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理學博士 岡村金太郎著

ICONES OF JAPANESE ALGÆ

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BY

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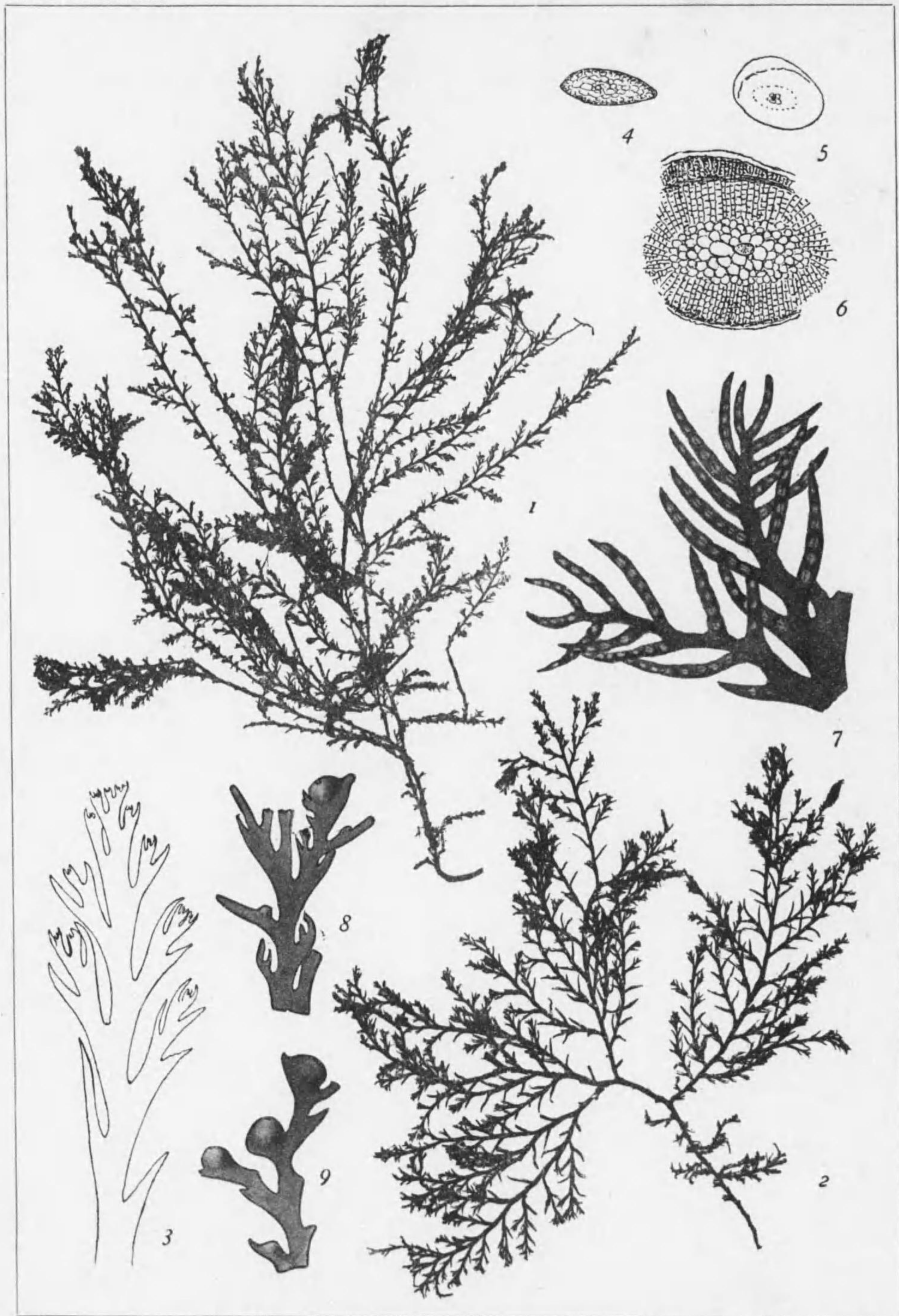
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始





Odonthalia aleutica (Mert.) J. Ag. ありうしやんのこぎりひば



Odonthalia camtschatica (Rupr.) J. Ag. かむさつかのこぎりひば

39-110

Odonthalia aleutica (Mert.) J. Ag.

