	39
<i>Kallymenia microphylla</i> J. Agardh	39
Order GIGARTINALES	39
Family HYPNEACEAE	39
<i>Hypnea musciformis</i> (Wulfen in Jacquin) Lamouroux	39
Family PLOCAMIACEAE	39
<i>Plocamium cartilagineum</i> (Linnaeus) Dixon	39
Family SPHAEROCOCCACEAE	40
<i>Sphaerococcus coronopifolius</i> (Goodenough and Woodward) Stackhouse	40
Family FURCELLARIACEAE	40
* <i>Halarachnion ligulatum</i> (Woodward) Kuetzing	40
Family GRACILARIACEAE	40
<i>Gracilaria armata</i> (C. Agardh) J. Agardh	40
<i>Gracilaria arcuata</i> Zanardini	40
* <i>Gracilaria cervicornis</i> (Turner) J. Agardh	40
<i>Gracilaria verrucosa</i> (Hudson) Papenfuss	41
Family PHYLLOPHORACEAE	41
* <i>Gymnogongrus griffithsiae</i> (Turner) Martius	41
<i>Phyllophora nervosa</i> (de Candolle) Greville in J. Agardh	41
* <i>Phyllophora pseudoceranoides</i> (Gmelin) Newroth and A.R.A. Taylor	41
Family GIGARTINACEAE	42
<i>Gigartina acicularis</i> (Wulfen) Lamouroux	42
Family RISSOELLACEAE	42
<i>Rissoella verruculosa</i> (Bertoloni) J. Agardh	42
Order RHODYMENIALES	42
Family RHODYMENIACEAE	42
* <i>Chrysymenia ventricosa</i> (Lamouroux) J. Agardh	42
* <i>Rhodymenia pseudopalmata</i> (Lamouroux) Silva	42
Family CHAMPIACEAE	42
<i>Champia parvula</i> (C. Agardh) Harvey	42
<i>Chylocladia verticillata</i> (Lightfoot) Bliding	43
<i>Gastroclonium clavatum</i> (Roth) Ardissonne	43
Family LOMENTARIACEAE	43
<i>Lomentaria articulata</i> (Hudson) Lyngbye	43
Order CERAMIALES	43
Family CERAMIACEAE	43
* <i>Antithamnion cruciatum</i> (C. Agardh) Naegeli	43
* <i>Callithamnion byssoides</i> Arnott in Hooker	44
<i>Callithamnion granulatum</i> (Ducluzeau) C. Agardh	44
<i>Callithamnion tetragonum</i> (Withering) C. Agardh	44
<i>Ceramium ciliatum</i> (Ellis) Ducluzeau	44
<i>Ceramium diaphanum</i> (Lightfoot) Roth	44
<i>Ceramium gracillimum</i> Griffiths and Harvey in Harvey	45

<i>Ceramium rubrum</i> (Hudson) C. Agardh	45
<i>Ceramium tenerrimum</i> (Martens) Okamura	45
<i>Ceramium tenuissimum</i> (Lyngbye) J. Agardh	45
* <i>Griffithsia flosculosa</i> (Ellis) Batters in Newton	45
* <i>Griffithsia phyllamphora</i> J. Agardh	45
* <i>Anotrichium tenue</i> (C. Agardh) Naegeli	46
<i>Spyridia filamentosa</i> (Wulfen) Harvey	46
<i>Wrangelia penicillata</i> C. Agardh	46
Family DELESSERIACEAE	46
* <i>Acrosorium uncinatum</i> (Turner) Kylin	46
* <i>Hypoglossum woodwardii</i> Kuetzing	47
* <i>Myriogramme distromatica</i> Rodriguez ex Boudouresque	47
Family DASYACEAE	47
* <i>Dasya baillowiana</i> (Gmelin) Montagne	47
<i>Heterosiphonia wurdemanni</i> (Bailey in Harvey) Falkenberg	47
Family RHODOMELACEAE	47
<i>Acanthophora najadiformis</i> (Delile) Papenfuss	47
<i>Alsidium corallinum</i> C. Agardh	48
* <i>Chondria coerulescens</i> (Crouan and Crouan) Falkenberg	48
<i>Chondria dasyphylla</i> (Woodward) C. Agardh	48
<i>Chondria tenuissima</i> (Goodenough and Woodward) C. Agardh	48
* <i>Digenia simplex</i> (Wulfen) C. Agardh	48
<i>Halopitys incurvus</i> (Hudson) Batters	49
<i>Herposiphonia tenella</i> (C. Agardh) Schmitz	49
<i>Herposiphonia tenella</i> forma <i>secunda</i> (C. Agardh) Hollenberg	49
<i>Laurencia obtusa</i> (Hudson) Lamouroux	49
* <i>Laurencia papillosa</i> (Forsskal) Greville	50
* <i>Laurencia pinnatifida</i> (Gmelin) Lamouroux	50
* <i>Lophosiphonia subadunca</i> (Kuetzing) Falkenberg	50
* <i>Lophosiphonia sacchoriza</i> Collins and Harvey	50
<i>Polysiphonia elongata</i> (Hudson) Harvey in Hooker	50
* <i>Polysiphonia macrocarpa</i> Harvey in Mackay	51
<i>Polysiphonia opaca</i> (C. Agardh) Zanardini	51
* <i>Polysiphonia urceolata</i> (Lightfoot in Dillwyn) Greville	51
* <i>Polysiphonia violacea</i> (Roth) Greville in Harvey	51
* <i>Pterosiphonia complanata</i> (Clemente) Falkenberg	51
* <i>Pterosiphonia pennata</i> (C. Agardh) Falkenberg	52
<i>Rytiphloea tinctoria</i> (Clemente) C. Agardh	52
<i>Vidalia volubilis</i> (Linnaeus) J. Agardh	52
Literature Cited	53

The Marine Algae of Tunisia

Ernani G. Meñez
and *Arthur C. Mathieson*

Introduction

The North African country of Tunisia lies on the southwestern shore of the Mediterranean between Algeria and Libya (Figure 1). The country's extensive coastline (approximately 1500 km) borders the eastern and western basins of the Mediterranean. Very few detailed floristic studies of the Tunisian marine flora have been conducted.

The first records of Tunisian marine algae (42 species) were published by Piccone (1884, 1879) from Galite and Cani Islands in northern Tunisia. Patouillard (1897) published a catalog of plants in which Sauvageau reported 6 species of seaweeds from the Gulf of Gabes in southeastern Tunisia. In the same year Debray (1897) reported 30 species from Tunisia. Peterson (1918) listed 19 species collected by Paulsen and Ostenfeld from Galite Island during the winter of 1908–1909 and summer of 1910 cruises of the *Thor's* Danish oceanographic expeditions to the Mediterranean and adjacent seas. Schiffner (1926) published the first marine flora of Tunisia, listing 60 species of algae from Tunis, the capital of the country, and Sfax, a coastal city in the east. Hamel (1926, 1927, 1931a,b) listed 55 species of algae from Tunisia. Feldmann published two short papers (1931a, 1951) on Tunisian algae citing a few

specimens from Gabes and Sousse. Subsequently Feldmann (1961) gave a comprehensive report of 90 species from Galite Island in northern Tunisia. Hamel and Lemoine (1953), in their publication of the Corallinaceae of France and North Africa, listed 15 species of coralline algae from Tunisia. Earlier Lemoine (1924) reported 3 species of calcareous algae from Tunisia during the Mediterranean cruise of the *Pourquois Pas?*. A list of 56 species of seaweeds from the Gulf of Tunis was published by Ben Alaya (1970). Other investigators, such as Fremy (1925), Pottier (1929), Huve (1962), Boudouresque (1967), Mazoyer (1937, 1938), Seurat (1929), Mollinier and Picard (1954), have also contributed to our knowledge of the benthic marine algae in Tunisia.

General collections of seaweeds were made at different times of the year at 29 sites throughout the Tunisian coast (Figure 1) between 1973–1975. Voucher specimens of all the species collected at each site were prepared. Whenever possible, 5 or more replicates of each species were made. Habitat descriptions of the 29 collecting sites (Figure 1) are summarized in "Collecting Locations on the Tunisian Coast." Overall, the sites represent exposed, semi-exposed, and sheltered locations, and the algae were either growing on rocks or sand-mud substrate or epiphytically on seagrasses or other algae. The specimens were collected principally by free diving to 3 m deep or dredging to a depth of 40 m.

A total of 169 taxa of seaweeds was collected

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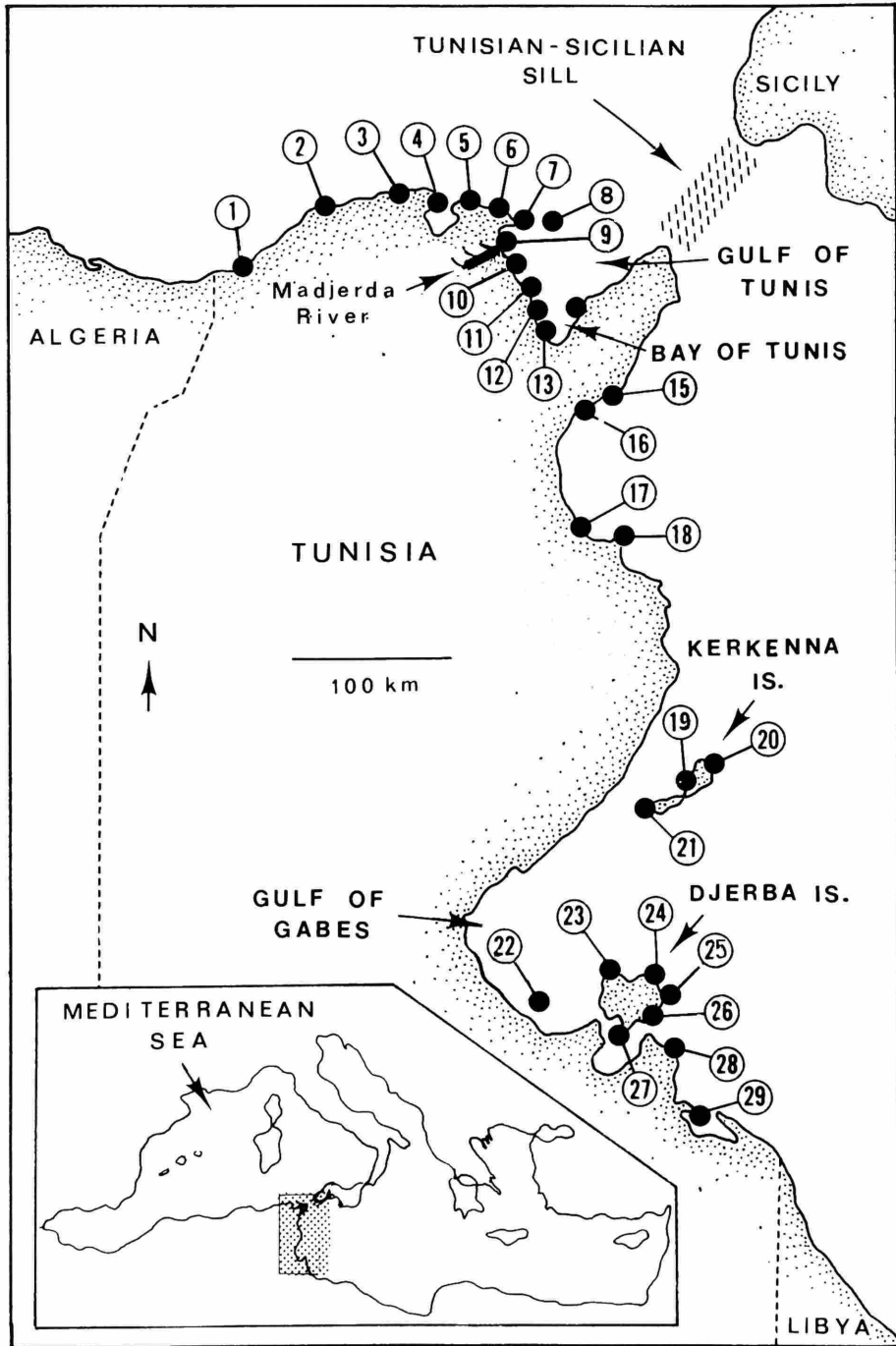


FIGURE 1.—General collecting sites throughout the Tunisian coast.

from the 29 sites in Tunisia, including 37 (22%) Chlorophyta, 36 (21%) Phaeophyta, and 96 (57%) Rhodophyta. Of the 169 species, 57 are newly reported from Tunisia, i.e., 14 Chlorophyta, 8 Phaeophyta and 35 Rhodophyta. Of these, 16 represent genera previously unreported. The genera are: *Spatoglossum*, *Punctaria*, *Blidingia*, *Derbesia*, *Pseudobryopsis*, *Scinaia*, *Myriogramme*, *Bonnemaisonia*, *Falkenbergia*, *Cryptonemia*, *Halarachnion*, *Hypoglossum*, *Rhodymenia*, *Pterosiphonia*, *Spyridia*, *Digenia*. The taxa new to Tunisia are designated with an asterisk (*) in the systematic section. Basionyms and synonyms are included in the list. References pertinent to Tunisian marine flora, general collection data, and the distribution of seaweed taxa in the Mediterranean, northeastern Atlantic, Red Sea, and Indian Ocean are included in the list. Collector is designated as EGM for E. G. Meñez. The numbers in italic cited after the collector correspond to collecting stations, followed by specimen numbers in roman. Specimens are being deposited in the U.S. National Herbarium, Smithsonian Institution (US), the Hogdon Herbarium (NHA) at the University of New Hampshire, and the Institut National Scientifique, Technical d'Océanographie et des Pêches (IN-STOP) in Tunisia.

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Collecting Locations on the Tunisian Coast

The Tunisian coastline is approximately 1500 km long. The northern boundary (08°45'00" N lat., 36°57'00" E long.) is 5 km west of the city of Tabarka and the southern boundary (11°34'00" N lat., 33°10' 00" E long.) is 6 km south of Lake El Bibane. A brief description of each collecting station (Figure 1) is given below.

- Station 1, Tabarka: a sheltered rocky beach at the western edge of the port. The substrate consists of large subtidal rock outcrops. A rich algal flora is evident.
- Station 2, Cap Serrat: a semi-exposed sandy beach 56 km west of Bizerte. A rocky promontory with large tidepools provides an excellent substrate for a well-developed flora. Heavy populations of *Posidonia* with numerous algal epiphytes.
- Station 3, Bechateur: an isolated, semi-exposed rocky site with a sandy beach 3 km west of the town. Rocky outcrops and *Posidonia* beds abound with algae.
- Station 4, Corniche, Bizerte: an exposed sandy beach located behind Hotel Corniche 4 km west of the town. Collection consisted of drift specimens of algae.
- Station 5, Cap Zebib: an exposed sandy beach 12 km west of Bizerte. Vertical surfaces of rock benches, subtidal rock platforms, and sparse population of seagrass provide an excellent substrate for a rich algal flora.
- Station 6, Raf Raf: an exposed sandy beach 15 km west of Cap Zebib. The substrate consists of a few, small rock outcrops and sand. Algae were sparse.

Station 7, Ras Sidi Ali El Mekki: an exposed sandy beach at the northwest end of Gulf of Tunis. Few, scattered rocks with poor algal cover.

Station 8, Ile Plane: an exposed offshore station 8 km west of Ras Sidi Ali El Mekki. The substrate consists of rocks mixed with sand and calcareous algae fragments. Algae were dredged from depths of 15–75 m.

Station 9, mouth of Madjerda: a semi-exposed site near a river outlet 8 km south of Ras Sidi Ali El Mekki. The substrate consists of muddy sand. Algae were dredged from depths of 15–57 m.

Station 10, Raouad: an exposed sandy beach 13 km south of Madjerda on the western side of the Gulf of Tunis. The substrate consists of sand with few, isolated rocks. Algae collection consisted of drift specimens.

Station 11, Gammarth: a semi-exposed sandy beach behind Abou Nawas Hotel 9 km south of Raouad. Rock outcrops and *Cymodocea* beds abound with well-developed marine flora.

Station 12, Corniche, La Marsa: a sheltered sandy beach 7 km north of Gammarth in the Bay of Tunis. A rocky promontory and extensive *Cymodocea* beds provide a good substrate for a rich algal flora.

Station 13, Sidi Bou Saïd: a sheltered marina enclosed by man-made rock piles 3 km south of Corniche, La Marsa. Sparse *Cymodocea* covered with algal epiphytes.

Station 14, Korbous: a semi-exposed rocky beach 6 km south of the town on the Cap Bon peninsula. Few algae were found on intertidal rocks and *Cymodocea*.

Station 15, Nabeul: an exposed rocky beach behind Hotel Pyramides on the Cap Bon peninsula. Intertidal rock platforms with few algae.

Station 16, Hammamet: a semi-exposed sandy beach behind an old fortification on the Cap Bon peninsula. Isolated boulders provide a good substrate for rich populations of *Codium* and *Porphyra*.

Station 17, Sousse: a semi-exposed sandy beach adjacent to the main boulevard. Massive rock piles 50 m offshore support a rich algal flora.

Station 18, Monastir: an exposed rocky beach 14 km south-

west of Sousse. The substrate consists of sand and rocks. Vegetation is poor.

Station 19, Sidi Fredj, Kerkenna Island: a semi-exposed sandy-muddy beach on the western end of the island. Occasional rocks and *Cymodocea* beds provide substrate for the algae.

Station 20, El Attaya, Kerkenna Island: an exposed sandy-muddy beach on the southern end of the island. Intertidal rock platforms and *Cymodocea* beds abound with lush algal vegetation.

Station 21, Sidi Youssef, Kerkenna Island: a sheltered sandy-muddy beach adjacent to the ferry-landing. Sand, mud, and occasional rocks support a poor vegetation.

Station 22, Gulf of Gabes: an offshore station 72 km south of the city of Sfax. Algae were dredged from depths of 37–38 m.

Station 23, Bordj Djillidj, Djerba Island: an exposed sandy beach on the northwestern end of the island. Coarse sand supports few algae.

Station 24, Dar Djerba, Djerba Island: an exposed sandy beach behind Hotel Dar Djerba. Rock outcrops with poor cover of algae.

Station 25, Sakiët, Djerba Island: an exposed sandy beach 3 km south of Dar Djerba. Seagrass, rocks, and sand provide substrate for algae.

Station 26, El Kantara, Djerba Island: a sheltered sandy beach on the southern end of the island. Intertidal rock platforms and *Cymodocea* beds provide a good substrate for marine vegetation.

Station 27, Aghir, Djerba Island: a semi-exposed sandy beach 5 km north of El Kantara. *Cymodocea* with numerous algal epiphytes. Occasional rocks support sparse populations of larger algae.

Station 28, Zarzis: an exposed sandy beach adjacent to a small bridge 18 km south of El Kantara. The substrate consists of rocks and sand. Vegetation is poor.

Station 29, El Bibane: a sheltered salt-water lake 8 km north of the Libyan border. The substrate inside the lake consists of mud and sand, which support thick populations of *Cystoseira*, *Udotea*, and *Halimeda*. Subtidal rock platforms at the narrow opening into the lake with rich algal cover.

Key to the Marine Algae of Tunisia

1. Plants calcified 2
 - Plants not calcified 13
2. A simple stalk bearing a disk at the apex . . . ***Acetabularia acetabulum***
 - Plants not a stalk bearing a disk at the apex 3
3. Plants flabellate ***Udotea petiolata***
 - Plants not flabellate 4
4. Plants erect 5
 - Plants crustose 10

5. Plants stiff, with heavy calcification 6
 Plants soft and pliable, moderately calcified *Liagora*
 A. Plants irregularly branched, with many laterals *L. distenta*
 Plants dichotomously branched, without laterals *L. viscida*
6. Plants with simple stalk and terminal tufts of free filaments
 *Espera mediterranea*
 Plants not a simple stalk with terminal tufts of filaments 7
7. Holdfast fibrous *Halimeda tuna*
 Holdfast not fibrous 8
8. Plants with axial conceptacles 9
 Plants with apical conceptacles *Haliptilon squamatum*
 Plants with lateral conceptacles *Amphiroa*
 A. Upper segments compressed, cylindrical below, dichotomously
 branched, branches often recurved *A. beauvoisii*
 Segments terete, branches not recurved *A. rigida*
9. Branching dichotomous *Jania*
 A. Diameter of main segments more than 400 μ ; plants more than 4 cm
 high *J. longifurca*
 Diameter of main segments less than 250 μ ; plants up to 5 cm
 high B
 B. Habit corymbose, segments 3–6 times as long as broad .. *J. rubens*
 Habit divaricate, segments 2–3 times as long as broad
 *J. corniculata*
9. Branching pinnate *Corallina*
 A. Conceptacles without horns *C. officinalis*
 Conceptacles with horns B
 B. Plants saxicolous; basal disk bears many large erect fronds; intergen-
 iculum compressed *C. elongata*
 Plants epiphytic; basal disk bears single erect fronds; intergeniculum
 partly cylindrical *C. granifera*
10. Thallus heavily encrusted with lime; sporangia in conceptacles 11
 Thallus moderately encrusted with lime; sporangia scattered between
 erect filaments(paraphyses) *Peyssonnelia*
 A. Plants crustose, loosely attached, somewhat rigid and stony, deep
 red *P. rubra*
 Plants crustose, closely adhering to substrate, leathery, brownish to
 rust colored *P. squamaria*
11. Secondary pit connections present 12
 Secondary pit connections absent *Fosliella farinosa*
12. Plants epiphytic on other algae *Dermatolithon pustulatum*
 Plants saxicolous *Lithophyllum incrustans*
13. Plants filamentous 14
 Plants not filamentous 34
14. Filaments branched 15
 Filaments unbranched *Chaetomorpha aerea*

15. Filaments entirely uniseriate 16
 Filaments partly or entirely multiseriate 26
16. Filaments with reticulate, clathrate, or fragmented chloroplast;
 multinucleate 17
 Filaments without reticulate, clathrate, or fragmented chloroplast;
 uninucleate 18
17. Thallus free-floating; chloroplast clathrate or fragmented; filaments
 entangled *Cladophoropsis modonensis*
 Thallus attached; chloroplast reticulate; filaments free ... *Cladophora*
 A. Plants a spongy mass of interwoven filaments *C. albida*
 Plants consisting of free filaments B
 B. Rhizoids numerous, long, rising from basal filaments ... *C. prolifera*
 Rhizoids few, short, arising from basal filaments C
 C. Filaments fine, soft, silky, and pale green *C. crystallina*
 Filaments coarse, not silky, dark green D
 D. Plants forming tufted cushions, not more than 1 cm high
 *C. lutescens*
 Plants erect, more than 2 cm high E
 E. Filaments near the base 150–200 μ in diameter, 6–10 times as long as
 broad *C. utriculosa*
 Filaments near the base less than 150 μ (rarely 200 μ) in diameter, 2–
 7 times as long as broad F
 F. Branch system acropetally organized, falcate *C. dalmatica*
 Branch system not acropetally organized, straight G
 G. Filaments 80–150 μ in diameter; branches opposite or in fours; cells
 3–4 times as long as broad *C. rupestris*
 Filaments 120–200 μ in diameter; branching radial; cells 2–6 times
 as long as broad *C. ramosissima*
18. Filaments without involucre cells 19
 Filaments bearing involucre filaments A
 A. Branching alternate or irregular, plants bushy . *Anotrichium tenue*
 Branching dichotomous, plants tufted *Griffithsia*
 B. Tetrasporangia naked *G. flosculosa*
 Tetrasporangia covered *G. phyllamphora*
19. Plants free-floating, green *Derbesia lamourouxii*
 Plants attached, color various but not green 20
20. Filaments occasionally epiphytic, reproducing commonly by poly-
 spores 21
 Filaments epiphytic, reproducing commonly by monospores
 *Acrochaetium*
 A. Base composed of creeping filaments *A. codiculum*
 Base composed of a disk B
 B. Disk produces creeping filaments *A. virgatulum*
 Disk produces directly erect filaments *A. savianum*

21. Filaments with highly refractive lateral vesicular cells *Trailiella intricata*
 Filaments without refractive lateral vesicular cells 22
22. Filaments ecorticate 23
 Filaments corticated at the nodes or sometimes cortical cells covering
 entire uniseriate axis *Ceramium*
- A. Filaments beset with spines at the nodes *C. ciliatum*
 Filaments without spines B
- B. Plants entirely corticated *C. rubrum*
 Plants corticated only at the nodes C
- C. Filaments setaceous at the base *C. diaphanum*
 Filaments not setaceous at the base D
- D. Cortical cells distinctly dissimilar in size and shape; tetrasporangia
 covered by cortical cells E
 Cortical cells similar in size and shape; tetrasporangia naked
 *C. tenuissimum*
- E. Cortical cells at the base of the node larger than cells above
 *C. tenerrimum*
 Cortical cells above the node larger than cells below
 *C. gracillimum*
23. Sporangia tetrapartite or tetrahedral 24
 Sporangia unilocular 25
24. Sporangia tetrapartite; cells uninucleate *Antithamnion cruciatum*
 Sporangia tetrahedral; cells plurinucleate *Callithamnion*
- A. Tetrasporangia elliptical; ultimate branchlets pinnate or di-
 chotomous B
 Tetrasporangia oval; ultimate branchlets alternate
 *C. tetragonum*
- B. Tetrasporangia lateral on branches; branchlets pinnate
 *C. byssoides*
 Tetrasporangia axial on branches; branchlets dichotomous
 *C. granulatium*
25. Chromatophores numerous, discoid *Giffordia hincksiae*
 Chromatophores few, banded *Ectocarpus*
- A. Base of plants tightly entangled becoming free above; ultimate bran-
 chlets secund and ending in a hair; plurilocular gametangia ovate-
 acuminate *E. fasciculatus*
 Base of plants loosely entangled becoming free above; ultimate
 branchlets secund, few ending in a hair; plurilocular gametangia
 subulate-conical, sometimes apices ending in long multicellular
 hairs *E. siliculosus*
26. Filaments without propagula 27
 Filaments with stalked, bi- or triradiate propagula *Sphacelaria*
- A. Branching irregular; propagulum bi- or triradiate B
 Branching pinnate; propagulum triradiate *S. cirrosa*

