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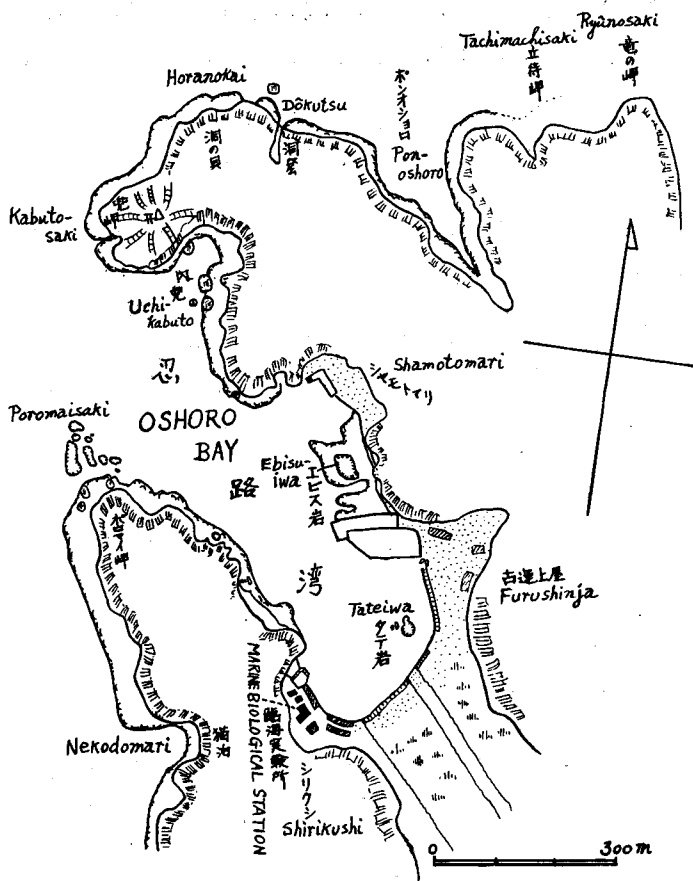
A LIST OF MARINE ALGAE COLLECTED IN THE VICINITY OF
OSHORU MARINE BIOLOGICAL STATION, AT OSHORO, HOKKAIDO, JAPAN

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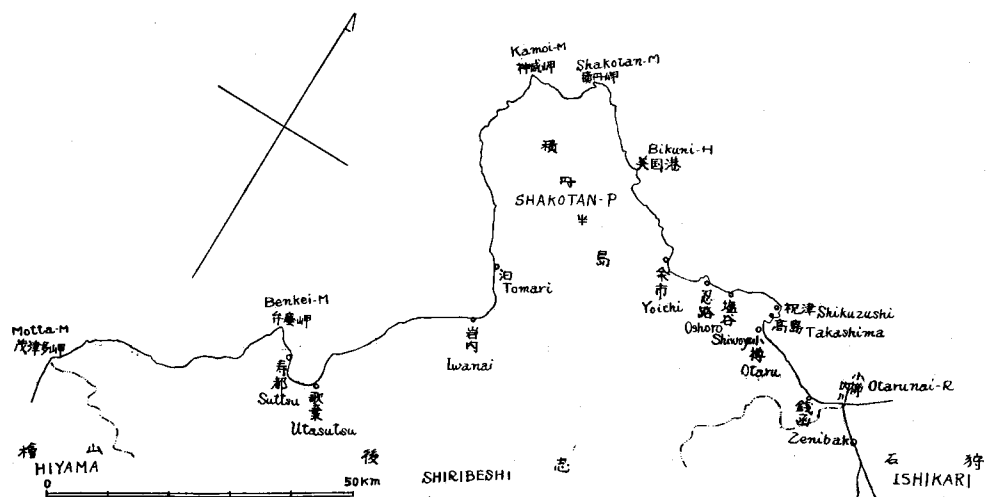
The Oshoro Marine Biological Station was established in 1908 on the innermost beach of Oshoro Bay, ca. 14.5 km west of Otaru Harbour, on the Japan Sea coast of Hokkaido. This Station is now attached to the Faculty of Fisheries, Hokkaido University. It takes about 15 minutes on foot descending a slope from the bus-stop "Oshoro" of the Chûô Bus Line between the railway stations of Otaru and Yoichi. The Bay is small but rich in variations of habitats, and biological collections are possible even in more or less rough weather. Accordingly the Station has been visited by many biologists and is used recently very often in summer months for the biological training of the students from not only Hokkaido University but also other colleges and high schools. Consequently, the marine organisms in the vicinity of the Station have hitherto been collected and investigated to a considerable extent. Nevertheless, a comprehensive work on the Fauna or Flora of the sea in the neighbourhood of the Station has never been published to date. As for the marine algae in this sea area, Dr. K. Yendo reported here and there in a number of his papers the results of his researches carried out while he had been frequently visiting the Station from Sapporo, and Dr. K. Inagaki (1933, 1935) and Mr. I. Umezaki (1956) have published their reports on the red algae and the blue-green algae respectively. The present writers also reported some results of their observations on a few species.

Here the writers present a list of the marine algae hitherto reported in the literature to have been collected in the vicinity of Oshoro with the addition of those collected by the writers themselves, only in the hope that it will be of some help for the collectors of research materials and be one step to a comprehensive report on the Flora to be written by someone in future. Taking this opportunity the writers wish to pay their respect to the authors of the cited works, and to thank Mr. Tamejirô Yamazaki, Mr. Tamezô Yamazaki and Mr. Kazurô Shinta, for their kind assistance in various ways while the writers were staying at the Station.

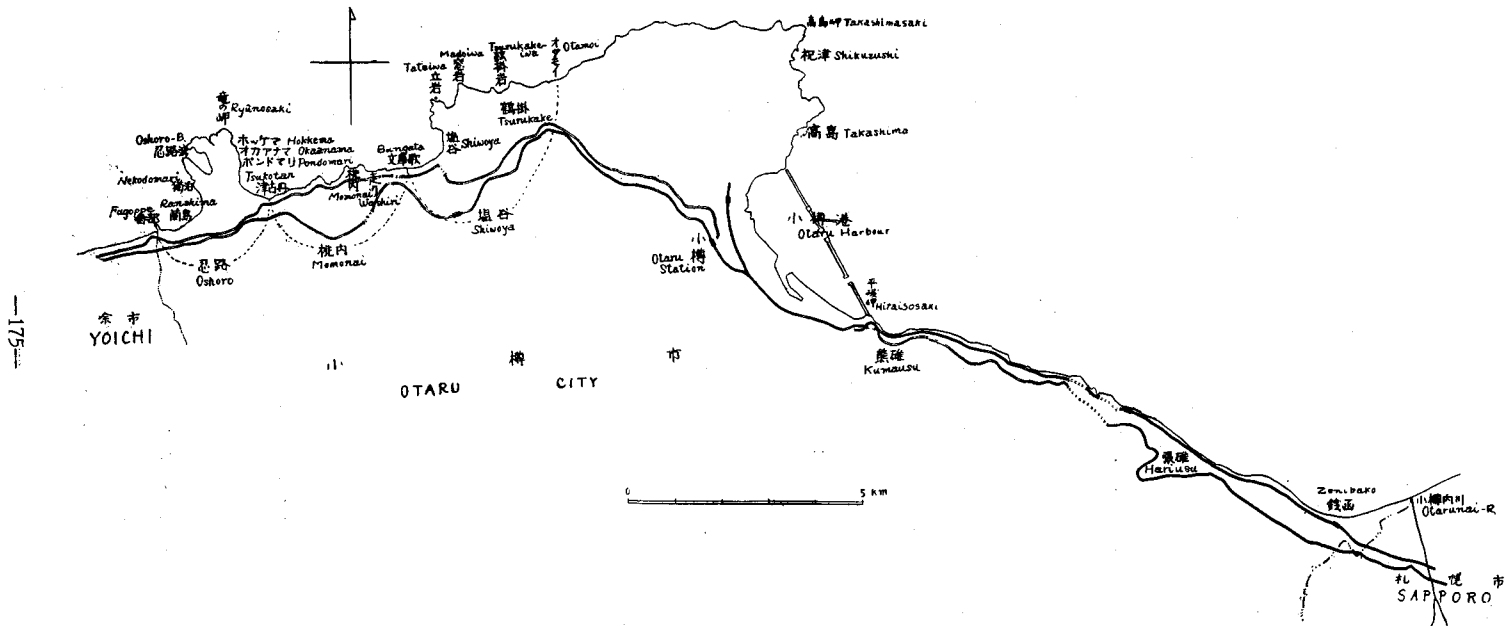
In the present list are enumerated 129 genera and 208 species of seaweeds, including 13 genera and 23 species of Chlorophyceae, 30 genera and 40 species of Phaeophyceae, 69 genera and 114 species of Rhodophyceae, and 17 genera and 31 species of Cyanophyceae. One genus and one species of Sea Grasses is added at the end of the list. Under each species name are given the names of the collecting places (Oshoro and vicinity, or else, only those within Shiribeshi Province), and next come in parentheses the authors' names, years, and pages. Habitat is noted only in case of epiphytic, epizoic, and parasitic species. The accompanying maps show the places of the localities concerned.