Nom. Japon.: Aleutian-nokogirihiba.

PL. CCLXXXVI.

Odonthalia aleutica (Mert.) J. Ag. Sp. Alg. II, 3, p. 895; Setch. and Gardn. Alg. N. W. Amer., 1903, p. 333.; Collins Mar. Alg. of Vancouver Isl., 1913, p. 122; Okam. Nippon Sorui-meii (2 nd. ed.) p. 82. *Rhodomela aleutica* Ag. Icon. Alg., tab. 5. *Atomaria setacea* Rupr. Alg. Ochot. p. 23.

Fronde forming a dense tuft, 10-20 cm. long or more, filiform, compressed, caulescent below, somewhat denudated, soon divided into some main branches, 3-4 times alternately and distichously decomposed. Main Branches 8-10 cm. long, patent, and laterally expanded, subnaked or furnished with shorter pinnae below, with longer ones upwards, subancipite or compressed, linear and straight (scarcely flexuose), about one mm broad, without midrib. Pinnulae subulate, alternate, attenuated from the base, patent, 2-4 mm long, lower ones simple, the followings decomposed. For the most part of the frond ecostate or the midrib quite indistinct; in the inferior part costa gradually formed by the evolution of cortical layer on either-one side or on both sides. *Organs of fructification* rather loosely arranged in raceme. *Stichidia* formed in the pinnulae on shortened rachis, pinnato-subfasciculated, lanceolate with double rows of tetraspores. *Cystocarps* obliquely urceolate, almost hemispherical without elevated neck, ecalcate, formed on the inner that is the upper sides of pinnulae, which are alternately branched on short rachis. *Colour* dark red, turning to almost black in drying. *Substance* coarse and harsh to touch, and the plant does not adhere to paper in drying.

Hab.: on rocks in the upper littoral zone; Saghalien, The Kurile



Isls., Akkeshi.

PL. CCLXXXVI. Fig. 1-2: two fronds of *Odonthalia aleutica* (Mert.) J. Ag.; fig. 2, having more elongated pinnulae; 1/1.—Fig. 3: upper portion of segment, showing lacineae, 7/1.—Fig. 4-5: cross-section of upper and lower portions; 4, 28/1; 5, 7/1.—Fig. 6: portion of fig. 5 magd., 40/1.—Fig. 7: tetrasporic pinnulae, 14/1.—Fig. 8: cystocarp, 7/1.