B. Propagulum triradiate	S. tribuloides
Propagulum biradiate	S. furcigera
27. Cells without pit connections	28
Cells with pit connections	30
28. Filaments uniseriate throughout	29
Filaments uniseriate below becoming multiseriate above	Bangia fuscopurpurea
29. Filaments unbranched, with gelatinous sheaths ..	Goniotrichum alsidii
Filaments branched, without gelatinous sheaths ..	Erythrotrichia carnea
30. Filaments with 3 pericentral cells	Falkenbergia rufolanosa
Filaments with 4 or more pericentral cells	31
31. Branches not formed in regular sequences	32
Determinate and indeterminate branches formed in regular sequences	Herposiphonia
A. Pericentral cells less than 10; erect determinate branches less than 1 mm long	H. tenella f. secunda
Pericentral cells more than 20; erect determinate branches more than 1 mm long	H. tenella
32. Plants erect, sometimes with decumbent basal filaments; apices straight	33
Plants with creeping primary axes, lateral branches with recurved apex	Lophosiphonia
A. Pericentral cells 4; rhizoids saccate	L. sacchoriza
Pericentral cells more than 4; rhizoids not saccate ..	L. subadunca
33. Main axes polysiphonous; ultimate branches monosiphonous	Heterosiphonia wurdemanni
Filaments entirely polysiphonous	Polysiphonia
A. Primary axes with 4 pericentral cells	B
Primary axes with 16–20 pericentral cells	P. opaca
B. Filaments corticated	C
Filaments uncorticated	D
C. Plants 10–15 cm high, branching alternate	P. violacea
Plants more than 15 cm high, branching irregular	P. elongata
D. Plants less than 3 cm high; branching irregular	P. macrocarpa
Plants more than 10 cm high; branching pseudodichotomous	P. urceolata
34. Plants not spongy or feltlike, without inflated utricles	35
Plants spongy or feltlike with a layer of inflated utricles	Codium
A. Plants an unbranched spherical mass	C. bursa
Plants erect, subdichotomously branched	C. decorticatum
35. Plants subspherical and convoluted	Colpomenia sinuosa
Plants not subspherical and convoluted	36
36. Thallus with inrolled margins	Padina pavonica
Thallus without inrolled margins	37

37. Medulla traversed by a system of filaments (trabeculae) ***Caulerpa prolifera***
 Medulla without trabeculae 38
38. Thallus not tufted, coarse and stiff, often more than 10 cm high, ramuli
 not basally constricted 39
 Thallus tufted, soft and flexuous, less than 10 cm high, with ramuli
 basally constricted and pinnately or multifariously arranged
 ***Bryopsis***
- A. Ramuli multifarious B
 Ramuli distichous, sometimes with only one row of ramuli C
- B. Main axes profusely branched ***B. hypnoides***
 Main axes simple ***B. muscosa***
- C. Diameter of ramuli less than 50 μ ***B. balbisiana***
 Diameter of ramuli more than 50 μ ***B. plumosa***
39. Plants bearing air-vesicles 40
 Plants without air-vesicles 41
40. Foliar structures spinelike; receptacles developed near tips of
 branches ***Cystoseira***
- A. Single axis produced from a single basal disk B
 Several axes produced from a single basal disk C
- B. Branches beset with long, slender, generally dichotomous ramuli;
 vesicles catenate ***C. barbata***
 Branches beset with short, stubby, spiny, dichotomous ramuli; vesicles
 solitary ***C. mediterranea***
- C. Axes and branches compressed, becoming terete distally; large fusi-
 form vesicles conspicuously catenate at younger parts of the plant
 ***C. compressa***
 Axes and branches terete; small round vesicles solitary or sometimes
 double and borne at bases of ramuli D
- D. Ramuli short, not more than 3 mm long, crowded or thickly set
 radially on branches E
 Ramuli long, slender, more than 3 mm long, branches and ramuli
 patent F
- E. Ramuli short, torulose, with blunt tips ***C. schiffneri***
 Ramuli slightly compressed, forked, with pointed tips involute, com-
 pletely covering axes and branches, except short portion near the
 basal disk ***C. sedoides***
- F. Ramuli compressed, irregular to opposite ***C. myriophylloides***
 Ramuli terete, dichotomous to subdichotomous G
- G. Basal disk producing two axes with many branches; ramuli
 dichotomous ***C. sauvageauiana***
 Basal disk producing more than two axes; branches clothed with tiny
 spinelike projections at the lower end; branchlets arising from apex
 of each main branch ***C. discors***
40. Foliar structures narrow or broad blades; receptacles axil-
 lary ***Sargassum***

- A. Blades linear-lanceolate, 5–9 cm long; vesicles with alated stalks; receptacles up to 7 mm long ***S. linifolium***
 Blades lanceolate, 1–2 cm long; vesicles with simple stalks, receptacles 2–4 mm long ***S. vulgare***
41. Thallus tubular, brown and constricted ***Scytosiphon lomentaria***
 Thallus, if tubular, not brown and constricted 42
42. Thallus not consisting of vacuolate cells 43
 Thallus consisting of vacuolate cells ***Valonia***
 A. Cells crowded together in a mass; cells ovoid, obovate or clavate, more than 5 mm in diameter
 ***V. macrophysa***
 Cells loose, long and clavate, less than 5 mm in diameter
 ***V. utricularis***
43. Thallus green and tubular 44
 Thallus not green and tubular 45
44. Two or more thalli arising from a single discoid holdfast
 ***Blidingia marginata***
 Thallus arising singly from a discoid holdfast ***Enteromorpha***
 A. Plants tubular near the base, expanded distally, unbranched, margins of blades hollow ***E. linza***
 Plants entirely cylindrical or compressed or expanded distally, simple or branched, hollow throughout B
 B. Cells in longitudinal series or at least in ultimate divisions C
 Cells not in longitudinal series F
 C. Plants repeatedly and profusely branched D
 Plants simple or with proliferations E
 D. Plants stiff, with short, spinelike branchlets ***E. ramulosa***
 Plants filiform, with elongate branchlets ***E. clathrata***
 E. Plants without proliferations ***E. flexuosa***
 Plants with proliferations ***E. prolifera***
 F. Plants unbranched, expanded distally, often contorted and open at the end ***E. intestinalis***
 Plants branched, expanded distally and compressed . . ***E. compressa***
45. Plants olive-brown to dark brown 46
 Plants not brown 59
46. Thallus consisting of a small monostromatic disk of radiating filaments ***Myrionema strangulans***
 Thallus not a monostromatic disk 47
47. Thallus with a distinct midrib ***Dictyopteris membranacea***
 Thallus without a midrib 48
48. Entire plant a slippery dark brown crust ***Ralfsia verrucosa***
 Entire plant not a slippery dark brown crust 49
49. Blades subpalmately lobed with an irregularly dentate margin
 ***Spatoglossum schroederi***
 Blades not subpalmately lobed 50

50. Blades wedge shaped *Taonia atomaria*
 Blades not wedge shaped 51
51. Plants consisting of an entire lanceolate blade *Punctaria latifolia*
 Plants not a lanceolate blade 52
52. Plants prostrate or appressed to substrate by numerous rhizoids
 *Zanardinia prototypus*
 Plants erect 53
53. Thallus without distichous or multipinnate branching 54
 Thallus with distichous or multipinnate branching *Halopteris*
 A. Branching multipinnate; plants attached by a disk *H. filicina*
 Branching distichous; plants attached by rhizoidal filaments
 *H. scoparia*
54. Branchlets whorled; main axes covered by rhizoidal filaments
 *Cladostephus verticillatus*
 Branchlets not whorled; main axes not covered by rhizoidal
 filaments 55
55. Blades flabellate and incised *Zonaria tournefortii*
 Blades not flabellate and incised 56
56. Thallus strap shaped 57
 Thallus not strap shaped 58
57. Medulla consisting of a single layer of cells *Dictyota*
 A. Blades straight, more than 2 mm wide *D. dichotoma*
 Blades twisted, less than 2 mm wide *D. linearis*
 Medulla with at least two layers of cells *Dilophus*
 A. Blades spiralled *D. spiralis*
 Blades straight *D. fasciola*
58. Branchlets dichotomous; sporangia borne on straight, clavate paraphyses
 in spherical sori *Spermatochnus paradoxus*
 Branchlets subdichotomous; sporangia borne on incurved, clavate
 paraphyses in hemispherical sori *Stilophora rhizodes*
59. Plants green 60
 Plants not green 63
60. Entire plant club shaped *Dasycladus clavaeformis*
 Entire plant not club shaped 61
61. Thallus flabellate, formed by polychotomously branched cells
 *Anadyomene stellata*
 Thallus not flabellate 63
62. Thallus tufted, consisting of uniseriate rows of cells originating from
 creeping rhizomes *Pseudobryopsis myura*
 Thallus a membranous, expanded, distromatic blade *Ulva*
 A. Plants with simple, lanceolate blades *U. lactuca*
 Plants with broad lobed blades *U. rigida*
63. Blades ligulate or strap shaped 64
 Blades not ligulate or strap shaped 67
64. Blade surface proliferous *Halarachnion ligulatum*
 Blade surface not proliferous 65

65. Blades ligulate and twisted ***Vidalia volubilis***
 Blades ligulate to strap shaped and not twisted 66
66. Plants consisting of simple, strap-shaped blades with inrolled apices ***Rytiphloea tinctoria***
 Plants consisting of proliferous, ligulate to strap-shaped blades without inrolled apices ***Rissoella verruculosa***
67. Entire plant one or two cells thick 68
 Entire plant more than two cells thick 69
68. Thallus monostromatic ***Porphyra leucosticta***
 Thallus distromatic ***Myriogramme distromatica***
69. Blades with a midrib ***Hypoglossum woodwardii***
 Blades without a midrib 70
70. Thallus without a stalk 71
 Thallus consisting of a distinct stalk, with expanded, flat, proliferous blades above ***Phyllophora***
 A. Plants with long, terete stalk expanding into flabellate, forked branches above ***P. nervosa***
 Plants with a short, terete stalk and with strap-shaped, dichotomous segments above ***P. pseudoceranoides***
71. Plants one cell thick, except in lower portions, occasionally branches with hooked apices ***Acrosorium uncinatum***
 Plants more than one cell thick, branches rarely with hooked apices .. 72
72. Medulla with stellate cells 73
 Medulla without stellate cells 74
73. Stellate cells numerous, large, with many refractive cells
 ***Kallymenia microphylla***
 Stellate cells few, small, with few refractive cells
 ***Cryptonemia seminervis***
74. Thallus expanded into a semicircular blade, repeatedly cleft into dichotomous segments ***Rhodymenia pseudopalmata***
 Thallus not semicircular and not cleft into segments 75
75. Plants with central-filament structure; monosiphonous (uniseriate) or polysiphonous (with development of pericentral cells around central cell); naked or corticated; auxillary cells produced from supporting cells after fertilization 76
 Plants without pericentral cells; not uniseriate; auxillary cells absent, or if present, they are formed before fertilization 85
76. Main axes covered with uniseriate, branched filaments; soft and delicate; older parts clothed by rhizoidal filaments ***Dasya baillouviana***
 Axes and branches with or without short, stiff, or spinelike branchlets; rigid and cartilaginous; rhizoidal filaments absent 77
77. Apical cells in sunken pits 78
 Apical cells not in sunken pits 79
78. Pericentral cells distinctly arranged in section; tetrasporangia developed from pericentral cells and embedded below cortical area .. ***Chondria***

- A. Ramuli attenuated at base and apex **C. tenuissima**
 Ramuli clavate B
- B. Ramuli long, truncated at apex **C. coerulescens**
 Ramuli short, rounded apex **C. dasyphylla**
78. Pericentral cells not distinct in section; tetrasporangia found outside of
 cortical area and not developed from pericentral cells **Laurencia**
 A. Thallus terete B
 Thallus compressed **L. pinnatifida**
 B. Branching alternate **L. papillosa**
 Branching opposite **L. obtusa**
79. Main axes corticated by downgrowth of filaments from nodal cells,
 pinnate-alternately branched **Wrangelia penicillata**
 Main axes naked, if corticated, then not consisting of filaments; branch-
 ing irregular 80
80. Branches pectinate or secund, with two rows of subulate
 ramuli **Halopitys incurvus**
 Branches not pectinate or secund and without rows of subulate
 ramuli 81
81. Spur branches present, bearing spinelike branchlets
 **Acanthophora najadiformis**
 Spur branches absent 82
82. Plants corticated 83
 Plants ecorticated **Alsidium corallinum**
83. Branching alternate or pinnate, terete or compressed 84
 Branching dichotomous, terete **Digenia simplex**
84. Main axes with alternate branches producing short, slender, deciduous
 spinelike branchlets **Spyridia filamentosa**
 Main axes producing pinnately arranged simple branchlets
 **Pterosiphonia**
 A. Plants procumbent, less than 5 cm high, branchlets terete
 **P. pennata**
 Plants erect, more than 5 cm high, compressed **P. complanata**
85. Typical auxillary cells absent 86
 Typical auxillary cells present 90
86. Plants haplobiontic 87
 Plants diplobiontic 89
87. Plants uniaxial 88
 Plants multiaxial **Scinaia forcellata**
88. Plants bushy, in brushlike tufts, alternately branched
 **Asparagopsis armata**
 Plants not bushy, with alternate, closely packed patent branchlets, and
 spinelike ramuli covering **Bonnemaisonia asparagoides**
89. Thallus compressed, rhizines present in the central medulla
 **Pterocladia capillacea**
 Thallus terete or compressed, rhizines present in the subcortical
 region **Gelidium**

- A. Plants with prostrate axes ***G. pusillum***
 Plants without prostrate axes B
- B. Plants erect, with broad flat axes and linear-lanceolate branches
 beset with bristle-like pinnae; branching distichous .. ***G. latifolium***
 Plants erect, terete shortly above the base, becoming flat above,
 pinnules often pinnate-alternate, occasionally radial
 ***G. pectinatum***
90. Auxillary cells formed by ordinary intercalary cells 91
 Auxillary cells formed by daughter cells of the supporting cell 96
91. Branching pinnately-decompound with alternately secund branch-
 lets ***Plocamium cartilagineum***
 Branching not pinnately-decompound and without alternate secund
 branchlets 92
92. Branches with spur branchlets, branch tips often hooked
 ***Hypnea musciformis***
 Branches without spur branchlets, branch tips straight 93
93. Thallus filiform, terete, irregularly branched; branches curved
 ***Gigartina acicularis***
 Thallus not filiform, terete or compressed, branches straight 94
94. Plants less than 5 cm high; branching dichotomous; branches slightly
 compressed ***Gymnogongrus griffithsiae***
 Plants more than 5 cm high; branching pinnate; branches terete or
 compressed 95
95. Branches fringed with numerous tiny proliferations which bear the
 cystocarps ***Sphaerococcus coronopifolius***
 Branches without proliferations, cystocarps sessile ***Gracilaria***
- A. Branches arcuate ***G. arcuata***
 Branches straight B
- B. Main axes compressed, repeatedly pinnately branched
 ***G. cervicornis***
 Main axes terete or slightly compressed, branching radial C
- C. Thallus terete, with spinelike branchlets ***G. armata***
 Thallus slightly compressed, without spinelike branchlets
 ***G. verrucosa***
96. Plants with stipitate pyriform vesicles ***Chrysiomenia ventricosa***
 Plants without vesicles 97
97. Plants hollow, or with few medullary filaments 98
 Plants entirely solid, or with solid axes below and hollow above 99
98. Plants entirely hollow ***Champia parvula***
 Plants solid at bases of branches ***Lomentaria articulata***
99. Axes solid below and hollow above; irregularly branched
 ***Gastroclonium clavatum***
 Axes with few medullary filaments; branching verticillate
 ***Chylocladia verticillata***

Division PHAEOPHYTA**Class PHAEOPHYCEAE****Order ECTOCARPALES****Family ECTOCARPACEAE*****Ectocarpus fasciculatus* Harvey**

**Ectocarpus fasciculatus* Harvey, 1851, pl. 273.—Gayral, 1958: 122, 197, 199.—Seoane-Camba, 1965:69.—Ardre, 1970: 231.—Boudouresque and Perrett, 1977:96.

DISTRIBUTION.—Tunisia (La Marsa); north-eastern Atlantic (Portugal, Spain, Morocco); Mediterranean (France, Corsica).

SPECIMENS STUDIED.—EGM 12: 298(US); 301 (NHA).

REMARKS.—Common; found in June and August epiphytic on various algae and *Cymodocea nodosa*.

***Ectocarpus siliculosus* (Dillwyn) Lyngbye**

Conferva siliculosa Dillwyn, 1807:69.

Ectocarpus siliculosus (Dillwyn) Lyngbye, 1819:131.—Bornet, 1892:246.—Funk, 1927:239.—Feldmann, 1931b:209; 1937:265.—Hamel, 1931d:21.—Papenfuss, 1968:28.—Ardre, 1970:229.—Gerloff and Geissler, 1971:743.—Güven and Östig, 1971:122.—Giaccone et al., 1973, table iv.—Harotiniadis and Tsekos, 1975:212.

DISTRIBUTION.—Tunisia (Tabarka, La Marsa, Sousse); northeastern Atlantic (Portugal, Morocco); Mediterranean (Spain, France, Italy, Sicily, Greece, Turkey, Algeria); Red Sea.

SPECIMENS STUDIED.—EGM 1: 296 (INSTOP), 302(US); 17: 297(NHA).

REMARKS.—Common; found in January, February, April, May, and August epiphytic on various algae and *Cymodocea nodosa*.

****Giffordia hincksiae* (Harvey) Hamel**

Ectocarpus hincksiae Harvey, 1841:40.—Bornet, 1892:246.

Giffordia hincksiae (Harvey) Hamel, 1939:xv.—Gayral, 1958: 200.—Seoane-Camba, 1965:70.—Ardre, 1970:238.

DISTRIBUTION.—Tunisia (Tabarka, Sousse); northeastern Atlantic (Portugal, Spain, Morocco).

SPECIMENS STUDIED.—EGM 1: 308, 309; 17: 306(US), 307(NHA), 310 (INSTOP).

REMARKS.—Common; found in April epiphytic on various algae and *Cymodocea nodosa*.

Family RALFSIACEAE***Ralfsia verrucosa* (Areschoug) J. Agardh**

Cruoria verrucosa Areschoug, 1843:264.

Ralfsia verrucosa (Areschoug) J. Agardh, 1848:62.—Piccone, 1884:117.—Bornet, 1892:241.—Boergesen, 1926:64.—Funk, 1927:344.—Feldmann, 1931b:210; 1961:505.—Riedl, 1963:47.—Seoane-Camba, 1965:70.—Papenfuss, 1968:30.—Ardre, 1970:247.—Gerloff and Geissler, 1971: 744.—Giaccone et al., 1973:110.—Furnari and Scammacca, 1973:7.—Boudouresque and Perret, 1977:100.

DISTRIBUTION.—Tunisia (Tabarka); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Corsica, Italy, Sicily, Adriatic Sea, Greece, Algeria); Red Sea.

SPECIMENS STUDIED.—EGM 1: 492(NHA); 18: 1976(US).

REMARKS.—Occasional; found in April growing as crust on rocks in the sublittoral zone.

Order SPHACELARIALES**Family SPHACELARIACEAE*****Sphacelaria cirrosa* (Roth) C. Agardh**

Conferva cirrosa Roth, 1800:214.

Sphacelaria cirrosa (Roth) C. Agardh, 1824:164.—Piccone, 1879:24; 1884:116.—Bornet, 1892:240.—Boergesen, 1926: 74.—Schiffner, 1926:308.—Funk, 1927:354.—Feldmann, 1931b:214; 1937:268; 1961:505.—Navarro and Uriarte, 1945:218.—Dao, 1957:168.—Riedl, 1963:49.—Seoane-Camba, 1965:76.—Ardre, 1970:258.—Gerloff and Geissler, 1971:749.—Güven and Östig, 1971:124.—Harotiniadis and Tsekos, 1975:212.—Boudouresque and Perret, 1977:104.

DISTRIBUTION.—Tunisia (Tabarka); northeast-

ern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Algeria).

SPECIMENS STUDIED.—EGM 1: 515(US), 1191(NHA).

REMARKS.—Common; found in April epiphytic on *Cystoseira sedoides*.

**Sphacelaria furcigera* Kuetzing

Sphacelaria furcigera Kuetzing, 1855:27.—Boergesen, 1926:72.—Papenfuss, 1968:31.—Boudouresque and Perret, 1977:105.

DISTRIBUTION.—Tunisia (Cap Serrat); northeastern Atlantic (Canary Islands); Mediterranean (Corsica); Red Sea; Indian Ocean.

SPECIMEN STUDIED.—EGM 2: 1184(US).

REMARKS.—Common; found in April epiphytic on *Cystoseira*.

**Sphacelaria tribuloides* Meneghini

Sphacelaria tribuloides Meneghini, 1840:[2].—Boergesen, 1926:72.—Funk, 1927:353.—Hamel, 1939:xli.—Feldmann, 1937:268.—Navarro and Uriarte, 1945:217.—Aleem, 1951:251.—Papenfuss, 1968:31.—Lipkin and Safriel, 1971:7.—Gerloff and Geissler, 1971:749.—Giaccone et al., 1973, table iv.—Harotinidis and Tsekos, 1975:213.—Boudouresque and Perret, 1977:106.

DISTRIBUTION.—Tunisia (Tabarka, Hammamet); northeastern Atlantic (Portugal, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Greece, Israel, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 516–518(US); 16: 519(NHA), 520(INSTOP).

REMARKS.—Occasional; found in April and September epiphytic on various algae.

Family STYPOCAULACEAE

Halopteris filicina (Grateloup) Kuetzing

Ceramium filicinum Grateloup, 1806:33.

Halopteris filicina (Grateloup) Kuetzing, 1843:292.—Bornet, 1892:239.—Petersen, 1918:8.—Funk, 1927:354.—Feld-

mann, 1931b:214; 1937:268; 1961:505.—Navarro and Uriarte, 1945:218.—Aleem, 1951:251.—Dao, 1957:169.—Riedl, 1963:49.—Edelstein, 1964:186.—Seoane-Camba, 1965:76.—Ardre, 1970:260.—Ben Alaya, 1970:209.—Furnari and Scammacca, 1970:219.—Gerloff and Geissler, 1971:749.—Güven and Östig, 1971:124.—Giaccone et al., 1973, table iv.—Harotinidis and Tsekos, 1975:212.—Boudouresque and Perret, 1977:103.

DISTRIBUTION.—Tunisia (Ile Plane, mouth of Madjerda, Sidi Bou Said); northeastern Atlantic (Portugal, Spain, Morocco); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Israel, Algeria, Egypt).

SPECIMENS STUDIED.—EGM 8: 316, 325–330; 9: 311–315, 317–320, 331; 13: 321–322(US), 323(NHA), 324(INSTOP).

REMARKS.—Common; found in October and December on rocks. Dredged from 15 to 57 m.

Halopteris scoparia (Linnaeus) Sauvageau

Conferva scoparia Linnaeus, 1758:720.

Halopteris scoparia (Linnaeus) Sauvageau, 1907:506.—Petersen, 1918:8.—Boergesen, 1926:75.—Feldmann, 1931b:214; 1937:268; 1961:505.—Hamel, 1938:263.—Nasr, 1940a:14.—Gayral, 1958:204.—Riedl, 1963:49.—Papenfuss, 1968:32.—Furnari and Scammacca, 1970:219.—Ardre, 1970:261.—Ben Alaya, 1970:209.—Gerloff and Geissler, 1971:749.—Güven and Östig, 1971:124.—Giaccone et al., 1973:112.—Harotinidis and Tsekos, 1975:212. *Stypocaulon scoparium* Kuetzing, 1843:293.—Bornet, 1892:238.—Funk, 1927:355.—Navarro and Uriarte, 1945:219.—Seoane-Camba, 1965:77.

DISTRIBUTION.—Tunisia (Cap Serrat, Tabarka, Cap Zebib, Bechateur, Ras Sidi Ali El Mekki, Bizerte, La Marsa, Sidi Bou Said, Nabeul, Hammamet, Monastir, Sousse, Djerba Island, El Bibane); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Italy, Sicily, Adriatic Sea, Greece, Turkey, Algeria, Libya, Egypt); Red Sea.

SPECIMENS STUDIED.—EGM 1: 336–338, 365; 2: 339, 351, 353, 1172, 1260; 3: 355, 375–386; 4: 349, 350; 5: 354, 1366, 1367; 7: 366; 12: 352, 356–358; 13: 359–364; 15: 369–374; 16: 367, 368; 17: 322; 18: 340–348(US); 24: 333–335(NHA); 29: 387(INSTOP).

REMARKS.—Abundant; found from February

to July and in September and October on rocks in the sublittoral zone.

Family CLADOSTEPHACEAE

Cladostephus verticillatus (Lightfoot) Lyngbye

Conferva verticillata Lightfoot, 1777:984.

Cladostephus verticillatus (Lightfoot) Lyngbye, 1819:102.—Fremy, 1925:28.—Boergesen, 1926:75.—Funk, 1927:356.—Feldmann, 1931b:214; 1937:268; 1961:505.—Hamel, 1938:268.—Navarro and Uriarte, 1945:219.—Riedl, 1963:49.—Seoane-Camba, 1965:77.—Ardre, 1970:262.—Ben Alaya, 1970:209.—Furnari and Scammacca, 1970:218.—Gerloff and Geissler, 1971:750.—Güven and Östig, 1971:125.—Giaccone et al., 1973:112.—Harotinidis and Tsekos, 1975:211.

Cladostephus verticillatus J. Agardh, 1848:43.—Piccone, 1884:117.—Bornet, 1892:239.—DeToni, 1895:455.—Gayral, 1958:208.

DISTRIBUTION.—Tunisia (Cap Serrat, Cap Zebib, Bechateur, Raf Raf, mouth of Madjerda, La Marsa, Sidi Bou Said, Hammamet, Nabeul, Monastir); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Italy, Sicily, Adriatic Sea, Greece, Turkey, Algeria, Libya).

SPECIMENS STUDIED.—EGM 2: 1265, 1266; 3: 13–21, 27, 30; 6: 7, 24; 9: 8–12, 26; 12: 22; 13: 5, 6, 23; 15: 25, 29; 16: 28; 18: 1–4(US), 2029(NHA), 2031(INSTOP).

REMARKS.—Abundant; found in February, from April to July, and in September, October, and December.

Order CUTLERIALES

Family CUTLERIACEAE

Zanardinia prototypus Nardo

Zanardinia prototypus Nardo, 1841:189.—Feldmann, 1937:268.—Aleem, 1951:251.—Dao, 1957:169.—Edelstein, 1962:213; 1964:187.—Ardre, 1970:263.—Furnari and Scammacca, 1970:218.—Ben Alaya, 1970:209.—Gerloff and Geissler, 1971:748.—Güven and Östig, 1971:125.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:109.

