

A LIST OF MARINE ALGAE FROM SEASHORES OF IRAN (HORMOZGAN PROVINCE)

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ABSTRACT

Seashores of Hromzgan province in south of Iran were studied for collection and recognition of algal flora (1991-1996). 150 species of marine algae were recognized, including 36 Chlorophyta (16 new). 33 Phaeophyta (15 new). 75 Rhodophyta (42 new), 3 Xanthophyta (2 new) and 3 Cyanophyta (2 new). In this study number of algal species from iranian seashores are increased to 201 species.

INTRODUCTION

Marine algae of Persian Gulf for the first time were studied by Endlicher and Diez (1845). they recorded 8 species of algae based on Kotschy collection from Kharck islnad in northwest of the Gulf. Borgesen (1939) recorded 102 species of marine algae from Iraian Gulf which 76 species of them were collected from Iranian seashores and others form Arabian regions of the Gulf. Nizamuddin and Gessner (1970) descirbed 68 species of algae from Iranian seashores and Pakistan seashores based on algal collection which had been gathered in «Meteor» Expedilion. 37 species of these algae were collected from seashores of Iran and 25 species of them were new records for algal flora of Iran.

From Arabian regions of the Gulf first report of algae were published by Borgesen (1939) which 27 species of the algae had been collected form Arabian regions of the Gulf. Newton (1955a., 1955b) published the algal flora of Kuwait and Bahrain sea-

shores. In Nizamuddin and Gessner report's (1970) one species was reported form Abudhabi seashores.

Jones (1986) described and illustrated 67 species of algae from seashores of Kuwait and Persian Gulf. Al-Hassan and Jones (1989) recorded 105 species of algae from Kuwait seashores. Basson *et al* (1989) recorded 88 species of agae form Bahrain seashores. Msheghni and Dugham (1987) published benthic marin agae from Qatar seashores. Basson (1992) published a chacklist of algae of the Gulf.

Other publication dealing with phytochemical properties or ecological features of the algae of the Gulf including : El-Mohsen and Khoja (1973), Kamel (1981), McCain (1984), McCain *et al* (1984), Basson & Abbas (1992), Abbas *et al* (1992) and Al-Easa *et al* (1995).

Materials and methods :

The present work carried out in seashores of Hormozgan province and its Islands in

the south of Iran. Algal specimens were collected from intertidal regions of the seashores (1991-1996) and preserved in 4% Formalin in a seawater solution or pressed as herbarium specimens.

All specimens are deposited in natural Resources and Animal Research Center of Hormozgan. In laboratory by using of Olympus photostereomicroscope (model SZH) and Olympus photomicroscope (model BH2), morphological and anatomical features of the specimens were studied and photographed. In present paper 150 species of algae are presented from Iranian seashores of the Persian Gulf which 94 of the algae are new records for Iran and based on Basson checklists (1992), 63 species of the algae are new for the Gulf. Systematic account of the recognised algae are presented as follows:

CHLOROPHYTA

ULVACEAE

***Entromorpha clathrata* (Roth) Greville**

Abbott & Hollenberg, 1976, p. 73; Al-Hassan & Jones, 1989, p. 292; Basson, 1979a, p. 74 & 1979b, p. 28; Borgesen, 1939, p. 57; Chapman, 1954, p. 420; Lawson & John, 1987, p. 54; Millar & Kraft, 1994, p. 422; Nizamuddin & Gessner, 1970, p. 3; Taylor, 1957, p. 63; Taupr, 1960, p. 59.

Local distribution: Hormoz Island, Bostanu, Bandar Pole and Bandar Jask.

***Entromorpha compressa* (Linn.) Nees.**

Abbott & Hollenberg, 1976, p. 72; Al-Hassan & Jones, 1989, p. 202; Basson, 1992, p. 219; Borgesen, 1939, p. 57; Chap-

man, 1954, p. 406; Millar & Kraft, 1994, p. 422; Nizamuddin & Gessner, 1970, p. 3; Papenfuss, 1968, p. 11; Taylor, 1960, p. 60.

Loc. distr.: Wide spread in seashores.

*** *Entromorpha flexuosa* (Wulf ex Roth) J. Agardh.**

Abbott & Hollenberg, 1976, p. 75; Al-Hassan & Jones, 1989, p. 292; Basson, 1979a, p. 48; Basson, 1989, p. 28; Basson, 1992, p. 219; Bliding, 1955, p. 235-269 (as *E. intermedia*); Bliding, 1963, pp. 73-79; Lawson & John, 1987, p. 55; Millar & Kraft, 1994, p. 422; N'yeurt, 1996, p. 365; Taylor, 1960, p. 61;

Loc. distr.: Larak Island, Qeshm Island, Bandar Abbas and Bandar Jask.

*** *Entromorpha intestinalis* (Linn.) Link.**

Abbott & Hollenberg, 1976, p. 76; Al-Hassan & Jones, 1989, p. 292; Basson, 1989, p. 271; Basson, 1992, p. 219; Bliding, 1963, pp. 140-142; Chapman, 1954, p. 404; Nizamuddin & Gessner, 1970, p. 3; Papenfuss, 1986, p. 11; Lawson & John, 1987, p. 55; Steentoft, 1967; Taylor, 1957, p. 66; Taylor, 1960, p. 62.

Loc. distr.: Hormoz Island, Larak Island, Qeshm Island, Hengam Island and Bandar Charak.

*** *Entromorpha liza* (Linn.) J. Agardh**

Abbott & Hollenberg, 1976, p. 76; Bliding, 1963, pp. 127; Millar & Kraft, 1994, p. 422; Lawson & John, 1987, p. 58; Taylor, 1957, p. 68; Taylor, 1960, p. 65.

Loc. distr.: Qeshm Island and Bandar Tiab.

***Ulva Lactuca* Linn.**

Linneaus 1753; Abbott & Hollenberg, 1976,p.83; Al-Hassan & Jones, 1989,p.293; Basson *et al*, 1989,p.28; Basson, 1992,p.219. Bliding, 1968,pp.540-546; Borgesen, 1939,p.57; Chapman, 1954,p.388; Islam, 1976,p.p.11; Lawson & John, 1987,gp.60 Krishnamurthy & Joshi, 196 ,p.126 ; Millar & Kraft, 1994,p.423 ; Richardson, 1975,p.83; Taylor, 1966,p.142 ; Taylor, 1957,p.74 Taylor, 1960,p.65.

Loc.distr.: Qeshm Island, Hormoz Island, Iararak Island.

Ulva californica Wille

Abbott & Hollenberg, 1976,p.76; Tanner, 1986,pp.510-520.

Loc.distr.: Abumusa Island. Qeshm Island, Bandar Jask.

The species recently was reported (Sohrabipour & Rabii, 1996,p.96).

Ulva fasciata Dilli

Anand, 1940,p.16; Chapman, 1954, p.396' Krishnamurthy & Joshi, 1969,p.127; Lawson & John, 1987,p.59; Millar & Kraft, 1994,p.423; Nizamuddin & Gessner, 1970,p.2; Philips, 1988,p.434; Taylor, 1960,p.66; Taylor, 1966,p.142; Sohrabipour & Rabii, 1966.

Loc.distr.: Qeshm Island, Larak Island

The species recently was reported for flora of Iran (Sohrabipour & Rabii, 1996,p.96)

CLADOPHORACEA.E

*** *Lola implex* (Dillw.) Hamel**

Chapman, 1954,p.463; Islam, 1976,p.13

Loc.distr. : Bandar Jask.

***Chaetomorpha aerea* (Dillw.) Kutzing.**

Al-Hassan & Johnes, 1989,p.293; Basson, 1979a,p.48; Borgesen, 1939,p.63; Basson *et al*, 1989,p.28; Islam, 1976,p.12; Millar & Kraft, 1994,p.425; Papenfuss, 1968,p.13; Taylor, 1957,p.79; Taylor, 1960,p.72 & 1966,p.143.

Loc.distr. : Qeshm Island.

*** *Chaetomorpha brachygona* Harvey.**

Islam, 1976,p.12; Lawson & John, 1987,p.65; Rao & Sreeramulu, 1970,p.25; Taylor, 1960,p.70; Taylor, 1966,p.142.

Loc.distr. : Bandar lengh.

*** *Chaetomorpha californica* Collins**

Abbot & Hollenberg, 1976,p.101; Chapman, 1954p.463 (as *Lola Californica*)

Loc.distr. : Iararak Island.

*** *Chaetomorpha garcilis* (Kutz.) Kutzing**

Islam, 1976,p.12; Lawson & John, 1987,p.68; Taylor, 1966,p.142;

Loc.distr.: Larak Island

*** *Cladophora fassicularis* (Mert.) Kutzing**

Chapman, 1954,p.447; Papenfuss, 1968,p.14; Taylor, 1960,p.91 ; Taylor, 1966,p.144; Loc.distr.: Qeshm Island.