Map 1. Oshoro Bay and adjacent coast-line



Map 2. Coast-line of Shiribeshi Province which lies between Motta-Misaki (point) and Otarunai River



Map 3. Coast-line of Otaru City which lies between Fugoppe (point) and Otarunai River

CHLOROPHYCEAE 緑藻綱

Ulotrichales ヒビミドロ目

Ulotrichaceae ヒビミドロ科

1. *Ulothrix flacca* THURET ヒビミドロ

Oshoro (Inagaki 1933, p. 3-4, as "Ushikenori-Hibimidoro association").

Cladophoraceae シオグサ科

2. *Urospora penicilliformis* ARESCHOUG シリオミドロ

Oshoro (!), Otaru (Yendo 1915, p. 101; Okamura 1936, p. 71).

3. *Cladophora glaucescens* (GRIFFITHS) HARVEY ヘイイロシオグサ

Oshoro (Okamura 1936, p. 55).

4. *Chaetomorpha moniligera* KJELLMAN タマジユズモ

Oshoro (!), Otaru (Okamura 1936, p. 66).

5. *Chaetomorpha crassa* (AGARDH) KUETZING ホソジュズモ

Pon-osshoro (Umezaki 1956, p. 84, as a host of an epiphytic blue-green alga).

6. *Chaetomorpha aerea* (DILLWYN) KUETZING タルガタジュズモ

Oshoro (Okamura 1936, p. 66).

7. *Spongomorpha arcta* KUETZING マリモツレ

Otaru (Yendo 1915, p. 102; Okamura 1936, p. 73).

8. *Spongomorpha saxatilis* (RUPRECHT) COLLINS イワモツレグサ

Oshoro (Yendo 1916, p. 245; Okamura 1936, p. 73).

Ulvaceae アオサ科

9. *Ulva pertusa* KJELLMAN アナアオサ, アオサ

Oshoro (!). Very common along both coasts of Japan (Okamura 1920, p. 79, 81; 1936, p. 8).

10. *Enteromorpha intestinalis* (LINNAEUS) LINK ボウアオノリ

Oshoro (!).

11. *Enteromorpha Linza* (L.) J. AGARDH ウスバアオノリ

Oshoro (!). Widely distributed (Okamura 1915, p. 163, 167; 1936, p. 15).

12. *Enteromorpha prolifera* (MUELLER) J. AGARDH スジアオノリ

Oshoro (!).

13. *Blidingia minima* (NAEGELI) KYLIN コツバアオノリSyn. *Enteromorpha minima* NAEGELI; *E. nana* (SOMMERFELT) SJÖSTEDT var. *minima* (NAEG.) SJÖST.; *E. micrococca* KUETZING.

Oshoro (!).

Monostromaceae ヒトエグサ科

14. *Monostroma angicava* KJELLMAN エゾヒトエグサ

Oshoro (Yamada 1932, p. 109; Okamura 1936, p. 23).

15. **Monostroma pulchrum** FARLOW ヒダヒトエ
Oshoro (Tokida 1954, p. 60, as *Monostroma undulatum* WITTROCK var. *Farlowii* FOSLIE*),
Otaru (Yendo 1917, p. 186; Okamura 1936, p. 25).
16. **Monostroma fuscum** WITTROCK クロヒトエグサ
Otaru (Yendo 1917, p. 187; Okamura 1936, p. 27).
17. **Monostroma Grevillei** (THUR.) WIT. var. **VahlII** (J. AG.) ROSENV.
ウスヒトエグサの1品種
Otaru (Yendo 1917, p. 188, as *Monostroma VahlII* J. Ag.; Okamura 1936, p. 23).
18. **Monostroma zostericola** TILDEN モツキヒトエ
Oshoro (!). Epiphytic on the leaves of *Phyllospadix iwatensis*.

Chlorococcales タマミドリ目 (新称)

Chlorochytriaceae ツボミドリ科 (新称)

19. **Gomontia polyrhiza** (LAGERHEIM) BORNET et FLAHAULT

カイミドリ (新称)

Otaru (Yendo 1914, p. 266). In shells.

Siphonales ミル目

Chaetosiphonaceae トゲミドリ科 (新称)

20. **Blastophysa rhizopus** REINKE アワミドリ

Oshoro (Tokida & Masaki 1948, p. 14). Endophytic on various red algae.

Bryopsidaceae ヘネモ科

21. **Bryopsis hypnoides** LAMOUROUX オバナヘネモ

Oshoro (Yendo 1915, p. 103; Okamura 1936, p. 90).

Codiaceae ミル科

22. **Codium fragile** (SURINGAR) HARIOT ミルOshoro (!). Common along both coasts of Japan (Okamura 1914, p. 117, 118, as *Codium mucronatum* J. Ag. var. *Californicum* J. Ag.; 1936, p. 123).23. **Codium dichotomum** (HUDSON) SETCHELL イモセミルOshoro (Okamura 1936, p. 122, as *Codium tomentosum* (HUDSON) STACKHOUSE).

PHAEOPHYCEAE 褐藻綱

Ectocarpales シオミドロ目

Ectocarpaceae シオミドロ科

* Tokida's identification was done at that time on the basis of the fact that the Japanese plant seemed to agree more closely with the description of that species than with that of *M. pulchrum*, both given by Taylor (1937, p. 71 and p. 73). However, comparing the description recently given by Taylor (1957, p. 72) to the latter species with that given to *M. oxyspermum* (Kütz.) Dotz. which includes *M. undulatum* var. *Farlowii*, the writers here follow the traditional identification.

24. **Ectocarpus siliculosus** DILLWYN f. **varians** KUCKUCK シオミドロの1品種
Oshoro (!). Otaru (Yendo 1917, p. 201; Okamura 1936, p. 138).

25. **Sorocarpus uvaeformis** (LYNGBYE) PRINGSHEIM イソブドゥ
Oshoro (Okamura 1936, p.141). Epiphytic on *Polysiphonia Morrowii*.

Lithodermataceae イワハダ科 (新称)

26. **Ralfsia fungiformis** (GUNNERUS) SETCHELL et GARDNER イソガワラ
Oshoro (Yendo 1909, p. 123, as *Ralfsia deusta* J. Ag.; Okamura 1936, p. 143).

Sphacelariales クロガシラ目

Sphacelariaceae クロガシラ科

27. **Sphacelaria subfusca** SETCHELL et GARDNER ミツマタクロガシラ
Oshoro (!).