Padina collaris Montagne, 1846:33.

Zanardinia collaris Crouan and Crouan, 1867:168.—Bornet, 1892:231.

DISTRIBUTION.—Tunisia (Ile Plane); northeastern Atlantic (Portugal, Morocco); Mediterranean (France, Corsica, Sicily, Greece, Turkey, Israel, Egypt).

SPECIMEN STUDIED.—EGM 8: 545(US).

REMARKS.—Occasional; found in December on rocks. Dredged from 65 m.

Order DICTYOTALES

Family DICTYOTACEAE

Dictyopteris membranacea (Stackhouse) Batters

Fucus membranaceus Stackhouse, 1801, pl. 13.

Dictyopteris membranacea (Stackhouse) Batters, 1902:54.—Feldmann, 1937:268; 1961:505.—Hamel, 1938:341.—Nasr, 1940b:15.—Aleem, 1951:251.—Dao, 1957:169.—Edelstein, 1964:188.—Papenfuss, 1968:32.—Ardre, 1970:267.—Furnari and Scammacca, 1970:219.—Ben Alaya, 1970:208.—Gerloff and Geissler, 1971:750.—Giaccone et al., 1973, table iv.—Harotinidis and Tsekos, 1975:212.—Boudouresque and Perret, 1977:110.

Dictyopteris polypodioides Lamouroux, 1809c:19.—Boergesen, 1926:95.—Feldmann, 1931b:217.—Navarro and Uriarte, 1945:225.—Riedl, 1963:51.—Seoane-Camba, 1965:84.—Güven and Östig, 1971:124.

Haliseris polypodioides C. Agardh, 1820:142.—Piccone, 1879:26; 1884:120.—Muschler, 1910:468.—Schiffner, 1926:306.

DISTRIBUTION.—Tunisia (Cap Serrat, Tabarka, Raf Raf, Ras Sidi Ali El Mekki, La Marsa, Gammarth, Sidi Bou Said, Monastir, Djerba Island); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Israel, Algeria, Egypt); Red Sea.

SPECIMENS STUDIED.—EGM 1: 182; 2: 176, 177; 7: 180; 11: 193, 195–197; 12: 181, 189–191, 194, 1609; 13: 178, 179, 198, 199; 18: 193–196, 192(US); 24: 187(NHA), 188(INSTOP).

REMARKS.—Abundant; found throughout the year on rocks in the sublittoral zone.

Dictyota dichotoma (Hudson) Lamouroux

Ulva dichotoma Hudson, 1762:476.

Dictyota dichotoma (Hudson) Lamouroux, 1809a:331.—Muschler, 1910:301.—Fremy, 1925:28.—Boergesen, 1926:84.—Funk, 1927:361.—Feldmann, 1931b:216; 1937:268; 1961:505.—Hamel, 1939:347.—Navarro and Uriarte, 1945:226.—Nasr and Aleem, 1949:270.—Dao, 1957:169.—Gayral, 1958:218.—Riedl, 1963:51.—Edelstein, 1962:213; 1964:188.—Seoane-Camba, 1965:85.—Papenfuss, 1968:32.—Ardre, 1970:268.—Ben Alaya, 1970:208.—Furnari and Scammacca, 1970:219.—Gerloff and Geissler, 1971:750.—Güven and Östig, 1971:124.—Giaccone et al., 1973, table iv.—Harotinidis and Tsekos, 1975:211.—Boudouresque and Perret, 1977:111.

DISTRIBUTION.—Tunisia (Cap Serrat, Cap Zebib, Gammarrh, La Marsa, Sidi Bou Said, Nabeul, Monastir, Sousse, Djerba Island, El Bibane); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, Corsica, Italy, Sicily, Greece, Turkey, Israel, Algeria, Libya, Egypt); Indian Ocean.

SPECIMENS STUDIED.—EGM 2: 118, 119, 217–219, 1259, 1261, 1267; 3: 273; 5: 233, 234; 11: 227; 12: 228, 230, 232, 235–244; 13: 229; 15: 223–226, 231; 17: 203, 204, 206, 216; 18: 200–202, 207–214; 24: 205, 274, 275; 29: 215(US), 220(NHA), 221–222(INSTOP).

REMARKS.—Abundant; found throughout the year on rocks in the sublittoral zone.

Dictyota linearis (C. Agardh) Greville

Zonaria linearis C. Agardh, 1820:134.

Dictyota linearis (C. Agardh) Greville, 1830:xliii.—Piccone, 1879:25; 1884:118.—Muschler, 1910:301.—Petersen, 1918:8.—Boergesen, 1926:85.—Schiffner, 1926:306.—Funk, 1927:363.—Feldmann, 1931b:217; 1961:505.—Navarro and Uriarte, 1945:226.—Aleem, 1951:251.—Dao, 1957:169.—Edelstein, 1964:189.—Furnari and Scammacca, 1970:219.—Gerloff and Geissler, 1971:751.—Güven and Östig, 1971:124.—Giaccone et al., 1973, table iv.—Harotinidis and Tsekos, 1975:212.—Boudouresque and Perret, 1977:113.

DISTRIBUTION.—Tunisia (Tabarka, Bechateur,

Bizerte, Ras Sidi Ali El Mekki, Korbous, Hammamet, Monastir, Sousse, Kerkenna Island, Djerba Island); northeastern Atlantic (Morocco, Canary Islands); Mediterranean (Spain, Corsica, Italy, Sicily, Greece, Turkey, Israel, Algeria, Libya, Egypt); Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 249–251; 2: 1191, 1192; 3: 262, 269; 7: 265; 14: 263, 264, 266–268; 16: 261; 18: 253–259; 21: 260, 270–272(US); 24: 246–247(NHA), 248(INSTOP).

REMARKS.—Abundant; found from April to July and in September, October, and December on rocks or entangled amongst other algae in the sublittoral zone.

Dilophus fasciola (Roth) Howe

Fucus fasciola Roth, 1800:146.

Dictyota fasciola (Roth) Lamouroux, 1809d:14.—Muschler, 1910:301.—Güven and Östig, 1971:124.

Dilophus fasciola (Roth) Howe, 1914:72.—Boergesen, 1926:82.—Funk, 1955:50.—Feldmann, 1931b:217; 1937:269; 1961:505.—Hamel, 1939:351.—Dao, 1957:139.—Gayral, 1958:224.—Seoane-Camba, 1965:85.—Papenfuss, 1968:33.—Ardre, 1970:269.—Ben Alaya, 1970:210.—Gerloff and Geissler, 1971:751.—Lipkin and Safriel, 1971:9.—Giaccone et al., 1973, table iii.—Boudouresque and Perret, 1977:114.

DISTRIBUTION.—Tunisia (Bechateur, Ras Sidi Ali El Mekki, Nabeul); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (France, Corsica, Italy, Sicily, Greece, Israel, Algeria, Libya); Red Sea.

SPECIMENS STUDIED.—EGM 3: 278–280; 7: 276, 277; 15: 281(US); 25: 292–293(NHA), 294–295(INSTOP).

REMARKS.—Occasional; found in June, July, September, and December on rocks in the sublittoral zone.

Dilophus spiralis (Montagne) Hamel

Dictyota spiralis Montagne, 1846:29.

Dilophus spiralis (Montagne) Hamel, 1939:352.—Ardre, 1970:269.—Gerloff and Geissler, 1971:752.—Lipkin and Safriel, 1979:9.—Harotinidis and Tsekos, 1975:212.

Dictyota ligulata Kuetzing, 1847:53.—Feldmann, 1931b:216.
Dilophus ligulatus Feldmann, 1937:269.—Nasr, 1940a:4.

DISTRIBUTION.—Tunisia (Bechateur, Raf Raf, Nabeul, Monastir, Djerba Island); northeastern Atlantic (Portugal); Mediterranean (Greece, Israel, Algeria, Egypt).

SPECIMENS STUDIED.—EGM 3: 285–288; 6: 289; 15: 290; 18: 282–283(US), 284(NHA); 25: 291(INSTOP).

REMARKS.—Common; found from March to May and in July, September, October, and December on rocks in the sublittoral zone.

Padina pavonica (Linnaeus) Thivy

Fucus pavonicus Linnaeus, 1753:1162.

Padina pavonica (Linnaeus) Thivy in Taylor, 1960:234.—Papenfuss, 1968:34.

Padina pavonia (Linnaeus) Gaillon, 1828:371.—Piccone, 1879: 26; 1884:119.—Bornet, 1892:230.—Fremy, 1925:28.—Boergesen, 1926:86.—Schiffner, 1926:306.—Pottier, 1929: 322.—Feldmann, 1931b:217; 1937:268; 1961:505.—Hamel, 1939:341.—Nasr, 1940b:14.—Nasr and Aleem, 1949: 272.—Aleem, 1951:251.—Dao, 1957:169.—Gayral, 1958: 230.—Riedl, 1963:51.—Edelstein, 1964:188.—Seoane-Camba, 1965:82.—Ardre, 1970:267.—Furnari and Scammacca, 1970:219.—Gerloff and Geissler, 1971:752.—Güven and Östig, 1971:124.—Harotinidis and Tsekos, 1975: 212.

Padina pavonia (Linnaeus) Lamouroux, 1816:304.—Muschler, 1910:302.—Funk, 1927:365.—Navarro and Uriarte, 1945: 224.—Ben Alaya, 1970:208.

DISTRIBUTION.—Tunisia (Cap Serrat, Cap Zebib, Bechateur, Tabarka, Raf Raf, Ras Sidi Ali El Mekki, La Marsa, Korbous, Nabeul, Hammamet, Gammarth, Monastir, Djerba Island, Kerkenna Island, Zarzis, El Bibane); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Italy, Adriatic Sea, Greece, Turkey, Israel, Algeria, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 462–464; 2: 446, 461, 478; 3: 417–421; 5: 468; 6: 392, 393; 7: 391; 11: 406–408, 465, 466; 12: 467, 470, 471, 473–478; 13: 388; 14: 401–405; 15: 395–400, 414–416; 16: 394; 18: 435, 436, 438, 448, 449, 453–457; 25: 389, 390, 469; 26: 429–431, 440–442, 447, 458, 459; 27: 460; 28: 427, 428, 437, 439(US); 29: 450–452(NHA), 472(INSTOP).

REMARKS.—Abundant; found from February to October on rocks in the sublittoral zone.

**Spatoglossum schroederi* (C. Agardh) Kuetzing

Zonaria schroederi C. Agardh, 1824:265.

Spatoglossum schroederi (C. Agardh) Kuetzing, 1859:21.

DISTRIBUTION.—Tunisia (Djerba Island); Indian Ocean.

SPECIMENS STUDIED.—EGM 24: 504(US), 505(NHA), 506(INSTOP).

REMARKS.—Rare; found in May on rocks in the sublittoral zone.

Taonia atomaria (Woodward) J. Agardh

Ulva atomaria Woodward, 1797:53.

Taonia atomaria (Woodward) J. Agardh, 1848:101.—Bornet, 1892:229.—Muschler, 1910:302.—Boergesen, 1926:89.—Funk, 1927:364.—Feldmann, 1931b:217; 1937:268; 1961: 505.—Hamel, 1939:337.—Aleem, 1951:251.—Gayral, 1958:232.—Riedl, 1963:51.—Seoane-Camba, 1965:82.—Ardre, 1970:266.—Gerloff and Geissler, 1971:753.—Harotinidis and Tsekos, 1975:213.—Boudouresque and Perret, 1977:118.

DISTRIBUTION.—Tunisia (Bechateur, Raf Raf, La Marsa, Gammarth); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (France, Corsica, Italy, Adriatic Sea, Greece, Algeria, Libya, Egypt).

SPECIMENS STUDIED.—EGM 3: 536; 6: 537, 538; 11: 527, 529–532; 12: 528, 539–544(US); 15: 533–534(NHA), 535(INSTOP).

REMARKS.—Common; found from March to May and in July and September on rocks in the sublittoral zone.

Zonaria tournefortii (Lamouroux) Montagne

Fucus tournefortii Lamouroux, 1805:44.

Zonaria tournefortii (Lamouroux) Montagne, 1846:32.—Bornet, 1892:230.—Boergesen, 1926:92.—Feldmann, 1931b: 217; 1961:505.—Hamel, 1939:338.—Navarro and Uriarte, 1945:224.—Gayral, 1958:225.—Furnari and Scammacca, 1970:219.—Gerloff and Geissler, 1971:753.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:118.

Zonaria flava (Clemente) C. Agardh, 1820:140.—Piccone, 1879:26; 1884:119.—Muschler, 1910:302.—Funk, 1927:366.

DISTRIBUTION.—Tunisia (Ile Plane, Mouth of Madjerda); northeastern Atlantic (Spain, Morocco, Canary Islands); Mediterranean (Spain, Corsica, Italy, Sicily, Greece, Algeria, Libya); Indian Ocean.

SPECIMENS STUDIED.—EGM 8: 550; 9: 551(US); 11: 546–547(NHA), 548–549(INSTOP).

REMARKS.—Occasional; found in December. Dredged from 71 to 75 m.

Order CHORDARIALES

Family STILOPHORACEAE

Stilophora rhizodes (Turner) J. Agardh

Fucus rhizodes Turner, 1819:92.

Stilophora rhizodes (Turner) J. Agardh, 1841:6.—Piccone, 1879:25; 1884:118.—Papenfuss, 1968:38.—Gerloff and Geissler, 1971:746.

Stilophora rhizodes (Ehrenberg) J. Agardh, 1841:6.—Fremy, 1925:28.—Schiffner, 1926:310.—Feldmann, 1937:267; 1961:505.—Nasr, 1940b:10.—Navarro and Uriarte, 1945:215.—Riedl, 1963:53.—Güven and Östig, 1971:125.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:120.

DISTRIBUTION.—Tunisia (Djerba Island); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Libya, Egypt); Red Sea.

SPECIMENS STUDIED.—EGM 24: 521–524(US), 526(NHA); 29: 525(INSTOP).

REMARKS.—Occasional; found in March epiphytic on other algae.

Family SPERMATOCNACEAE

Spermatocnus paradoxus (Roth) Kuetzing

Conferva paradoxa Roth, 1800:172.

Spermatocnus paradoxus (Roth) Kuetzing, 1845:268.—Funk, 1955:37.—Feldmann, 1937:267; 1961:505.—Riedl, 1963:53.—Edelstein, 1964:185.—Gerloff and Geissler, 1971:746.—Güven and Östig, 1971:125.

DISTRIBUTION.—Tunisia (Kerkenna Island);

Mediterranean (France, Italy, Adriatic Sea, Greece, Turkey, Israel, Algeria).

SPECIMENS STUDIED.—EGM 20: 507–512(US), 513(NHA), 514(INSTOP).

REMARKS.—Rare; found in April on rocks in the sublittoral zone.

Family CHORDARIACEAE

Myrionema strangulans Greville

Myrionema strangulans Greville, 1827, pl. 300.—Hamel, 1935:88.—Navarro and Uriarte, 1945:213.—Feldmann, 1961:504.—Ardre, 1970:249.—Gerloff and Geissler, 1971:744.—Boudouresque and Perret, 1977:120.

DISTRIBUTION.—Tunisia (Bechateur); northeastern Atlantic (Portugal); Mediterranean (Spain, France, Corsica, Algeria, Libya).

SPECIMENS STUDIED.—EGM 3: 946–947(US), 948(NHA), 1295(INSTOP).

REMARKS.—Rare; found in May endophytic in *Enteromorpha compressa*.

Order SCYTOSIPHONALES

Family PUNCTARIACEAE

**Punctaria latifolia* Greville

Punctaria latifolia Greville, 1830:52.—Funk, 1927:348.—Feldmann, 1937:267.—Riedl, 1963:54.—Güven and Östig, 1971:124.—Harotinidis and Tsekos, 1975:212.—Boudouresque and Perret, 1977:100.

DISTRIBUTION.—Tunisia (La Marsa); Mediterranean (France, Corsica, Italy, Greece, Turkey).

SPECIMENS STUDIED.—EGM 12: 480(US), 489(NHA), 491(INSTOP).

REMARKS.—Occasional; found from January to July epiphytic on *Cymodocea nodosa*.

Family SCYTOSIPHONACEAE

Colpomenia sinuosa (Mertens ex Roth) Derbes and Solier

Ulva sinuosa Mertens ex Roth, 1806:327.

Colpomenia sinuosa (Mertens ex Roth) Derbes and Solier, 1856:

11.—Bornet, 1892:249.—Boergesen, 1926:70.—Funk, 1927:352.—Feldmann, 1931b:213; 1937:267; 1961:505.—Nasr, 1940b:12.—Navarro and Uriarte, 1945:216.—Aleem, 1951:251.—Gayral, 1958:213.—Edelstein, 1964:186.—Seoane-Camba, 1965:74.—Papenfuss, 1968:38.—Ardre, 1970:273.—Furnari and Scammacca, 1970:219.—Gerloff and Geissler, 1971:747.—Güven and Östig, 1971:125.—Giaccone et al., 1973, table iv.—Harotinidis and Tsekos, 1975:211.—Boudouresque and Perret, 1977:95.

DISTRIBUTION.—Tunisia (Cap Serrat, Cap Zebib, Tabarka, Bizerte, La Marsa, Bechateur, Sidi Bou Said, Nabeul, Monastir); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Israel, Algeria, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 37, 1229; 2: 33–36, 1264, 1290; 3: 41–43, 45; 4: 40; 5: 47; 12: 44, 46, 48; 15: 49; 18: 38–39(US), 2027(NHA), 2028(INSTOP).

REMARKS.—Common; found from February to May and in July on rocks and occasionally epiphytic on various algae.

Scytosiphon lomentaria (Lyngbye) Endlicher

Chorda lomentaria Lyngbye, 1819:74.

Scytosiphon lomentaria (Lyngbye) Endlicher, 1843:25.—Bornet, 1892:249.—DeToni and Forti, 1914:291.—Boergesen, 1926:67.—Feldmann, 1931b:213; 1937:267.—Hamel, 1937:194.—Nasr, 1940b:12.—Navarro and Uriarte, 1945:215.—Riedl, 1963:55.—Seoane-Camba, 1965:72.—Papenfuss, 1968:39.—Ardre, 1970:270.—Gerloff and Geissler, 1971:747.—Güven and Östig, 1971:125.—Lipkin and Safriel, 1971:8.—Harotinidis and Tsekos, 1975:212.—Boudouresque and Perret, 1977:101.

DISTRIBUTION.—Tunisia (Cap Serrat, Nabeul); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Adriatic Sea, Greece, Turkey, Israel, Algeria, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 2: 495–498; 5: 499, 500; 15: 501(US), 502(NHA), 503(INSTOP).

REMARKS.—Occasional; found from February

to April and in July on rocks in the sublittoral zone.

Order FUCALES

Family CYSTOSEIRACEAE

Cystoseira barbata (Goodenough and Woodward) J. Agardh

Fucus barbatus Goodenough and Woodward, 1797:128.

Cystoseira barbata (Goodenough and Woodward) J. Agardh, 1842:50.—Schiffner, 1926:304.—Funk, 1927:371.—Feldmann, 1937:269.—Hamel, 1939:392.—Navarro and Uriarte, 1945:228.—Riedl, 1963:55.—Ardre, 1970:317.—Ben Alaya, 1970:200.—Gerloff and Geissler, 1971:754.—Güven and Östig, 1971:124.—Harotinidis and Tsekos, 1975:211.

DISTRIBUTION.—Tunisia (Bechateur, Gammarth, Sidi Bou Said, Korbous); northeastern Atlantic (Portugal); Mediterranean (Spain, France, Italy, Adriatic Sea, Greece, Turkey, Libya).

SPECIMENS STUDIED.—EGM 3: 61; 11: 63, 64; 13: 52; 14: 56–60; 24: 2139–2141(US); 29: 54(NHA), 55(INSTOP).

REMARKS.—Common; found in March, May, June, July, and October on rocks in the sublittoral zone.

Cystoseira compressa (Esper) Gerloff and Nizamuddin

Fucus compressus Esper, 1799:152.

Cystoseira compressa (Esper) Gerloff and Nizamuddin, 1975:342.

Cystoseira fimbriata (Desfontaines) Bory, 1832:318.—Hamel, 1939:418.—Dao, 1957:169.—Gayral, 1958:260.—Seoane-Camba, 1965:90.—Gerloff and Geissler, 1971:755.—Giaccone et al., 1973, table iv.—Harotinidis and Tsekos, 1975:211.

Cystoseira abrotanifolia J. Agardh, 1842:52.—Piccone, 1879:27; 1884:122.—Bornet, 1892:257.—Muschler, 1910:300.—Boergesen, 1926:104.—Funk, 1927:369.—Feldmann, 1931b:221; 1937:269.—Navarro and Uriarte, 1945:230.—Riedl, 1963:57.—Güven and Östig, 1971:124.—Lipkin and Safriel, 1971:15.

DISTRIBUTION.—Tunisia (Cap Zebib, Tabarka, Bechateur, Bizerte, Gammarth, La Marsa, Na-

beul, Monastir, Kerkenna Island, Djerba Island); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily).

SPECIMENS STUDIED.—EGM 1: 92; 3: 102–104; 4: 98; 5: 93–94; 11: 89, 91, 95, 105, 106; 12: 96, 97; 13: 77; 15: 90; 20: 2062, 2065(US), 24: 99–100(NHA), 101(INSTOP).

REMARKS.—Common; found from February to May and in July and November on rocks in the sublittoral zone.

Cystoseira discors C. Agardh

Cystoseira discors C. Agardh, 1828:62.—Muschler, 1910:300.—Boergesen, 1926:103.—Feldmann, 1931b:221; 1937:269; 1961:506.—Navarro and Uriarte, 1945:230.—Riedl, 1963:57.—Seoane-Camba, 1965:91.—Gerloff and Geissler, 1971:755.—Güven and Östig, 1971:124.—Harotinidis and Tsekos, 1975:211.

DISTRIBUTION.—Tunisia (Raf Raf, La Marsa, Sidi Bou Said, Kerkenna Island, Djerba Island); northeastern Atlantic (Spain, Canary Islands); Mediterranean (Spain, France, Italy, Adriatic Sea, Greece, Turkey, Libya).

SPECIMENS STUDIED.—EGM 6: 71, 73–75; 12: 72; 21: 65, 68–69(US), 70(NHA); 24: 76 (INSTOP).

REMARKS.—Occasional; found in March, July, September, and October on rocks in the sublittoral zone.

Cystoseira mediterranea Sauvageau

Cystoseira mediterranea Sauvageau, 1912:209.—Funk, 1927:370.—Feldmann, 1937:269.—Navarro and Uriarte, 1945:228.—Gayral, 1958:264.—Ben Alaya, 1970:208.—Gerloff and Geissler, 1971:756.—Furnari and Scammacca, 1973:9.

DISTRIBUTION.—Tunisia (Cap Zebib, Bechauteur, La Marsa); northeastern Atlantic (Morocco); Mediterranean (Spain, France, Italy, Greece, Sicily).

SPECIMENS STUDIED.—EGM 3: 108; 5: 107(US); 12: 109(NHA), 100(INSTOP).

REMARKS.—Occasional; found in February, July, and August on rocks in the sublittoral zone.

**Cystoseira myriophylloides* Sauvageau

Cystoseira myriophylloides Sauvageau, 1912:323.—Gayral, 1958:258.—Seoane-Camba, 1965:91.—Giaccone et al., 1973:112.—Harotinidis and Tsekos, 1975:211.

DISTRIBUTION.—Tunisia (Raouad, La Marsa); northeastern Atlantic (Spain, Morocco); Mediterranean (Sicily, Greece).

SPECIMENS STUDIED.—EGM 10: 111(US); 12: 112(NHA), 1731(INSTOP).

REMARKS.—Occasional; found from February to March on rocks in the sublittoral zone.

**Cystoseira sauvageauiana* Hamel

Cystoseira sauvageauiana Hamel, 1939:399.
Cystoseira crinita (Desfontaines) Bory, 1832:320.—Gerloff and Geissler, 1971:757.—Giaccone et al., 1973:112.

DISTRIBUTION.—Tunisia (Bizerte, Raf Raf, Djerba Island); Mediterranean (Sicily, Greece).

SPECIMENS STUDIED.—EGM 4: 119, 120; 6: 121a–121b, 122, 123; 26: 113–116(US), 117 (NHA), 118(INSTOP).

REMARKS.—Common; found in May, September, and October on rocks in the sublittoral zone.

Cystoseira schiffneri Hamel

Cystoseira schiffneri Hamel, 1939:421.—Feldmann, 1951:107.
Cystoseira acanthophora Schiffner, 1926:305.

DISTRIBUTION.—Tunisia (Kerkenna Island, Djerba Island, El Bibane).

SPECIMENS STUDIED.—EGM 19: 124; 20: 128–132; 21: 153–156; 23: 127, 135, 138, 144; 125, 137, 146–150; 26: 141, 142, 151–152; 29: 126, 133–134 (US), 143(NHA), 145(INSTOP).

REMARKS.—Abundant; found from March to July and in October on rocks in the sublittoral zone.

Cystoseira sedoides (Desfontaines) C. Agardh

Fucus sedoides Desfontaines, 1799:423.
Cystoseira sedoides (Desfontaines) C. Agardh, 1820:53.—Feldmann, 1931a:7; 1931b:219.—Hamel, 1939:394.—Giaccone et al., 1973:115.

DISTRIBUTION.—Tunisia (Cap Serrat, Cap Zebib, Bechateur, Bizerte, Monastir); Mediterranean (Sicily, Algeria).

SPECIMENS STUDIED.—EGM 1: 158; 2: 165, 166, 168–170, 1257; 3: 167, 171–175; 5: 160–163(US); 18: 157(NHA), 164(INSTOP).

REMARKS.—Common; found in February, April, May, and June on rocks in the sublittoral zone.

Family SARGASSACEAE

Sargassum linifolium (Turner) C. Agardh

Fucus linifolius Turner, 1811:84.

Sargassum linifolium (Turner) C. Agardh, 1820:18.—Bornet, 1892:258.—Fremy, 1925:28.—Funk, 1927:367.—Feldmann, 1931b:218; 1937:269.—Nasr, 1940b:15.—Navarro and Uriarte, 1945:232.—Aleem, 1951:251.—Riedl, 1963:59.—Güven and Östig, 1971:124.