*** *Caladophora koiei* Borgesen**

Basson, 1979a,p.50; Basson, 1989,p.28; Borgesen, 1939,pp.66-68; Nizamuddin & Gessner, 1970,p.4;

Loc.distr.: Qeshm Island.

Borgesen (1939) reported the species from Arabian area of Persian Gulf therefor the species for Iranian seashores is new record.

* **Cladophora Magdalenae Harvey**

Anand, 1940,p.29; Taylor, 1957,p.88;
Loc.distr.: Abumousa Island.

* **Cladophora nitellopsis Borgesen**

Al-Hassan & Jones, 1989,p.294; Basson *et al*, 1989,p.28 ; Borgesen, 1939 ,pp:64-66 ; Basson *et al*, 1989 p.29; Nizamuddin & Gessner, 1970,p.4.
Loc.distr.: Larak Island.

* **Cladophora radiosa(Sohr.) Kutzing**

Chapman, 1954,p.446;
Loc.distr.: Larak Island.

* **Cladophora sericioides Borgesen**

Al-Hassan & Jones, 1989,p.294; Basson , 1979a,p.50; Borgesen, 1939,pp.64-66; Basson *et al*, 1989,p.29; Nizamuddin & Gessner, 1970,p.4.
Loc.distr.: Abumousa Island.

SIPHONOCLADACEAE

* **Cladophora membranacea (C. Ag.)**

Borgesen

Anand, 1940,p.47; Lawson & John, 1987,pp.117-113; Sohrabipour & Rabii, 1996, Taylor, 1966,p.148.

Loc.distr.: Hormoz Island, Qeshm Island
The species was recently reported for flora algal of Iran (Sohrabipour & Rabiei, 1996,p.98)

* **Cladophoropsis Zollingeri (Kutz.)**

Borgesen

Al-Hassan & Jones, 1989,p.294; Basson , 1979a,p.51; Basson *et al*, 1989,p.29; Borgesen, 1939,p.62; Basson, 1992,p.219.
Loc.distr.: Qeshm Island and Hormoz Island.

VALONIACEAE

* **Dictyosphaeria cavernosa (Forssk.)**

Borgesen

Al-Hassan & Jones, 1989,p.294; Basson , 1979a,p.51; Basson *et al*, 1989,p.29; Basson, 1992,p.219. Dawson, 1956,p.90; Islam, 1976,p.16; N'yeurt, 1996,p.371; Millar & Kraft, 1994,p.431; Papenfuss, 1968,p.17; Sohrabipour & Rabii, 1996,p.100; Taylor, 1960,pp.116-117; Taylor, 1964,p.147;

Loc.distr.: Qeshm Island Bandar lengh
The species was recently reported from Iran (Sohrabipour & Rabii, 1996,p.100).

DERBESSIACEAE

* **Bryopsis pennata Lamx.var.secund (Harv.) Collin & Harvey**

Dawson, 1956,p.73; Lawson & John, 1987,pp.92-93; Lawson & Price, 1969,p.285; Steentoft, 1967,p.110; Taylor, 1960,p.132;

Loc.distr.: Farur Island, Qeshm Island, Hormoz Island and Bandar Jask.

* **Bryopsis pennatula J.Agradh**

Abbott & Hollenberg, 1976,p.113; Chapman, 1954,p.484;

Loc.distr.: Qeshm Island.

* **Bryopsis plumosa (Huds.) C.Agradh**

Chapman, 1954,p.476; Lawson & John, 1987,pp.93; Lawson & Price, 1969,p.285; Millar & Kraft, 1994,p.424; N'yeurt, 1996,p.374; Papenfuss, 1968,p.19; Taylor, 1957,p.94; Verheij & Rein, 1993,p.389;

Loc.distr.: Hormoz Island.

CAULERPACEAE

Caulerpa manorensis Nizamuddin

Basson, 1992,p.220; Coppejans & Meinese, 1988,p.186; Coppejans, 1992,p.395; Nizamuddin & Gessner, 1970,p.3; Verhij & Rein, 1993,p.394.

Loc.distr.: Bandar Jask.

Caulerpa racemosa (Forssk.) J.Agardh var.macrophysa (Kutz.) Taylor.

Rao & Sreeramulau, 1970,p.29; Sohrabipour & Rabii, 1996,p.98; Taylor, 1960,pp.155;

Loc.distr.: Larak Island, Qeshm Island and Hormoz Island.

The species was recently reported for flora of Iran (Sohrabipour & Rabii, 1996,p.98).

Caulerpa racemosa (Forssk.) J.Ag. var.peltata (Lamx.) Eubank

N'yeurt, 1960,p.378; Wynn, 1995,p.330; = *Caulerpa peltata lamx.* ; Anand, 1940,pp.34-35; Islam, 1976,p.19; Papenfuss, 1968; Millar & Kraft, 1994,p.438; Taylor, 1957,p.49; Taylor, 1960,p.150; Sohrabipour & Rabii, 1996,p.98; = *Caulerpa racemosa ead. peltata* ; Coppejans, 1992,p.410; Coppejalls & Reine, 1992,p.173; Verheij & Reine, 1993,p.124

Loc.distr.: Abumousa Island, Qeshm Island and Hormoz Island.

The variety was recently reported from Iran as *Caulerpa peltata lamx* but wynn (1995,p.330) and N'yeurt (1996,p.378) believe that *C. racemosa var.peltata (Lamx.) Eubank* is correct.

*** Caulerpa sertularioides (S.G.Gmelim) Howe forma.farlowii (Weber - Van**

Bosse) Borgesen,

Basson *et al.*, 1989,pp.404; Basson, 1992,p.220; Coppejans, 1992,p.404; Nizamuddin & Gessner, 1970,p.3; Taylor, 1960,p.144.

The species was reported by Nizamuddin & Gessner (1970) from Oman sea therefore its is a new record for Iranian region of Persian Gulf.

Caulerpa taxifolia (Vahl.) C.Agardh

Anand, 1940,p.36; Islam, 1976,p.22; Coppejans, 1992,p.406 ; Millar & Kraft, 1994,p.438; Lawson & John, 1987,p.90; Lawson & Price, 1969,pp.291-293; Rao & Sreeramulu, 1970,p.29; Taylor, 1967,p.52 = *Caulerpa mexicana* Sonder ex Kuzing ; Basson, 1992,p.220; Taylor, 1960,p.142 = *Caulerpa crassifolia (C.Ag.) J.Ag:Borgesen*, 1939,p.47.

Loc.distr.: Qeshm Island Bandar Jask and Hormoz Island.

Borgesen (1939) reported the species as *Caulerpa crassifolia* form Iranian seashores but Basson (1992) listed the Borgesen specimens as synonym for *Caulerpa mexicana*. Based on Coppejans report (1992) *Caulerpa Mexicana* is a variety of *Caulerpa taxifolia*.

*** Caluerpa sp.**

Loc.distr.: Qeshm Island and Bandar Jask
The specimens completely different with other species and unknown carefully.

CODIACEAE

*** Codium papilatum Tseng et Gilbert**
Al-Hassan & Jones, 1989,p.295; Basson, 1992,p.220.

Loc.distr.: Qeshm Island and Larak Island.

UDOTEACEAE

Avarinvillea calithina Kraft & Olesen-Stojkovich

Kraft & Olsen-Stojkovich, 1985, pp.339-345; Millar & Kraft, 1994, p.339.

Loc.distr.: Qeshm Island and Farur Island
The species recently report from Iranian seashores (Sohrabipour & Rabii, 1996).

POLYPHSACEAE

Acetabularia calyculus Quoy et Gaimard.

Al-Hassan & Jones, 1989, p.295 Basson, 1979a, p.53; Basson *et al.*, 1989, p.29; Basson, 1992, p.220; Islam, 1976, p.24; Millar & Kraft, 1994, p.439; Papenfuss, 1968, p.27; Solms & Solms-laubach, 1985, p.26;

Loc.distr.: Bandar lengeh, Qeshm Island
The species was recently recorded from Iran (Sohrabipour & Rabii, 1996).

Acetabularia mobii Solms-laubach

Anand, 1940, pp.39-41; N'yeurt, 1996, p.397; Papenfuss, 1968, p.28; Solms-Laubach 1895, p.30;

Loc.distr.: Qeshm Island.

The species recently recorded from Persian Gulf (Sohrabipour & Rabii, 1996).

Polyphysa parvula (Solms-laubach) Schanetter (Bula & Meyer).