28. **Sphacelaria variabilis** SAUVAGEAU マタザキクロガシラ
Oshoro (!).

Chordariales ナガマツモ目

Elachistaceae ナミマクラ科

29. **Halothrix ambigua** YAMADA ソメワケグサ
Oshoro (Okamura 1936, p. 148). Epiphytic on *Phyllospadix iwatensis*.

30. **Gonodia Sargassi** (YENDO) SETCH. et GARDN. ゴノケノリ
Otaru (Yendo 1920, p. 3, as *Myriactis Sargassi* YENDO).

31. **Elachista taeniaeformis** YAMADA ヒルナミマクラ
Oshoro (!). Epiphytic on *Sargassum Horneri*.

Leathesiaceae ネバリモ科

32. **Leathesia difformis** (L.) ARESCH. f. **difformis** INAGAKI ネバリモの1品種
Oshoro (Inagaki 1958, p. 103). Epiphytic on *Rhodomela Larix*.

33. **Leathesia yezoensis** INAGAKI コツブネバリモ
Oshoro (Yendo 1916, p. 250, as *Leathesia umbellata* MENECHINI). Hariusu (Inagaki 1958, p. 119). Epiphytic on *Sargassum Kjellmanianum*.

Chordariaceae ナガマツモ科

34. **Heterochordaria abietina** (RUPR.) SETCH. et GARDN. f. **abietina** INAGAKI
マツモの1品種
Oshoro (Inagaki 1958, p. 168).

35. **Chordaria flagelliformis** AGARDH ナガマツモ
Nearly all along the coasts of Hokkaido, though rather rare in the southern regions (Yamada & Kinoshita, 1950, p. 3).

36. **Sphaerotrichia divaricata** (AGARDH) KYLIN f. **divaricata** INAGAKI
イシモヅク, クサモヅク

Syn. *Sphaerotrichia japonica* KYLIN

Oshoro (Inagaki 1954, p. 11, as f. *typica* INAGAKI; 1958, p. 148).

36a. *Sphaerotrichia divaricata* f. *epiphytica* INAGAKI ヤセモヅク

Tomari, Shiwoya (Inagaki 1954, p. 12; 1958, p. 149). Epiphytic on *Sargassum confusum*, *Rhodomela Larix*, and *Phyllospadix iwatensis*.

37. *Papenfussiella kuromo* (YENDO) INAGAKI f. *kuromo* INAGAKI

Syn. *Myriocladia kuromo* Yendo

Oshoro, Hariusu (Inagaki 1958, p. 129).

Acrothricaceae = セモヅク科

38. *Acrothrix pacifica* OKAMURA et YAMADA f. *pacifica* INAGAKI

= セモヅクの 1 品種

Oshoro (Inagaki 1954, p. 6; 1958, p. 179). Epiphytic on *Chorda Filum*.

Desmarestiales ウルシグサ目

Desmarestiaceae ウルシグサ科

39. *Desmarestia viridis* (MUELLER) LAMOUROUX ケウルシグサ

Oshoro (!).

40. *Desmarestia ligulata* (LIGHTFOOT) LAMOUROUX ウルシグサ

Oshoro (Inagaki 1933, p. 5).

Dictyosiphonales ウイキョウモ目

Punctariaceae ハバモドキ科

41. *Punctaria latifolia* GREVILLE ハバモドキ

Pon-osoro (!).

Scytosiphonaceae カヤモノリ科

42. *Scytosiphon lomentaria* (LYNGBYE) J. AGARDH カヤモノリ

Oshoro (Inagaki 1933, p. 5). Common along both coasts of Japan (Okamura 1903, p. 144, 146; 1936, p. 228).

43. *Colpomenia sinuosa* (ROTH) DERBES et SOLIER フクロノリ

Oshoro (!). Widely distributed (Okamura 1907, p. 86, 88; 1936, p. 230). On rocks, stones, and branches of *Sargassum*.

44. *Colpomenia bullosa* (SAUNDERS) YAMADA ワタモ

Oshoro (Okamura 1936, p. 231, as *Colpomenia sinuosa* f. *deformans* SETCH. et GARDN.).

45. *Ilea fascia* (MUELLER) FRIES セイヨウハバノリ

Oshoro (!). Otaru (Yendo 1909, p. 122, as *Phyllitis Fascia* (MUELLER) KUEZING; Okamura 1936, p. 234).

Coilodesmaceae エゾブクロ科

46. *Coilodesme japonica* YAMADA エゾブクロ

Widely distributed in Hokkaido, epiphytic on Fucales, especially on *Cystoseira hakodatensis* (Yamada & Kinoshita 1949, p. 3).

Dictyosiphonaceae ウイキョウモ科

47. *Dictyosiphon foeniculaceus* (HUDSON) GREVILLE ウイキョウモ

Oshoro (Inagaki 1933, p. 4). Epiphytic on *Sargassum confusum*.

Laminariales コンブ目

Chordaceae ツルモ科

48. *Chorda Filum* (L.) LAMOUROUX ツルモ

Oshoro (Inagaki 1958, p. 179).

Laminariaceae コンブ科

49. *Laminaria religiosa* MIYABE ホソメコンブ

Oshoro (Inagaki 1933, p. 5; Okamura 1936, p. 286). Shiribeshi (Miyabe 1902, p. 32).

50. *Laminaria cichorioides* MIYABE ナヂミコンブ

Oshoro (Inagaki 1933, p. 5; Okamura 1936, p. 286). Shiribeshi (Miyabe 1902, p. 34). Western coast of Hokkaido (Okamura 1925, p. 86, 94).

51. *Costaria costata* (TURNER) SAUNDERS スジメ

Oshoro (Inagaki 1933, p. 5; Okamura 1936, p. 259). Whole coasts of Hokkaido (Miyabe 1902, p. 50, as *Costaria Turneri* GREV.; Okamura 1925, p. 99, 108).

52. *Undaria pinnatifida* (HARVEY) SURINGAR f. *distans* MIYABE et OKAMURA

ナンブワカメ

Oshoro (Inagaki 1933, p. 5). Otaru (Okamura 1936, p. 300). Western coast of Hokkaido (Miyabe 1902, p. 57, as *Undaria distans* MIYABE et OKAMURA; Okamura 1926, p. 118, 127).

53. *Agarum cribrosum* BORY アナメ

Nearly all along the coasts of Hokkaido (Yamada & Kinoshita 1949, p.4).

Dictyotales アミジグサ目

Dictyotaceae アミジグサ科

54. *Dictyota dichotoma* (HUDSON) LAMOUROUX アミジグサ

Oshoro (!). Japan Sea coast as far north as Rishiri (Okamura 1936, p. 160).

55. *Dictyopteris divaricata* (OKAMURA) OKAMURA エゾヤハズ

Oshoro (Tokida & al. 1953, p. 149). Japan Sea coast of Hokkaido (Nagai 1940, p. 42).