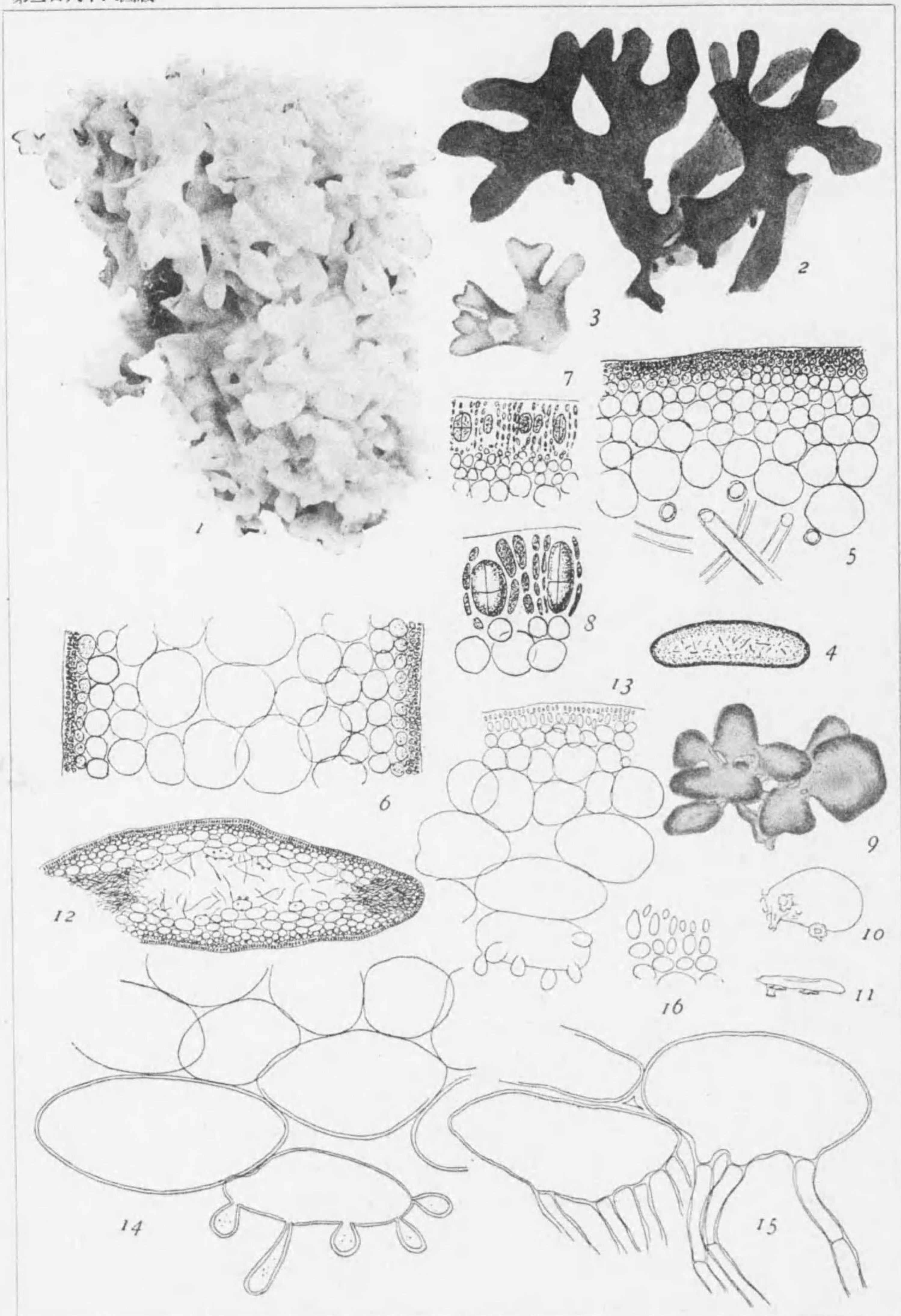
Odonthalia camtschatica (Rupr.) J. Ag.

Nom. Japon.: Camtschatca-nokogirihiba.

PL. CCLXXXVII.

Odonthalia camtschatica (Rupr.) J. Ag. Sp. II, 3, p. 896; Setch. and Gardn. Alg. N. W. Amer., 1903, p. 336; Collins Mar. Alg. of Vanc. Isl., 1913, p. 122. *Atomaria camtschatica* Rupr. Alg. Ochot. p. 22. *Odonth. angustifolia* P. et R. Illustr. tab. XXVII.

Fronds 20-25 cm high, caespitose, erect, with thick cylindrical stem, rising from a scutate disc, gradually ancipito-compressed and distinctly midribbed above, distichously branched in alternato-pinnate manner, decidedly flattened and extended toward apex. Branches attenuated toward the base, naked below, linear and straight, very slightly flexuose toward the upper portion, patent, more or less flabellato-incised at apices, with incurved lacineae which are subulate or often blunt. Upper portion of branches expanded, flat and without midrib at the beginning; soon longitudinal thickenings arise separately along the inner sides of lacineae and they become continuous so as to form a percurrent flexuous midrib; thus the midrib leans toward the inner side of every part instead of being truly median. Reproductive organs not observed. *Colour* dark red turning to black in drying. *Substance*



Chrysiomenia Kairnbachii Grun. はなさくら Fig. 1-8
 Chrysiomenia procumbens Web. v. B. はなふくら Fig. 9-16

coriaceous and the plant does not adhere to paper in drying.