Millar & Kraft, 1994, p.439; N'yeurt, 1996, p.396; Wynne, 1995, p.333; Solms-Loubach, 1985, p.29 (as *Acetabularia parvula*).

Loc.distr.: Qeshm Island.

The species was recently recorded as *Acetabularia* sp. form Iranian seashores (Sohrabipour & Rabii, 1996).

PHAEOPHYTA

ECTOCARPACEAE

*** Bachelotia antillarum (Grunow) Gerloff.**

Lawson & John, 1987, p.103; Millar & Kraft, 1994, p.9; Richardson, 1975, p.97; Rao & Sreeramulu, 1970, p.31; Steentoft, 1967, p.115; Taylor, 1960, p.198 (as *B.fulvescens* (Bornet) Kuckuck).

Loc.distr.: Qeshm Island and Larak Island.

*** Feldmania irregularis (kutz.) Hamel**

Abbott & Hollenberg, 1976, p.136; Basson, 1979a, p.53; (as *Ectocarpus irregularis* Kutz) Basson, 1992, p.220; Boudouresque *et al.*, 1984, p.50; Islam, 1976, p.30 (as *Giffordia irregularis* Kutz) ; Taylor, 1960, p.207 (as *Giffordia conifera*); Papenfuss, 1968, p.29;

Loc.distr.: Qeshm Island, Hormoz Island and Larak Island.

The species recently recorded from Iranian seashores (Sohrabipour & Rabii, 1996, p.101).

Hinksia mitchelliae (Harvey) P.C.Sliva

Basson, 1992, p.220; Millar & Kraft, 1994, p.10; Wynne, 1995, p.323; = *Giffordia mitchelliae* : Abbott & Hollenberg, 1976, p.143; Al-Hassan & Jones, 1989, p.296; Basson, 1979a, p.53; Steentoft, 1967, p.115;

= *Ectocarpus mitchelliae* : Borgesen, 1939, p.75; Nizamuddin & Gessner, 1970, p.5;

Loc.distr.: Larak Island, Qeshm Island and Hormoz Island.

Boryesen (1939) and Nizamuddin & Gessner (1970) reported the species as *Ectocarpus mitchelliae* Harvey form Iranian seashores.

SPHACELARIACEAE

Sphacelaria nova-hollandiae sonder

Al-Hassan & Jones, 1989,p.296; Taylor, 1960,pp.211-12; Wynne, 1995,p.323

Loc.distr.: Abumousa Island.

The species recently recorded from Iranian seashores (Sohrabipour & Rabii, 1996,p.101).

Sphacelaria rigidula Kutzing

Al-Hassan & Jones, 1989,p.296; Basson, 1992,p.221; Niekerk, 1965,p.450 N'yeurt, 1996,p.398; Lawson & John, 1987,p.117; Rao & Sreeramulu, 1970,p.31;

= *Sphacelaria furcigera* Kutzing : Basson, 1979a,p.53; Basson *et al*, 1989,p.31; Borgesen, 1939,p.81; Chamberlain, 1965,p.202; Setchell & Gardner, 1976,p.397; Von den Hoek & Flinterman, 1968,p.193-241;

Loc.distr.: Bandar lengeh.

The species was previously reported from Iranian seashores by Borgesen (1939) as *Sphacelaria furcigera* Kutz.

Sphacelaria tribuloides meneghini

Al-Hassan & Jones, 1989,p.296; Basson, 1979,p.55; Basson *et al*, 1989,p.31; Basson, 1992,p.220; Richardson, 1975,p.99; Papenfuss, 1968,p.31; Rao & Sreeramulu, 1970,p.31; Lawson & John, 1987,p.117; Abumusa Island, Sohrabi & Rabii 278

The species recently recorded from Iran (Sohrabipour & Rabii, 1996,p.102).

DICTYOTACEAE

*** Dictyota ciliolata Kutzing**

Al-Hassan & Jones, 1989,p.297; Lawson & John, 1987,p.122; Richardson, 1975,p.101; Papenfuss, 1968,p.32; Verheij

& Rein, 1993,p.424; Taylor, 1960,p.223; Taylor, 1966,p.159;

Loc.distr.: Qeshm Island

*** Dictyota dichotoma (Hudson) Lamx.**

Basson, 1979a,p.55; Basson, 1992,p.221; Islam, 1976,p.36; Lawson & John, 1987,p.123; Papenfuss, 1968,p.32; Taylor, 1960,p.218; Verheij & Rein, 1993,p.425; Wynne, 1995,p.326;

Loc.distr.: Qeshm Island and Bandar Charak

*** Dictyota divaricata Lamx.**

Allender & Kraft, 1983,p.112; Al-Hassan & Jones, 1980,p.297; Basson, 1979a,p.55; Basson *et al*, 1989,p.31; Basson, 1992,p.221; Borgesen, 1939,p.81; Islam, 1976,p.36; Lawson & John, 1987,p.124; Millar & Kraft, 1994,p.17; Nizamuddin & Gessner, 1970,p.33; Papenfuss, 1968,p.33; Taylor, 1966,p.158.

Loc.distr.: Qeshm Island

The species had recorded from Iran by Borgesen (1939).

*** Dictyota indica Sonder et Kutzing**

Basson, 1992,p.221; Nizamuddin & Gessner, 1970,p.5; Taylor, 1960,p.221; Taylor, 1966,p.158.

Loc.distr.: Qeshm Island.

*** Dictyota volubilis Kutzing sensu Vickers**

Taylor, 1960,p.220; Taylor, 1966,p.158;

Loc.distr.: Qeshm Island

Lobophora variegata (Lamx.) Womersley.

Allender & Kraft, 1983,pp.81-82; Basson,

1992,p.221; Millar, 1990,p.469; Millar & Kraft, 1994,p.18; Lawson & John, 1987,p.127; Islam, 1976,p.38; Papenfuss, 1963,p.35-36; Richardson, 1975,p.102; N'yeurt, 1996,p.401; Womersley, 1967,p.221; Verheij & Rein, 1993,p.426; = *Pocockiella variegata* (Lamx.) Papenfuss ; Basson, 1979a,p.57; Rao & Sreeramulu, 1970,p.32; Dickimson & Foote, 1951,p.137; Taylor, 1960,p.231; = *Zonaira variegata* (Lamx.) C.Agardh ; Borgesen, 1939,pp.82-83; Loc.distr.: Qeshm Island, Abumusa Island and Bandar lengeh

Borgesen (1939) recorded the species as *Zonaria variegata* form Iran

*** *Padina austaralis* Hauck**

Al-Hassan & Jones, 1989,p.297; Allender & Kraft, 1983,p.88; Millar, 1990,p.19; Lawson & John, 1987,p.128; Verheij & Rein, 1993,p.428; = *Padina gymnospora* (Kutz.) Cickers : Basson, 1979,p.55; Basson *et al*, 1989,p.31; Islam, 1976,p.403; Nizamuddin & Gessner, 1970,p.6; Richardson, 1975,p.104; Taylor, 1960,p.236; Taylor, 1966,p.161; Loc.distr.: Qeshm Island.

*** *Padina borgesinii* Allender & Kraft**

Allender & Kraft, 1983,pp.37-89; Millar & Kraft, 1994,p.19; Verheij & Rein, 1993,p.429; Loc.distr.: Qeshm Island.

*** *Padina crassa* Yamada**

Allender & Kraft, 1983,p.87; Millar, 1990,p.470; Millar & Kraft, 1994,p.19; Loc.distr.: Larak Island.

*** *Padina pavonica* (Linn.) Thivy**

Islam, 1976,pp.40-41; Lawson & John, 1987,p.132; Papenfuss, 1986,p.34; Taylor, 1960,p.234; = *Fucus pavonica* linn. : Linnaeus 1753,2:1162 = *Padina cf. pavonia* (Linn.) Baill : Kunkel, 1977,p.156; Loc.distr.: Qeshm Island.

The species had been uncertainly reported as *P. pavonia* (Linn) Baill. from Hormoz Island by Kunkel (1977).

*** *Padina Tenuis* Bory de saint vincent**

Allender & Kraft, 1983,p.83; Millar & Kraft, 1994,p.19; Verheij & Rein, 1993,p.429; N'yeurt, 1996,p.402; = *Padina boryana* Thivy : Basson, 1992,p.221; = *Padina commersonil* Bory : Borgesen, 1939,p.82; Papenfuss, 1968,p.34; Steen-toft, 1967,p.118; Loc.distr.: Bandar Charak, Qeshm Island Borgesen (1939) recorded the species as *padina commersonil* Bory and Basson (1992) listed as synonym for *Padina boryana* Thivey, but based on Allener & Kraft (1983) both two species (*P. commersonil* & *P. boryana*) are synonym *P. tenuis* Bory de Saint Vincent.