Fucales ヒバマタ目

Sargassaceae ホンダワラ科

56. **Sargassum Thunbergii** (MERTENS) O. KUNTZE f. **typicum** YENDO
ウミトラノオ
Oshoro (!). Raiden, Bikuni, Shikuzushi, Temiya (Yendo 1907, p. 115). Japan Sea coast
(Okamura 1936, p. 338).
- 56a. **Sargassum Thunbergii** f. **nipponicum** YENDO ウミトラノオの1品種
Japan Sea coast (Yendo 1907, p. 115; Okamura 1936, p. 338).
- 56b. **Sargassum Thunbergii** f. **Swartzii** OKAMURA オオトラノオ
Takashima (Yendo 1907, p. 119, as *Sargassum Swartzianum* YENDO). Shiribeshi (Okamura
1936, p. 338).
57. **Sargassum confusum** AGARDH フシスジモク
Oshoro (!). Bikuni, Takashima, Shikuzushi, Temiya, Otaru (Yendo 1907, p. 106). Shiwoya
(Inagaki 1958, p. 149, as a host of *Sphaerotrichia*).
- 57a. **Sargassum confusum** f. **validum** YENDO フシスジモクの一品種
Ishikari Province (Yendo 1907, p. 108).
58. **Sargassum Horneri** AGARDH アカモク
Oshoro (!). Otaru (Yendo 1907, p. 74). Widely distributed (Okamura 1923, p. 3, 15;
1936, p. 328).
59. **Sargassum Kjellmanianum** YENDO ハハキモク
Oshoro (Yendo 1916, p. 250, as a host of *Leathesia umbellata*). Yoichi, Takashima (Yendo
1907, p. 102). Common along both coasts (Okamura 1924, p. 45, 58; 1936, p. 339).
60. **Sargassum Miyabei** YENDO ミヤベモク
Oshoro (!). Zenibako (Yendo 1907, p. 112). Shiribeshi (Okamura 1936, p. 340).
61. **Sargassum sagamianum** YENDO var. **yezoense** YAMADA エゾノネジモク
Oshoro (!). Shiribeshi & Ishikari (Kinoshita & al. 1947, p. 8; Yamada & al. 1950, p. 8).
62. **Cystoseira hakodatensis** (YENDO) FENSHOLT ウガノモク
Oshoro (!), Yoichi, Shikuzushi, Takashima, Zenibako (Yendo 1907, p. 32, as *Cystophyllum
hakodatense* YENDO). Along both coasts of Hokkaido (Okamura, 1924, p. 43, 57; 1936, p.
308, *ditto*).
63. **Coccolophora Langsdorfii** (TURNER) GREVILLE スギモク
Shiribeshi & Ishikari (Kinoshita & al. 1947, p. 8).

RHODOPHYCEAE 紅藻綱

Bangioideae ウシケノリ亜綱

Porphyridiales チノリモ目

Porphyridiaceae チノリモ科

64. **Goniotrichum Alsidii** (ZANARDINI) HOWE ベニミドロ
Oshoro (Inagaki 1933, p. 12; Yendo 1915, p. 105, as *Goniotrichum elegans* LE JOLIS).

Oshoro, Suttu (Tanaka 1952, p. 6). Widely distributed (Okamura 1936, p. 369). Epiphytic on *Cladophora*, *Sphacelaria*, *Zostera*, etc.

Bangiales ウシケノリ目

Bangiaceae ウシケノリ科

65. **Erythrotrichia carnea** (DILLW.) J. AGARDH ホシノイト
Oshoro, Suttu (Tanaka 1952, p. 15).
66. **Erythrotrichia incrassata** TANAKA イソリボン
Suttu (Tanaka 1944, p. 89, 1952, p. 19). Epiphytic on *Grateloupia filicina*.
67. **Erythrotrichia japonica** TOKIDA ホシノオビ
Suttu (Tanaka 1952, p. 20).
68. **Erythrotrichia reflexa** (CROUAN) THURET ユミガタホシノオビ
Oshoro (Tanaka 1944, p. 87). Oshoro, Suttu (Tanaka 1952, p. 17). Epiphytic on *Sphacelaria*, *Rhodomela Larix*, etc.
69. **Erythrocladia subintegra** ROSENVINGE イソハナビ
Oshoro (Inagaki 1933, p. 9; 1935, p. 41; Okamura 1936, p. 371). Oshoro, Suttu (Tanaka 1952, p. 75). Epiphytic on *Cladophora*, *Polysiphonia Morrowii*, *Chondria crassicaulis*, etc.
70. **Colaonema simplex** INAGAKI ベニマユダマ
Shiwoya (Inagaki 1935, p. 44; Okamura 1936, p. 372), Suttu, Shiwoya, Otaru (Tanaka 1952, p. 80). Epiphytic on *Bonnemaisonia hamifera*.
71. **Porphyropsis coccinea** (J. AG.) ROSENVINGE ヒナノリ
Oshoro* (Inagaki 1933, p. 13; 1935, p. 42; Okamura 1936, p. 373). Suttu, Shiwoya, Otaru (Tanaka 1952, p. 79). Epiphytic on *Sargassum*, *Gelidium*, etc.
72. **Bangia fusco-purpurea** (DILLWYN) LYNGBYE ウシケノリ
Oshoro (Inagaki 1933, p. 11). Common along both coasts of Japan (Okamura 1921, p. 87, 89; 1936, p. 377; Tanaka 1952, p. 24).
73. **Bangia gloiopeltidicola** TANAKA フノリウシゲ
Oshoro, Suttu (Tanaka 1952, p. 24).
74. **Porphyra pseudolinearis** UEDA ウップルイノリ
Oshoro (Inagaki 1933, p. 15). Otaru (Yendo 1915, p. 106, as *Porphyra linearis* GREVILLE). On both coasts of Hokkaido (Ueda 1932, p. 29; Okamura 1936, p. 387).
75. **Porphyra yezoensis** UEDA スサビノリ
Oshoro (Inagaki 1933, p. 15). Utasutsu, Takashima, Otaru (Ueda 1932, p. 23). Otaru

* "Oshoro" is used here as a collective name (cf. Map 3) including "Tsukotan" which was given by Inagaki as the locality of this species. Other locality names such as "Nekodomari," "Ryūnosaki," etc. which were mentioned by Inagaki elsewhere are also included in "Oshoro" in this paper. The same is the case with "Shiwoya" (cf. Map 3). The only exception is "Pon-osshoro," a small arm of the sea, which was exclusively surveyed by Umezaki (1956).

(Okamura 1936, p. 385). Western coast of Hokkaido (Tanaka 1952, p. 39). Epiphytic on *Gelidium*, *Chondrus armatus*, or on stones.

75a. *Porphyra yezoensis* f. *Kinositai* YAMADA et TANAKA ウタスツノリ
Utasutsu (Tanaka 1952, p. 41).

76. *Porphyra Onoi* UEDA オオノノリ
Oshoro (Inagaki 1933, p. 16). Otaru (Yendo 1909, p. 126, as *Porphyra miniata* (Ag.) Ag. f. *amplissima* (KJELLM.) ROSENV.). On both coasts of Hokkaido (Ueda 1932, p. 34; Okamura 1936, p. 389). Epiphytic on *Rhodoglossum pulchrum*.

77. *Porphyra Okamurai* UEDA クロノリ
Oshoro, Sutttsu (Tanaka 1952, p. 28).

78. *Porphyra crassa* UEDA アツバアマノリ
Sutttsu (Tanaka 1952, p. 55).

79. *Porphyra variegata* (KJELLM.) HUS フイリタサ
Oshoro, Sutttsu (Tanaka 1952, p. 68).

FLORIDEAE 真正紅藻亜綱

Nemalionales ウミゾウメン目

Chantransiaceae シャントランシア科

80. *Rhodochorton subimmersum* SETCHELL et GARDNER
Oshoro (!). Sutttsu (Tanaka 1944, p. 89, as *Rhodochorton* sp.). Epiphytic on *Grateloupia divaricata*, *G. filicina*)

Helminthocladiaceae ベニモヅク科

81. *Nemalion vermiculare* SURINGAR ウミゾウメン
Oshoro (Inagaki 1933, p. 16, as *Nemalion helminthoides* (VELLEY) BATTERS). Pon-oshoro (Umezaki 1956, p. 86). Otaru (Okamura 1916, p. 28, 29; 1936, p. 413).

Gelidiales テングサ目

Gelidiaceae テングサ科

82. *Gelidium Amansii* LAMOUROUX テングサ, マクサ
Oshoro (Inagaki 1933, p. 20, as *Gelidium Amansii* KUEZING). Western coast of Hokkaido (Okamura 1913, p. 25, 27; 1934, p. 52; 1935, p. 45, 49; 1936, p. 458).