Hab.: Saghalien, Nemuro, Akkeshi.

PL. CCLXXXVII. Fig. 1, 3-6; fronds of *Odonthalia camtschatica* (Rupr.) J. Ag. from Saghalien, 1/1.—Fig. 2: upper segments of the plant from Camtschatca to show the segment developed from axil of pinna and regular arrangement of broader lacineae, 1/1.—Fig. 3: upper portion of branch with regular flabellato-incised lacineae, 8.5/1.—Fig. 4: upper portion with midrib, 1/1.—Fig. 5: portion of branch showing the beginning of midrib, formed separately, 7/1.—Fig. 6: cross-section of branch showing costal thickenings on both sides, 12/1.

Chrysiomenia Kairnbachii Grun.

Nom. Japon.: Hanazakura.

PL. CCLXXXVIII, Fig. 1-8.

Chrysiomenia Kairnbachii Grun. Web. v. Bos. Liste des Alg. du Siboga, 1928, p. 469, Pl. V, f. 1 and fig. 202, 203.

Frond forming large, roundish, low pulvinate mass of diameter of 10-17 cm., consisting of 3-4 times irregularly dichotomous segments, imbricately and loosely united by short radical discs emitted from margins and under surface. Segments 1-1.5 cm broad, tubular, compressed, forked at short intervals with roundish axils and inflated or collapsed toward broadly roundish or bifid apex. Frond tubular but not hollowed throughly, here and there being interrupted by parenchymatic tissue of the cells of the inner layer and the tubular portion is traversed by abundant filaments. Frond consisting of many layers of cells, of which inner layer of large, roundish, empty cells gradually becoming smaller outwards. *Tetrasporangia* densely scattered even up to the terminal portion forming irregularly scattered sori. *Cystocarps*

and *antheridia* not observed. *Colour* turning to brownish-red in drying. *Substance* gelatinoso-membranaceous and the plant firmly adheres to paper in drying.

Hab.: on rocks probably below low tide; Hatidyo, Seto, Kashiwajima.

Pl. CCLXXXVIII, Fig. 1-8. Fig. 1: one half of a roundish pulvinate frond of *Chrysomenia Kairnbachii* Grun. photo from alcohol material, Seto, 7/10.—Fig. 2: portion of tetrasporic frond, Hatidyo, 1/1.—Fig. 3: inflated terminal portion of frond with radical attachment, viewed from the under surface, 1/1.—Fig. 4: cross section of frond, magd.—Fig. 5: portion of the cross section of frond, 100/1.—Fig. 6: portion of the cross section of frond fully filled up with the cells of the inner layer, 100/1.—Fig. 7: cross section through tetrasporic sorus, 100/1.—Fig. 8: portion of the same, highly magd.