DISTRIBUTION.—Tunisia (Djerba Island); northeastern Atlantic (Morocco); Mediterranean (Spain, France, Italy, Adriatic Sea, Turkey, Algeria, Egypt); Red Sea.

SPECIMEN STUDIED.—EGM 24: 493(US).

REMARKS.—Rare; found in May as drift material.

Sargassum vulgare C. Agardh

Sargassum vulgare C. Agardh, 1820:3.—Bornet, 1892:258.—Boergesen, 1926:106.—Feldmann, 1937:269; 1961:506.—Navarro and Uriarte, 1945:232.—Aleem, 1951:251.—Gayral, 1958:272.—Riedl, 1963:58.—Edelstein, 1964:190.—Seoane-Camba, 1965:92.—Ben Alaya, 1970:209.—Gerloff and Geissler, 1971:758.—Güven and Östig, 1971:124.—Giaccone et al., 1973:111.—Boudouresque and Perret, 1977:128.

DISTRIBUTION.—Tunisia (Djerba Island); northeastern Atlantic (Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Sicily, Adriatic Sea, Greece, Turkey, Israel, Egypt); Indian Ocean.

SPECIMEN STUDIED.—EGM 24: 494(US).

REMARKS.—Rare; found in May as drift material.

Division CHLOROPHYTA

Class CHLOROPHYCEAE

Order ULVALES

Family MONOSTROMATACEAE

**Blidingia marginata* (J. Agardh) Dangeard

Enteromorpha marginata J. Agardh, 1842:16.

Blidingia marginata (J. Agardh) Dangeard, 1958:347.—Seoane-Camba, 1965:57.—Ardre, 1970:343.—Gerloff and Geissler, 1971:728.

DISTRIBUTION.—Tunisia (Cap Serrat); north-eastern Atlantic (Portugal, Spain); Mediterranean (Greece).

SPECIMENS STUDIED.—EGM 2: 597–600(US), 601–602(NHA), 603(INSTOP).

REMARKS.—Rare; found in April on rocks in the high littoral zone.

Family ULVACEAE

**Enteromorpha clathrata* (Roth) Greville

Conferva clathrata Roth, 1806:175.

Enteromorpha clathrata (Roth) Greville, 1830:181.—Boergesen, 1925:10.—Ardre, 1970:345.—Gerloff and Geissler, 1971:728.—Harotinidis and Tsekos, 1975:210.

Enteromorpha clathrata (Roth) J. Agardh, 1883:153.—Funk, 1927:312.—Hamel, 1931a:67.—Feldmann, 1937:263.—Aleem, 1951:251.—Rayss, 1955:10.—Seoane-Camba, 1965:54.—Güven and Östig, 1971:121.—Boudouresque and Perret, 1977:130.

DISTRIBUTION.—Tunisia (Tabarka, La Marsa, Sidi Bou Said, El Bibane); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (France, Corsica, Italy, Greece, Turkey, Israel, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 12: 917; 13: 931, 932; 15: 916, 1905; 18: 915, 930; 19: 921–927; 24: 928–929(US); 29: 919(NHA), 2291(INSTOP).

REMARKS.—Common; found from February to May and in September and December on rocks and epiphytic on various algae and *Cymodocea nodosa*.

***Enteromorpha compressa* (Linnaeus) Greville**

Ulva compressa Linnaeus, 1755:433.

Enteromorpha compressa (Linnaeus) Greville, 1830:180.—Bornet, 1892:199.—Patouillard, 1897:18.—Muschler, 1910:295.—Boergesen, 1925:12.—Fremy, 1925:28.—Funk, 1927:312.—Feldmann, 1931b:202; 1937:263.—Nasr, 1940b:4.—Navarro and Uriarte, 1945:201.—Rayss, 1955:8.—Gayral, 1958:154.—Seoane-Camba, 1965:54.—Ben Alaya, 1970:207.—Gerloff and Geissler, 1971:728.—Güven and Östig, 1971:121.—Harotinidis and Tsekos, 1975:210.—Boudouresque and Perret, 1977:130.

DISTRIBUTION.—Tunisia (Raouad); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Greece, Turkey, Israel, Algeria, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 1225–1227; 2: 1134; 10: 933–935, 1515–1517, 1525; 12: 1734, 1735, 1742, 15: 938, 942, 1906; 16: 1935, 1936; 17: 1965–1967; 18: 2013–2015, 2019–2021(US); 29: 2289(NHA), 2290(INSTOP).

REMARKS.—Abundant; found in March, August, and September on rocks and epiphytic on various algae and *Cymodocea nodosa*.

***Enteromorpha flexuosa* (Roth)
J. Agardh**

Conferva flexuosa Roth, 1800:188.

Enteromorpha flexuosa (Roth) J. Agardh, 1883:126.—Bornet, 1892:197.—Feldmann, 1931b:202; 1937:263.—Rayss, 1955:9.—Ardre, 1970:345.—Gerloff and Geissler, 1971:728.

DISTRIBUTION.—Tunisia (Raouad, Sidi Bou Said, Hammamet, Nabeul, Djerba Island); northeastern Atlantic (Morocco); Mediterranean (France, Greece, Israel, Algeria); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 13: 943; 16: 936, 937, 939, 944(US), 1942(NHA); 24: 945(INSTOP).

REMARKS.—Common; found in March, July, and September epiphytic on various algae and *Cymodocea nodosa*.

***Enteromorpha intestinalis* (Linnaeus) Link**

Ulva intestinalis Linnaeus, 1753:1163.

Enteromorpha intestinalis (Linnaeus) Link, 1820:5.—Bornet, 1892:198.—Patouillard, 1897:17.—Muschler, 1910:294.—Petersen, 1918:5.—Boergesen, 1925:13.—Fremy, 1925:28.—Feldmann, 1937:263.—Navarro and Uriarte, 1945:201.—Rayss, 1955:9.—Gayral, 1958:156.—Riedl, 1963:38.—Seoane-Camba, 1965:56.—Ardre, 1970:347.—Ben Alaya, 1970:207.—Gerloff and Geissler, 1971:728.—Güven and Östig, 1971:121.—Furnari and Scammacca, 1973:6.—Harotinidis and Tsekos, 1975:210.—Boudouresque and Perret, 1977:131.

DISTRIBUTION.—Tunisia (Bechateur, Djerba Island); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Adriatic Sea, Greece, Turkey, Israel, Libya); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 1222–1224; 2: 1136; 3: 1337–1339; 4: 1351; 5: 1335; 6: 1382; 7: 1389; 10: 1523–1524; 12: 1743; 13: 1820; 16: 1930–1933(US), 1934(NHA); 24: 194(INSTOP).

REMARKS.—Abundant; found in March and May and from July to September on rocks and occasionally epiphytic on various algae and *Cymodocea nodosa*.

***Enteromorpha linza* (Linnaeus) J. Agardh**

Ulva linza Linnaeus, 1753:1133.

Enteromorpha linza (Linnaeus) J. Agardh, 1883:134.—Muschler, 1910:294.—Schiffner, 1926:310.—Funk, 1927:312.—Feldmann, 1937:263; 1961:504.—Nasr, 1940b:3.—Navarro and Uriarte, 1945:201.—Rayss, 1955:10.—Gayral, 1958:159.—Feldmann, 1931b:202; 1961:504.—Seoane-Camba, 1965:57.—Furnari and Scammacca, 1970:217.—Gerloff and Geissler, 1971:729.—Güven and Östig, 1971:121.—Harotinidis and Tsekos, 1975:210.—Boudouresque and Perret, 1977:131.

DISTRIBUTION.—Tunisia (Gammarth, La Marsa); northeastern Atlantic (Portugal, Spain, Morocco); Mediterranean (Spain, France, Corsica, Italy, Greece, Turkey, Israel, Algeria, Libya, Egypt).

SPECIMENS STUDIED.—EGM 1: 1228; 2: 1252–1254; 11: 950–954; 12: 1736–1741; 13: 1818, 1819; 15: 1897–1904; 18: 2022–2024(US), 2025(NHA), 2026(INSTOP).

REMARKS.—Common; found in May, June, and September on rocks and occasionally epiphytic on various algae and *Cymodocea nodosa*.

****Enteromorpha prolifera* (Mueller) J. Agardh**

Ulva prolifera Mueller, 1778, pl. 763.

Enteromorpha prolifera (Mueller) J. Agardh, 1883:129.—Schiffner, 1926:310.—Rayss, 1955:9.—Seoane-Camba, 1965:58.—Ardre, 1970:344.—Gerloff and Geissler, 1971:729.—Güven and Östig, 1971:121.

DISTRIBUTION.—Tunisia (Tabarka); northeastern Atlantic (Portugal, Spain); Mediterranean (Greece, Turkey, Israel); Indian Ocean.

SPECIMEN STUDIED.—EGM 1: 920(US).

REMARKS.—Rare; found in April on rocks.

****Enteromorpha ramulosa* (J. E. Smith) Carmichael in Hooker**

Ulva ramulosa J. E. Smith, 1810, pl. 2137.

Enteromorpha ramulosa (J. E. Smith) Carmichael in Hooker, 1833:315.—Bornet, 1892:200.—Boergesen, 1925:11.—Feldmann, 1937:263.—Seoane-Camba, 1965:58.—Gerloff and Geissler, 1971:729.—Güven and Östig, 1971:121.—Boudouresque and Perret, 1977:131.

DISTRIBUTION.—Tunisia (Monastir); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (France, Corsica, Greece, Turkey); Indian Ocean.

SPECIMEN STUDIED.—EGM 18: 955(US).

REMARKS.—Rare; found in April on rocks.

***Ulva lactuca* Linnaeus**

Ulva lactuca Linnaeus, 1753:1163.—Boergesen, 1925:14.—Fremy, 1925:28.—Funk, 1927:311.—Feldmann, 1937:263; 1961:504.—Navarro and Uriarte, 1945:199.—Nasr and Aleem, 1949:276.—Aleem, 1951:251.—Rayss, 1955:11.—Gayral, 1958:145.—Riedl, 1963:38.—Seoane-Camba, 1965:53.—Ardre, 1970:333.—Gerloff and Geissler, 1971:730.—Harotinidis and Tsekos, 1975:210.

DISTRIBUTION.—Tunisia (Cap Zebib, Tabarka, Bechateur, Raf Raf, Ras Sidi Ali El Mekki, La Marsa, Sidi Bou Said, Nabeul, Hammamet, Monastir, Sousse); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediter-

anean (Spain, France, Italy, Adriatic Sea, Greece, Turkey, Israel, Libya, Egypt); Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 1124, 1125; 3: 1135; 6: 1141; 7: 1143; 12: 1147; 13: 1131; 15: 1137; 16: 1136; 17: 1123(US), 1130(NHA); 18: 1126(INSTOP).

REMARKS.—Abundant; found year round on rocks and epiphytic on *Cymodocea nodosa*.

****Ulva rigida* C. Agardh**

Ulva rigida C. Agardh, 1822:410.—Bornet, 1892:193.—Feldmann, 1937:263.—Aleem, 1951:251.—Rayss, 1955:11.—Funk, 1955:9.—Gayral, 1958:148.—Ardre, 1970:335.—Furnari and Scammacca, 1970:217.—Gerloff and Geissler, 1971:730.—Giaccone et al., 1973:110.—Harotinidis and Tsekos, 1975:210.—Boudouresque and Perret, 1977:132.

DISTRIBUTION.—Tunisia (Gammarth, La Marsa, Hammamet); northeastern Atlantic (Portugal, Morocco); Mediterranean (France, Corsica, Italy, Sicily, Greece, Israel, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 5: 1134; 11: 1162–1166; 12: 1145, 1158–1160; 16: 1161(US), 1167(NHA), 1168(INSTOP).

REMARKS.—Common; found from March to May and in September epiphytic on *Cymodocea nodosa*.

Order CLADOPHORALES

Family CLADOPHORACEAE

***Chaetomorpha aerea* (Dillwyn) Kuetzing**

Conferva aerea Dillwyn, 1807:80.

Chaetomorpha aerea (Dillwyn) Kuetzing, 1849:379.—Boergesen, 1925:43.—Pottier, 1929:344.—Hamel, 1931c:28.—Feldmann, 1931b:203; 1937:264; 1961:504.—Navarro and Uriarte, 1945:206.—Nasr and Aleem, 1949:277.—Funk, 1955:9.—Rayss, 1955:15.—Riedl, 1963:39.—Seoane-Camba, 1965:59.—Ardre, 1970:206.—Ben Alaya, 1970:207.—Güven and Östig, 1971:122.—Boudouresque and Perret, 1977:135.

DISTRIBUTION.—Tunisia (Tabarka, La Marsa, El Bibane); northeastern Atlantic (Portugal,

Spain, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Adriatic Sea, Turkey, Israel, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 715; 4: 714(US); 29: 716(NHA), 2259(INSTOP).

REMARKS.—Occasional; found in April and May on rocks.

***Cladophora albida (Hudson) Kuetzing**

Conferva albida Hudson, 1762:505.

Cladophora albida (Hudson) Kuetzing, 1843:267.—Feldmann, 1937:264.—Navarro and Uriarte, 1945:204.—Funk, 1955: 13.—Ardre, 1970:356.—Gerloff and Geissler, 1971:731.—Harotinidis and Tsekos, 1975:209.—Boudouresque and Perret, 1977:137.

DISTRIBUTION.—Tunisia (Gammarth); north-eastern Atlantic (Portugal); Mediterranean (Spain, France, Corsica, Italy, Greece, Libya); Red Sea.

SPECIMENS STUDIED.—EGM 11: 717–719(US), 720(NHA), 721(INSTOP).

REMARKS.—Rare; found in May epiphytic on *Cymodocea nodosa*.

***Cladophora crystallina (Roth) Kuetzing**

Conferva crystallina Roth, 1797:196.

Cladophora crystallina (Roth) Kuetzing, 1843:213.—Boergesen, 1925:67.—Feldmann, 1937:264.—Navarro and Uriarte, 1945:204.—Rayss, 1955:19.—Güven and Östig, 1971: 121.—Boudouresque and Perret, 1977:137.

DISTRIBUTION.—Tunisia (Cap Serrat, Becha-teur, La Marsa, Sidi Bou Said, Djerba Island, El Bibane); northeastern Atlantic (Canary Islands); Mediterranean (Spain, France, Corsica, Turkey, Israel); Red Sea.

SPECIMENS STUDIED.—EGM 3: 725, 728, 729, 732–733; 12: 723, 724, 727, 731, 735, 736; 24: 730, 734, 739; 29: 726(US), 737–738(NHA), 810(INSTOP).

REMARKS.—Abundant; found from March to June and in August and October entangled with other algae or epiphytic on *Cymodocea nodosa*.

Cladophora dalmatica Kuetzing

Cladophora dalmatica Kuetzing, 1843:268.—Hamel, 1931c: 49.—Feldmann, 1937:264.—Gerloff and Geissler, 1971:

731.—Harotinidis and Tsekos, 1975:209.—Boudouresque and Perret, 1977:138.

DISTRIBUTION.—Tunisia (Tabarka); Mediterranean (France, Corsica, Greece, Algeria); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 740(US), 741(NHA), 742(INSTOP).

REMARKS.—Rare; found in April epiphytic on various algae.

***Cladophora lutescens Kuetzing**

Cladophora lutescens Kuetzing, 1854:21.—Bornet, 1892:208.

DISTRIBUTION.—Tunisia (Sidi Bou Said); Mediterranean (France).

SPECIMEN STUDIED.—EGM 13: 743(US).

REMARKS.—Rare; found in June epiphytic on *Cymodocea nodosa*.

Cladophora prolifera (Roth) Kuetzing

Conferva prolifera Roth, 1797:182.

Cladophora prolifera (Roth) Kuetzing, 1845:207.—Bornet, 1892:207.—Boergesen, 1925:61.—Freymy, 1925:28.—Funk, 1927:316.—Feldmann, 1931b:203; 1937:264; 1961: 504.—Navarro and Uriarte, 1945:202.—Rayss, 1955: 17.—Dao, 1957:166.—Gayral, 1958:168.—Riedl, 1963: 39.—Seoane-Camba, 1965:59.—Ardre, 1970:357.—Ben Alaya, 1970:206.—Gerloff and Geissler, 1971:733.—Güven and Östig, 1971:121.—Giaccone et al., 1973, table iv.—Furnari and Scammacca, 1973:6.—Harotinidis and Tsekos, 1975:209.—Boudouresque and Perret, 1977:141.

DISTRIBUTION.—Tunisia (Cap Serrat, Tabarka, Ras Sidi Ali El Mekki, Raouad, Gammarth, La Marsa, Nabeul, Hammamet, Monastir); north-eastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Israel, Algeria); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 745, 764; 2: 744, 746, 747; 7: 759; 10: 762, 763; 11: 772, 779, 780; 12: 748–752, 757, 758, 765, 770, 771; 13: 766–769, 773–778; 15: 756(US), 761(NHA); 18: 753(INSTOP).

REMARKS.—Abundant; found from March to

May, from July to October, and in December epiphytic on various algae and *Cymodocea nodosa*.

***Cladophora ramosissima (Draparnaud ex Kuetzing) Kuetzing**

Conferva ramosissima Draparnaud ex Kuetzing, 1845:209.
Cladophora ramosissima (Draparnaud ex Kuetzing) Kuetzing, 1849:396.—Feldmann, 1931b:203; 1937:264.—Nasr, 1940b:5.—Rayss, 1955:18.—Gayral, 1958:166.

DISTRIBUTION.—Tunisia (Raouad, Gammarth, Sidi Bou Said); northeastern Atlantic (Morocco); Mediterranean (France, Algeria, Egypt); Red Sea.

SPECIMENS STUDIED.—EGM 10: 781; 11: 783(US); 13: 782(NHA), 784(INSTOP).

REMARKS.—Occasional; found in March, May, and October epiphytic on various algae.

Cladophora rupestris (Linnaeus) Kuetzing

Conferva rupestris Linnaeus, 1753:721.
Cladophora rupestris (Linnaeus) Kuetzing, 1843:270.—Andre, 1970:355.—Ben Alaya, 1970:206.—Gerloff and Geissler, 1971:734.—Giaccone et al., 1973, table iv.—Harotinis and Tsekos, 1975:209.—Boudouresque and Perret, 1977:142.

DISTRIBUTION.—Tunisia (Ras Sidi Ali El Mekki, Gammarth, La Marsa); northeastern Atlantic (Portugal); Mediterranean (Corsica, Sicily, Greece, Algeria).

SPECIMENS STUDIED.—EGM 2: 722, 11: 787(US); 12: 760(NHA), 785(INSTOP).

REMARKS.—Occasional; found in February, May, and September epiphytic on various algae.

Cladophora utriculosa Kuetzing

Cladophora utriculosa Kuetzing, 1843:269.—Bornet, 1892:208.—Boergesen, 1925:65.—Schiffner, 1926:311.—Funk, 1927:316.—Feldmann, 1931b:204; 1937:264.—Nasr, 1940b:4.—Navarro and Uriarte, 1945:203.—Rayss, 1955:18.—Seoane-Camba, 1965:60.—Ben Alaya, 1970:206.—Gerloff and Geissler, 1971:732.—Güven and Östig, 1971:121.

DISTRIBUTION.—Tunisia (Cap Serrat, Tabarka, Sidi Bou Said, Gammarth, La Marsa, Nabeul,

Hammamet, Monastir, Sousse, Kerkenna Island, Djerba Island, El Bibane); northeastern Atlantic (Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Italy, Greece, Turkey, Israel, Algeria, Egypt); Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 793–795; 2: 805; 11: 823, 830–833; 12: 807–809, 814–822, 839, 840; 13: 826–829; 15: 834–838; 16: 811–813, 824, 825; 17: 796; 18: 797–799; 19: 800, 801; 24: 806(US); 29: 802–803(NHA), 804(INSTOP).

REMARKS.—Abundant; found from January to August and from October to December epiphytic on various algae.

Family ANADYOMENACEAE

Anadyomene stellata (Wulfen) C. Agardh

Ulva stellata Wulfen in Jacquin, 1786:351.
Anadyomene stellata (Wulfen) C. Agardh, 1822:400.—Muschler, 1910:295.—DeToni and Forti, 1913:17; 1914:293.—Boergesen, 1925:25.—Funk, 1927:320.—Hamel, 1931c:18.—Nasr, 1940a:2.—Navarro and Uriarte, 1945:202.—Nasr and Aleem, 1949:256.—Rayss, 1955:13.—Dao, 1957:167.—Edelstein, 1962:213; 1964:180.—Riedl, 1963:39.—Gerloff and Geissler, 1971:737.—Güven and Östig, 1971:122.—Giaccone et al., 1973, table iv.—Harotinis and Tsekos, 1975:209.—Boudouresque and Perret, 1977:135.

DISTRIBUTION.—Tunisia (Korbous, Kerkenna Island, Djerba Island, Zarzis, El Bibane); northeastern Atlantic (Canary Islands); Mediterranean (Spain, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Israel, Libya, Egypt); Indian Ocean.

SPECIMENS STUDIED.—EGM 14: 587, 588; 19: 568–574; 20: 590–594; 21: 581–584, 586; 24: 589; 25: 585, 595; 26: 575; 28: 596, 29: 576–577(US), 578–579(NHA), 580(INSTOP).

REMARKS.—Common; found in March, April, July, and October on rocks.

Order SIPHONOCLEDALES

Family VALONIACEAE

***Valonia macrophysa Kuetzing**

Valonia macrophysa Kuetzing, 1843:307.—Boergesen, 1925:22.—Funk, 1927:320.—Feldmann, 1937:264.—Aleem,

1951:251.—Dao, 1957:166.—Furnari and Scammacca, 1970:217.—Gerloff and Geissler, 1971:738.—Giaccone et al., 1973, table iv.—Harotinidis and Tsekos, 1975:210.—Boudouresque and Perret, 1977:144.

DISTRIBUTION.—Tunisia (Raouad, Korbous, El Bibane); northeastern Atlantic (Canary Islands); Mediterranean (France, Corsica, Italy, Sicily, Greece, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 10: 1175, 1176; 14: 1174; 29: 1169–1171(US), 1172(NHA), 1173(INSTOP).

REMARKS.—Occasional; found in March, April, and October in rock crevices in the sublittoral zone.

Valonia utricularis C. Agardh

Valonia utricularis C. Agardh, 1822:431.—Piccone, 1884:112; 1879:22.—Boergesen, 1925:22.—Funk, 1927:321.—Feldmann, 1931b:203; 1937:264; 1961:504.—Hamel, 1931c:14.—Nasr, 1940b:6.—Navarro and Uriarte, 1945:201.—Nasr and Aleem, 1949:278.—Rayss, 1955:12.—Dao, 1957:167.—Gayral, 1958:170.—Riedl, 1963:39.—Edelstein, 1964:180.—Seoane-Camba, 1965:58.—Ardre, 1970:349.—Gerloff and Geissler, 1971:738.—Güven and Östig, 1971:122.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:143.

DISTRIBUTION.—Tunisia (Ile Plane, La Marsa, Nabeul, Sidi Bou Said, Kerkenna Island, El Bibane); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Israel, Algeria, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 18: 1186; 12: 1183, 1185; 13: 1187; 15: 1184; 19: 1181–1182(US); 20: 1177–1178(NHA), 1179–1180(INSTOP).

REMARKS.—Common; found in April, July, September, and December on rocks.

Family SIPHONOCLADACEAE

Cladophoropsis modonensis (Kuetzing) Boergesen

Cladophora modonensis Kuetzing, 1849:486.

Cladophoropsis modonensis (Kuetzing) Boergesen, 1905:288.—

Hamel, 1931c:15.—Rayss, 1955:14.—Dao, 1957:167.—Gerloff and Geissler, 1971:737.—Giaccone et al., 1973, table iii.—Boudouresque and Perret, 1977:142.

DISTRIBUTION.—Tunisia (Kerkenna Island, Djerba Island, Zarzis, El Bibane); northeastern Atlantic (Canary Islands); Mediterranean (Corsica, Sicily, Greece, Israel).

SPECIMENS STUDIED.—EGM 20: 841–843, 853, 854; 24: 846, 849, 851; 28: 844, 845; 29: 847–848(US), 850(NHA), 852(INSTOP).

REMARKS.—Common; found from April to July and in October on rocks in the sublittoral zone.

Order BRYOPSIDALES

Family BRYOPSIDACEAE

**Derbesia lamourouxii* (J. Agardh) Solier

Bryopsis balbisiana var. *lamourouxii* J. Agardh, 1842:18.

Derbesia lamourouxii (J. Agardh) Solier, 1847:162.—Bornet, 1892:212.—Funk, 1927:333.—Feldmann, 1937:265.—Rayss, 1955:41.—Gayral, 1958:172.—Riedl, 1963:41.—Ardre, 1970:359.—Gerloff and Geissler, 1971:742.—Güven and Östig, 1971:122.—Giaccone et al., 1973, table iv.—Furnari and Scammacca, 1973:6.

DISTRIBUTION.—Tunisia (Gammarth); northeastern Atlantic (Portugal, Spain, Morocco); Mediterranean (France, Italy, Sicily, Adriatic Sea, Greece, Turkey, Israel); Red Sea.

SPECIMEN STUDIED.—EGM 11: 913(US).

REMARKS.—Rare; found in April on rocks in the sublittoral zone.

Bryopsis balbisiana Lamouroux

Bryopsis balbisiana Lamouroux, 1813:66.—Piccone, 1879:22; 1884:112.—Bornet, 1892:213.—Boergesen, 1925:98.—Feldmann, 1937:265; 1961:504.—Rayss, 1955:26.—Gayral, 1958:177.—Riedl, 1963:41.—Seoane-Camba, 1965:62.—Güven and Östig, 1971:122.—Furnari and Scammacca, 1973:6.—Boudouresque and Perret, 1977:146.

DISTRIBUTION.—Tunisia (La Marsa, Sidi Bou Said, Hammamet, Sousse); northeastern Atlantic

(Portugal, Spain, Morocco, Canary Islands); Mediterranean (France, Corsica, Adriatic Sea, Turkey, Israel, Algeria, Sicily).

SPECIMENS STUDIED.—EGM 12: 607, 608; 13: 610; 16: 604, 606(US); 17: 605(NHA), 609 (INSTOP).

REMARKS.—Common; found in April, July, and September on rocks in the sublittoral zone.

**Bryopsis hypnoides* Lamouroux

Bryopsis hypnoides Lamouroux, 1809c:135.—Feldmann, 1937: 265.—Ardre, 1970:363.—Gerloff and Geissler, 1971: 740.—Güven and Östig, 1971:122.—Giaccone et al., 1973, table iv.—Harotiniadis and Tsekos, 1975:209.