***Padina tetrastromatica* Hauck**

Allender & Kraft, 1983,pp.86-87; Basson, 1992,p.221; Borgesen, 1939,pp.81-82; Dickimson & Foote, 1951,p.134; Islam, 1976,p.41; Lawson & John, 1987,p.131; Newton, 1953,p.396; Papenfuss, 1968,p.34; Rao *et al*, 1994,p.43-46; Loc.distr.: Larak Island and Qeshm Island The species perviously recorded by Borgesen (1939) form Iran.

* **Spatoglossum variables Figail et Denotaris**

Nizamuddin & Gessner, 1970,p.6; Papenfuss, 1968,p.35;

Loc.distr.: Qeshm Island and Larak Island
Nizamuddin & Gessner (1970) recorded the species from Pakistan seashores in Oman sea therefor it is a new record for Iranian seashore of Persian Gulf.

* **Spatoglossum marginatum (C. Ag.) Kutzing**

Papenfuss, 1968,p.35; Phillips *et al.*, 1993,pp.395-398;

Loc.distr.: Qeshm Island, Bandar Lenge, Bandar Charak and bandar Jask.

PUNCTARICACEAE

Colpomenia sinuos (Mertens ex Roth) Derbes et Solier

Al-Hassan & Jones, 1989,p.297; Basson, 1979a,p.57; Basson, 1992,p.221; Basson *et al.*, 1989,p.38; Borgesen, 1939,p.89; Chamberlain, 1965,p.203; Dawson, 1956,p.91; Dickimson & Foote, 1951,p.137; Lawson & John, 1987,p.137; Millar & Kraft, 1994,p.22; Nizamuddin & Gessner, 1970,p.6; Papenfuss, 1968,p.38; Steentoft, 1967,p.120; Taylor, 1960,p.260 &, 1966,p.162; Vandermeulent *et al.* =, 1984

= *Asperococcus sinuosus* Bory var.lobutusl: Endlicher & Diesing 1845. Loc.distr.: Qeshm Island, Hengam Island, Larak Island, Bandar Charak and Bandar lengh.

The species had been reported from Iranian seashores by Endlicher & Diesing (1845) as *Asperococcus sinuosus* Bory var.lobutus and by Borgesen (1939).

Lyengaria stellata (Borgesen) Borgesen
Al-Hassan & Jones, 1989,p.297; Basson, 1992,p.221; Borgesen, 1939,pp.91-93; Nizamuddin & Gessner, 1970,p.6; Loc.distr.: Qeshm Island, Larak Island, Hengam Island and Bandar Charak
Borgesen (1939) and Nizamuddin & gessner (1970) recorded the species form Iranian seashores.

* **Rosenvingea floridana (Tylor) Taylor**
Abbott & Hollenberg, 1976,p.220; Taylor, 1960,p.262; Taylor, 1964,p.162; Loc.distr.: Qeshm Island and Bandar Charak.

CYSTOSEIRACEAE

Cystoseira myrica (S. G . Gmilin) C.Agardh

Al-Hassan & Jones, 1989,p.298; Basson, 1970a,p.57; Basson, 1992,p.221; Basson *et al.*, 1989,p.31; Borgesen, 1939,p.95; Endlicher & Diesing 1845 (as *C.myrica.var.tenella* Hering et Martens); Newton, 1955a,p.101; Newton, 1955,p.142; Papenfuss, 1968,p.40; Taylor, 1960,p.267; Taylor, 1966,p.163; Loc.distr.: Bandar lengh, Qeshm Island, Bandar Charak, Bandar Gavbandy and Larak Island.

Cystoseira trinodis (Forskal) C.Agardh

Al-Hassan & Jones, 1989,p.298; Basson, 1979a,p.57; Basson *et al.*, 1989,p.32; Jones, 1986; Papenfuss, 1968,p.41; = *Cystophyllum muricatum* (C. Ag.) J.Agardh:Baorgesen, 1939,p.95; Nizamuddin & Gessner, 1970,p.6; Newton, 1955,p.101 &, 1955b,p.14

= *Cystoseira viragta* Endlicher et Diesing ;

Endlicher & Diesing 1845

Loc.distr.: Bandar Charak, Qeshm Island and Bandar Lengeh

The species had been reported with different name from Iran by Endlicher & Diesing 1845 (as Borgesen (1939) & Nizamuddin & Gessner (1970)).

* **Cystoseira neglecta Setchell & Gardner**

Abbott & Hollenberg, 1976,p.269; Setchell & Gardner, 1967,p.710;

Loc.distr.: Bandar Jask.

* **Hormophysa cuneiformis (J.G. Gmelin) P.C.Silva**

Al-Hassan & Jones, 1989,p.298; Basson, 1979a,p.59; Basson *et al*, 1989,p.32; Newton, 1955b,p.142; Papenfuss, 1968,p.41; Verheij & Rein, 1993,p.431

= *Hormophysa triquetra* (C. Ag.) Kutzing : Borgesen, 1939,p.96

Loc.distr.: Bandar Lengeh

Borgesen (1939) in his report from Iranian Gulf recorded the species from Arabian regions of the Gulf.

SARGASSACEAE

Sargassum angustifolium C. Agardh

Al-Hassan & Jones, 1989,p.298; Basson, 1979a,p.59; Basson, 1992,p.221; Borgesen, 1939,p.100(as *S. flexile* Greville); Endlicher & Diesing 1845,p.268; Jones, 1986; Newton, 1955a,p.101 &, 1955b,p.142; Papenfuss, 1968,p.43; Loc.distr.: Bandar Charak and Qeshm Island.

Nizamuddin & Gessner (1970) reported the species from Iran.

Sargassum boveanum J. Agardh

Al-Hassan & Jones, 1989,p.97; Basson, 1979a,p.59; Basson *et al*, 1989,p.32; Borgesen, 1939,p.97; Basson, 1992,p.222; Jones, 1986; Newton, 1955b,p.142; Nizamuddin & Gessner, 1970,p.7; Papenfuss, 1968,p.45;

Loc.distr.: Qeshm Island.

* **Sargassum fluitans (Borgesen) Borgesen**

Basson, 1992,p.222; Kamel, 1981; Taylor, 1957,p.198; Taylor, 1960,p.281; Taylor, 1964,p.164;

Loc.distr.: Qeshm Island.

* **Sargassum latifolium (Turner) C. Agardh**

Basson, 1979a,p.60; Basson *et al*, 1989,p.32;

Basson, 1992,p.222; Papenfuss, 1968,p.52

Loc.distr.: Qeshm Island.

Sargassum vulgare C. Agardh

Basson, 1992a,p.222; Endlicher & Diesing 1845; Islam, 1976,p.47; Lawson & John, 1987,p.142; Rao & Sreeramulu, 1970, p.33; Richardson, 1975,p.106; Steentoft, 1967,p.120; Taylor, 1960,p.242; Taylor, 1966,p.163;

Loc.distr.: Qeshm Island, Bandar Lengeh
Endlicher & Diesing (1845) recorded the species from Iran (Kharck Island).

Turbinaria conoides (J. Ag) Kütz.var. conoides Taylor

Basson, 1979a,p.60; Borton 1891,p.512; Taylor, 1960; Taylor, 1964,p.480; Verheij & Rein, 1993,p.434

Loc.distr.: Qeshm Island and Larak Island

The species recently recorded from Iranian seashores (Shorabipour & Rabii, 1996, p.102).

RHODOPHYTA

GONIOTRICHACEAE

Chroodactylon ornatum (C. Ag.) Basson

Al-Hassan & Jones, 1989, p.299; Basson, 1979b, p.67; Basson, 1992, p.227; Basson *et al.*, 1989, p.34; Boudouresque *et al.*, 1984, p.43; Lawson & John, 1987, p.147; Mozzam & Shameel, 1985, p.145 = *Asterocystis ornata* (C. Ag.) Hamel : Borgesen, 1939, p.102; Levring, 1951, p.460; Newton, 1955a, p.101; Newton, 1955b, p.142

Loc.distr.: ephyphyt on *Laurencia* spp. & *Hypnea* spp.

The species had been recorded as *Asterocystis ornata* from seashores of Iran by Borgesen (1939).

* **Stylonema alisidii (Zanardini) Drew**

Ballesteros, 1991, p.19; Boudouresque *et al.*, 1984, p.43;

Lawson & John, 1987, p.147; Lawson *et al.*, 1990, p.167;

= *Goniotrichum alisidii* (Zan.) Howe : Abbott & Hollenberg, 1976, p.231; Mozzam & Shameel, 1985, p.144; Papenfuss, 1968, p.68; Taylor, 1957, p.202;

= *G.elegans* (Chauh) Lejolis : Levring, 1951, p.461

Loc.distr.: Qeshm Island (epiphyt on other algae).