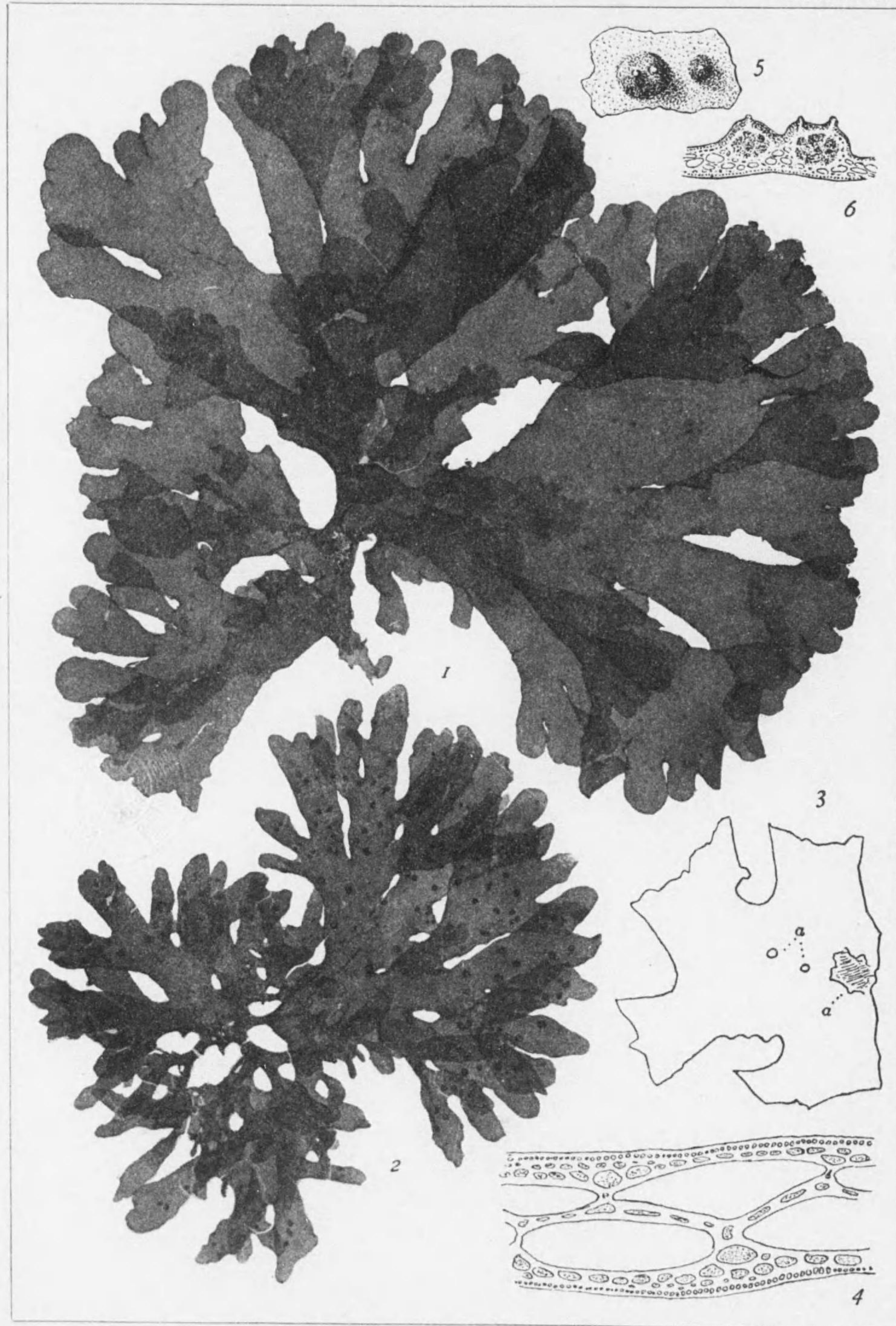
***Chrysomenia procumbens* Web. v. Bos.**

Nom. Japon.: Hanafukuro.

Pl. CCLXXXVIII, Fig. 9-16.

Chrysomenia procumbens Web. v. Bos. Liste des Alg. du Siboga, 1928, p. 470, Pl. V, f. 2 a-b; Okam. Mar. Alg. from Kôtôsho (Botel Tobago) in Bull. Biogeogr. Soc. Japan, 1931, Vol. 2, n. 2, p. 112.

Frond sac like or cushion shaped, complanated, branching or proliferating, irregularly roundish, with isthmus-like constrictions, attached to the substratum and to each other by forming root-like discs from the under surface, filled up with mucous matter, 4 cm in extension; internally consisting of 2-3 layers of large, laterally extended, empty cells and externally of many layers of smaller ones, gradually becoming smaller outward; from the inner wall of larger cells numerous filaments traversing through the cavity and oval or oblong glandular



Callophyllis adnata Okam. sp. nov. ねざしのときかもどき

cells are seen here and there. *Cystocarps* and *tetrasporangia* not observed. *Antherozoids* produced from cortical cells. *Colour* dull brownish red in drying. *Substance* gelatinous and coriaceous becoming stiff in drying, and the plant imperfectly adheres to paper.