DISTRIBUTION.—Tunisia (Kerkenna Island); northeastern Atlantic (Portugal, Morocco); Mediterranean (France, Sicily, Greece, Turkey); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 20: 612(US), 2102(NHA).

REMARKS.—Rare; found in April on rocks in the sublittoral zone.

Bryopsis muscosa Lamouroux

Bryopsis muscosa Lamouroux, 1809c:23.—Funk, 1927:328.—Feldmann, 1937:265.—Navarro and Uriarte, 1945:207.—Rayss, 1955:26.—Furnari and Scammacca, 1970:218.—Ben Alaya, 1970:206.—Gerloff and Geissler, 1971:740.—Giaccone et al., 1973, table iii.—Harotiniadis and Tsekos, 1975:209.

DISTRIBUTION.—Tunisia (Sousse); northeastern Atlantic (Morocco); Mediterranean (Spain, France, Corsica, Italy, Sicily, Greece, Israel).

SPECIMENS STUDIED.—EGM 17: 613–614(US), 615(NHA), 616(INSTOP).

REMARKS.—Rare; found in April on rocks in the sublittoral zone.

Bryopsis plumosa (Hudson) C. Agardh

Ulva plumosa Hudson, 1778:571.

Bryopsis plumosa (Hudson) C. Agardh, 1822:488.—Bornet, 1892:213.—Boergesen, 1925:97.—Hamel, 1931b:287.—Feldmann, 1937:265.—Navarro and Uriarte, 1945:207.—Aleem, 1951:251.—Rayss, 1955:26.—Gayral, 1958:180.—

Riedl, 1963:41.—Ardre, 1970:362.—Ben Alaya, 1970: 206.—Furnari and Scammacca, 1970:218.—Gerloff and Geissler, 1971:740.—Güven and Östig, 1971:122.—Harotiniadis and Tsekos, 1975:209.—Boudouresque and Perret, 1977:147.

DISTRIBUTION.—Tunisia (Sidi Bou Said); northeastern Atlantic (Portugal, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Adriatic Sea, Greece, Turkey, Israel, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 12: 1608; 13: 617–621(US); 28: 2235(NHA), 2236(INSTOP).

REMARKS.—Occasional; found in February and September on rocks in the sublittoral zone.

**Pseudobryopsis myura* (J. Agardh) Berthold in Oltmanns

Bryopsis myura J. Agardh, 1842:20.

Pseudobryopsis myura (J. Agardh) Berthold in Oltmanns, 1904: 303.—Boergesen, 1925:103.—Funk, 1927:332.—Hamel, 1931b:396.—Feldmann, 1937:265.—Rayss, 1955:27.

DISTRIBUTION.—Tunisia (Djerba Island, El Bibane); northeastern Atlantic (Canary Islands); Mediterranean (France, Italy, Israel).

SPECIMENS STUDIED.—EGM 24: 1051, 1052; 29: 1053(US), 1054(NHA), 1055 (INSTOP).

REMARKS.—Occasional; found in April and May on rocks in the sublittoral zone.

Family CAULERPACEAE

Caulerpa prolifera (Forsskal) Lamouroux

Fucus prolifer Forsskal, 1775:193.

Caulerpa prolifera (Forsskal) Lamouroux, 1809b:142.—Muschler, 1910:296.—DeToni and Forti, 1913:18; 1914:293.—Boergesen, 1925:112.—Fremy, 1925:28.—Schiffner, 1926: 311.—Funk, 1927:335.—Pottier, 1929:325.—Hamel, 1931b:420.—Nasr, 1940b:9.—Navarro and Uriarte, 1945: 208.—Nasr and Aleem, 1949:271.—Aleem, 1951:251.—Feldmann, 1951:106.—Rayss, 1955:22.—Dao, 1957: 168.—Edelstein, 1964:182.—Seoane-Camba, 1965:66.—Furnari and Scammacca, 1970:218.—Ardre, 1970:374.—Gerloff and Geissler, 1971:739.—Güven and Östig, 1971: 122.—Harotiniadis and Tsekos, 1975:209.—Boudouresque and Perret, 1977:150.

DISTRIBUTION.—Tunisia (Mouth of Madjerda,

Gammarth, La Marsa, Sidi Bou Said, Korbous, Nabeul, Hammamet, Gabes, Kerkenna Island, Zarzis, El Bibane); northeastern Atlantic (Portugal, Spain, Canary Islands); Mediterranean (Spain, Italy, France, Greece, Turkey, Israel, Libya, Egypt); Red Sea.

SPECIMENS STUDIED.—EGM 9: 622, 651; 11: 697–700, 713; 12: 643–647, 712; 13: 623, 642; 14: 675–679; 15: 657–659; 16: 661, 662; 19: 689; 20: 663–667, 686–688, 693, 694, 696, 701; 21: 652–656; 22: 668–674; 23: 706; 24: 648–650, 680–684, 702, 703, 708–710; 25: 660; 26: 690–692, 704–705; 28: 707, 711(US); 29: 695(NHA), 696(INSTOP).

REMARKS.—Abundant; found from March to October on rocks, sometimes epiphytic on rhizomes of *Posidonia oceanica*.

Family CODIACEAE

Codium bursa (Linnaeus) C. Agardh

Alcyonium bursa Linnaeus, 1759:1295.

Codium bursa (Linnaeus) C. Agardh, 1822:457.—Piccone, 1879:23; 1884:114.—Bornet, 1892:215.—DeToni and Forti, 1913:19.—Petersen, 1918:6.—Fremy, 1925:18.—Funk, 1927:324.—Feldmann, 1931b:207; 1937:265.—Hamel, 1931b:413.—Navarro and Uriarte, 1945:210.—Aleem, 1951:251.—Riedl, 1963:43.—Seoane-Camba, 1965:64.—Furnari and Scammacca, 1970:218.—Ben Alaya, 1970:207.—Gerloff and Geissler, 1971:741.—Güven and Östig, 1971:122.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:148.

DISTRIBUTION.—Tunisia (Bizerte, Gabes); northeastern Atlantic (Morocco, Spain); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Algeria, Libya, Egypt).

SPECIMENS STUDIED.—EGM 4: 855–858(US), 859(NHA); 22: 860(INSTOP).

REMARKS.—Occasional; found from May to June as drift material.

**Codium decorticatum* (Woodward) Howe

Ulva decorticata Woodward, 1797:55.

Codium decorticatum (Woodward) Howe, 1911:494.—Andre,

1970:370.—Giaccone et al., 1973, table iv.

DISTRIBUTION.—Tunisia (Hammamet, Sousse); northeastern Atlantic (Portugal); Mediterranean (Sicily).

SPECIMENS STUDIED.—EGM 16: 967–971(US); 17: 861–864(NHA), 965–966 (INSTOP).

REMARKS.—Occasional; found in March and April on rocks in the sublittoral zone.

Family UDOTACEAE

Espera mediterranea Decaisne

Espera mediterranea Decaisne, 1842:99.—Gerloff and Geissler, 1971:739.

Penicillus mediterraneus (Decaisne) Thuret in Bornet, 1892:217.—Hamel, 1931b:403.

DISTRIBUTION.—Tunisia (Korbous, El Bibane); Mediterranean (Greece).

SPECIMENS STUDIED.—EGM 14: 1046–1050; 29 1042–1043(US), 1044(NHA), 1045(INSTOP).

REMARKS.—Occasional; found in April and October on rocks in sandy bottom of the sublittoral zone.

Halimeda tuna (Ellis and Solander)

Lamouroux

Corallina tuna Ellis and Solander, 1786:111.

Halimeda tuna (Ellis and Solander) Lamouroux, 1812:186.—Muschler, 1910:296.—DeToni and Forti, 1913:19; 1914:293.—Funk, 1927:327.—Pottier, 1929:325.—Feldmann, 1937:265.—Nasr, 1940b:8.—Navarro and Uriarte, 1945:209.—Nasr and Aleem, 1949:277.—Aleem, 1951:251.—Rayss, 1955:29.—Dao, 1957:168.—Edelstein, 1962:213; 1964:184.—Riedl, 1963:43.—Gerloff and Geissler, 1971:741.—Giaccone et al., 1973, table iv.—Harotinidis and Tsekos, 1975:210.—Boudouresque and Perret, 1977:150.

DISTRIBUTION.—Tunisia (Cap Serrat, Cap Zebib, Tabarka, Ras Sidi Ali El Mekki, Raouad, Gammarth, La Marsa, Sidi Bou Said, Nabeul, Hammamet, Monastir, Gabes, Kerkenna Island, Djerba Island, El Bibane, Zarzis); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Israel, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 983, 984, 1026; 2: 956–960, 975, 985–988, 1263; 5: 998; 7: 1028; 10: 1027; 11: 1013–1016; 12: 992–997, 1001; 13: 1029–1032; 15: 1007, 1024, 1025; 16: 1006, 1023; 18: 980–982; 20: 1008–1012; 21: 1033–1037; 22: 1017–1022; 24: 965–967, 972, 976–979; 25: 999, 1038–1041; 26: 971, 973; 27: 970, 974; 28: 964, 968, 969, 989, 1002–1005; 29: 961–963(US), 990–991(NHA), 1000(INSTOP).

REMARKS.—Abundant; found in March and October on sandy substrate in the sublittoral zone.

Udotea petiolata (Turra) Boergesen

Ulva petiolata Turra, 1780:68.

Udotea petiolata (Turra) Boergesen, 1925:86.—DeToni and Forti, 1914:293.—Funk, 1955:25.—Hamel, 1931b:404.—Feldmann, 1937:265; 1961:504.—Nasr, 1940a:3.—Navarro and Uriarte, 1945:208.—Aleem, 1951:251.—Rayss, 1955:28.—Dao, 1957:168.—Edelstein, 1964:183.—Riedl, 1963:41.—Ben Alaya, 1970:207.—Furnari and Scammacca, 1970:217.—Gerloff and Geissler, 1971:739.—Güven and Östig, 1971:122.—Giaccone et al., 1973:110.—Harotinidis and Tsekos, 1975:210.—Boudouresque and Perret, 1977:153.

DISTRIBUTION.—Tunisia (Cap Serrat, Cap Zebib, Tabarka, Bechateur, Raf Raf, Ras Sidi Ali El Mekki, Ile Plane, Mouth of Madjerda, Raouad, La Marsa, Sidi Bou Said, Korbous, Nabeul, Hammamet, Monastir, Gabes, Kerkenna Island, Djerba Island); northeastern Atlantic (Spain, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Israel, Libya, Egypt).

SPECIMENS STUDIED.—EGM 1: 1063–1066, 1082; 2: 1059, 1067–1074; 3: 1088; 5: 1076, 1078; 6: 1079, 112; 7: 1116; 8: 1099–1107; 9: 1108–1110; 10: 1113–1115; 11: 1091; 12: 1075, 1077, 1080, 1081; 13: 1083, 1084, 1120–1122; 14: 1094–1098; 15: 1089, 1111; 16: 1092, 1093; 18: 1056–1058; 21: 1085–1087, 1123; 22: 1090; 24: 1060, 1061(US); 25: 1117–1119(NHA); 27: 1062(INSTOP).

REMARKS.—Abundant; found from February to May and in July, September, October, and December on rocks in the sublittoral zone.

Order DASYCLADALES

Family DASYCLADACEAE

Acetabularia acetabulum (Linnaeus) Silva

Madrepora acetabulum Linnaeus, 1758:793.

Acetabularia acetabulum (Linnaeus) Silva, 1952:255.—Gerloff and Geissler, 1971:742.—Boudouresque and Perret, 1977:133.

Acetabularia mediterranea Lamouroux, 1816:249.—Boergesen, 1925:77.—Fremy, 1925:28.—Schiffner, 1926:311.—Funk, 1927:322.—Feldmann, 1931b:205; 1937:264.—Hamel, 1931c:38.—Navarro and Uriarte, 1945:206.—Rayss, 1955:21.—Dao, 1957:168.—Riedl, 1963:41.—Furnari and Scammacca, 1970:218.—Ben Alaya, 1970:208.—Güven and Östig, 1971:122.—Giaccone et al., 1973, table iv.—Harotinidis and Tsekos, 1975:209.

DISTRIBUTION.—Tunisia (Tabarka, Bechateur, Kerkenna Island, Djerba Island, El Bibane); northeastern Atlantic (Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Israel, Algeria); Red Sea.

SPECIMENS STUDIED.—EGM 3: 563; 19: 552–554, 557, 558; 20: 555, 556, 559–560, 565; 21: 564; 23: 562; 24: 566(US); 29: 561(NHA), 567(INSTOP).

REMARKS.—Abundant; found in March, April, June, and July on rocks, occasionally epiphytic on various algae and *Cymodocea nodosa*.

Dasycladus clavaeformis (Roth) C. Agardh

Conferva clavaeformis Roth, 1806:315.

Dasycladus clavaeformis (Roth) C. Agardh, 1828:16.—DeToni, 1895:455.—Boergesen, 1925:75.—Schiffner, 1926:311.—Funk, 1927:322.—Hamel, 1931c:36.—Navarro and Uriarte, 1945:206.—Rayss, 1955:20.—Riedl, 1963:39.—Edelstein, 1964:181.—Ben Alaya, 1970:207.—Güven and Östig, 1971:122.

Dasycladus vermicularis (Scopoli) Krasser in Beck and Zahlbruckner, 1898:459.—Aleem, 1951:251.—Dao, 1957:168.—Gerloff and Geissler, 1971:741.—Giaccone et al., 1973:112.—Harotinidis and Tsekos, 1975:210.—Boudouresque and Perret, 1977:134.

DISTRIBUTION.—Tunisia (Cap Serrat, Tabarka, Raf Raf, Ras Sidi Ali El Mekki, Gammarth, Sidi Bou Said, Nabeul, Kerkenna Island, Djerba Is-

land, Zarzis, El Bibane); northeastern Atlantic (Canary Islands); Mediterranean (Spain, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Libya, Egypt).

SPECIMENS STUDIED.—EGM 1: 876, 878; 2: 872–874, 880, 887, 6: 906, 907; 7: 908; 11: 910, 911; 13: 891, 912; 14: 900–904; 15: 905, 909; 18: 879; 19: 875; 23: 889; 24: 881, 886, 890; 25: 895–899; 26: 888; 28: 885(US), 892–894(NHA); 29: 882–884(INSTOP).

REMARKS.—Abundant; found from March to July and from September to October on rocks in the sublittoral zone.

Division RHODOPHYTA

Class RHODOPHYCEAE

Order BANGIALES

Family ERYTHROPELTIDACEAE

Erythrotrichia carnea (Dillwyn) J. Agardh

Conferva carnea Dillwyn, 1807, pl. 84.

Erythrotrichia carnea (Dillwyn) J. Agardh, 1883:15.—Boergesen, 1927:5.—Feldmann, 1937:269.—Nasr, 1940b:17.—Aleem, 1951:251.—Papenfuss, 1968:68.—Ardre, 1970:46.—Gerloff and Geissler, 1971:759.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:12.

DISTRIBUTION.—Tunisia (Tabarka, La Marsa, Sousse); northeastern Atlantic (Portugal, Canary Islands); Mediterranean (France, Sicily, Greece, Italy, Egypt, Corsica); Red Sea.

SPECIMENS STUDIED.—EGM 12: 1628–1629 (US).

REMARKS.—Occasional; found in April epiphytic on *Cymodocea nodosa*.

Family BANGIACEAE

Bangia fuscopurpurea (Dillwyn) Lyngbye

Conferva fuscopurpurea Dillwyn, 1807:54.

Bangia fuscopurpurea (Dillwyn) Lyngbye, 1819:83.—Funk, 1927:373.—Feldmann, 1937:269.—Gayral, 1958:280.—

Riedl, 1963:64.—Ardre, 1970:49.—Harotinidis and Tsekos, 1975:214.—Boudouresque and Perret, 1977:11.

DISTRIBUTION.—Tunisia (Bizerte, Raouad, Hammamet); northeastern Atlantic (Portugal); Mediterranean (France, Italy, Adriatic Sea, Greece, Algeria); Indian Ocean.

SPECIMENS STUDIED.—EGM 4: 1349; 10: 1518–1522, 1526(US); 16: 1937–1939(NHA), 1940–1941(INSTOP).

REMARKS.—Common; found in March and May as tufted mats on rocks in the upper littoral zone.

Porphyra leucosticta Thuret in Le Jolis

Porphyra leucosticta Thuret in Le Jolis, 1863:100.—Bornet, 1892:262.—Boergesen, 1927:5.—Funk, 1927:374.—Feldmann, 1937:269.—Nasr, 1940a:5.—Navarro and Uriarte, 1945:232.—Riedl, 1963:64.—Ardre, 1970:53.—Gerloff and Geissler, 1971:760.—Güven and Östig, 1971:125.—Boudouresque and Perret, 1977:12.

DISTRIBUTION.—Tunisia (Hammamet); northeastern Atlantic (Portugal, Canary Islands); Mediterranean (Spain, France, Corsica, Adriatic Sea, Turkey, Algeria, Egypt).

SPECIMENS STUDIED.—EGM 16: 1915–1918 (US), 1919(NHA), 1920(INSTOP).

REMARKS.—Occasional; found from March to April on spray-covered rocks in the littoral fringe.

Order GONIOTRICHALES

Family GONIOTRICHACEAE

Goniotrichum alsidii (Zanardini) Howe

Bangia alsidii Zanardini, 1839:136.

Goniotrichum alsidii (Zanardini) Howe, 1914:75.—Feldmann, 1937:269; 1961:506.—Aleem, 1951:251.—Edelstein, 1964:190.—Gerloff and Geissler, 1971:759.

Goniotrichum elegans (Chauvin) Le Jolis, 1863:103.—Boergesen, 1927:10.—Ardre, 1970:44.

DISTRIBUTION.—Tunisia (Sousse); northeastern Atlantic (Portugal, Canary Islands); Mediterranean (France, Corsica, Italy, Greece, Israel, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMEN STUDIED.—EGM 17: 1541a(US).

REMARKS.—Occasional; found in April epiphytic on various algae.

Order ACROCHAETIALES

Family ACROCHAETIACEAE

Acrochaetium virgatulum (Harvey in Hooker) J. Agardh

Callithamnion virgatulum Harvey in Hooker, 1833:349.

Acrochaetium virgatulum (Harvey in Hooker) J. Agardh, 1892:48.—Hamel, 1927:45.—Feldmann, 1937:270.—Aleem, 1951:251.—Ardre, 1970:56.—Gerloff and Geissler, 1971:760.—Boudouresque and Perrett, 1977:15.

DISTRIBUTION.—Tunisia (La Marsa); north-eastern Atlantic (Portugal, Canary Islands); Mediterranean (Corsica, France, Greece, Egypt).

SPECIMEN STUDIED.—EGM 12: 1752(US).

REMARKS.—Rare; found in April epiphytic on *Cymodocea nodosa*.

**Acrochaetium codiculum* Boergesen

Acrochaetium codiculum Boergesen, 1927:33.

DISTRIBUTION.—Tunisia (Sousse); northeastern Atlantic (Canary Islands).

SPECIMEN STUDIED.—EGM 17: 1541b(US).

REMARKS.—Occasional; found in April epiphytic on *Cymodocea nodosa*.

Acrochaetium savianum (Meneghini) Naegeli

Callithamnion savianum Meneghini, 1840:[3].

Acrochaetium savianum (Meneghini) Naegeli, 1861:171.—Feldmann, 1937:270.—Ardre, 1970:55.

DISTRIBUTION.—Tunisia (La Marsa); north-eastern Atlantic (Portugal); Mediterranean (France, Libya).

SPECIMEN STUDIED.—EGM 12: 2133(US).

REMARKS.—Occasional; found April epiphytic on *Cymodocea nodosa*.

Order NEMALIALES

Family HELMINTHOCLADIACEAE

Liagora distenta (Mertens in Roth) C. Agardh

Fucus distentus Mertens in Roth, 1806:103.

Liagora distenta (Mertens in Roth) C. Agardh, 1822:394.—Fremy, 1925:28.—Boergesen, 1927:62.—Feldmann, 1931b:227; 1937:270.—Navarro and Uriarte, 1945:234.—Seoane-Camba, 1965:94.—Gerloff and Geissler, 1971:761.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:16.

DISTRIBUTION.—Tunisia (Bechateur); north-eastern Atlantic (Spain, Canary Islands); Mediterranean (Spain, France, Corsica, Sicily, Greece, Algeria).

SPECIMENS STUDIED.—EGM 3: 1316–1321; 18: 1971(US), 1972(NHA), 2012(INSTOP).

REMARKS.—Occasional; found in April, June, and July on rocks in the sublittoral zone.

Liagora viscida (Forsskal) C. Agardh

Fucus viscidus Forsskal, 1775:193.

Liagora viscida (Forsskal) C. Agardh, 1822:395.—Muschler, 1910:303.—Funk, 1927:378.—Feldmann, 1931b:226; 1937:270; 1961:506.—Navarro and Uriarte, 1945:233.—Riedl, 1963:65.—Ardre, 1970:62.—Ben Alaya, 1970:212.—Gerloff and Geissler, 1971:761.—Güven and Östig, 1971:127.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:16.

DISTRIBUTION.—Tunisia (Tabarka, Bechateur); northeastern Atlantic (Portugal); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Algeria, Libya).

SPECIMENS STUDIED.—EGM 1: 1211; 3: 1310–1313(US), 1314(NHA), 1315(INSTOP).

REMARKS.—Occasional; found in June and July on rocks in the sublittoral zone.

Order CHAETANGIALES

Family CHAETANGIACEAE

**Sciniaia forcillata* (Turner) Bivona

Ulva forcillata Turner, 1801:300.

Sciniaia forcillata (Turner) Bivona, 1822:[3].—Bornet, 1892:

265.—Boergesen, 1927:63.—Funk, 1927:378.—Feldmann, 1937:270.—Navarro and Uriarte, 1945:234.—Aleem, 1951:251.—Gayral, 1958:296.—Seoane-Camba, 1965:94.—Ardre, 1970:63.—Furnari and Scammacca, 1970:220.—Güven and Östig, 1971:128.—Harotinidis and Tsekos, 1975:219.—Boudouresque and Perret, 1977:17.

DISTRIBUTION.—Tunisia (Sousse); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, Sicily, France, Corsica, Italy, Greece, Turkey, Egypt); Indian Ocean.

SPECIMENS STUDIED.—EGM 17: 1943–1946 (US), 1947(NHA), 1948(INSTOP).

REMARKS.—Rare; found in April on rocks in the sublittoral zone.

Order BONNEMAISONIALES

Family BONNEMAISONIACEAE

Asparagopsis armata Harvey

Asparagopsis armata Harvey, 1855:544.—Hamel, 1926:420.—Feldmann, 1931b:227; 1937:270.—Funk, 1955:68.—Gayral, 1958:284.—Seoane-Camba, 1965:96.—Papenfuss, 1968:73.—Ardre, 1970:142.—Güven and Östig, 1971:127.—Giaccone et al., 1973, table iv.

DISTRIBUTION.—Tunisia (Cap Serrat); northeastern Atlantic (Portugal, Spain, Morocco); Mediterranean (France, Italy, Sicily, Turkey, Algeria); Red Sea; Indian Ocean.

SPECIMEN STUDIED.—EGM 2: 1545(US).

REMARKS.—Rare; found in April on rocks in the sublittoral zone.

**Bonnemaisonia asparagoides* (Woodward) C. Agardh

Fucus asparagoides Woodward, 1794:239.

Bonnemaisonia asparagoides (Woodward) C. Agardh, 1822:197.—Funk, 1927:411.—Feldmann, 1931b:227; 1937:270.—Navarro and Uriarte, 1945:234.—Seoane-Camba, 1965:96.—Ardre, 1970:142.

DISTRIBUTION.—Tunisia (Tabarka, Monastir); northeastern Atlantic (Portugal, Spain); Mediterranean (Spain, France, Italy).

SPECIMENS STUDIED.—EGM 18: 2016(US), 2017(NHA), 2018(INSTOP).

REMARKS.—Rare; found in April on rocks in the sublittoral zone.

*“*Falkenbergia rufolanosa*” (Harvey) Schmitz in Engler and Prantl

(tetrasporophyte stage of *Asparagopsis armata*)

Polysiphonia rufolanosa Harvey, 1855:540.

Falkenbergia rufolanosa (Harvey) Schmitz in Engler and Prantl, 1897:479.—Gayral, 1958:288.—Seoane-Camba, 1965:97.—Ardre, 1970:142.—Furnari and Scammacca, 1970:224.—Güven and Östig, 1971:127.—Boudouresque and Perret, 1977:94.

DISTRIBUTION.—Tunisia (Sidi Bou Said); northeastern Atlantic (Portugal, Spain, Morocco); Mediterranean (Corsica, Turkey, Sicily).

SPECIMEN STUDIED.—EGM 13: 1757(US).

REMARKS.—Rare; found in October on rocks in the sublittoral zone.

“*Trailliella intricata*” Batters

(tetrasporophyte stage of *Bonnemaisonia hamifera*)

Trailliella intricata Batters, 1896:10.—Petersen, 1918:13.—Boergesen, 1930:9.—Feldmann, 1931a:17.

DISTRIBUTION.—Tunisia (Cap Serrat); northeastern Atlantic (Canary Islands).

SPECIMEN STUDIED.—EGM 2: 1546(US).

REMARKS.—Rare; found in April epiphytic on *Cystoseira*.

Order GELIDIALES

Family GELIDIACEAE

**Gelidium latifolium* (Greville) Bornet and Thuret

Gelidium corneum var. *latifolium* Greville, 1830:143.

Gelidium latifolium (Greville) Bornet and Thuret, 1876:58.—Bornet, 1892:270.—Funk, 1927:70.—Feldmann, 1931b:228; 1937:270.—Navarro and Uriarte, 1945:236.—Aleem, 1951:251.—Gayral, 1958:306.—Edelstein, 1964:191.—Seoane-Camba, 1965:98.—Ardre, 1970:65.—Gerloff and

Geissler, 1971:762.—Güven and Östig, 1971:127.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:19.

DISTRIBUTION.—Tunisia (Cap Serrat); north-eastern Atlantic (Portugal Spain, Morocco); Mediterranean (Spain, France, Corsica, Italy, Sicily, Greece, Turkey, Israel, Algeria); Red Sea.