ERYTHROPELTIDACEAE

Erythrocladia irregularis Rosenvinge

Basson, 1979b, p.67; Basson *et al.*,

1989, p.34; Basson, 1992, p.224; Lawson & John, 1987, p.148; Gabarye *et al.*, 1980b, p.154; Mozzam & Shameel, 1985, p.146; Heerebout, 1968, p.141; Rao & Sreeramulu, 1970, p.33

= *Erythrocladia subintegra* Rosen.: Abbott & Hollenberg, 1976, p.248; Anand, 1943, p.5; Boudouresque *et al.*, 1984; Islam, 1976, p.49; Taylor, 1960, p.290; Taylor, 1966, p.166

Loc.distr.: Qeshm Island (epiphyt on other macro algae).

Borgesen (1939) recorded the species from Iran as *Erythrocladia subintegra* Rosenvinge.

Erythrotrichia carnea (Dillwyn) Agradh

Abbott & Hollenberg, 1976, p.286; Al-Hassan & Jones, 1989, p.300; Basson, 1979b, p.67; Basson *et al.*, 1989, p.35; Basson, 1992, p.224; Ballesteros, 1991, p.18; Borgesen, 1939, p.101; Borgesen, 1934, p.113; Gabarye *et al.*, 1980b, p.156; Islam, 1976, p.49; Lawson & John, 1987, p.149; Levring, 1951, p.462; Mozzam & Shameel, 1985, p.147; Papenfuss, 1968, p.68; Taylor, 1957, p.202; Taylor, 1960, p.292; Taylor, 1966, p.166; Whyne, 1995, p.262

Loc.distr.: Qeshm Island

The species recorded from Iranian seashores by Borgesen (1939).

ACROCHAETIACEAE

Audouinella Saviana (Meneghini) Woelkerling

Millar, 1990, p.299; Lawson & John, 1987, p.157

= *Acrochaetium savianum* Meneghini : Basson, 1979b, p.69; Basson, 1992, p.224;

Boudouresque *et al.*, 1984

Loc.distr.: Qeshm Island.

GALAXAURACEAE

Galaxaura lapidscens (Ellis et Solander)

Lamx.

Levring, 1951,p.513; Papenfuss, 1968,p.72; Taylor, 1960,p.337; Taylor, 1966,p.167

= *Galaxaura flagelliformis* (Kjell.) emend.Borgesen: Borgesen, 1939,p.104; Loc.distr.: Qeshm Island.

The species had been recorded as *G. flagelliformis* from Iran by Borgesen (1939).

* **Galaxaura rugosa (Ellis et Solander)**

Lamx.

Lawson & John, 1987,p.166; Levring, 1951,p.513; Papenfuss, 1968,p.72; Steentoft, 1967,p.123; Taylor, 1960,p.340; Taylor, 1966,p.167; Verheij & Rein, 1993,p.440; Wynne, 1995,p.264.

Loc.distr.: Larak Island and Qeshm Island.

* **Scinaia tsingalensis Tseng**

Levring, 1951,pp.509-510; Huisman, 1986,pp.282-284.

Loc.distr.: Qeshm Island and Bandar Jask.

GELIDIACEAE

Gelidiella acerosa (Forsk.) J. Feldmann et Hamel

Basson, 1992,p.225; Basson *et al.*, 1989,p.35; Borgesen, 1939,p.107; Hatta & Rein, 1991,p.351; Lawson & John, 1987,p.179; N'yeurt, 1996,p.408; Papenfuss, 1968,p.73; Price & Scott, 1992,pp.28-29; Steentoft, 1967,p.124; Richardson, 1975,p.112; Taylor, 1960,p.351; Taylor, 1966,p.169; Verheij & Rein, 1993,p.454; Wynne, 1995,p.266;

Loc.distr.: Qeshm Island, Bandar Charak, Bandar Kong. The species recorded from Iran by Borgesen (1939).

* **Gelidium chilensis (Montagne) Stantlices & Montalva**

Santlices & Montalva, 1983,pp.187-190; Loc.distr.: Qeshm Island and Farur Island

* **Gelidium pusillum (Stakhous) Lejolis**

Al-Hassan & Jones, 1989,p.301; Anand, 1943,p.11; Basson, 1992,p.225; Borgesen, 1939,p.105; Boudouresque *et al.*, 1984,p.44; Hatta & Rein, 1991,p.364; Islam, 1976,pp.52-53; Lawson & John, 1987,p.175; Lawson *et al.*, 1990,p.163; MacKain, 1984; N'yeurt, 1996,p.410; Godeh *et al.*, 1992,p.17; Papenfus, 1963,p.74; Rao & Sreeramulu, 1970,p.36; Rao *et al.*, 1994,p.44; Renfrewet *et al.*, 1988,p.3311; Richardson, 1975,p.113; Taylor, 1960,p.354; Taylor, 1966,p.169
Loc.distr.: Hormoz Island, Qeshm Island and Larak Island .

borgesen (1939) recorded the species from Iranian seashores .

CONRALINACEAE

* **Amphiroa fragilissima (Linn.) Lamx.**

Anand, 1943,p.19; Basson, 1979b,p.69; Basson, 1992,p.225; Borgesen, 1934,p.7; Heiba *et al.*, 1990; Jagtap, 1992,p.57; Islam, 1976,pp.53-54; Papenfuss, 1968,p.76; Rao & Sreeramulu, 1970,p.38; Richardson, 1975,p.117; Rao *et al.*, 1994,p.44; Price & Scott, 1992,pp.45-47; Taylor, 1960,p.403;

Taylor, 1966,p.172; Wynne, 1995,p.270
Loc.distr.: Qeshm Island and Larak Island

* **Amphiroa sp.**

Loc.distr.: Qeshm Island .

Hydrolithon farinosum (Lamx.) Penrose et Chamberlain

N'yeurt, 1996,p412; Penrose & Chamberlain, 1993,pp.295-303;

= Fosliella farinosa (Lamx.) Howe : Basson, 1979b,p.70; Basson, 1992,p.225; Basson *et al*, 1989,p.35; Ballesteros, 1991,p.17; Jones, 1986; Lawson & John, 1987,p.205; MacCain, 1984; Rao & Sreeramulu, 1970,p.38; Taylor, 1957,p.252; Taylor, 1960,p.338

= Melobsia farinosa Lamx. : Borgesen, 1939,pp.108-109; Boudouresque, 1984,p.46; Endlicher & Diesing 1945,p.269; Newton, 1955a., 1955b; Wilks & Woelkerlin, 1991,p.528
Loc.distr.: Farur Island, Qeshm Island and Bandar Jask.

Borgesen (1939) recorded the species as Melobsia forinosa and Basson (1992) listed as Fosliella farinosa but Cahmberlain (1993) described Hydrolithon farinsoum (Lamx) Penrose & Chamberlian as new combination .

* **Jania adhaerens Lamx.**

Abbott & Hollenberg, 1976,p.418; Anand, 1943,p.19; Godeh *et al*, 1992,p.17; Islam, 1976,p.53; Lawson & John, 1987,p.202; N'yeurt, 1996,p.413; Papenfuss, 1968,p.77; Price & Scott, 1992,pp.48-49; Steentoft, 1967,p.127; Taylor, 1960,p.413; Taylor, 1966,p.172; Wynne, 1995,p.270
Loc.distr.: Qeshm Island, Larak Island, Bandar lengeh and Hengam Island

Jania rubens (Linn.) Lamx

Basson, 1979b,p.70; Basson, 1992,p.25;

Basson *et al*, 1989,p.107; Borgesen, 1934,p.7; Borgesen, 1939,p.107; Godeh *et al*, 1992,p.17; Johansen & Womersley, 1994,p.607; Lawson & John, 1987,p.204; N'yeurt, 1996,p.413; Papenfuss, 1968,p.78; Rao & Sreeramulu, 1970,p.38; Rao *et al*, 1994,p.44; Steentoft, 1967,p.124; Taylor, 1960,p.413
Loc.distr.: Qeshm Island, Larak Island and Bandar lengeh .

The species was recorded from Iran by Borgesen (1939).

GERACILARIACEAE

Garcilaria corticata (J. Ag.) J. Agardh

Al-Hassan & Jones, 1989,p302; Anand, 1943,pp.57-58; Basson, 1992,p.225; Borgesen, 1939,p.110; Jagtap, 1992,p.57; Nizamuddin & Gessner, 1970,p.9; Rao & Sreeramulu, 1970,p.38; Rao *et al*, 1994,p.44

Loc.distr.: Qeshm Island, Hormoz Island and Bandar Gavbndy

The species had been recorded by Boruesen (1939) from Iran.