Hab.: Kôtôsho (Segawa)

PL. CCLXXXVIII, Fig. 9-16. Fig. 9: only one specimen of *Chrysomenia procumbens* Web. v. Bos. seen from above, 1/1.—Fig. 10: portion of frond viewed from the undersurface to show radical discs, 1/1.—Fig. 11: the same seen from the lateral side, 1/1.—Fig. 12: cross section of frond, 17/1.—Fig. 13: portion of the cortical layer bearing antherozoids, 120/1.—Fig. 14: parenchymatic cells of the inner layer bearing glandular cells, 245/1.—Fig. 15: inner parenchymatic cells emitting filaments, 245/1.—Fig. 16: antherozoids, 500/1.

Callophyllis adnata Okam. sp. nov.

Nom. Japon: Nezashino-tosakamodoki.

PL. CCLXXXIX.

Callophyllis sp. nov. Okam. Nippon Sorui-Mei-i (2 nd. ed.) p. 79.

Diagn.: frond soft gelatinoso-membranaceous, many times flabellato-dichotomous in short intervals, expanding in circular outline with erecto-patent axils, horizontally attached to the substratum and to each other near the bases of segments by forming root-like discs; margin entire or more or less crenulated; apex very obtuse; tetrasporangia densely scattered over the surface of frond; cystocarps round, hemispherical, scattered over the upper or both surfaces of the upper portion of the frond, furnished with one or two prominent beaks.

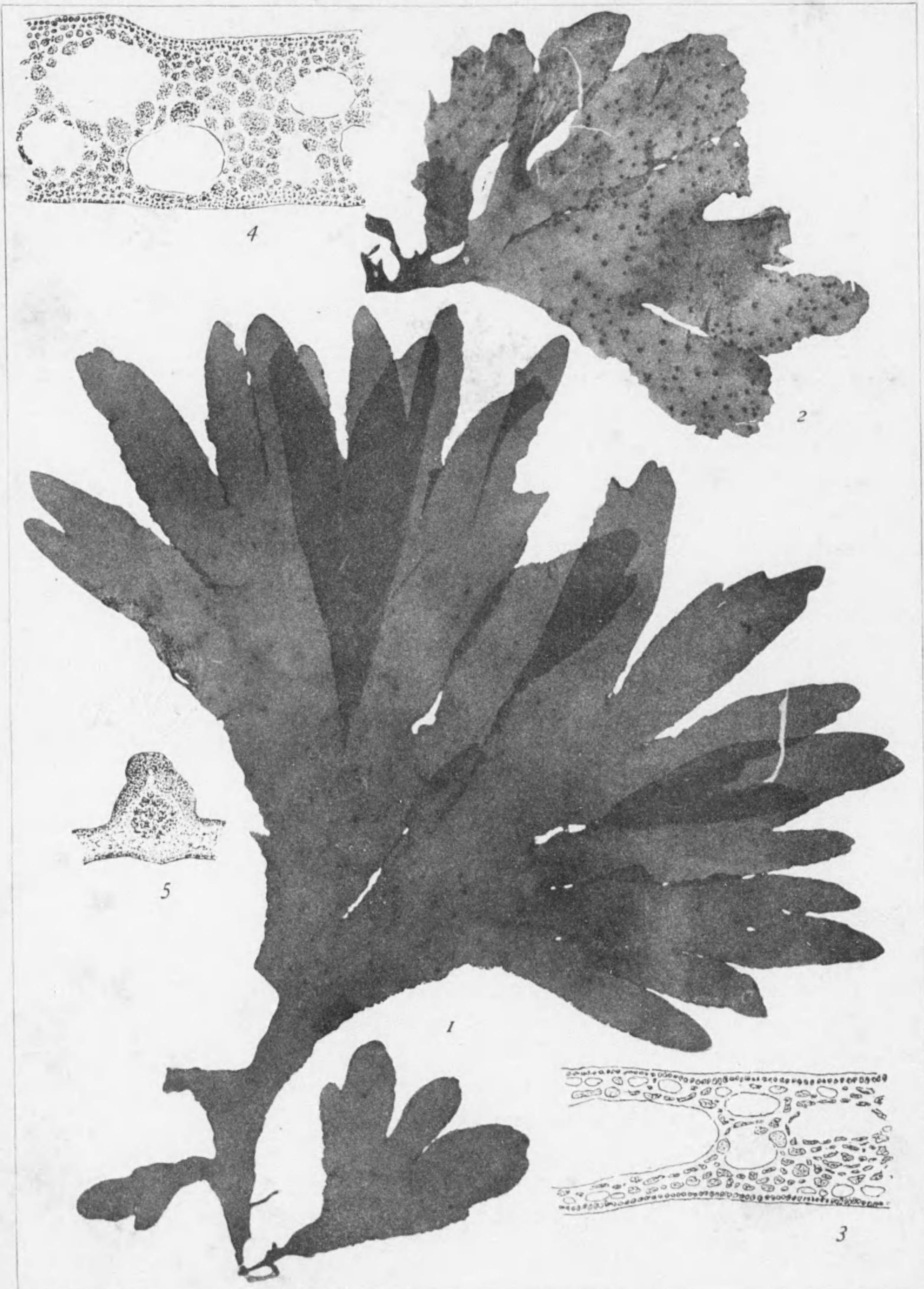
Hab.: washed ashore; Enoshima.