SPECIMENS STUDIED.—EGM 2: 1197–1198(US), 1199(NHA), 1200(INSTOP).

REMARKS.—Rare; found in April on rocks in the sublittoral zone.

**Gelidium pectinatum* Montagne

Gelidium pectinatum Montagne, 1846:108.—Bornet, 1892:271.—Boergesen, 1927:89.—Funk, 1927:381.—Navarro and Uriarte, 1945:236.—Edelstein, 1962:213; 1964:191.—Ardre, 1970:66.—Giaccone et al., 1973, table iv.

DISTRIBUTION.—Tunisia (Cap Serrat, Cap Zebib, Bechateur, La Marsa); northeastern Atlantic (Portugal, Canary Islands); Mediterranean (Sicily, Spain, Italy).

SPECIMENS STUDIED.—EGM 2: 1194, 1195; 3: 1297; 5: 1357(US); 12: 1615(NHA), 1616(INSTOP).

REMARKS.—Common; found in February, April, July, and August on rocks in the sublittoral zone.

Gelidium pusillum (Stackhouse) Le Jolis

Fucus pusillus Stackhouse, 1801:17.

Gelidium pusillum (Stackhouse) Le Jolis, 1863:139.—Bornet, 1892:268.—Boergesen, 1927:83.—Feldmann, 1931b:228; 1937:270.—Navarro and Uriarte, 1945:235.—Nasr and Aleem, 1949:278.—Gayral, 1958:308.—Seoane-Camba, 1965:100.—Ardre, 1970:72.—Gerloff and Geissler, 1971:762.—Boudouresque and Perret, 1977:19.

DISTRIBUTION.—Tunisia (Gammarth, Hammamet); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Adriatic Sea, Greece, Sicily, Turkey, Algeria, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 7: 1384; 11: 1528–1530, 1536; 12: 1623–1627; 13: 1756; 14: 1826–

1830; 15: 1869; 1870; 16: 1908–1914(US); 17: 1949–1950(NHA), 2298(INSTOP).

REMARKS.—Common; found from March to May and in September, October, and December on rocks in the sublittoral zone.

Pterocladia capillacea (Gmelin) Bornet and Thuret

Fucus capillaceus Gmelin, 1768:146.

Pterocladia capillacea (Gmelin) Bornet and Thuret, 1876:57.—Bornet, 1892:272.—Boergesen, 1927:93.—Funk, 1955:71.—Feldmann, 1931b:229; 1937:271; 1961:506.—Nasr, 1940b:20.—Navarro and Uriarte, 1945:236.—Aleem, 1951:251.—Gayral, 1958:312.—Riedl, 1963:65.—Ardre, 1970:73.—Furnari and Scammacca, 1970:221.—Gerloff and Geissler, 1971:762.—Güven and Östig, 1971:127.—Lipkin and Safriel, 1971:10.

DISTRIBUTION.—Tunisia (Cap Zebib, Bechateur, La Marsa, Sousse); northeastern Atlantic (Portugal, Morocco, Canary Islands); Mediterranean (Spain, France, Italy, Adriatic Sea, Greece, Sicily, Turkey, Israel, Algeria, Libya, Egypt); Indian Ocean.

SPECIMENS STUDIED.—EGM 3: 2299; 5: 1360; 12: 1649–1651(US); 17: 1953–1955(NHA), 1956–1957(INSTOP).

REMARKS.—Common; found in February and April and from June to September on rocks in the sublittoral zone.

Order CRYPTONEMIALES

Family PEYSSONNELIACEAE

Peyssonnelia rubra (Greville) J. Agardh

Zonaria rubra Greville, 1826:340.

Peyssonnelia rubra (Greville) J. Agardh, 1851:502.—Piccone, 1879:29; 1884:129.—Bornet, 1892:347.—Muschler, 1910:311.—Petersen, 1918:12.—Boergesen, 1929:13.—Feldmann, 1931b:240; 1937:271; 1961:506.—Navarro and Uriarte, 1945:241.—Aleem, 1951:251.—Edelstein, 1962:213; 1964:193.—Gerloff and Geissler, 1971:763.—Güven and Östig, 1971:127.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:56.

DISTRIBUTION.—Tunisia (Cap Serrat, Cap Ze-

bib, Ile Plane, Korbous, Djerba Island); north-eastern Atlantic (Canary Islands); Mediterranean (Spain, France, Corsica, Sicily, Greece, Turkey, Israel, Algeria, Libya, Egypt); Red Sea.

SPECIMENS STUDIED.—EGM 1: 1204; 2: 1226–1234, 1248, 1249, 1268, 1269; 5: 1368; 8: 1390, 1391, 1397–1401(US); 14: 1849–1850(NHA), 1851(INSTOP).

REMARKS.—Abundant; found in January, February, April, May, July, August, October, and December growing as a fleshy crust on rocks.

Peyssonnelia squamaria (Gmelin) Decaisne

Fucus squamarius Gmelin, 1768:171.

Peyssonnelia squamaria (Gmelin) Decaisne, 1839:168.—Bornet, 1892:347.—Muschler, 1910:311.—DeToni and Forti, 1913:6; 1914:290.—Feldmann, 1931b:240; 1937:271.—Navarro and Uriarte, 1945:241.—Aleem, 1951:251.—Dao, 1957:170.—Edelstein, 1962:213; 1964:193.—Riedl, 1963:67.—Ardre, 1970:76.—Ben Alaya, 1970:210.—Gerloff and Geissler, 1971:763.—Güven and Östig, 1971:127.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:57.

DISTRIBUTION.—Tunisia (Cap Serrat, Cap Zebib, Tabarka, Bechateur, Raouad, mouth of Madjerda, Gammarth, La Marsa, Sidi Bou Said, Korbous, Nabeul, Monastir, Gabes); northeastern Atlantic (Portugal); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Israel, Algeria, Libya, Egypt); Red Sea.

SPECIMENS STUDIED.—EGM 1: 1205; 2: 1222, 1223; 3: 1307; 5: 1365; 9: 1468–1476; 10: 1493–1495; 11: 1553, 1567–1570; 12: 1682–1684, 1686–1688; 13: 1785–1788; 14: 1847, 1848; 15: 1886, 1887; 18: 1978(US), 1996(NHA); 22: 2131(INSTOP).

REMARKS.—Abundant; found from February to December usually on rocks but sometimes epiphytic on some algae; some specimens dredged from 4 to 45 m.

Family CORALLINACEAE

**Amphiroa beauvoisii* Lamouroux

Amphiroa beauvoisii Lamouroux, 1816:299.—Nasr, 1940b: 21.—Navarro and Uriarte, 1945:249.—Aleem, 1951:251.

DISTRIBUTION.—Tunisia (La Marsa); Mediterranean (Egypt).

SPECIMENS STUDIED.—EGM 12: 1173(US).

REMARKS.—Rare; found in October on rocks in the sublittoral zone.

Amphiroa rigida Lamouroux

Amphiroa rigida Lamouroux, 1816:297.—Muschler, 1910: 312.—DeToni and Forti, 1914:290.—Funk, 1927:436.—Feldmann, 1931b:242; 1937:272; 1961:507.—Navarro and Uriarte, 1945:249.—Aleem, 1951:251.—Hamel and Lemoine, 1953:40.—Edelstein, 1962:213; 1964:195.—Riedl, 1963:70.—Seoane-Camba, 1965:118.—Ardre, 1970:92.—Gerloff and Geissler, 1971:764.—Güven and Östig, 1971:127.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:36.

DISTRIBUTION.—Tunisia (Cap Serrat, Bechateur); northeastern Atlantic (Portugal, Spain); Mediterranean (Spain, Corsica, Sicily, Adriatic Sea, Greece, Turkey, Israel, Algeria, Libya, Egypt); Indian Ocean.

SPECIMENS STUDIED.—EGM 2: 1255, 1262(US); 3: 1340(NHA), 1341(INSTOP).

REMARKS.—Occasional; found from April to June on rocks in the sublittoral zone.

Corallina elongata Ellis and Solander

Corallina elongata Ellis and Solander, 1786:121.—Boudouresque and Perret, 1977:37.

Corallina mediterranea Areschoug in J. Agardh, 1852:568.—Bornet, 1892:350.—Funk, 1927:438.—Boergesen, 1929: 68.—Feldmann, 1931b:242; 1937:272; 1961:507.—Nasr, 1940b:22.—Navarro and Uriarte, 1945:247.—Nasr and Aleem, 1949:278.—Aleem, 1951:251.—Gayral, 1958: 320.—Riedl, 1963:70.—Seoane-Camba, 1965:110.—Ardre, 1970:94.—Furnari and Scammacca, 1970:221.—Gerloff and Geissler, 1971:764.—Güven and Östig, 1971: 127.—Lipkin and Safriel, 1971:10.

DISTRIBUTION.—Tunisia (Tabarka, Gammarth, Hammamet, Sousse), northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Adriatic Sea, Greece, Turkey, Israel, Algeria, Egypt, Sicily).

SPECIMENS STUDIED.—EGM 1: 1197; 13: 1754;

16: 1907, 1921–1923(US), 1924(NHA); 17: 1963(INSTOP).

REMARKS.—Common; found in January, March, April, June, July, and October on rocks in the sublittoral zone.

Corallina granifera Ellis and Solander

Corallina granifera Ellis and Solander, 1786:120.—Funk, 1927: 438.—Boergesen, 1929:69.—Feldmann, 1931b:242; 1937: 272.—Navarro and Uriarte, 1945:248.—Seoane-Camba, 1965:110.—Ardre, 1970:96.—Gerloff and Geissler, 1971: 764.—Güven and Östig, 1971:127.—Lipkin and Safriel, 1971:9.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:39.

DISTRIBUTION.—Tunisia (Tabarka, Bechateur, Bizerte, Raouad, Gammarth, La Marsa, Sidi Bou Said, Nabeul, Aghir, El Bibane); northeastern Atlantic (Portugal); Mediterranean (Spain, France, Corsica, Italy, Sicily, Greece, Turkey, Israel, Algeria, Libya).

SPECIMENS STUDIED.—EGM 1: 1194–1196; 3: 1300–1304; 4: 1343; 10: 1479–1481, 1489; 11: 1552, 1554; 12: 1652; 13: 1753, 1771, 1772; 15: 1877–1880; 24: 2175(US), 2176–2177(NHA); 29: 2261(INSTOP).

REMARKS.—Abundant; found from March to July and in September, October, and December on rocks and epiphytic on various algae in the sublittoral zone.

Corallina officinalis Linnaeus

Corallina officinalis Linnaeus, 1758:805.—Bornet, 1892:350.—Muschler, 1910:312.—Feldmann, 1931b:242; 1937:272.—Navarro and Uriarte, 1945:247.—Aleem, 1951:251.—Gayral, 1958:317.—Seoane-Camba, 1965:110.—Ardre, 1970:92.—Ben Alaya, 1970:211.—Gerloff and Geissler, 1971:764.—Güven and Östig, 1971:127.—Lipkin and Safriel, 1971:10.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:39.

DISTRIBUTION.—Tunisia (Bizerte, La Marsa); northeastern Atlantic (Portugal, Spain, Morocco); Mediterranean (Spain, France, Corsica, Sicily, Greece, Turkey, Israel, Algeria, Libya, Egypt); Indian Ocean.

SPECIMENS STUDIED.—EGM 4: 342; 5: 1355 (US), 1356(NHA); 12: 1607(INSTOP).

REMARKS.—Occasional; found in May and June and from August to September on rocks in the sublittoral zone.

Dermatolithon pustulatum (Lamouroux) Foslie

Melobesia pustulata Lamouroux, 1816:315.

Dermatolithon pustulatum (Lamouroux) Foslie, 1899:11.—Muschler, 1910:312.—Feldmann, 1937:272.—Navarro and Uriarte, 1945:245.—Funk, 1955:98.—Gayral, 1958: 340.—Seoane-Camba, 1965:114.—Ardre, 1970:89.—Gerloff and Geissler, 1971:765.—Boudouresque and Perret, 1977:41.

DISTRIBUTION.—Tunisia (Zarzis, La Marsa); northeastern Atlantic (Portugal, Spain, Morocco); Mediterranean (Spain, France, Corsica, Italy, Greece, Libya); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 12: 1176–1177 (US).

REMARKS.—Common; found in October as a crust on rocks and *Cymodocea nodosa*.

Fosliella farinosa (Lamouroux) Howe

Melobesia farinosa Lamouroux, 1816:315.—DeToni and Forti, 1913:6; 1914:290.—Schiffner, 1926:304.—Funk, 1955: 97.—Boergesen, 1929:65.—Feldmann, 1931b:242; 1937: 272; 1961:507.—Nasr, 1940b:22.—Navarro and Uriarte, 1945:246.—Nasr and Aleem, 1949:277.—Edelstein, 1962: 214; 1964:195.—Seoane-Camba, 1965:116.—Ardre, 1970: 90.—Gerloff and Geissler, 1971:767.—Güven and Östig, 1971:127.—Giaccone et al., 1973, table iv.

Fosliella farinosa (Lamouroux) Howe, 1920:587.—Aleem, 1951:251.—Hamel and Lemoine, 1953:102.—Riedl, 1963: 69.—Boudouresque and Perret, 1977:41.

DISTRIBUTION.—Tunisia (Cap Serrat, Tabarka, La Marsa, Kerkenna Island, Djerba Island, El Bibane); northeastern Atlantic (Portugal, Spain, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Algeria, Libya); Red Sea; Indian Ocean.

SPECIMEN STUDIED.—EGM 2: 1190(US).

REMARKS.—Occasional; found from April to July and in September as a crust on *Cymodocea nodosa*.

***Haliptilon squamatum* (Linnaeus) Johansen,
Irvine, and Webster**

Corallina squamata Linnaeus, 1767:540.

Haliptilon squamatum (Linnaeus) Johansen et al., 1973:212.—
Boudouresque and Perret, 1977:44.

Corallina squamata Ellis and Solander, 1786:117.—Bornet,
1892:351.—Gayral, 1958:320.—Ardre, 1970:96.

DISTRIBUTION.—Tunisia (Cap Serrat); north-
eastern Atlantic (Portugal, Morocco); Mediter-
ranean (Corsica, Libya, Greece).

SPECIMENS STUDIED.—EGM 2: 1139(US),
1178(NHA), 1220(INSTOP).

REMARKS.—Occasional; found in April on
rocks in the sublittoral zone.

***Jania corniculata* (Linnaeus) Lamouroux**

Corallina corniculata Linnaeus, 1758:806.

Jania corniculata (Linnaeus) Lamouroux, 1812:186.—Bornet,
1892:351.—Feldman, 1937:272.—Navarro and Uriarte,
1945:248.—Seoane-Camba, 1965:112.—Ardre, 1970:
98.—Ben Alaya, 1970:211.—Boudouresque and Perret,
1977:44.

DISTRIBUTION.—Tunisia (Cap Serrat, Cap Ze-
bib); northeastern Atlantic (Portugal, Spain, Mo-
rocco); Mediterranean (Spain, France, Corsica).

SPECIMENS STUDIED.—EGM 2: 1225; 3: 1291,
1293(US), 1294(NHA); 5: 1354(INSTOP).

REMARKS.—Common; found in February and
April on rocks.

****Jania longifurca* Zanardini**

Jania longifurca Zanardini, 1843:43.—Bornet, 1892:351.—
Feldmann, 1931b:242; 1937:272.—Gayral, 1958:330.—
Seoane-Camba, 1965:112.—Ardre, 1970:98.—Furnari
and Scammacca, 1973:13.—Gerloff and Geissler, 1971:
766.

DISTRIBUTION.—Tunisia (Cap Zebib, Becha-
teur, La Marsa); northeastern Atlantic (Portugal,
Spain, Morocco); Mediterranean (France, Al-
geria, Sicily).

SPECIMENS STUDIED.—EGM 3: 1305, 1306; 5:
1353, 1364; 12: 1606, 1671–1680(US), 1681
(NHA), 1685(INSTOP).

REMARKS.—Common; found from January to
December on rocks in the sublittoral zone.

***Jania rubens* (Linnaeus) Lamouroux**

Corallina rubens Linnaeus, 1767:1305.—DeToni and Forti,
1914:290.

Jania rubens (Linnaeus) Lamouroux, 1812:186.—Piccone,
1879:30; 1884:130.—Bornet, 1892:351.—Muschler, 1910:
313.—Boergesen, 1929:70.—Feldmann, 1931b:242; 1937:
272; 1961:507.—Navarro and Uriarte, 1945:248.—Nasr
and Aleem, 1949:278.—Aleem, 1951:251.—Funk, 1955:
102.—Dao, 1957:171.—Gayral, 1958:327.—Riedl, 1963:
70.—Edelstein, 1964:195.—Seoane-Camba, 1965:113.—
Ardre, 1970:97.—Ben Alaya, 1970:211.—Gerloff and
Geissler, 1971:766.—Giaccone et al., 1973, table iv.—Bou-
douresque and Perret, 1977:45.

DISTRIBUTION.—Tunisia (Tabarka, Gammarth,
La Marsa, Sidi Bou Said, Nabeul, Aghir, Zarzis);
northeastern Atlantic (Portugal, Spain, Morocco,
Canary Islands); Mediterranean (Spain, France,
Corsica, Italy, Sicily, Adriatic Sea, Greece, Israel,
Algeria, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 1198–1203; 3:
1292; 11: 1565, 1566; 12: 1668–1670; 13: 1782;
15: 1868, 1885; 28: 2234(US), 2250–2251(NHA),
2253 (INSTOP).

REMARKS.—Common; found in January and
from March to December on rocks, epiphytic on
various algae and *Cymodocea nodosa*.

***Lithophyllum incrustans* Philippi**

Lithophyllum incrustans Philippi, 1837:387.—DeToni and
Forti, 1914:290.—Funk, 1927:434.—Feldmann, 1931b:
240; 1937:271.—Hamel and Lemoine, 1953:48.—Gayral,
1958:335.—Riedl, 1963:69.—Seoane-Camba, 1965:113.—
Ardre, 1970:85.—Gerloff and Geissler, 1971:766.—Fur-
nari and Scammacca, 1973:13.—Boudouresque and Per-
ret, 1977:47.

DISTRIBUTION.—Tunisia (La Marsa); north-
eastern Atlantic (Portugal, Spain, Morocco);
Mediterranean (France, Corsica, Italy, Sicily, Ad-
riatic Sea, Greece, Algeria, Libya); Red Sea.

SPECIMEN STUDIED.—EGM 12: 1175(US).

REMARKS.—Occasional; found in January,
March, April, October, and November as crust
on rocks in the sublittoral zone.

Family CRYPTONEMIACEAE

**Cryptonemia seminervis* (C. Agardh) J. Agardh

Sphaerococcus seminervis C. Agardh, 1822:232.

Cryptonemia seminervis (C. Agardh) J. Agardh, 1851:226.—Bornet, 1892:341.—Gayral, 1958:353.—Seoane-Camba, 1965:117.—Ardre, 1970:101.

DISTRIBUTION.—Tunisia (La Marsa); north-eastern Atlantic (Portugal, Spain, Morocco).

SPECIMENS STUDIED.—EGM 12: 1637–1638 (US).

REMARKS.—Occasional; found in September on rocks in the sublittoral zone.

Family KALLYMENIACEAE

Kallymenia microphylla J. Agardh

Kallymenia microphylla J. Agardh, 1848:288.—Bornet, 1892:278.—Funk, 1927:389.—Boergesen, 1929:75.—Feldmann, 1961:507.—Navarro and Uriarte, 1945:249.—Edelstein, 1962:215; 1964:196.—Ardre, 1970:103.—Gerloff and Geissler, 1971:769.—Güven and Östig, 1971:127.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:46.

DISTRIBUTION.—Tunisia (El Attaya, Kerkenna Island); northeastern Atlantic (Portugal, Canary Islands); Mediterranean (Spain, Corsica, Italy, Sicily, Greece, Turkey, Israel, Algeria).

SPECIMEN STUDIED.—EGM 20: 2100(US).

REMARKS.—Rare; found in April on rocks in the sublittoral zone.

Order GIGARTINALES

Family HYPNEACEAE

Hypnea musciformis (Wulfen in Jacquin) Lamouroux

Fucus musciformis Wulfen in Jacquin, 1786:154.

Hypnea musciformis (Wulfen in Jacquin) Lamouroux, 1813:43.—Piccone, 1879:29; 1884:127.—Bornet, 1892:284.—Muschler, 1910:305.—DeToni and Forti, 1913:11.—Funk, 1955:77.—Boergesen, 1929:84.—Feldmann, 1931b:237;

1937:274; 1961:507.—Navarro and Uriarte, 1945:254.—Nasr and Aleem, 1949:278.—Gayral, 1958:385.—Riedl, 1963:73.—Seoane-Camba, 1965:124.—Ardre, 1970:111.—Ben Alaya, 1970:210.—Gerloff and Geissler, 1971:772.—Güven and Östig, 1971:125.—Lipkin and Safriel, 1971:9.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:23.

DISTRIBUTION.—Tunisia (Cap Zebib, Tabarka, Raf Raf, Raouad, Gammarth, Sidi Bou Said, La Marsa, Nabeul, Hammamet, Monastir, Djerba Island, El Bibane, Bechateur, Ras Sidi Ali El Mekki); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Israel, Algeria, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 1207–1210; 3: 1308, 1309; 5: 1369; 6: 1377; 7: 1385; 10: 1496; 11: 1535, 1571, 1574, 1575; 12: 1689–1706; 13: 1790, 1796; 15: 1888–1890; 16: 1925; 18: 1997, 1998; 20: 2067, 2068; 24: 2171–2173(US); 29: 2262(NHA), 2263(INSTOP).

REMARKS.—Abundant; found year round on rocks and epiphytic on *Cymodocea nodosa*.

Family PLOCAMIACEAE

Plocamium cartilagineum (Linnaeus) Dixon

Fucus cartilagineus Linnaeus, 1753:1161.

Plocamium cartilagineum (Linnaeus) Dixon, 1967:58.—Gerloff and Geissler, 1971:771.—Boudouresque and Perret, 1977:25.

Plocamium coccineum (Hudson) Lyngbye, 1819:39.—Bornet, 1892:291.—DeToni, 1895:453.—Petersen, 1918:19.—Funk, 1955:77.—Boergesen, 1929:94.—Feldmann, 1931b:238; 1937:273.—Navarro and Uriarte, 1945:254.—Gayral, 1958:385.—Riedl, 1963:71.—Seoane-Camba, 1965:120.—Ardre, 1970:112.—Ben Alaya, 1970:211.—Furnari and Scammacca, 1970:222.—Güven and Östig, 1971:128.

DISTRIBUTION.—Tunisia (Tabarka, Cap Zebib, mouth of Madjerda, Gammarth, Sidi Bou Said, La Marsa, Monastir, Sousse); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Turkey, Algeria, Libya); Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 1192, 1193; 5: 1358; 9: 1423-1431; 11: 1531-1533; 12: 1653-1667; 13: 1768-1770(US); 17: 1958-1962(NHA); 18: 1977(INSTOP).

REMARKS.—Abundant; found from January to July and from September to December on rocks as well as epiphytic on various algae; some specimens dredged from 15 to 57 m.

Family SPHAEROCOCCACEAE

Sphaerococcus coronopifolius (Goodenough and Woodward) Stackhouse

Fucus coronopifolius Goodenough and Woodward, 1797:185.
Sphaerococcus coronopifolius (Goodenough and Woodward) Stackhouse, 1809:57.—Muschler, 1910:304.—DeToni and Forti, 1913:12.—Petersen, 1918:18.—Ardre, 1970:115.—Gerloff and Geissler, 1971:771.
Sphaerococcus coronopifolius (Goodenough and Woodward) C. Agardh, 1817:29.—Bornet, 1892:282.—Funk, 1955:77.—Boergesen, 1929:80.—Feldmann, 1931b:236; 1937:273.—Navarro and Uriarte, 1945:255.—Gayral, 1958:374.—Riedl, 1963:72.—Seoane-Camba, 1965:122.—Güven and Östig, 1971:125.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:29.

DISTRIBUTION.—Tunisia (Cap Serrat, Cap Zebib, Bizerte, Ile Plane, Raf Raf, mouth of Madjerda, Raouad, Gammarth, Sidi Bou Said, Korbous); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey).

SPECIMENS STUDIED.—EGM 2: 1130, 1276-1280, 1282-1289; 5: 1362; 6: 1375; 8: 1416; 9: 1450; 10: 1492; 11: 1555-1564(US); 13: 1780-1781(INSTOP); 14: 1837-1841(NHA).

REMARKS.—Abundant; found from February to May and in July, September, October, and December on rocks; some specimens dredged from 40 to 65 m.

Family FURCELLARIACEAE

**Halarachnion ligulatum* (Woodward) Kuetzing

Ulva ligulata Woodward, 1797:54.
Halarachnion ligulatum (Woodward) Kuetzing, 1843:394.—

Bornet, 1892:345.—Funk, 1927:423.—Boergesen, 1929:9.—Navarro and Uriarte, 1945:251.—Gerloff and Geissler, 1971:771.

DISTRIBUTION.—Tunisia (Sidi Bou Said); northeastern Atlantic (Morocco, Canary Islands); Mediterranean (Spain, Italy, Greece).

SPECIMEN STUDIED.—EGM 13: 1809(US).

REMARKS.—Rare; found in October on rocks in the sublittoral zone.

Family GRACILARIACEAE

Gracilaria armata (C. Agardh) J. Agardh

Sphaerococcus armatus C. Agardh, 1827:645.
Gracilaria armata (C. Agardh) J. Agardh, 1847:15.—Bornet, 1892:283.—DeToni, 1895:453.—Schiffner, 1926:302.—Funk, 1955:79.—Boergesen, 1929:82.—Feldmann, 1931b:237; 1937:273.—Nasr and Aleem, 1949:276.—Gerloff and Geissler, 1971:770.

DISTRIBUTION.—Tunisia (La Marsa); northeastern Atlantic (Canary Islands); Mediterranean (France, Italy, Algeria, Greece, Libya, Egypt).

SPECIMENS STUDIED.—EGM 12: 1610-1613(US), 1614(NHA), 1622(INSTOP).

REMARKS.—Occasional; found in April, May, and September on rocks in the sublittoral zone.

Gracilaria arcuata Zanardini

Gracilaria arcuata Zanardini, 1858:265.—Feldmann, 1931a:14; 1951:107.

DISTRIBUTION.—Tunisia (La Marsa); Mediterranean (Egypt); Red Sea; Indian Ocean.