Garcilaria canaliculata Sonder

Papenfuss, 1968,p.86; Withell *et al*, 1994,pp.301-302; Wynne, 1995,p.281;
Loc.distr.: Qeshm Island, Abumousa Island and Bandar lengeh.

Garcilaria foliifers (Forsk.) Borgesen

Al-Hassan & Jones, 1989,p.302; Basson, 1992,p.225; Borgesen, 1939,p.109; Dawson, 1956,p.177; Nizamuddin & Gessner, 1970,p.9; Papenfuss, 1968,p.86; Richardson, 1975,p.122; Taylor, 1957,p.273; Taylor, 1960,p.446; Taylor, 1966,p.176
Loc.distr.: Hormoz Island, Abumousa Island, Bandar lengeh and Qeshm Island.

The species had been recorded from Iranian by Borgesen (1939) and Nizamuddin & Gessner (1970).

Garcilaria salicornia (C. Ag.) Dawson
Al-Hassan & Jones, 1989,p302; Basson, 1992,p.225; Jagtap, 1992,p.57; Verheij & Rein, 1993,p.458; Withell *et al*, 1994,pp.297-301; Wynne, 1995,p.281
= *Coralopsis cacalia* J.Ag.: Borgesen, 1939,p.110
= *Gracilaria cacalia* (J.Ag.) Dawson : Papenfuss, 1968,p.85

Loc.distr.: Qeshm Island

The species had been recorded as *Coralopsis cacalia* from Iranian seashores by Borgesen (1939).

* **Gracilariopsis longissima (S. G. Gmelin) Steentoft *et al*, 1995**

Steentoft *et al*, 1995,p.117

= *Gracilaria verrucosa* (Huds.) Papenfuss : Abbott & Hollenberg, 1976,p.500; Dawson, 1956,p.42; Gargiulo *et al*, 1992,p.71; Godeh *et al*, 1992,p.17; Lawson *et al*, 1990,p.166; Lawson & John, 1987,p.227; Millar, 1990,p.339; Papenfuss, 1968,p.87; Richardson, 1975,p.121; Steentoft, 1967,p.133; Taylor, 1957,p.273; Taylor, 1960,p.441; Taylor, 1966,p.173; Verheij & Rein, 1993,p.459 .

Loc.distr.: Bandar Gavbandy .

SOLIERIACEAE

Sarconema filiforme (Sonder) Kylin
Anand, 1943,p.52; Basson *et al*, 1989,p.35; Borgesen, 1934,p.11; Millar, 1990,p.346; Papenfuss, 1968,p.87
= *Sarconema furcellatum* Zanardini : Anand, 1943,p.49; Borgesen, 1932,p.126;

Borgesen, 1934,p.10; Borgesen, 1939,p.111; Islam, 1976,p.55; Papenfuss, 1968,p.83

= *Sarconema furcatum* Borgesen : Anand, 1943,p.52; Borgesen, 1934,p.13
Loc.distr.: Qeshm Island, Larak Island and Bandar lengeh

Borgesen (1939) recorded the species as *S. furcellatum* form Iran but based on Millar report (1990) *S. Furcellatum*, *S. Furcatum* and *S. Montageni* are synonymized *S. Filiform*.

* **Solieria anastomosa Gabrielson & Kraft.**

Gabrielson & Kraft, 1984,pp.222-225;
Loc.distr.: Qeshm Island.

* **Solieria filiformis (Kütz.) Gabrielson.**
Gabrielson, 1985,p.278; Lawson & John, 1987,p.235 .

= *Neogardhiella baileyi* (Kütz.) Wynne et Taylor : Abbott & Hollenberg, 1976,p.483
Loc.distr.: Qeshm Island and Bandar Abbas.

* **Solieria roubsta (Greville) Kylin**
Al-Hassan & Jones, 1989,p302; Borgesen, 1934,p.10; Gabrielson & Kraft, 1984,pp.219-222; Millar, 1990,p.345; Srinivasan, 1969,p.15 .

Loc.distr.: Qeshm Island .

GIGARTINACEAE

* **Gigartina acicularis (Roth) Lamx.**
Boudouresque *et al*, 1984,p.44; Lawson & John, 1987,p.233; Rao & Sreeramulu, 1970,p.39; Millar, 1990,p.358; Taylor, 1960,p.473 .

Loc.distr.: Qeshm Island .

FURCELLARIACEAE

- * **Furcellaria fastigiata (Hods.) Lamx.**
Anand, 1943,p.44; Taylor, 1957,p.271
Loc.distr.: Qeshm Island.

HYPNIACEAE

- * **Hypnea cervicornis J.Agardh**
Dawson, 1956,p.62; Lawson & John,
1987,p.237; Price & Scott, 1992,pp.35-38;
Jagtap, 1992,p.57; Richardson,
1975,p.124; Steentoft, 1967,p.133; Taylor,
1960,p.466; Taylor, 1966,p.178
Loc.distr.: Abumousa Island and Qeshm
Island.

- * **Hypnea cornuta (Kutz.) J.Agardh**
Al-Hassan & Jones, 1989,p.302; Basson,
1979b,p.70; Basson *et al*, 1989,p.35; Daw-
son, 1956,p.62; Nizamuddin & Gessner,
1970,p.10; Papenfuss, 1968,p.88; Taylor,
1960,p.467; Wynne, 1995,p.274
Loc.distr.: Bandar Abbas, Bandar Charak
and Qeshm Island.

- * **Hypnea flageliformis Greville ex
J.Agardh**
Lawson & John, 1987,p.238
Loc.distr.: Bandar Abbas

- * **Hypnea musciformis (Wulfen) Lamx.**
Anand, 1943,p.59; Borgesen, 1939,p.112;
Borgesen, 1934,p.17; Dawson, 1956,p.61;
Godeh *et al*, 1992,p.17; Islam, 1976,p.55;
Lawson & John, 1987,p.240; Lawson *et
al*, 1990,p.163; Nizamuddin & Gessner,
1970,p.9; Papenfuss, 1968,p.89; Rao &
Sreeramulu, 1970,p.39; Richardson,
1975,p.124; Verheij & Rein, 1993,p.462;
Steentoft, 1968,p.133; Taylor, 1957,p.271;
Taylor, 1960,p.467; Taylor, 1964,p.178
Loc.distr.: Hormoz Island and Qeshm Is-
land

The species had been recorded by Borge-
sen (1939) from Iran.

- * **Hypnea pannosa J.Agardh**
Borgesen, 1939,p.112; Islam, 1976,p.55;
Price & Scott, 1992,p.38-40; Verheij &
Rein, 1993,p.462; Wynne, 1995,p.274
Loc.distr.: Hengam Island
Borgesen (1939) recorded the species from
Iran.

- * **Hypnea spinella (C.Ag.) Kutz.**
Lawson & John, 1987,p.242; Millar,
1990,p.352; Papenfuss, 1968,p.89; Price &
Scott, 1992,pp.40-45; Richardson,
1975,p.124; Verheij & Rein, 1993,p.462;
Steentoft, 1967,p.134; Taylor, 1960,p.465;
Taylor, 1966,p.178; Wynne, 1995,p.276
Loc.distr.: Qeshm Island

- * **Hypnea valentia (Turner) Montagne**
Anand, 1943,p.60; Basson, 1979b,p.70;
Basson *et al*, 1989,p.35; Borgesen,
1939,p.112; Borgesen, 1934,p.17; Borge-
sen, 1939,p.113; Lawson & John,
1987,p.242; Papenfuss, 1968,p.89; Rao *et
al*, 1994,p.44; Wynne, 1995,p.277
Loc.distr.: Larak Island and Qeshm Island
The species had been recorded from Iran
by Borgesen (1939).

RHODYMENIACEAE

- * **Botryocladia liptopoda (J.Ag) Kylin**
Anand, 1943,pp.60-61; Borgesen,
1939,p.113; Brodie & Guiry, 1988,p.127;
Millar, 1990,p.363; Papenfuss, 1968,p.90
Loc.distr.: Qeshm Island
Borgesen (1939) recorded the species
from Pakistan seashores and for Iranian
seashores of Persian Gulf is new record.

Rhodymenia sp.

Loc.distr.: Qeshm Island and Larak Island

LOMENTARIACEAE

Lomntaria corallicola Borgesen

Borgesen, 1939,pp.113-117; Millar, 1990,p.373; Price & Scott, 1992,pp.63-66; Wynne, 1995,p.285

Loc.distr.: Bandar Abbas .

The species had been recorded as new species from Iran by Borgesen (1939).