Descr.: Frond soft membranaceous, 6-10 cm. high, 230-270 μ

thick, many times palmato-flabellately dichotomous in short intervals assuming circular or semi-circular outline, tapering below to broadly cuneate base; segments erecto-patent with narrow or more or less broader axils, overlapping each other, 10-20 mm broad, gradually lessening in breadth toward round apex, with entire or slightly crenulated margin which is mostly free from proliferations. From the under surface of the lower portion of the frond minute radical discs arising with short pedicel, by which the frond attaches to the substratum as well as to other segments. By this way the frond appearing probably expanded horizontally and ascending toward apex. *Frond* internally consisting of two large parenchymatic cells, covered by one or two layers of cortical cells with lesser rhizoids. *Tetrasporangia* scattered over the surface of frond. *Cystocarps* round hemispherical, scattered over the greater part of the upper or both surfaces of frond, pretty large (one mm in diam.), furnished with one or two prominent beaks. *Colour* beautiful red, often fading to ferrugineous. *Substance* soft gelatinosomembranaceous and the dried specimens easily dissolve on re-immersion. *Plant* firmly adhering to paper in drying.

The present plant which has an external appearance similar to *Callophyllis palmata* Yam. and *C. crispata* Okam. is more easily distinguished from both of those species than to distinguish the one of the latter two from the other; the frond is smaller, more soft and lubricous than either of them and have roots emitted from undersurfaces of the basal portions of frond.

Pl. CCLXXXIX. Fig. 1: frond of *Callophyllis adnata* Okam., 1/1.—Fig. 2: cystocarpic frond, 1/1.—Fig. 3: basal portion of frond showing root like processes, *a, a*, 7/1.—Fig. 4: cross section of frond, 230-270 μ thick, 245/1.—Fig. 5: cystocarp seen from above, slightly magd.—Fig. 6: vertical section of cystocarp, 14/1.



Callophyllis palmata Yamada やつでがたとさかもどき

Callophyllis palmata Yamada.

Nom. Japon.: Yatsudeba-tosakamodoki.

PL. CCXC.

Yamada Notes on Some Japanese Algae, I. (Journ. Facult. Sc. Hokkaido Imp. Univ., Ser. V. Vol. I, n. 1, 1930,) p. 30, pl. III, f. 2.

*Fron*d up to 25 cm high, 3-4 times palmately or dichotomously divided, erecto-fastigiate or patent, thick membranaceous, about 280-345 μ thick, provided with a short cylindrical stipe (0.5-1.0 cm. long), arising from a scutate disc. Segments up to about 3 cm wide often much wider below the forks, and the width decreasing cuneately toward the base; margin finely undulato-crisped as in *Callophyllis crispata* Okam. with or without small proliferated lobes. Frond consisting of one or two layers or large parenchymatic cells, densely surrounded by rhizoidal cells; cortical layer, of a few layers of cortical cells and one layer of hypodermal cells. *Tetrasporangia* equally scattered among cortical cells. *Cystocarps* round, about one mm in diam., slightly elevated in depressed hemispherical manner, with one or two prominent beaks, scattered over the frond except near the very base. *Colour* beautiful red. *Substance* thickish membranaceous, rather coriaceous, and the plant adhering to paper in drying.