SPECIMEN STUDIED.—EGM 12: 1611(US).

REMARKS.—Rare; found in May growing on rocks in the sublittoral zone.

**Gracilaria cervicornis* (Turner) J. Agardh

Fucus cervicornis Turner, 1809:131.
Gracilaria cervicornis (Turner) J. Agardh, 1852:504.—Gayral, 1958:364.

DISTRIBUTION.—Tunisia (Raf Raf, Ras Sidi Ali El Mekki, La Marsa); northeastern Atlantic (Morocco); Indian Ocean.

SPECIMENS STUDIED.—EGM 6: 1378, 1379; 7: 1388; 12: 1715(US), 1716(NHA), 1717(INSTOP).

REMARKS.—Occasional; found from September to December on rocks in the sublittoral zone.

Gracilaria verrucosa (Hudson) Papenfuss

Fucus verrucosus Hudson, 1762:470.

Gracilaria verrucosa (Hudson) Papenfuss, 1950:195.—Ardre, 1970:115.—Gerloff and Geissler, 1971:771.—Güven and Östig, 1971:127.—Furnari and Scammacca, 1973:10.

Gracilaria confervoides (Linnaeus) Greville, 1830:liv.—Bornet, 1892:282.—Schiffner, 1926:302.—Funk, 1955:79.—Boergesen, 1929:81.—Feldmann, 1931b:237; 1937:273.—Nasr, 1940b:23.—Navarro and Uriarte, 1945:255.—Nasr and Aleem, 1949:276.—Gayral, 1958:358.—Edelstein, 1962:213; 1964:197.—Riedl, 1963:71.—Güven and Östig, 1971:127.

DISTRIBUTION.—Tunisia (La Marsa); north-eastern Atlantic (Portugal, Morocco, Canary Islands); Mediterranean (Spain, France, Italy, Adriatic Sea, Greece, Turkey, Israel, Algeria, Sicily, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 12: 1713(US), 1714(NHA).

REMARKS.—Occasional; found in January, April, May, and July on rocks in the sublittoral zone.

Family PHYLLOPHORACEAE

**Gymnogongrus griffithsiae* (Turner) Martius

Fucus griffithsiae Turner, 1808:80.

Gymnogongrus griffithsiae (Turner) Martius, 1833:27.—Bornet, 1892:276.—DeToni and Forti, 1913:12.—Boergesen, 1929:74.—Feldmann, 1931b:235; 1937:274.—Nasr and Aleem, 1949:278.—Funk, 1955:78.—Gayral, 1958:398.—Seoane-Camba, 1965:125.—Gerloff and Geissler, 1971:772.—Boudouresque and Perret, 1977:22.

DISTRIBUTION.—Tunisia (La Marsa, Hammamet); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (France, Corsica, Italy, Greece, Algeria, Libya, Egypt).

SPECIMENS STUDIED.—EGM 12: 1718–1720 (US), 1721(NHA); 16: 1927(INSTOP).

REMARKS.—Common; found in February, March, June, July, November, and December epiphytic on various algae.

Phyllophora nervosa (de Candolle) Greville in J. Agardh

Fucus nervosus de Candolle, 1805:29.

Phyllophora nervosa (de Candolle) Greville in J. Agardh, 1842:94.—Bornet, 1892:274.—Muschler, 1910:304.—Funk, 1927:386.—Feldmann, 1931b:231; 1937:274.—Navarro and Uriarte, 1945:256.—Nasr and Aleem, 1949:273.—Dao, 1957:171.—Riedl, 1963:72.—Ben Alaya, 1970:211.—Furnari and Scammacca, 1970:222.—Gerloff and Geissler, 1971:773.—Güven and Östig, 1971:125.—Boudouresque and Perret, 1977:24.

DISTRIBUTION.—Tunisia (Cap Serrat, Ile Plane, mouth of Madjerda, Korbous); Mediterranean (Spain, France, Corsica, Adriatic Sea, Greece, Turkey, Algeria, Libya, Sicily, Egypt).

SPECIMENS STUDIED.—EGM 2: 1149–1156, 1183; 8: 1395, 1396, 1402–1405, 1420; 9: 1454–1467(US); 14: 1843–1844(NHA), 1845–1846 (INSTOP).

REMARKS.—Common; found in April, October, and December on rocks; some specimens dredged from 65 m.

**Phyllophora pseudoceranoides* (Gmelin) Newroth and A.R.A. Taylor

Fucus pseudoceranoides Gmelin, 1768:119.

Phyllophora pseudoceranoides (Gmelin) Newroth and A.R.A. Taylor, 1971:95.

Phyllophora membranifolia (Goodenough and Woodward) J. Agardh, 1842:93.—Ardre, 1970:118.—Gerloff and Geissler, 1971:773.

DISTRIBUTION.—Tunisia (Ile Plane, mouth of Madjerda, Korbous); northeastern Atlantic (Portugal); Mediterranean (Greece).

SPECIMENS STUDIED.—EGM 9: 1452–1453(US); 14: 1451(NHA), 1842(INSTOP).

REMARKS.—Common; found from January to

July and from October to December on rocks in the sublittoral zone.

Family GIGARTINACEAE

Gigartina acicularis (Wulfen) Lamouroux

Fucus acicularis Wulfen, 1803:63.

Gigartina acicularis (Wulfen) Lamouroux, 1813:49.—Bornet, 1892:273.—Funk, 1927:385.—Boergesen, 1929:73.—Feldmann, 1931b:231; 1937:274.—Nasr, 1940b:25.—Navarro and Uriarte, 1945:257.—Aleem, 1951:251.—Gayral, 1958:408.—Riedl, 1963:73.—Seoane-Camba, 1965:117.—Ardre, 1970:126.—Ben Alaya, 1970:211.—Gerloff and Geissler, 1971:773.—Güven and Östig, 1971:127.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:21.

DISTRIBUTION.—Tunisia (Cap Serrat, La Marsa, Sidi Bou Said); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Egypt); Indian Ocean.

SPECIMENS STUDIED.—EGM 12: 1617(US), 1621(NHA); 13: 1755(INSTOP).

REMARKS.—Common; found from January to July and from October to December on rocks in the sublittoral zone.

Family RISSOELLACEAE

Rissoella verruculosa (Bertoloni) J. Agardh

Fucus verruculosus Bertoloni, 1819:291.

Rissoella verruculosa (Bertoloni) J. Agardh, 1848:241.—Piccone, 1879:28; 1884:125.—DeToni, 1895:452.—Funk, 1927:390.—Feldmann, 1931b:235; 1937:90; 1961:507.—Navarro and Uriarte, 1945:253.—Furnari and Scamacca, 1970:222.—Boudouresque and Perret, 1977:27.

DISTRIBUTION.—Tunisia (Cap Serrat, Becha-teur); Mediterranean (Spain, France, Corsica, Italy, Algeria, Sicily, Libya).

SPECIMENS STUDIED.—EGM 2: 1208–1215(US), 1256(NHA); 3: 1298 (INSTOP).

REMARKS.—Common; found in April and July on rocks in the sublittoral zone.

Order RHODYMENIALES

Family RHODYMENIACEAE

**Chrysmenia ventricosa* (Lamouroux) J. Agardh

Dumontia ventricosa Lamouroux, 1813:45.

Chrysmenia ventricosa (Lamouroux) J. Agardh, 1876:322.—Bornet, 1892:288.—Funk, 1927:399.—Feldmann, 1937:274.—Navarro and Uriarte, 1945:258.—Edelstein, 1964:198.—Papenfuss, 1968:91.—Gerloff and Geissler, 1971:774.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:31.

DISTRIBUTION.—Tunisia (Djerba Island) Mediterranean (Spain, France, Corsica, Italy, Sicily, Greece, Israel, Egypt).

SPECIMENS STUDIED.—EGM 24: 2174(US), 2148(NHA).

REMARKS.—Rare; found in May on rocks in the sublittoral zone.

**Rhodymenia pseudopalmata* (Lamouroux) Silva

Fucus pseudopalmatus Lamouroux, 1805:29.

Rhodymenia pseudopalmata (Lamouroux) Silva, 1952:265.—Ardre, 1970:132.—Gerloff and Geissler, 1971:774.
Rhodymenia palmetta (Esper) Greville, 1830:xlvi. —Piccone, 1879:28; 1884:126.—Funk, 1927:397.—Feldmann, 1931b:237.—Gayral, 1958:410.—Güven and Östig, 1971:126.

DISTRIBUTION.—Tunisia (Cap Zebib, Ile Plane, mouth of Madjerda, La Marsa, Sidi Bou Said); northeastern Atlantic (Portugal, Morocco); Mediterranean (Italy, Greece, Turkey, Algeria).

SPECIMENS STUDIED.—EGM 12: 1632(US), 1636(NHA), 1761(INSTOP).

REMARKS.—Occasional; found from January to December on rocks in the sublittoral zone.

Family CHAMPIACEAE

Champia parvula (C. Agardh) Harvey

Chondria parvula C. Agardh, 1824:207.

Champia parvula (C. Agardh) Harvey, 1953:76.—Bornet, 1892:290.—Funk, 1927:405.—Boergesen, 1929:92.—

Feldmann, 1931b:238; 1937:274; 1961:507.—Navarro and Uriarte, 1945:262.—Aleem, 1951:251.—Gayral, 1958:420.—Seoane-Camba, 1965:128.—Ardre, 1970:137.—Gerloff and Geissler, 1971:774.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:31.

DISTRIBUTION.—Tunisia (Cap Serrat, Djerba Island, El Bibane); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Greece, Algeria, Egypt); Indian Ocean.

SPECIMENS STUDIED.—EGM 2: 1235(US); 29: 2265(NHA), 2268(INSTOP).

REMARKS.—Common; found from April to May epiphytic on various algae.

***Chylocladia verticillata* (Lightfoot) Bliding**

Fucus verticillatus Lightfoot, 1777:962.

Chylocladia verticillata (Lightfoot) Bliding, 1928:69.—Seoane-Camba, 1965:128.—Ardre, 1970:138.—Gerloff and Geissler, 1971:775.—Boudouresque and Perret, 1977:31.

Chylocladia kaliformis (Goodenough and Woodward) Hooker, 1833:397.—Bornet, 1892:291.—Petersen, 1918:19.—Funk, 1955:87.—Boergesen, 1929:93.—Feldmann, 1931b:238; 1937:275.—Edelstein, 1962:213; 1964:199.—Giaccone et al., 1973, table iv.

Gastroclonium kaliforme (Goodenough and Woodward) Ardisson, 1883:322.—Navarro and Uriarte, 1945:261.

DISTRIBUTION.—Tunisia (Kerkenna Island, Djerba Island, El Bibane); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Greece, Israel, Algeria).

SPECIMENS STUDIED.—EGM 19: 2034–2046; 20: 2095–2099, 2101; 24: 2154–2158(US); 29: 2255(NHA), 2256(INSTOP).

REMARKS.—Common; found from March to April on rocks and epiphytic on various algae.

***Gastroclonium clavatum* (Roth) Ardisson**

Conferva clavata Roth, 1797:160.

Gastroclonium clavatum (Roth) Ardisson, 1883:322.—DeToni and Forti, 1913:11.—Feldman, 1937:275; 1961:507.—Navarro and Uriarte, 1945:261.—Funk, 1955:88.—Seoane-Camba, 1965:130.—Gerloff and Geissler, 1971:775.—Boudouresque and Perret, 1977:32.

Chylocladia mediterranea J. Agardh, 1842:112.

Lomentaria mediterranea Endlicher, 1843:43.

DISTRIBUTION.—Tunisia (Nabeul, Monastir); northeastern Atlantic (Spain); Mediterranean (Spain, France, Corsica, Greece, Libya).

SPECIMENS STUDIED.—EGM 15: 1871–1874 (US), 1875(NHA), 1970(INSTOP).

REMARKS.—Occasional; found from April to March on rocks in the sublittoral zone.

Family LOMENTARIACEAE

***Lomentaria articulata* (Hudson) Lyngbye**

Ulva articulata Hudson, 1778:569.

Lomentaria articulata (Hudson) Lyngbye, 1819:101.—Bornet, 1892:289.—Boergesen, 1929:90.—Feldmann, 1937:274.—Navarro and Uriarte, 1945:260.—Gayral, 1958:418.—Ben Alaya, 1970:211.—Furnari and Scammacca, 1970:223.—Gerloff and Geissler, 1971:775.—Boudouresque and Perret, 1977:33.

DISTRIBUTION.—Tunisia (Hammamet); northeastern Atlantic (Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Sicily, Corsica, Italy, Greece).

SPECIMEN STUDIED.—EGM 16: 1926(US).

REMARKS.—Rare; found in March on rocks in the sublittoral zone.

Order CERAMIALES

Family CERAMIACEAE

****Antithamnion cruciatum* (C. Agardh) Naegeli**

Callithamnion cruciatum C. Agardh, 1824:160.

Antithamnion cruciatum (C. Agardh) Naegeli, 1847:200.—Funk, 1955:110.—Feldmann, 1931b:247.—Riedl, 1963:75.—Ardre, 1970:145.—Gerloff and Geissler, 1971:776.—Güven and Östig, 1971:126.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:33.

DISTRIBUTION.—Tunisia (Cap Serrat); northeastern Atlantic (Portugal, Canary Islands); Mediterranean (France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Algeria).

SPECIMENS STUDIED.—EGM 2: 1144–1145(US), 1146(NHA), 1147(INSTOP).

REMARKS.—Occasional; found in April epiphytic on various algae.

****Callithamnion byssoides* Arnott in Hooker**

Callithamnion byssoides Arnott in Hooker, 1833:342.—Boergesen, 1930:42.—Feldmann, 1937:275.—Papenfuss, 1968:92.

DISTRIBUTION.—Tunisia (Monastir); northeastern Atlantic (Canary Islands); Mediterranean (France); Red Sea.

SPECIMEN STUDIED.—EGM 18: 2011(US).

REMARKS.—Rare; found in April on rocks in the sublittoral zone.

***Callithamnion granulatum* (Ducluzeau) C. Agardh**

Ceramium granulatum Ducluzeau, 1805:72.

Callithamnion granulatum (Ducluzeau) C. Agardh, 1828:177.—DeToni, 1895:454.—Funk, 1955:134.—Feldmann, 1931b:247.—Navarro and Uriarte, 1945:265.—Gayral, 1958:438.—Ardre, 1970:176.—Gerloff and Geissler, 1971:776.—Güven and Östig, 1971:126.—Boudouresque and Perret, 1977:64.

DISTRIBUTION.—Tunisia (Cap Serrat, Tabarka, Bechateur); northeastern Atlantic (Portugal, Morocco); Mediterranean (Spain, Corsica, Italy, Greece, Turkey, Algeria, Libya).

SPECIMENS STUDIED.—EGM 1: 2220; 2: 1132, 1133, 1244–1246(US), 1247(NHA); 3: 1336(INSTOP).

REMARKS.—Common; found in April and July epiphytic on various algae.

***Callithamnion tetragonum* (Withering) C. Agardh**

Conserva tetragona Withering, 1796:405.

Callithamnion tetragonum (Withering) C. Agardh, 1828:176.—Boergesen, 1930:46.—Feldmann, 1931b:247; 1937:275; 1961:507.—Funk, 1955:133.—Seoane-Camba, 1965:140.—Ardre, 1970:177.

DISTRIBUTION.—Tunisia (Gammarth); northeastern Atlantic (Portugal, Spain, Canary Islands); Mediterranean (France, Italy, Algeria).

SPECIMEN STUDIED.—EGM 11: 1605(US).

REMARKS.—Rare; found in May on rocks.

***Ceramium ciliatum* (Ellis) Ducluzeau**

Conserva ciliata Ellis, 1768:425.

Ceramium ciliatum (Ellis) Ducluzeau, 1805:64.—DeToni and Forti, 1913:7; 1914:290.—Schiffner, 1926:301.—Funk, 1955:118.—Boergesen, 1930:65.—Nasr, 1940b:26.—Navarro and Uriarte, 1945:268.—Nasr and Aleem, 1949:276.—Gayral, 1958:430.—Seoane-Camba, 1965:132.—Furnari and Scammacca, 1970:223.—Gerloff and Geissler, 1971:76.—Güven and Östig, 1971:126.—Boudouresque and Perret, 1977:65.

DISTRIBUTION.—Tunisia (Cap Serrat, Raouad, Gammarth, Monastir); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, Corsica, Italy, Greece, Sicily, Turkey, Libya, Egypt).

SPECIMENS STUDIED.—EGM 2: 1240–1243; 10: 1511–1514; 11: 1598–1604(US); 15: 1896(INSTOP); 18: 2008–2010(NHA).

REMARKS.—Common; found from March to May epiphytic on various algae and *Cymodocea nodosa*.

***Ceramium diaphanum* (Lightfoot) Roth**

Conserva diaphana Lightfoot, 1777:996.

Ceramium diaphanum (Lightfoot) Roth, 1806:154.—Piccone, 1879:28; 1884:123.—Petersen, 1918:14.—Schiffner, 1926:301.—Boergesen, 1930:63.—Feldmann, 1931b:248; 1937:276.—Mazoyer, 1938:325.—Nasr, 1940b:27.—Gayral, 1958:433.—Seoane-Camba, 1965:135.—Papenfuss, 1968:92.—Güven and Östig, 1971:126.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:66.

Ceramium diaphanum (Roth) Harvey, 1849: pl. 193.—Funk, 1955:119.—Ardre, 1970:155.—Gerloff and Geissler, 1971:777.

DISTRIBUTION.—Tunisia (Tabarka, Gammarth, La Marsa, Sidi Bou Said, Hammamet, Sousse, El Bibane); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (France, Corsica, Italy, Greece, Turkey, Algeria, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 1211; 11: 1593–1597; 13: 1815–1817(US); 29: 2287(NHA), 2288(INSTOP).

REMARKS.—Common; found from January to May and in September and November epiphytic on various algae and *Cymodocea nodosa*.

***Ceramium gracillimum* Griffiths and Harvey
in Harvey**

Ceramium gracillimum Griffiths and Harvey in Harvey, 1849, pl. 206.—Funk, 1955:117.—Nasr and Aleem, 1949:276.—Edelstein, 1964:202.—Seoane-Camba, 1965:133.—Papenfuss, 1968:93.—Andre, 1970:153.—Gerloff and Geissler, 1971:777.—Giaccone et al., 1973, table iv.

DISTRIBUTION.—Tunisia (La Marsa); north-eastern Atlantic (Portugal, Spain); Mediterranean (Italy, Sicily, Greece, Israel, Egypt); Red Sea.

SPECIMENS STUDIED.—EGM 16: 1928(US), 1929(NHA).

REMARKS.—Occasional; found in September epiphytic on *Cymodocea nodosa*.

***Ceramium rubrum* (Hudson) C. Agardh**

Conferva rubra Hudson, 1762:486.

Ceramium rubrum (Hudson) C. Agardh, 1817:60.—Boergesen, 1930:63.—Feldmann, 1931b:248.—Mazoyer, 1938:320.—Nasr, 1940b:27.—Navarro and Uriarte, 1945:268.—Nasr and Aleem, 1949:276.—Aleem, 1951:251.—Funk, 1955:119.—Gayral, 1958:428.—Riedl, 1963:75.—Seoane-Camba, 1965:133.—Ardre, 1970:157.—Furnari and Scammacca, 1970:223.—Gerloff and Geissler, 1971:778.—Güven and Östig, 1971:126.—Boudouresque and Perret, 1977:67.

DISTRIBUTION.—Tunisia (Bechateur, Gammarth, La Marsa, Monastir); northeastern Atlantic (Portugal, Spain, Corsica, Italy, Sicily, Turkey, Adriatic Sea, Greece, Algeria, Egypt); Red Sea.

SPECIMENS STUDIED.—EGM 3: 1333–1335: 11: 1590–1592; 12: 1729, 1730, 1732(US), 1733(NHA); 18: 2007(INSTOP).

REMARKS.—Abundant; found from January to August and from October to December on rocks, epiphytic on various algae and *Cymodocea nodosa*.

***Ceramium tenerrimum* (Martens) Okamura**

Hormoceras tenerrimum Martens, 1866:146.

Ceramium tenerrimum (Martens) Okamura, 1933:112.—Funk,

1955:117.—Mazoyer, 1937:540; 1938:321.—Seoane-Camba, 1965:135.—Gerloff and Geissler, 1971:778.—Giaccone et al., 1973, table iv.

DISTRIBUTION.—Tunisia (Djerba Island); northeastern Atlantic (Spain, Morocco); Mediterranean (Italy, Sicily, Greece, Algeria).

SPECIMENS STUDIED.—EGM: 24: 2142–2144(US), 2145(NHA), 2146(INSTOP).

REMARKS.—Rare; found in March epiphytic on *Cymodocea nodosa*.

***Ceramium tenuissimum* (Lyngbye) J. Agardh**

Ceramium diaphanum var. *tenuissimum* Lyngbye, 1819:120.

Ceramium tenuissimum (Lyngbye) J. Agardh, 1851:120.—Feldmann, 1931b:248; 1937:276.—Mazoyer, 1938:325.—Navarro and Uriarte, 1945:268.—Nasr and Aleem, 1949:270.—Funk, 1955:117.—Gerloff and Geissler, 1971:778.—Güven and Östig, 1971:126.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:68.

DISTRIBUTION.—Tunisia (La Marsa); north-eastern Atlantic (Portugal); Mediterranean (Spain, France, Corsica, Italy, Sicily, Greece, Turkey, Algeria, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMEN STUDIED.—EGM 12: 1539(US).

REMARKS.—Occasional; found in May and August on *Cymodocea nodosa*.

****Griffithsia flosculosa* (Ellis) Batters in Newton**

Conferva flosculosa Ellis, 1768:425.

Griffithsia flosculosa (Ellis) Batters in Newton, 1931:368.—Funk, 1955:129.—Feldmann, 1961:507.—Seoane-Camba, 1965:138.—Ardre, 1970:167.—Gerloff and Geissler, 1971:779.—Furnari and Scammacca, 1973:14.—Boudouresque and Perret, 1977:69.

Griffithsia setacea C. Agardh, 1817:xxviii.—Bornet, 1892:324.

DISTRIBUTION.—Tunisia (Cap Serrat); north-eastern Atlantic (Portugal, Spain); Mediterranean (Corsica, Italy, Greece, Sicily).

SPECIMEN STUDIED.—EGM 2: 1171(US).

REMARKS.—Rare; found in April epiphytic on *Cymodocea nodosa*.

****Griffithsia phyllamphora* J. Agardh**

Griffithsia phyllamphora J. Agardh, 1842:77.—Bornet, 1892:324.—Boergesen, 1930:38.—Navarro and Uriarte, 1945:

263.—Funk, 1955:127.—Dao, 1957:172.—Riedl, 1963:75.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:69.

DISTRIBUTION.—Tunisia (Sidi Bou Said); northeastern Atlantic (Canary Islands); Mediterranean (Spain, Corsica, Italy, Sicily, Adriatic Sea).

SPECIMEN STUDIED.—EGM 13: 1808(US).

REMARKS.—Rare; found in July epiphytic on various algae.

**Anotrichium tenue* (C. Agardh) Naegeli

Griffithsia tenuis C. Agardh, 1828:131.—Boergesen, 1930:31.—Edelstein, 1964:199.—Gerloff and Geissler, 1971:779.

Anotrichium tenue (C. Agardh) Naegeli, 1861:399.

DISTRIBUTION.—Tunisia (Kerkenna Island); northeastern Atlantic (Canary Islands); Mediterranean (Greece, Israel, Algeria); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 20: 2093(US), 2094(NHA).

REMARKS.—Occasional; found in April on rocks in the sublittoral zone.

Spyridia filamentosa (Wulfen) Harvey

Fucus filamentosus Wulfen, 1803:64.

Spyridia filamentosa (Wulfen) Harvey, 1833:336.—Bornet, 1892:333.—DeToni and Forti, 1913:7.—Petersen, 1918:15.—Schiffner, 1926:302.—Pottier, 1929:337.—Boergesen, 1930:61.—Feldmann, 1931b:247; 1937:276.—Nasr, 1940b:30.—Navarro and Uriarte, 1945:267.—Funk, 1955:120.—Dao, 1957:172.—Edelstein, 1964:202.—Seoane-Camba, 1965:136.—Ben Alaya, 1970:211.—Gerloff and Geissler, 1971:780.—Güven and Östig, 1971:126.—Giaccone et al., 1973, table iv.—Harotinidis and Tsekos, 1975:219.—Boudouresque and Perret, 1977:72.

DISTRIBUTION.—Tunisia (Sidi Bou Said, Korbous, Monastir, Djerba Island, Kerkenna Island, Zarzis); northeastern Atlantic (Spain, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Greece, Turkey, Algeria, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 4: 1344–1348; 13: 1773–1779; 14: 1832–1836; 18: 1994, 1995; 21:

2107–2111; 24: 2194; 26: 2208–2214(US); 28: 2246–2247 (NHA), 2248–2249(INSTOP).

REMARKS.—Abundant; found in April, May, July, and October epiphytic on various algae.

Wrangelia penicillata C. Agardh

Wrangelia penicillata C. Agardh, 1828:138.—Bornet, 1892:265.—DeToni, 1895:452.—DeToni and Forti, 1913:12.—Schiffner, 1926:300.—Boergesen, 1927:94.—Feldmann, 1937:276.—Navarro and Uriarte, 1945:269.—Funk, 1955:129.—Dao, 1957:172.—Riedl, 1963:75.—Edelstein, 1964:200.—Gerloff and Geissler, 1971:780.—Güven and Östig, 1971:126.—Giaccone et al., 1973, table iv.—Harotinidis and Tsekos, 1975:220.—Boudouresque and Perret, 1977:73.

DISTRIBUTION.—Tunisia (Monastir, Djerba Island, Zarzis); northeastern Atlantic (Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Israel, Libya); Indian Ocean.

SPECIMENS STUDIED.—EGM 18: 1991–1993; 24: 2183, 2186–2193, 2197–2201(US); 28: 2239–2243(NHA), 2244–2245(INSTOP).

REMARKS.—Common; found in April, May, and October epiphytic on various algae.

Family DELESSERIACEAE

**Acrosorium uncinatum* (Turner) Kylin

Fucus laceratus var. *uncinatus* Turner, 1808:153.

Acrosorium uncinatum (Turner) Kylin, 1924:78.—Boergesen, 1930:154.—Feldmann, 1931b:238; 1937:278.—Navarro and Uriarte, 1945:272.—Funk, 1955:103.—Gayral, 1958:461.—Seoane-Camba, 1965:142.—Ardre, 1970:188.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:90.