82a. *Gelidium Amansii* f. *typicum* OKAMURA テングサ, マクサ
Western coast of Hokkaido (Okamura 1934, p. 55; 1935, p. 46, 51; 1936, p. 460).

82b. *Gelidium Amansii* f. *elegans* OKAMURA テングサ, マクサ
Oshoro (Inagaki 1933, p. 20, as *Gelidium elegans* KUEZING). Western coast of Hokkaido (Okamura 1934, p. 56; 1935, p. 46, 51; 1936, p. 461).

83. *Gelidium subfastigiatum* OKAMURA ナンプクサ

- Oshoro (Inagaki 1933, p. 20). Western coast of Hokkaido (Okamura 1934, p. 57; 1935, p. (51), 57; 1936, p. 462).
84. **Gelidium vagum** OKAMURA ヨレクサ, ヨレプト
Oshoro, Zenibako (Inagaki 1933, p. 21). Takashima (Okamura 1934, p. 58; 1935, p. (50), 56). Western coast of Hokkaido (Okamura 1936, p. 463).
85. **Pterocladia tenuis** OKAMURA オバクサ
Oshoro (Inagaki 1933, p. 21, as *Pterocladia capillacea* (GMELIN) BARNETT et THURET).
Western coast of Hokkaido (Okamura 1934, p. 62; 1935, p. (55), 61; 1936, p. 467).

Cryptonemiales カクレイト目

Dumontiaceae リュウモンソウ科

86. **Dumontia incrassata** (Flora Danica) LAMOUROUX リュウモンソウ
Hariusu (Inagaki 1933, p. 26, as *Dumontia filiformis* (Flora Danica) GREVILLE; Okamura 1936, p. 475, *ditto*).
87. **Dumontia simplex** COTTON ヘラリュウモン
Oshoro, Shiwoya (Inagaki 1933, p. 27). Otaru (Okamura 1928, p. 182, 193; 1936, p. 476).
88. **Hyalosiphonia caespitosa** OKAMURA イソウメモドキ
Oshoro (Inagaki 1933, p. 27; Okamura 1936, p. 478).
89. **Neodilsea Yendoana** TOKIDA アカバ
Oshoro (Inagaki 1933, p. 28, as *Dilsea edulis* STACKHOUSE; Tokida 1943, p. 93). Otaru (Yendo 1909, p. 133, as *Dilsea edulis* STACK.; Okamura 1921, p. 115, 124; 1936, p. 483, *ditto*).

Squamariaceae イワノカワ科

90. **Rhododermis Georgii** (BATTERS) COLLINS var. **fucicola** TOKIDA
モツキフチトリベニ (新称)
Oshoro (Tokida 1934, p. 196; Okamura 1936, p. 495). Epiphytic on *Rhodoglossum pulchrum* and other several red algae.
91. **Rhododermis elegans** CROUAN ウスフチトリベニ (新称)
Oshoro (Yendo 1915, p. 116; Okamura 1936, p. 495). Epiphytic on *Rhodymenia palmata*.
92. **Peyssonelia** sp. イワノカワ属1種
Oshoro (Inagaki 1933, p. 47).
93. **Hildenbrandtia yessoensis** YENDO (?) エゾベニマグラ (新称)
Oshoro (Inagaki 1933, p. 3, 4, 7, as *Hildenbrandtia* sp.). Hokkaido (Yendo 1920, p. 11; Okamura 1936, p. 496).

Corallinaceae サンゴモ科

94. **Lithothamnion fretense** FOSLIE カイフオコシ (新称)
Oshoro (Okamura 1936, p. 504).

95. **Melobesia zostericola** FOSLIE モカサ
Syn. *Heteroderma zostericola* FOSLIE
Oshoro (!). Epiphytic on *Phyllospadix iwatensis*.
96. **Goniolithon mamillare** FOSLIE イボイシモ (新称)
Otaru (Yendo 1916a, p. 126, as *Lithothamnion mamillare* ARRSCHOUG; Okamura 1936, p. 508).
97. **Lithophyllum Okamurai** FOSLIE ヒライボ
Oshoro (!).
98. **Lithophyllum Yendoi** FOSLIE ウミサビ
Otaru (Yendo 1916a, p. 130; Okamura 1936, p. 513).
99. **Lithophyllum yessoense** FOSLIE エゾウミサビ (新称)
Shiribeshi (Yendo 1916a, p. 130; Okamura 1936, p. 514).
100. **Dermatolithon tumidulum** FOSLIE ノリマキ
Syn. *Lithophyllum tumidulum* FOSLIE
Oshoro (!). Epiphytic on *Gelidium*.
101. **Dermatolithon Corallinae** (CROUAN) FOSLIE ヒメゴロモ (新称)
Oshoro (!). Epiphytic on *Corallina pilurifera*.
102. **Pachyarthron cretaceum** (POST. et RUPR.) MANZA イソキリ
Oshoro (!). Widely distributed in Hokkaido (Yendo 1902, p. 7; 1916a, p. 135; Okamura 1936, p. 521. As *Amphiroa cretacea* ENDLICHERR).
103. **Corallina pilurifera** POST. et RUPR. f. **sororia** RUPRECHT ピリヒバの1品種
Oshoro (!). Hariusu (Umezaki 1956, p. 89, as *Corallina pilurifera*). Shiribeshi (Yendo 1909, p. 30; 1916a, p. 138; Okamura 1936, p. 527).

Grateloupiaceae ムカデノリ科

104. **Grateloupia filicina** (WULFEN) AGARDH ムカデノリ
Oshoro (Inagaki 1933, p. 25).
105. **Grateloupia Okamurai** YAMADA キョウノヒモ
Syn. *Grateloupia lanci folia* (HARVEY) OKAMURA
Oshoro (!).
106. **Grateloupia divaricata** OKAMURA カタノリ
Oshoro (Inagaki 1933, p. 24).
107. **Grateloupia turuturu** YAMADA ツルツル
Oshoro (!). Otaru (Yamada 1941, p. 205).
108. **Grateloupia livida** (HARVEY) YAMADA ヒラムカデ
Oshoro (!).
109. **Pachymeniopsis Yendoi** YAMADA アカハダ
Oshoro (Inagaki 1933, p. 26, as *Pachymenia carnos*a J. Ag.).

110. **Carpopeltis affinis** (HARVEY) OKAMURA マツノリ

Oshoro (Okamura 1934, p. (27), 30; 1936, p. 553). Takashima (Inagaki 1933, p. 23, as *Grateloupia affinis* (HARV.) OKAM.). Otaru (Yendo 1918, p. 67, as *Chondrus affinis* HARVEY).

111. **Carpopeltis flabellata** (HOLMES) OKAMURA コメノリ

Oshoro (Inagaki 1933, p. 24, as *Grateloupia flabellata* HOLM.).

Gloiosiphoniaceae イトフノリ科

112. **Gloiosiphonia capillaris** (HUDSON) CARMICHAEL イトフノリ

Oshoro (Inagaki 1933, p. 22; Okamura 1936, p. 558).

Endocladiaaceae フノリ科

113. **Gloiopeltis furcata** POST. et RUPR. f. **coliformis** OKAMURA

フクロフノリの1品種

Oshoro (Inagaki 1933, p. 22; Okamura 1936, p. 562; Miyabe & Tokida 1948, p. 116, as the host of *Guignardia Gloiopeltidis*).

Tichocarpaceae カレキグサ科

114. **Tichocarpus crinitus** (GMELIN) RUPRECHT カレキグサ

Oshoro, Shiwoya (Inagaki 1933, p. 35). Otaru (Okamura 1914, p. 79, 82; 1936, p. 565).