*** Lomntaria baileyana (Hrvey) Forlow**

Dawson, 1956,p.99; Taylor, 1960,p.487; Taylor, 1957,p.287; Taylor, 1966,p.179

Loc.distr.: Farur Island

*** Lomntaria sp.**

Loc.distr.: Qeshm Island

Cartilaginous and fragile structure of samples resemble to *L. baileyana* but arched branches and connected point between branches not observed .

CHAMPIACEAE

*** Champia compressa Harvey var. scindica (Harvey) Borgesen .**

Anand, 1943,p.66; Borgesen, 1931,p.117; Millar, 1990,p.371

Loc.distr.: Bandar Jask .

*** Champia globulifera Borgesen**

Anand, 1943,p.69; Basson *et al*, 1989,p.36; Wynne, 1995,p.285

Loc.distr.: Qeshm Island

*** Champia indica Borgesen**

Al-Hassan & Jones, 1976,p302; Wynne, 1995,p.285

Loc.distr.: Qeshm Island

*** Champia parvula (C. Agardh) Harvey**

Abbott & Hollenberg, 1976,p.565; Al-Hassan & Jones, 1989,p303; Anand, 1943,p.67; Borgesen, 1939,p.116; Boudouresque *et al*, 1984,p.45; Borgesen, 1933,p.122; Dawson, 1956,p.94; Islam, 1976,p.57; Lawson & John, 1987,p.251; Millar, 1990,p.371; N'yeurt, 1996,p.417; Nizamuddin & Gessner, 1970,p.10; Newton, 1955a,p.101; Price & Scott, 1992,p.55; Steentoft, 1967,p.134; Taylor, 1957,p.289; Taylor, 1960,p.490; Taylor, 1966,p.17; Verheij & Rein, 1993,p.467; Wynne, 1995,p.283

Loc.distr.: Qeshm Island

Borgesen (1939) recorded the species from Iran.

DELESSERIACEAE

*** Platysiphonia miniata (J. Ag.) Borgesen**

Lawson & John, 1987,p.294; Lawson *et al*, 1990,p.163; Millar, 1990,p.429

Loc.distr.: Larak Island

*** Taenioma nanum (Kutz.) Papenfuss**

Lawson & John, 1987,p.296; Price & Scott, 1992,pp.146; Taylor, 1966,p.182; Wynne, 1995,p.301

Loc.distr.: Qeshm Island

DASYACEAE

*** Dasya bailloviana (S. G. Gemelin) Montagne**

Basson, 1992,p.226; Verheij & Rein, 1993,p.442

= *Dasya pedicellata* C.Ag. : Basson, 1979b,p.75; Basson *et al*, 1989,p.38; Boudouresque *et al*, 1984,p.48; Dawson, 1956,p.50; Islam, 1976,p.62; Taylor,

1967,p.326; Taylor, 1960,p.562; Taylor,
1964,p.182

Loc.distr.: Qeshm Island and Larak Island

* **Pogondophorella sp.**

Abbott & Hollenberg, 1976,p.678

Loc.distr.: Qeshm Island and Larak Island

CERAMIACEAE

Anotrichium tenue (C. Ag) Nageli

Basson, 1992,p.226; Basson *et al*,
1989,p.36; Millar, 1990,p.407; Price &
Scott, 1992,p.67

= Griffithsia tenuis (Harvey) C. Ag. : Al-
Hassan & Jones, 1989,p.303; Borgesen,
1939,p.117; Borgesen, 1931,p.11; Papen-
fuss, 1968,p.94; Taylor, 1957,p.304; Tay-
lor, 1966,p.180

Loc.distr.: Larak Island (epyphyt on Ga-
laxaura sp.)

The species had been recorded as Griffith-
sia tenuis C. Ag. from Iran by Borgesen
(1939).

Calilthamnion cordatum Borgesen

Nizamuddin & Gessner, 1970,p.11; Price
& Scott, 1992,p.75; Taylor, 1960,p.507
= Aglaothamnion cordatum (Borg.) Feld-
man-Mazoyer : Abbott & Hollenberg,
1976,p.616; Basson, 1992,p.226; Rao &
Sreeramulu, 1970,p.41; Taylor,
1964,p.180

Loc.distr.: Hormoz Island

Nizamuddin & Gessner (1970) reported
the species from Iran.

* **Centroceras apiculatum Yamada**

N'yeurt, 1996,p.420; Price & Scott,
1992,pp.79-81

Loc.distr.: Bandar Lengeh, Hormoz Island
and Bandar Jask

* **Centroceras bellum Stechel & Gard-
ner**

Lawson & John, 1987,p.267

Loc.distr.: Hormoz Island and Abumousa
Island

* **Centroceras clavulatum (C. Ag.)
Montagne**

Abbott & Hollenberg, 1976,p.604; Anand,
1943,p.25; Al-Hassan & Jones,
1989,p.303; Basson *et al*, 1989,p.36; Bas-
son, 1979b,p.72; Borgesen, 1939,p.118;
Basson, 1992,p.226; Borgesen, 1934,p.18;
Chamberlain, 1965,p.227; Dawson,
1956,p.74; Godeh *et al*, 1992,p.16; Islam,
1976,p.59; N'yeurt, 1996,p.421; Millar,
1990,p.390; Nizamuddin & Gessner,
1970,p.11; Papenfuss, 1968,p.92; Rao &
Sreeramulu, 1970,p.42; Rao *et al*,
1994,p.44; Richardson, 1957,p.127; Steen-
toft, 1967,p.135; Taylor, 1960,p.537; Tay-
lor, 1964,p.181

Loc.distr.: Qeshm Island, Hormoz Island
and Bandar Jask

The species had been recorded from Iran
by Borgesen (1939).

**Ceramium fastigiatum (Wulfen ex
Roth) Hrvy.**

Basson, 1979b,p.72; Basson *et al*,
1989,p.36; Basson, 1992,p.226; Boudou-
resque *et al*, 1984,p.48; Islam, 1976,p.59;
Lawson & John, 1987,p.274; Nizamuddin
& Gessner, 1970,p.10; Taylor,
1957,p.309; Taylor, 1960,p.526; Taylor,
1966,p.180

Loc.distr.: Qeshm Island

Nizamuddin & Gessner (, 1970) recorded
the species from Iran.

Ceramium flaccidum (Harvey ex Kutzing) Adrisson

Lawson & John, 1990,p.165; Lawson & John, 1987,p.270; Millar, 1990,p.395; Price & Scott, 1992,pp.89; Wynne, 1995,p.292

= *Ceramium transversale* Collins et Harvey : Basson, 1979b,p.75; Basson *et al*, 1989,p.36; Nizamuddin & Gessner, 1970,p.10

= *C. masonii* Dawson ; Al-Hassan & Jones, 1970,p.303

Loc.distr.: Qeshm Island, Hormoz Island and Bandar Abbas

The species had been previously reported as *C. transversal* from Iran by Nizamuddin & Gessner (1970)

* **Ceramium manrensis Anand**

Anand, 1943,p.28

Loc.distr.: Bandar Jask.

* **Crounia attenuata (C. Ag.) J. Agradh**

Basson *et al*, 1989,p.36; Basson, 1992,p.226; Boudouresque *et al*, 1984,p.48; Papenfuss, 1968,p.94; Price & Scott, 1992,p.117; Taylor, 1966,p.179; Wollaston, 1984,p.295

Loc.distr.: Qeshm Island.

Spyridia filamentosa (Wulfen) Harvey

Abbott & Hollenberg, 1976,p.608; Al-Hassan & Jones, 1989,p.303; Basson, 1979b,p.75; Basson *et al*, 1989,p.36; Basson, 1992,p.226; Boudouresque *et al*, 1984,p.50; Godeh *et al*, 1992,p.19; Lawson & John, 1987,p.282; Papenfuss, 1968,p.95; Price & Scott, 1992,pp.131; Taylor, 1957,p.317; Taylor, 1960,p.539; Taylor, 1966,p.181; Verheij & Rein, 1993,p.442; Richardson,

1975,p.128; Wynne, 1995,p.301
Loc.distr.: Qeshm Island, Bandar Lengeh, Larak Island

Borgesen (1939) recorded the species from Iranian seashores.