DISTRIBUTION.—Tunisia (Sidi Bou Said, Korbous, Sousse); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Algeria, Libya); Indian Ocean.

SPECIMENS STUDIED.—EGM 2: 1186; 13: 1821–1825; 14: 1861–1863(US), 1864(NHA), 1865(INSTOP).

REMARKS.—Common; found in April and October epiphytic on various algae.

****Hypoglossum woodwardii* Kuetzing**

Hypoglossum woodwardii Kuetzing, 1843:444.—Boergesen, 1930:153.—Feldmann, 1931b:238; 1937:278.—Navarro and Uriarte, 1945:269.—Funk, 1955:106.—Gayral, 1958:456.—Edelstein, 1964:207.—Seoane-Camba, 1965:141.—Ardre, 1970:179.—Gerloff and Geissler, 1971:781.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:91.

DISTRIBUTION.—Tunisia (Tabarka); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Greece, Algeria, Libya).

SPECIMEN STUDIED.—EGM 1: 1540(US).

REMARKS.—Rare; found in April epiphytic on various algae.

****Myriogramme distromatica* Rodriquez ex Boudouresque**

Myriogramme distromatica Rodriquez ex Boudouresque, 1971:76.—Boudouresque and Perret, 1977:92.

DISTRIBUTION.—Tunisia (Sidi Bou Said); Mediterranean (Corsica).

SPECIMEN STUDIED.—EGM 13: 1789(US).

REMARKS.—Rare; found in October epiphytic on *Cymodocea nodosa*.

Family DASYACEAE

****Dasya baillouviana* (Gmelin) Montagne**

Fucus baillouviana Gmelin, 1768:165.

Dasya baillouviana (Gmelin) Montagne, 1841:164.

Dasya elegans (Martens) C. Agardh, 1828:117.—Edelstein, 1964:205.—Güven and Östig, 1971:127.

Dasya pedicellata C. Agardh, 1824:211.—Boergesen, 1930:136.—Gerloff and Geissler, 1971:782.—Güven and Östig, 1971:127.—Giaccone et al., 1973, table iv.

DISTRIBUTION.—Tunisia (Kerkenna Island, Djerba Island); northeastern Atlantic (Canary Islands); Mediterranean (Sicily, Greece, Turkey, Israel); Indian Ocean.

SPECIMENS STUDIED.—EGM 20: 2057–2059, 2061; 24: 2178–2179(US), 2180–2181(NHA), 2182(INSTOP).

REMARKS.—Common; found in March and April on rocks in the sublittoral zone.

***Heterosiphonia wurdemanni* (Bailey in Harvey) Falkenberg**

Dasya wurdemanni Bailey in Harvey, 1853:64.

Heterosiphonia wurdemanni (Bailey in Harvey) Falkenberg, 1901:638.—Schiffner, 1926:303.—Boergesen, 1930:137.—Feldmann, 1937:277.—Nasr, 1940a:7.—Nasr and Aleem, 1949:270.—Aleem, 1951:252.—Funk, 1955:147.—Dao, 1957:173.—Edelstein, 1964:206.—Gerloff and Geissler, 1971:782.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:89.

DISTRIBUTION.—Tunisia (Djerba Island, El Bibane); northeastern Atlantic (Canary Islands); Mediterranean (France, Corsica, Italy, Sicily, Greece, Israel, Egypt).

SPECIMENS STUDIED.—EGM 26: 2222(US), 2223(NHA).

REMARKS.—Occasional; found in April and October on rocks in the sublittoral zone.

Family RHODOMELACEAE

***Acanthophora najadiformis* (Delile) Papenfuss**

Fucus najadiformis Delile, 1813:80.

Acanthophora najadiformis (Delile) Papenfuss, 1968:96.

Acanthophora delile Lamouroux, 1813:132.—Muschler, 1910:307.—Funk, 1927:446.—Nasr and Aleem, 1949:277.—Feldmann, 1951:107.—Furnari and Scammacca, 1970:225.—Gerloff and Geissler, 1971:783.—Boudouresque and Perret, 1977:73.

DISTRIBUTION.—Tunisia (Djerba Island); Mediterranean (Sicily, Corsica, Italy, Greece, Israel, Libya, Egypt); Indian Ocean.

SPECIMENS STUDIED.—EGM 23: 2134(US), 2137(NHA).

REMARKS.—Occasional; found in June on rocks in the sublittoral zone.

***Alsidium corallinum* C. Agardh**

Alsidium corallinum C. Agardh, 1827:639.—Schiffner, 1926:303.—Boergesen, 1930:108.—Feldmann, 1937:277.—Navarro and Uriarte, 1945:276.—Aleem, 1951:252.—Funk, 1955:139.—Edelstein, 1964:203.—Gerloff and Geissler, 1971:783.—Boudouresque and Perret, 1977:74.

DISTRIBUTION.—Tunisia (La Marsa); north-eastern Atlantic (Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Greece, Israel, Egypt).

SPECIMENS STUDIED.—EGM 12: 1744–1749 (US), 1750(NHA), 1751(INSTOP).

REMARKS.—Occasional; found in February, June, September, and November on rocks in the sublittoral zone.

****Chondria coerulecens* (Crouan and Crouan) Falkenberg**

Laurencia coerulecens Crouan and Crouan, 1867:154.
Chondria coerulecens (Crouan and Crouan) Falkenberg, 1901:205.—Funk, 1927:444.—Gayral, 1958:476.—Seoane-Camba, 1965:153.—Ardre, 1970:223.

DISTRIBUTION.—Tunisia (Raouad, La Marsa, Sidi Bou Said); northeastern Atlantic (Portugal, Spain, Morocco); Mediterranean (Italy).

SPECIMENS STUDIED.—EGM 10: 1509–1510 (US); 12: 1727–1728(NHA); 13: 1814(INSTOP).

REMARKS.—Common; found in March, June, October, and December on rocks in the sublittoral zone.

***Chondria dasyphylla* (Woodward) C. Agardh**

Fucus dasyphyllus Woodward, 1794:239.
Chondria dasyphylla (Woodward) C. Agardh, 1817:xviii.—Bornet, 1892:304.—Muschler, 1910:307.—Fremy, 1925:28.—Schiffner, 1926:303.—Funk, 1927:444.—Boergesen, 1930:81.—Feldmann, 1931b:242.—Gayral, 1958:474.—Gerloff and Geissler, 1971:783.—Furnari and Scammacca, 1973:16.

DISTRIBUTION.—Tunisia (Cap Serrat, Tabarka, Gammarth, La Marsa, El Bibane); northeastern Atlantic (Portugal, Morocco, Canary Islands); Mediterranean (Greece, Algeria, Libya, Sicily, Egypt); Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 1219; 2: 1218, 1221, 1224; 11: 1585–1589; 12: 1724–1726; 20: 2047–2056; 29: 2269–2271(US), 2272(NHA), 2273(INSTOP).

REMARKS.—Common; found from January to May and in November and December on rocks in the sublittoral zone.

***Chondria tenuissima* (Goodenough and Woodward) C. Agardh**

Fucus tenuissimus Goodenough and Woodward, 1797:215.
Chondria tenuissima (Goodenough and Woodward) C. Agardh, 1822:352.—Bornet, 1892:303.—Schiffner, 1926:303.—Boergesen 1930:80.—Feldmann, 1931b:243; 1937:276.—Navarro and Uriarte, 1945:276.—Aleem, 1951:252.—Funk, 1955:139.—Seoane-Camba, 1965:154.—Ardre, 1970:221.—Gerloff and Geissler, 1971:783.—Güven and Östig, 1971:126.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:76.

DISTRIBUTION.—Tunisia (Bechateur, Raouad, Gammarth, Kerkenna Island, Djerba Island); northeastern Atlantic (Portugal, Spain, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Greece, Turkey, Algeria, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 3: 1332; 10: 1506–1508; 11: 1583(US); 24: 2149–2159(NHA), 2152–2153(INSTOP).

REMARKS.—Common; found from March to May and in July and August on rocks in the sublittoral zone.

****Digenia simplex* (Wulfen) C. Agardh**

Conferva simplex Wulfen, 1803:17.
Digenia simplex (Wulfen) C. Agardh, 1822:388.—Muschler, 1910:308.—Funk, 1927:442.—Navarro and Uriarte, 1945:280.—Nasr and Aleem, 1949:256.—Aleem, 1951:252.—Dao, 1957:172.—Gerloff and Geissler, 1971:783.—Güven and Östig, 1971:126.—Lipkin and Safriel, 1971:11.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:76.

DISTRIBUTION.—Tunisia (Cap Serrat, Nabeul, Djerba Island); Mediterranean (Spain, Corsica, Italy, Sicily, Greece, Turkey, Israel, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 2: 1270–1275, 1281(US); 15: 1876(INSTOP); 27: 2231–2233 (NHA).

REMARKS.—Common; found in April, July, and October on rocks in the sublittoral zone.

Halopitys incurvus (Hudson) Batters

Fucus incurvus Hudson, 1762:470.

Halopitys incurvus (Hudson) Batters, 1902:78.—Aleem, 1951:252.—Gayral, 1958:496.—Seoane-Camba, 1965:152.—Ardre, 1970:220.—Gerloff and Geissler, 1971:784.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:77.

Halopitys pinastroides (Gmelin) Kuetzing, 1843:433.—Bornet, 1892:303.—Muschler, 1910:309.—DeToni and Forti, 1914:298.—Schiffner, 1926:304.—Boergesen, 1930:117.—Feldmann, 1931b:245.—Navarro and Uriarte, 1945:281.—Funk, 1955:145.

DISTRIBUTION.—Tunisia (Cap Serrat, Tabarka, Bechateur, Ile Plane, Ras Sidi Ali El Mekki, mouth of Madjerda, Raouad, Sidi Bou Said, La Marsa, Korbous, Nabeul, Gammarth, Monastir, Djerba Island); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, Corsica, Italy, Sicily, Greece, Algeria, Libya, Egypt).

SPECIMENS STUDIED.—EGM 2: 1148, 1157–1163, 1250–1251; 3: 1323; 8: 1393, 1394; 9: 1477, 1478; 10: 1500–1504; 11: 1578–1580; 12: 1709–1712; 13: 1802–1806 14: 1852–1855; 15: 1893–1894(US); 18: 2005–2006(NHA); 23: 2135–2136(INSTOP).

REMARKS.—Abundant; found from March to May and from July to December on rocks; some specimens dredged from 15 to 23 m.

Herposiphonia tenella (C. Agardh) Schmitz

Hutchinsia tenella C. Agardh, 1828:105.

Herposiphonia tenella (C. Agardh) Schmitz, 1889:449.

Herposiphonia tenella (C. Agardh) Ambronn, 1880:198.—DeToni and Forti, 1913:9.—Boergesen, 1930:110.—Funk, 1955:142.—Gerloff and Geissler, 1971:784.—Boudouresque and Perret, 1977:79.

Herposiphonia tenella (C. Agardh) Naegeli, 1846:238.—Feldmann, 1931b:245; 1961:508.—Navarro and Uriarte, 1945:280.—Seoane-Camba, 1965:147.—Ardre, 1970:213.—Güven and Östig, 1971:126.—Giaccone et al., 1973, table iv.

DISTRIBUTION.—Tunisia (Monastir); northeastern Atlantic (Portugal, Spain, Canary Islands); Mediterranean (Spain, Corsica, Italy, Sicily, Greece, Turkey, Algeria, Libya); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 18: 1999(US), 2000(NHA), 2001(INSTOP).

REMARKS.—Rare; found in April epiphytic on various algae.

Herposiphonia tenella forma *secunda* (C. Agardh) Hollenberg

Herposiphonia secunda (C. Agardh) Falkenberg, 1901:307.

Hutchinsia secunda C. Agardh, 1824:149.

Herposiphonia tenella forma *secunda* (C. Agardh) Hollenberg, 1968:556.

Herposiphonia secunda (C. Agardh) Ambronn, 1880:197.—Nasr and Aleem, 1949:277.—Aleem, 1951:252.—Dao, 1957:172.—Gerloff and Geissler, 1971:784.

Herposiphonia secunda (C. Agardh) Naegeli, 1846:238.—Muschler, 1910:308.—Schiffner, 1926:303.—Boergesen, 1930:111.—Feldmann, 1931b:245.—Navarro and Uriarte, 1945:281.—Funk, 1955:142.—Seoane-Camba, 1965:147.—Ardre, 1970:214.—Furnari and Scammacca, 1970:161.

DISTRIBUTION.—Tunisia (Sidi Bou Said, Djerba Island); northeastern Atlantic (Portugal, Spain, Canary Islands), Mediterranean (Spain, Corsica, Italy, Sicily, Greece, Algeria, Libya, Egypt); Indian Ocean.

SPECIMENS STUDIED.—EGM 24: 2292(US); 25: 2204(NHA), 2205(INSTOP).

REMARKS.—Occasional; found in February, March, and May epiphytic on various algae.

Laurencia obtusa (Hudson) Lamouroux

Fucus obtusus Hudson, 1778:586.

Laurencia obtusa (Hudson) Lamouroux, 1813:42.—Piccone, 1879:31; 1884:133.—Bornet, 1892:300.—Patouillard, 1897:19.—Muschler, 1910:306.—DeToni and Forti, 1913:10.—Schiffner, 1926:302.—Funk, 1927:447.—Pottier, 1929:343.—Boergesen, 1930:67.—Feldmann, 1931b:243, 1937:276.—Navarro and Uriarte, 1945:273.—Nasr and Aleem, 1949:278.—Aleem, 1951:251.—Dao, 1957:172.—Gayral, 1958:482.—Riedl, 1963:77.—Seoane-Camba, 1965:155.—Ardre, 1970:224.—Gerloff and Geissler, 1971:

784.—Güven and Östig, 1971:126.—Boudouresque and Perret, 1977:79.

DISTRIBUTION.—Tunisia (Bechateur, Bizerte, Raf Raf, Raouad, Gammarrh, La Marsa, Sidi Bou Said, Korbous, Monastir, Gabes, Kerkenna Island, Djerba Island, El Bibane); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Sicily, Italy, Adriatic Sea, Greece, Israel, Algeria, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 1: 1212–1217; 2: 1140–1143, 1164–1167, 1179–1182, 1187–1216, 1219; 3: 1324–1331; 4: 1350; 5: 1371, 1372; 6: 1380–1381; 10: 1505; 11: 1581, 1582; 12: 1708; 13: 1810; 14: 1856–1860; 15: 1895; 18: 2002–2004; 19: 2040–2042; 20: 2078–2092; 21: 2113–2117; 22: 2132; 23: 2293–2296; 24: 2159–2170; 25: 2202–2203(US); 26: 2224–2230(NHA); 29: 2274–2286(INSTOP).

REMARKS.—Abundant; found from February to July and in September and October on rocks and epiphytic on various algae; some specimens dredged from 31 m.

**Laurencia papillosa* (Forsskal) Greville

Fucus papillosus Forsskal, 1775:190.

Laurencia papillosa (Forsskal) Greville, 1830:52.—Muschler, 1910:306.—Feldmann, 1937:276.—Nasr and Aleem, 1949:276.—Aleem, 1951:251.—Funk, 1955:141.—Gerloff and Geissler, 1971:785.—Güven and Östig, 1971:126.—Lipkin and Safriel, 1971:8.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:81.

Laurencia papillosa (C. Agardh) Greville, 1830:lii.—DeToni and Forti, 1913:11.

DISTRIBUTION.—Tunisia (Ras Sidi Ali El Mekki, Raouad, Gammarrh, La Marsa, Sidi Bou Said, Nabeul, Zarzis); Mediterranean (France, Corsica, Italy, Sicily, Greece, Turkey, Israel, Libya, Egypt); Red Sea; Indian Ocean.

SPECIMENS STUDIED.—EGM 7: 1386; 10: 1497–1499; 11: 1572, 1573, 1576, 1577; 12: 1707; 13: 1807; 15: 1891–1892(US); 28: 2254(INSTOP); 29: 2265–2266(NHA).

REMARKS.—Abundant; found in March, May, September, and October on rocks and epiphytic on various algae.

**Laurencia pinnatifida* (Gmelin) Lamouroux

Fucus pinnatifidus Gmelin, 1792:1385.

Laurencia pinnatifida (Gmelin) Lamouroux, 1813:42.—Bornet, 1892:301.—Funk, 1927:449.—Boergesen, 1930:69.—Feldmann, 1931b:243; 1937:276.—Navarro and Uriarte, 1945:275.—Aleem, 1951:251.—Gayral, 1958:478.—Seoane-Camba, 1965:154.—Ardre, 1970:225.—Gerloff and Geissler, 1971:785.—Güven and Östig, 1971:126.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:81.

DISTRIBUTION.—Tunisia (Cap Serrat, Bechateur, Cap Zebib); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Greece, Turkey, Algeria, Egypt); Red Sea.

SPECIMENS STUDIED.—EGM 2: 1370(US); 8: 1392(NHA).

REMARKS.—Common; found in February, April, and July in the sublittoral zone.

**Lophosiphonia subadunca* (Kuetzing) Falkenberg

Polysiphonia subadunca Kuetzing, 1843:418.

Lophosiphonia subadunca (Kuetzing) Falkenberg, 1901:496.—Navarro and Uriarte, 1945:281.—Funk, 1955:142.—Gerloff and Geissler, 1971:786.

DISTRIBUTION.—Tunisia (Raf Raf); Mediterranean (Spain, Greece).

SPECIMEN STUDIED.—EGM 6: 1376(US).

REMARKS.—Rare; found in September epiphytic on various algae.

**Lophosiphonia sacchoriza* Collins and Hervey

Lophosiphonia sacchoriza Collins and Hervey, 1917:127.

DISTRIBUTION.—Tunisia (Kerkenna Island).

SPECIMEN STUDIED.—EGM 20: 2077(US).

REMARKS.—Rare; found in April epiphytic on various algae.

Polysiphonia elongata (Hudson) Harvey in Hooker

Conferva elongata Hudson, 1778:599.

Polysiphonia elongata (Hudson) Harvey in Hooker, 1833:333.—Bornet, 1892:308.—Muschler, 1910:307.—Boergesen,

1930:93.—Feldmann, 1937:277.—Navarro and Uriarte, 1945:278.—Aleem, 1951:252.—Funk, 1955:136.—Edelstein, 1964:204.—Ardre, 1970:206.—Ben Alaya, 1970:212.—Gerloff and Geissler, 1971:786.—Furnari and Scammacca, 1973:16.—Boudouresque and Perret, 1977:83.

DISTRIBUTION.—Tunisia (Gammarth); north-eastern Atlantic (Portugal, Canary Islands); Mediterranean (Spain, France, Corsica, Greece, Turkey, Israel, Libya, Egypt).

SPECIMENS STUDIED.—EGM 11: 1537–1538 (US).

REMARKS.—Occasional; found in May epiphytic on various algae.

****Polysiphonia macrocarpa* Harvey in Mackay**

Polysiphonia macrocarpa Harvey in Mackay, 1836:206.—Bornet, 1892:306.—Boergesen, 1930:82.—Gayral, 1958:465.—Ardre, 1970:202.

DISTRIBUTION.—Tunisia (Raouad, Djerba Island); northeastern Atlantic (Morocco, Canary Islands).

SPECIMENS STUDIED.—EGM 10: 1487, 1488; 20: 2064(US), 2069(NHA), 2007 (INSTOP).

REMARKS.—Common; found in January, March, and August epiphytic on various algae and *Cymodocea nodosa*.

***Polysiphonia opaca* (C. Agardh) Zanardini**

Hutchinsia opaca C. Agardh, 1824:148.

Polysiphonia opaca (C. Agardh) Zanardini, 1842:63.—Schiffner, 1926:303.—Boergesen, 1930:104.—Feldmann, 1937:277.—Navarro and Uriarte, 1945:379.—Nasr and Aleem, 1949:277.—Aleem, 1951:252.—Funk, 1955:136.—Gerloff and Geissler, 1971:787.—Güven and Östig, 1971:126.—Lipkin and Safriel, 1971:8.—Gaiccone et al., 1973, table iv.—Boudouresque and Perret, 1977:84.

DISTRIBUTION.—Tunisia (Tabarka, Monastir, Djerba Island); northeastern Atlantic (Canary Islands); Mediterranean (Spain, France, Corsica, Sicily, Greece, Turkey, Israel, Egypt).

SPECIMENS STUDIED.—EGM 1: 1188–1190; 18: 1985–1990(US); 24: 2138 (INSTOP), 2184–2185(NHA).

REMARKS.—Common; found from April to May epiphytic on various algae.

****Polysiphonia urceolata* (Lightfoot in Dillwyn) Greville**

Conferva urceolata Lightfoot in Dillwyn, 1807:82.

Polysiphonia urceolata (Lightfoot in Dillwyn) Greville, 1824:309.—Gerloff and Geissler, 1971:788.—Güven and Östig, 1971:126.

DISTRIBUTION.—Tunisia (Kerkenna Island); Mediterranean (Greece, Turkey).

SPECIMENS STUDIED.—EGM 20: 2063, 2071–2073(US), 2074(NHA), 2075(INSTOP).

REMARKS.—Occasional; found in April on rocks.

****Polysiphonia violacea* (Roth) Greville in Harvey**

Ceramium violaceum Roth, 1797:150.

Polysiphonia violacea (Roth) Greville in Harvey, 1849:209.—Funk, 1927:135.—Boergesen, 1930:87.—Furnari and Scammacca, 1970:225.

DISTRIBUTION.—Tunisia (Kerkenna Island); northeastern Atlantic (Canary Islands); Mediterranean (Italy, Sicily).

SPECIMENS STUDIED.—EGM 19: 2032(US), 2033(NHA), 2034(INSTOP).

REMARKS.—Occasional; found in April epiphytic on various algae.

****Pterosiphonia complanata* (Clemente) Falkenberg**

Fucus complanatus Clemente, 1807:316.

Pterosiphonia complanata (Clemente) Falkenberg, 1901:271.—Gayral, 1958:484.—Seoane-Camba, 1965:150.—Ardre, 1970:192.—Harotinidis and Tsekos, 1975:219.

Polysiphonia complanata J. Agardh, 1863:933.—Bornet, 1892:317.

DISTRIBUTION.—Tunisia (Monastir, Kerkenna Island, El Bibane); northeastern Atlantic (Portugal, Spain); Mediterranean (Greece).

SPECIMENS STUDIED.—EGM 18: 1979–1981; 19:

2035-2037(US); 29: 2257(NHA), 2258(INSTOP).

REMARKS.—Common; found in January, April, June, and August epiphytic on various algae.

****Pterosiphonia pennata* (C. Agardh)
Falkenberg**

Hutchinsia pennata C. Agardh, 1824:146.

Pterosiphonia pennata (C. Agardh) Falkenberg, 1901:263.—Funk, 1955:143.—Ardre, 1970:194.—Harotinidis and Tsekos, 1975:219.

Pterosiphonia pennata (Roth) Falkenberg, 1901:263.—Boergesen, 1930:108.—Feldmann, 1931b:244; 1937:277.—Nasr and Aleem, 1949:277.—Aleem, 1951:252.—Gayral, 1958:488.—Seoane-Camba, 1965:150.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:85.

DISTRIBUTION.—Tunisia (La Marsa); north-eastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (France, Corsica, Italy, Sicily, Greece, Algeria, Egypt).

SPECIMENS STUDIED.—EGM 12: 1639-1646 (US), 1647(NHA), 1648(INSTOP).

REMARKS.—Common; found year round on sandy substrate.

***Rytiphloea tinctoria* (Clemente) C. Agardh**

Fucus tinctorius Clemente, 1807:316.

Rytiphloea tinctoria (Clemente) C. Agardh, 1824:160.—Bornet, 1892:302.—Muschler, 1910:308.—DeToni and Forti, 1913:8; 1914:290.—Funk, 1927:454.—Boergesen, 1930:116.—Feldmann, 1931b:245; 1937:277.—Navarro and Uriarte, 1945:281.—Aleem, 1951:252.—Dao, 1957:173.—Gayral, 1958:498.—Edelstein, 1962:213; 1964:205.—Riedl, 1963:77.—Seoane-Camba, 1965:152.—Ardre, 1970:220.—Ben Alaya, 1970:211.—Gerloff and Geissler, 1971:788.—Güven and Östig, 1971:126.—Giaccone et al.,

1973, table iv.—Harotinidis and Tsekos, 1975:219.—Boudouresque and Perret, 1977:86.

DISTRIBUTION.—Tunisia (Bechateur, Raf Raf, Ile Plane, Gammarth, La Marsa, Sidi Bou Said, Korbous, Kerkenna Island, Gabes, Djerba Island, Zarzis); northeastern Atlantic (Portugal, Spain, Morocco, Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Israel, Algeria, Libya, Egypt); Red Sea.

SPECIMENS STUDIED.—EGM 3: 1299; 6: 1373, 1374; 8: 1406; 11: 1549-1551; 12: 1630, 1631; 13: 1758-1760; 14: 1831; 21: 2104-2106; 22: 2118-2123, 25: 2206(US); 28: 2237(NHA); 29: 2260 (INSTOP).

REMARKS.—Abundant; found from February to July and from September to December on vertical surfaces of rocks; some specimens dredged from 15 to 23 m.

***Vidalia volubilis* (Linnaeus) J. Agardh**

Fucus volubilis Linnaeus, 1759:1344.

Vidalia volubilis (Linnaeus) J. Agardh, 1863:1121.—Piccone, 1879:33; 1884:137.—Bornet, 1892:301.—Muschler, 1910:309.—DeToni and Forti, 1914:298.—Boergesen, 1930:116.—Feldmann, 1931b:245; 1937:277; 1961:508.—Navarro and Uriarte, 1945:282.—Funk, 1955:144.—Riedl, 1963:77.—Ben Alaya, 1970:211.—Gerloff and Geissler, 1971:788.—Güven and Östig, 1971:126.—Giaccone et al., 1973, table iv.—Boudouresque and Perret, 1977:86.

DISTRIBUTION.—Tunisia (Gabes); northeastern Atlantic (Canary Islands); Mediterranean (Spain, France, Corsica, Italy, Sicily, Adriatic Sea, Greece, Turkey, Algeria, Libya).

SPECIMENS STUDIED.—EGM 22: 2124-2128 (US), 2129(NHA), 2130(INSTOP).

REMARKS.—Occasional; found in July; dredged from 37 to 47 m.

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