Callymeniaceae ツカサノリ科

115. **Callymenia reniformis** J. AGARDH var. **cuneata** J. AG.

エゾツカサノリ
Otaru (Yendo 1916, p. 257; Okamura 1936, p. 579).

Gigartinales スギノリ目

Nemastomaceae ヒカゲノイト科

116. **Schizymenia Dubyi** (CHAUVIN) J. AGARDH ベニスナゴ

Oshoro, Takashima (Inagaki 1933, p. 38).

Sphaerococcaceae タマミ科

117. **Caulacanthus Okamurai** YAMADA イソダンツウ

Syn. *Endocladia complanata* (non HARVEY) OKAMURA

Oshoro (Inagaki 1933, p. 19; Okamura 1936, p. 620).

Gracilariaceae オゴノリ科

118. **Gracilaria verrucosa** (HUDSON) PAPENFUSS オゴノリ, オゴ

Oshoro (Inagaki 1933, p. 35, as *Gracilaria confervoides* (L.) GREV.; Okamura 1936, p. 628, *ditto*). Widely distributed in Japan (Okamura 1916, p. 1, 2, *ditto*; 1936, p. 628, *ditto*).

119. **Gracilaria Textorii** SURINGAR カバノリ

Oshoro, Pon-osshoro (Inagaki 1933, p. 37; Okamura 1936, p. 632).

Phylloporaceae オキツノリ科

120. **Gymnogongrus flabelliformis** HARVEY オキツノリ
Oshoro (Inagaki 1933, p. 34; Okamura 1936, p. 643).
121. **Ahnfeltia plicata** (HUDSON) FRIES ネットキイタニグサ
Yoichi (Kinoshita 1941, p. 272).

Gigartinaceae スギノリ科

122. **Gigartina tenella** HARVEY スギノリ
Oshoro, Shikuzushi (Inagaki 1933, p. 7, 32; Okamura 1936, p. 650).
123. **Gigartina intermedia** SURINGAR カイノリ
Oshoro (Inagaki 1933, p. 33; Okamura 1936, p. 651).
124. **Gigartina pacifica** KJELLMAN イボノリ
Oshoro, Pon-oshoro (Inagaki 1933, p. 33, as *Gigartina unalaskensis* Rupr.). Otaru (Okamura 1908, p. 165, 166; 1936, p. 652, as *G. unalaskensis*; Yendo 1916, p. 54, *ditto*).
125. **Gigartina ochotensis** RUPRECHT ホソイボノリ
Oshoro, Otaru, Zenibako (Inagaki 1933, p. 34). Oshoro (Okamura 1936, p. 651). Otaru (Yendo 1916, p. 57).
126. **Chondrus ocellatus** HOLMES f. **crispus** OKAMURA ヤハズツノマタ, トチャカ
Oshoro (Inagaki 1933, p. 28).
127. **Chondrus pinnulatus** (HARVEY) OKAMURA ヒラコトジ, ヒラサイミ
Oshoro (Yendo 1913, p. 618, as *Gymnogongrus pinnulatus* HARVEY; Okamura 1936, p. 657). Zenibako (Okamura 1930, p. 19; 1936, p. 657).
128. **Chondrus armatus** (HARVEY) OKAMURA トグツノマタ
Oshoro (Inagaki 1933, p. 29). Iwanai, Takashima (Okamura 1930, p. 21; 1936, p. 657).
129. **Chondrus Yendoi** YAMADA et MIKAMI エゾツノマタ
(通称) クロバ (又はアツバ) ギンナンソウ
Oshoro (Inagaki 1933, p. 30, as *Iridaea laminarioides* BORY; Tokida 1938, p. 2, as *Iridophycus cornucopiae* (POST. et RUPR.) SETCH. et GARDN.). Oshoro, Zenibako (Mikami 1958, p. 82). Otaru (Yendo 1917, p. 80, as *Iridaea laminarioides* var. *laminarioides* J. AG.; Okamura 1936, p. 659, *ditto*). Northern coasts of Japan (Okamura 1936, p. 658, as *Iridaea laminarioides* var. *cornucopiae* J. AG.).
130. **Rhodoglossum pulchrum** (KUETZING) SETCH. et GARDN.
アカバ (又はウスバ) ギンナンソウ
Oshoro (Inagaki 1933, p. 31, as *Iridaea pulchra* KUETZING; Okamura 1936, p. 660, *ditto*; Tokida 1938, p. 2).

Bonnemaisoniales (J. Feldmann, 1952, p. 29). カギケノリ目 (新称)

Bonnemaisoniaceae (Papenfuss, 1955, p. 185-7, placed this family in Nemalionales as in customary systems) カギケノリ科

131. **Bonnemaisonia hamifera** HARIOT カギノリ
Shiwoya (Inagaki 1933, p. 18, as *Asparagopsis hamifera* (HARIOT) OKAMURA). Shikuzushi (Okamura 1936, p. 430, *ditto*). Entangled on the frond of *Sargassum*.
132. **Trailiella intricata** BATTERS (Tetrasporophyte of *Bonnemaisonia hamifera*)
タマノイト (カギノリの四分胞子体)
Oshoro, Shiwoya (Inagaki 1935, p. 42; Okamura 1935, p. 70; 1936, p. 697). Epiphytic on *Gelidium Amansii*, *Ptilota pectinata*, *Heterosiphonia pulchra*, *Symphiodia latiuscula*, etc.

Rhodymeniales ダルス目

Rhodymeniaceae ダルス科

133. **Chrysomenia Wrightii** (HARV.) YAMADA オオタオヤギソウ
Oshoro (Inagaki 1933, p. 43; Okamura 1936, p. 667). Otaru (Yendo 1917, p. 85, as *Chrysomenia Enteromorpha* HARVEY).
134. **Rhodymenia palmata** (L.) GREV. f. **typica** KJELLMAN ダルスの1品種
Oshoro (Inagaki 1933, p. 46; Okamura 1936, p. 674; 1937, p. (67), 76).
- 134a. **Rhodymenia palmata** f. **sarniensis** (MERTENS) J. AG. ダルスの1品種
Oshoro (Inagaki 1933, p. 47, as var. *sarniensis*; Okamura 1937, p. (68), 77).
135. **Rhodymenia pertusa** (POST. et RUPR.) J. AG. アナダルス
Oshoro (Inagaki 1933, p. 46; Okamura 1936, p. 673).
136. **Rhodymenia intricata** (OKAMURA) OKAMURA マサゴシバリ
Syn. *Phyllophora intricata* OKAMURA
Oshoro, Shiwoya (Inagaki 1933, p. 48). Oshoro (Okamura 1936, p. 677).

Champiaceae ワツナギソウ科

137. **Lomentaria catenata** HARVEY フシツナギ
Oshoro (Inagaki 1933, p. 40; Okamura 1936, p. 683).
138. **Lomentaria hakodatensis** YENDO コスジフシツナギ
Oshoro, Shiwoya (Inagaki 1933, p. 41), Otaru (Yendo 1920, p. 6; Okamura 1936, p. 684).
139. **Champia parvula** (AGARDH) J. AGARDH ワツナギソウ
Oshoro (Inagaki 1933, p. 39; Okamura 1936, p. 686). On rocky reefs or epiphytic on *Sargassum*, *Rhodomela Larix*, etc.
140. **Binghamiella californica** (FARLOW) SETCH. et GARDN. カエルデグサ
Shiwoya (Inagaki 1933, p. 43, as *Binghamia californica* FARLOW). Shiwoya, Otaru (Okamura 1936, p. 689, *ditto*).

Ceramiales イギス目

Ceramiaceae イギス科

141. **Antithamnion sparsum** TOKIDA キスイトヨツガサネ
Oshoro (Inagaki 1933, p. 8).