RHODOMELACEAE

* **Acanthophora muscoides (Linn.) Bory de Saint-Vincent**

Al-Hassan & Jones, 1989,p.304; Dawson, 1956,p.62; Lawson & John, 1987,p.297; Richardson, 1975,p.134; Steentoft, 1967,p.136; Taylor, 1964,p.186; Verheij & Rein, 1993,p.443

Loc.distr.: Hengam Island, Qeshm Island and Hormoz Island

Acanthophora spicifera (Vahl) Borgesen

Anand, 1943,p.37; Al-Hassan & Jones, 1989,p.304; Basson, 1979b,p.78; Basson *et al*, 1989,p.38; Abbas *et al*, 1992,p.63; Basson & Abbas, 1992,p.60; Nizamuddin & Gessner, 1970,p.13; Rao & Sreeramulu, 1970,p.43; Rao *et al*, 1992,p.57; Richardson, 1975,p.134; Taylor, 1964,p.186; Verheij & Rein, 1993,p.444; Wynne, 1995,p.301

Loc.distr.: Qeshm Island, Bandar Charak, Hengam Island and Larak Island
Nizamuddin & Gessner (1970) recorded the species from Iranian seashores

* **Chondria bernardii Dangeard**

Lawson & John, 1987,p.307

Loc.distr.: Qeshm Island and Larak Island

* **Chondria cornuta Borgesen**

Anand, 1943,p.36; Basson *et al*, 1989,p.38; Borgesen, 1932,p.130; Rao & Sreeramulu, 1970,p.43

Loc.distr.: Qeshm Island and Hormoz Island

Chondria dasyphylla (Woodward) C. Agardh

Abbott & Hollenberg, 1976,p.726; Anand, 1943,p.35; Al-Hassan & Jones, 1989,p.305; Basson, 1979b,p.78; Basson *et al*, 1989,p.38; Abbas *et al*, 1992,p.63; Basson & Abbas, 1992,p.60; Borgesen, 1992,p.121; Borgesen, 1934,p.133; Borgesen, 1932,p.132; Bodouresque *et al*, 1984,p.48; Newton, 1955a,p.101; Newton, 1955b,p.143; N'yeurt, 1996,p.430; Taylor, 1957,p.329; Verheij & Rein, 1993,p.444

Loc.distr.: Qeshm Island and Hormoz Island Borgesen (1939) recorded the species from Iranian seashores .

* **Chondria nidifica Harvey**

Abbott & Hollenberg, 1976,p.726

Loc.distr.: Bandar Jask

* **Chondria oppositoclada Dawson**

Abbott & Hollenberg, 1976,p.727; Godeh *et al*, 1992,p.16

Loc.distr.: Qeshm Island

Digenia simplex (Wulfen) C. Agradh

Al-Hassan & Jones, 1989,p.305; Borgesen, 1939,p.121; Dawson, 1956,p.54; Godeh *et al*, 1992,p.17; Lawson & John, 1987,p.310; Newton, 1955b,p.143; Papenfuss, 1968,p.98; Rao *et al*, 1992,p.57; Taylor, 1966,p.184 &, 1955b,p.143

Loc.distr.: Qeshm Island and Bandar Lengeh

The species had been recorded from Iranian seashores by Borgesen (1939).

Horpsiphonia secunda (C. Ag .) Falkenberg

Abbott & Hollenberg, 1976,p.720; Basson *et al*, 1989,p.38; Borgesen, 1939,p.131 (as *Herpsiphonia tenella* (C. Ag.) Nagl); N'yeurt, 1996,p.431; Lawson & John, 1987,p.314; Millar, 1990,p.451; Price & Scott, 1992,p.175; Rao & Sreeramulu, 1970,p.43; Verheij & Rein, 1993,p.445; Wynne, 1995,p.307

Loc.distr.: Hormoz Island and Bandar Kong

The species had been recorded as *H. tenella* from Iran seashores by Borgesen (1939).

Laurencia papillosa (C. Ag.) Greville

Al-Hassan & Jones, 1989,p.305; Basson *et al*, 1989,p.38; Abbas *et al*, 1992,p.63; Basson & Abbas, 1992,p.60; Borgesen, 1939,p.118; Boudouresque *et al*, 1984,p.49; Godeh *et al*, 1992,p.18; Lawson & John, 1987,p.320; Papenfuss, 1968,p.99; Price & Scott, 1992,p.188; Rao *et al*, 1992,p.57; Richardson, 1975,p.135; Taylor, 1964,p.186; Verheij & Rein, 1993,p.447; Wynne, 1995,p.312

Loc.distr.: Bandar Lengeh, Bandar Abbas and Bandar Jask.

* **Laurencia pedicularioides Borgesen**

Borgesen, 1933,p.136; Srinivasan, 1969
Loc.distr.: Bandar Jask and Qeshm Island

* **Laurencia intricata Lamx.**

Godeh *et al*, 1992,p.18; Lawson & John, 1987,p.318; Taylor, 1966,p.178
Loc.distr.: Qeshm Island.

* **Laurencia snyderiae Dawson**

Abbott & Hollenberg, 1976,p.738

Loc.distr.: Qeshm Island, Bandar Abbas, Larak Island and Bandar Lengeh and Qeshm Island.

Leveillea jungermanniioides (Hering et Martens) Harvey

Basson, 1979b,p.79; Basson *et al*, 1989,p.38; Borgesen, 1939,p.132; Papenfuss, 1968,p.100; Price & Scott, 1992,p.196; Verheij & Rein, 1993,p.448; Wynne, 1995,p.315

Loc.distr.: Qeshm Island, Hormoz Island, Bandar Lengeh and Bandar Charak. The species had been recorded from Iran by Borgesen(1939).

Polysiphonia scopulorum Harvey var.villum (C. Ag.) Hollenberg

Abbott & Hollenberg, 1976,p.692; Basson *et al*, 1989,p.39; Basson, 1979b (as *loposiphonia villum*); Boudouresque *et al*, 1984 (as *P. scopulorum*); Chamberlain, 1951,p.231 (as *loposiphonia scopulorum* (Harv.) Womersley); N'yeurt, 1996,p.433; Millar, 1990,p.445; Price & Scott, 1992,p.211; Womersley, 1979,p.467
Loc.distr.: Hormoz Island .

* **Polysiphonia variegata (C. Ag.) Zanardini**

Anand, 1943,p.39; Al-Hassan & Jones, 1989,p.305; Basson, 1979b,p.79; Basson *et al*, 1989,p.39; Borgesen, 1934,p.26; Nizamuddin & Gessner, 1970,p.13; Zahid *et al*, 1981,pp.198-200 .

Loc.distr.: Qeshm Island and Hegam Island
Nizamuddin & Gessner (1970) recorded the species from Iran.

Tolypocladia glomerulata (C. Ag.)

Schmitz

Islam, 1976,p.65; Price & Scott, 1992,pp.219; Rao *et al*, 1992,p.57; Verheij & Rein, 1993,p.449; Wynne, 1995,p.321 = *Rochera glomerulata* : Borgesen, 1931,p.17; Nizamuddin & Gessner, 1970,p.13

Loc.distr.: Qeshm Island, Larak Island and Abumousa Island

Nizamuddin & Gessner (1970) recorded the species as *Roschera glomerulata*.

XANTHOPHYTA

NITZSHIACEAE

Nitzschia martiana (C. Ag.) Van Huerck

Basson & Mohamed, 1985,pp.253-257
Egyphyton on other algae

The species recently recorded from Iranian seashores of the Gulf. (Sohrabipour & Rabbii, 1996,p.102)

THALASSIOSIRACEAE

* **Stephanopyxis palmeriana (Grev.) Grnow**

Bold *et al*, 1987,p.149

TABELARIACEAE

* **Tabelaria flocculosa (Roth) Kutzing**

Koppen, 1975,pp.236-244

Egyphyton on other algae.

CYANOPHYCEAE

NOSTOCACEAE

* **Calothrix scopulorum (Weber et Mohr) C. Ag. ex Borner et Flahant**

Islam, 1976,p.74

OSILATORIACEAE

* *Microcoleus lyngbyaceus* Kutzing

Lawson & John, 1987,p.341

Spirolina subsalsa Orested ex Gomount

Moghadam, 1974,p.81; Anand, 1937,p.163; Lawson & John, 1987,p.348

DISCUSSION :

The present work recorded 150 species of marine algae from Hormozgan province seashores in south of Iran. 94 species the algae are new records for Iran and 63 are new records for the Persian Gulf. The species are Chlorophyta 36 species (27 new for Iran and 20 new for Gulf), Phaeophyta 33 species (18 new for Iran and 8 new for Gulf), Rhodophyta 75 species (44 new for Iran and 32 new for Gulf), Xanthophyta 3 species (all new for Iran and 2 new for Gulf), and Cyanophyt 3 species (2 new for Iran and 1 new for Gulf), Comparision of the results wiht Basson checklist (1992) show 63 species are new Gulf, therefore 207 species in Basson checklist increasing to 270 species (Table 1). Camparing of the results with other authors is shown in table 2 which show about two time increasing to Borgesn report from Iranian seashores (1939). 16 species of the new the algae were preciously published (Sohrabipour & Rabii, 1996).

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