142. **Antithamnion nipponicum** YAMADA et INAGAKI フタツガサネ
Oshoro (Yendo 1916, p. 262, as *Acrothamnion pulchellum* (HARV.) J. AG.; Yamada & Inagaki 1935, p. 38; Okamura 1935, p. (62), 69; 1936, p. 706). Rarely on rocky reefs, usually on *Mytilus*, *Sargassum*, *Gelidium*, etc.
143. **Antithamnion corticatum** TOKIDA ベ = ハネモ
Oshoro (Inagaki 1933, p. 8). Zenibako (!).
144. **Platythamnion yezoense** INAGAKI ヨツバグサ
Oshoro, Zenibako (Inagaki 1935, p. 47). Oshoro (Okamura 1936, p. 709).
145. **Griffithsia japonica** OKAMURA カザシグサ
Suttsu (!). Epizoic on the sheath of *Cerianthus* in a tide-pool.
146. **Ptilota pectinata** (GUNNERUS) KJELLMAN クシベ = ヒバ
Oshoro (Inagaki 1933, p. 7). Otaru (Okamura 1909, p. 235, 237; 1936, p. 728).
- 146a. **Ptilota pectinata** f. **litoralis** KJELLMAN コバノクシベ = ヒバ
Otaru (Okamura 1909, p. 236, 238; 1936, p. 728).
147. **Ceramium paniculatum** OKAMURA ハリイギス
Oshoro (Okamura 1936, p. 737). Epiphytic on *Laurencia glandulifera*, *Chondria crassicaulis*, etc.
148. **Ceramium Kondoi** YENDO (emend. NAKAMURA) コンドウイギス, イギス
Oshoro (!). Otaru (Yendo 1920, p. 9; Okamura 1936, p. 738).
149. **Ceramium Boydenii** GEPP アミクサ, イギス
Oshoro (!). Otaru (Okamura 1909, p. 248, 249; 1936, p. 739). Entangled on *Sargassum*.
150. **Ceramium japonicum** OKAMURA ハネイギス
Oshoro (!). Otaru (Okamura 1914, p. 91, 92; 1936, p. 742). Epiphytic on other algae.
151. **Campylaeophora hypnaeoides** J. AGARDH エゴノリ, エゴ
Syn. *Ceramium Hypnaeoides* (J. AG.) OKAMURA
Oshoro (Inagaki 1933, p. 4, 5, as "Ego"; Nakamura 1950, p. 171, establishing two forms, f. *typica* NAKAMURA and f. *hamata* (COTTON) NAKAMURA). Epiphytic on *Laminaria religiosa*, *Sargassum*.
152. **Microcladia elegans** OKAMURA サエダ
Shiwoya (Okamura 1936, p. 744). Epiphytic on other algae.
153. **Microcladia dentata** OKAMURA コスジサエダ
Shiwoya (Okamura 1936, p. 745). Epiphytic on other algae (?).
- Delesseriaceae コノハノリ科
154. **Branchioglossum nanum** INAGAKI ヒメムラサキ
Oshoro (Inagaki 1935, p. 45; Okamura 1936, p. 760). On rocks and stones, or epiphytic on *Polysiphonia Morrowii*, or epizoic on Compound Ascidian.
155. **Delesseria violacea** (HARVEY) KYLIN スメハノリ
Oshoro, Shiwoya (Inagaki 1933, p. 50, as *Apoglossum violaceum* (HARV.) J. AG.). Iwanai,

Shiwoya (Okamura 1908, p. 147, 150, *ditto*; 1936, p. 769).

156. **Erythroglossum repens** OKAMURA ウスベニ
Oshoro (Inagaki 1933, p. 48).
157. **Phycodrys radicata** (OKAMURA) YAMADA et INAGAKI ヒメコノホノリ
Syn. *Delesseria radicata* OKAMURA
Oshoro (Inagaki 1933, p. 51).
158. **Hypophyllum Middendorffii** (RUPR.) KYLIN ナガコノホノリ
Syn. *Delesseria Middendorffii* RUPRECHT.
Oshoro (Okamura 1936, p. 778). Shiwoya, Hariusu, Zenibako (Inagaki 1933, p. 53).
159. **Acrosorium Yendoi** YAMADA ハイウスバノリ
Oshoro (Inagaki 1933, p. 54). Takashima (Yendo 1918, p. 69, as *Nitophyllum monanthos* J. Ag.; Okamura 1936, p. 786).

Dasyaceae ダジア科

160. **Heterosiphonia pulchra** (OKAMURA) FALKENBERG シマダジア
Syn. *Dasya pulchra* OKAMURA
Oshoro, Shiwoya (Inagaki 1933, p. 67). Otaru (Yendo 1914, p. 277, as *Heterosiphonia subsecunda* FALK. ?). Epiphytic on *Rhodomela Larix*.
161. **Heterosiphonia japonica** YENDO f. **nipponica** YENDO イソハギ
Oshoro, Shiwoya (Inagaki 1933, p. 68). Shiribeshi (Yendo 1920, p. 9; Okamura 1936, p. 801). Epiphytic on *Sargassum Thunbergii*, etc.
162. **Dasya sessilis** YAMADA エナシダジア
Oshoro (Inagaki 1933, p. 70; Okamura 1936, p. 802). Otaru (Yendo 1918, p. 72, as *Dasya punicea* MENEGHINI).
163. **Benzaitenia yenoshimensis** YENDO ベンテンモ
Oshoro (Yendo 1913, p. 283; Okamura, 1936, p. 806). Oshoro, Shiwoya (Inagaki 1933, p. 72). Parasitic on *Chondria crassicaulis*, and *Laurencia*.

Rhodomelaceae フジマツモ科

164. **Polysiphonia urceolata** (LIGHTFOOT) GREVILLE シャウジャウケノリ
Oshoro (Inagaki 1933, p. 62). Otaru (Okamura 1936, p. 824).
165. **Polysiphonia senticulosa** HARVEY ムツイトグサ
Oshoro (Inagaki 1933, p. 60; Okamura 1936, p. 825).
166. **Polysiphonia Morrowii** HARVEY モロイトグサ
Oshoro (Inagaki 1933, p. 59). Oshoro, Zenibako (Segi 1951, p. 244). Zenibako (Okamura 1914, p. 104; 1936, p. 826).
167. **Polysiphonia Yendoi** SEGI エンドゥイトグサ
Oshoro (Yendo 1918, p. 74, as *Polysiphonia fibrata* (DILLWYN) HARVEY; Okamura 1936, p. 828). Oshoro, Yoichi (Segi 1951, p. 211).
168. **Polysiphonia japonica** HARVEY キブリイトグサ

- Oshoro (Inagaki 1933, p. 63; Okamura 1936, p. 830). Oshoro, Otaru, Zenibako (Segi 1951, p. 228). Epiphytic on *Pachimeniopsis Yendoi*, *Grateloupia*, *Chondria*, etc.
- 169. *Polysiphonia Brodiaei*** (DILLWYN) GREVILLE オオイトグサ
Oshoro (Segi 1951, p. 263).
- 170. *Enelittosiphonia hakodatensis*** (YENDO) SEGI マキイトグサ
Oshoro (Inagaki 1933, p. 58, as *Polysiphonia hakodatensis* YENDO). Otaru (Yendo 1920, p. 7; Okamura 1936, p. 835). Epiphytic on *Sargassum Thunbergii*, *Rhodomela Larix*, etc.
- 171. *Chondria crassicaulis*** HARVEY ヌ ナ
Oshoro (Inagaki 1933, p. 58). Otaru (Okamura 1936, p. 844).
- 172. *Laurencia glandulifera*** KUETZING オオソゾ
Oshoro, Shiwoya (Inagaki 1933, p. 57). Widely distributed in Hokkaido (Okamura 1936, p. 858).
- 173. *Laurencia nipponica*** YAMADA ウラソゾ
Oshoro (Inagaki 1933, p. 56; Okamura 1936, p. 855). Pon-osshoro (Umezaki 1956, p. 86).
- 174. *Laurencia obtusa*** LAMOUROUX マギレソゾ
Oshoro, Pon-osshoro (Inagaki 1933, p. 57). Oshoro (Okamura 1936, p. 858).
- 175. *Symphiocladia latiuscula*** (HARVEY) YAMADA イソムラサキ
Oshoro (Inagaki 1933, p. 64, as *Symphiocladia gracilis* (MARTENS) FALKENBERG). Iwanai, Otaru (Okamura 1936, p. 868, *ditto*). Epiphytic on *Sargassum Thunbergii*, *S. confusum*, *Rhodomela Larix*, etc.
- 176. *Rhodomela Larix*** (TURNER) AGARDH フジマツモ
Oshoro (Inagaki 1933, p. 65). From Kuriles to northern Honshû (Okamura 1922, p. 154, 165; 1936, p. 898).
- 177. *Rhodomela subfusca*** (non AGARDH) of Japanese authors イトフジマツ
Oshoro (Inagaki 1933, p. 66). Western coast of Hokkaido (Okamura 1922, p. 151, 162; 1936, p. 899).

CYANOPHYCEAE 藍藻綱

Chroococcales クロオコックス目

Chroococcaceae クロオコックス科

178. *Aphanocapsa littoralis* HANSGIRGPon-osshoro (Umezaki 1956, p. 84). Among colonies of *Lyngbya aestuarii*.**179. *Merismopedia elegans*** A. BRAUN

Pon-osshoro (Umezaki 1956, p. 84). Among other blue-green algae in tide-pools.

Pleurocapsaceae プレウロカプサ科

180. *Xenococcus Cladophorae* (TILDEN) SETCHELL et GARDNERPon-osshoro (Umezaki 1956, p. 84). Epiphytic on *Chaetomorpha crassa*.

181. Xenococcus minimus GEITLERPon-oshoro (Umezaki 1956, p. 84). Epiphytic on *Rhodochorton* sp.**182. Xenococcus pyriformis** SETCH. et GARDN.Pon-oshoro (Umezaki 1956, p. 84). Epiphytic on *Cladophora*.

Chamaesiphonales カメシホン目

Chamaesiphonaceae カメシホン科

183. Entophysalis conferta (KUETZING) DROUET et DAILYPon-oshoro (Umezaki 1956, p. 85). Epiphytic on *Cladophora*.

Oscillatoriales ユレモ目

Rivulariaceae ヒゲモ科

184. Calothrix parasitica (CHAUVIN) THURETPon-oshoro (Umezaki 1956, p. 86). Endophytic on *Nemalion*.**185. Calothrix confervicola** (ROTH) AGARDHPon-Oshoro (Umezaki 1956, p. 86). Epiphytic on *Laurencia nipponica*.**186. Calothrix scopulorum** (WEBER et MOHR) AGARDH

Hariusu (Umezaki 1956, p. 86).

187. Calothrix crustacea THURET

Pon-oshoro (Umezaki 1956, p. 86).

188. Isactis plana (HARVEY) THURET var. **plana** BORNET et FLAHAULT

Pon-oshoro (Umezaki 1956, p. 86).

189. Rivularia altra ROTH var. **hemisphaerica** (KUETZ.) BORN. et FLAH.

Pon-oshoro, Hariusu (Umezaki 1956, p. 87).

190. Rivularia mamillata SETCH. et GARDN.

Pon-oshoro (Umezaki 1956, p. 87).

191. Richelia intracellularis SCHMIDTOshoro (!). Takashima (Akatsuka 1914, p. 35, 37). Endophytic in plankton diatoms, *Rhizosolenia styliiformis* and *Rh. hebetata*.

Stigonemataceae ステイゴネマ科

192. Kyrtothrix maculans (GOMONT) UMEZAKIPon-oshoro (Umezaki 1956, p. 87, as *Brachytrichia maculans* GOMONT).

Oscillatoriaceae ユレモ科

193. Spirulina subsalsa OERSTEDT

Pon-oshoro. Hariusu (Umezaki 1956, p. 87). Hariusu (Umezaki 1950, p. 226). Among other blue-green algae in tide-pools and on rocks at high tide mark.

194. Spirulina labyrinthiformis GOMONT

Hariusu (Umezaki 1956, p. 88). Among other blue-green algae on rocks.

195. **Oscillatoria laetevirens** CROUAN
Pon-oshoro (Umezaki 1956, p. 88). Among *Cladophora* in tide-pools.
196. **Oscillatoria limnetica** LEMMERMANN ?
Pon-oshoro (Umezaki 1956, p. 88.). With other algae in tide-pools.
197. **Oscillatoria Corallinae** (KUETZ.) GOMONT
Pon-oshoro (Umezaki 1956, p. 88). Among other blue-green algae in tide-pools.
198. **Oscillatoria chalybea** MERTENS var. **anguina** GOMONT
Pon-oshoro (Umezaki 1956, p. 88). Among the filaments of *Sphacelaria* and other blue-green algae.
199. **Phormidium epiphyticum** GARDNER
Pon-oshoro (Umezaki 1956, p. 88). Epiphytic on *Lyngbya aestuarii*.
200. **Trichodesmium Thiebautii** GOMONT
Oshoro (!). In discoloured water in the bay.
201. **Plectonema calothrichoides** GOMONT
Pon-oshoro (Umezaki 1956, p. 88).
202. **Lyngbya epiphytica** HIERONIMUS
Pon-oshoro (Umezaki 1956, p. 88). Epiphytic on *Lyngbya aestuarii*.
203. **Lyngbya infixa** FRÉMY
Pon-oshoro (Umezaki 1956, p. 89). Epiphytic on *Cladophora* and *Antithamnion nipponicum*.
204. **Lyngbya semiplena** (AGARDH) J. AGARDH
Oshoro (Umezaki 1952, p. 119, as *Lyngbya Martensiana* MENEGHINI*). Pon-oshoro (Umezaki 1956, p. 89).
205. **Lyngbya aestuarii** (MERTENS) LIEBMANN
Pon-oshoro, Hariusu (Umezaki 1956, p. 89). On rocks, or epiphytic on *Corallina pilurifera* and *Laurencia nipponica*.
206. **Microcoleus tenerrimus** GOMONT
Pon-oshoro (Umezaki 1956, p. 89).
207. **Hydrocoleum lyngbyaceum** KUETZING
Pon-oshoro, Hariusu (Umezaki 1956, p. 89). On rocks, or epiphytic on *Cladophora* and *Corallina pilurifera*.
208. **Hydrocoleum cantharidosmum** (MONTAGNE) GOMONT
Pon-oshoro (Umezaki 1956, p. 89). Among other blue-green algae.

SEA GRASSES 海産顕花植物

Zosteraceae アマモ科

- 209.
- Phyllospadix iwatensis**
- MAKINO スガモ, コモ

* According to a letter of Umezaki sent to the senior writer.

Oshoro (Inagaki 1933, p. 5, as "Sugamo"). Shiribeshi (Miyabe & Kudo 1930, p. 86, as *Phyllospadix Scouleri* HOOKER).

Summary

The present list comprises 129 genera and 208 species of seaweeds hitherto collected and recorded from the vicinity of Oshoro Marine Biological Station of Hokkaido University which stands on the beach facing Oshoro Bay. It is situated at Oshoro, Province Shiribeshi, in Hokkaido. Of these genera and species, 13 genera and 23 species belong to Chlorophyceae, 30 genera and 40 species to Phaeophyceae, 69 genera and 114 species to Rhodophyceae, and 17 genera and 31 species to Cyanophyceae. The occurrence of one species of Sea Grasses in the region under consideration is also recorded at the end of this list.

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