Hab.: Provs., Kadusa, Sagami, Isé.

The present plant has a very strong resemblance with *Callophyllis crispata* Okam. not only in external habit, but also in thicker coriaceous substance and having similar structure. When fertile there is no difficulty to separate the one from the other, owing to the presence of cystocarps on the surfaces of frond, but when sterile or tetrasporiferous, almost impossible to do so with validity. It is not so easily done as stated by Mr. Yamada, who having overlooked beak-like prominences, considered to be separable by the absence of them, and we can't do

generally but by broadness of segments and more widely cuneate habit beneath forks in fronds having broader forms than in *C. crispata* Okam. I early noticed the presence of cystocarps on the surfaces of frond, but considering that *C. crispata* has cystocarps, though not often, on the surface at the same time with marginal ones and that they are also usually formed on the intramarginal surface together with those situated in marginal processes, I hesitated to refer the present plant as a new species. At any rate, the present plant is a species having very close affinity with *C. crispata*.

Pl. CCXC. Fig. 1: frond of *Callophyllis palmata* Yam., 1/1.—Fig. 2: smaller cystocarpic frond, 1/1.—Fig. 3: cross section of frond (230-270 μ thick), 100/1.—Fig. 4: cross section of cystocarpic frond (345 μ thick), 100/1.—Fig. 5: vertical longitudinal section of cystocarp, 8.5/1.

Odonthalia aleutica (Mert.) J. Ag.

ありうしやんのこぎりひば 岡村 稱

第286 圖版

體ハ叢生シ、10-20cm 或ハ尙ホ長ク、細線狀、扁壓、下部莖ヲナシテ枝ナク、其少シ上部ヨリ數條ノ主枝ニ分レ3-4回兩縁ヨリ互生複羽狀ニ分岐ス。主枝ハ8-10cm 長ク、廣開シ、横ニ擴ガリ、下部ニハ小枝ナク又ハ稍短キ羽枝ヲ着ケ、上方ニハ長キ羽枝ヲ出ス、而シテ稍兩縁ニ薄ク又ハ扁壓シ、線狀ニシテ眞直(殆ド屈曲セズ)、約1mm 廣ク、中肋ナシ。小羽枝ハ錐狀ヲナシ、互生シ、下部ヨリ先端ノ方ニ細クナリ、廣開シ、2-4mm 長ク、下部ノモノハ單條、次々ノモノハ複羽狀ニ分岐ス。體ハ大部分中肋ナク 或ハ中肋全ク不判明ナレドモ、下部ニ於テ何レカ一方ノ側ニ若クハ兩側ニ皮層ノ增厚スルコトニヨリテ漸次中肋ヲ形成ス。生殖器ヲ生ズル枝ハ稍緩ク總狀ニ配置セラル。四分胞子托ハ短縮セル軸ノ兩側ヨリ出ル羽枝ニ形成セラレ羽狀ニシテ稍束集シ、各披針狀ニシテ二列ノ胞子ヲ藏ス。囊果ハ壺狀ニシテ斜ニ附着シ、略ボ半球狀ニシテ隆起セル頸部^{ケツメ}ナク、又距ナク、小羽枝ノ上側即チ内側ニ形成セラレ、小羽枝ハ短キ軸ニ互生ス。色ハ暗紅色ニシテ乾燥スルトキハ殆ド黒色トナル。質ハ剛クシテ手觸リ粗ク、體ハ紙ニ附着セズ。

產地：上部沿岸帯ノ岩礁ニ生ズ；樺太、海豹島、千島、厚岸。

分布：厚岸ヨリ以東、Alaska, Unalaska ヲ經テ Victoria, Port Renfrewニ至ル。

第286 圖版. 1-2: *Odonthalia aleutica* (Mert.) J. Ag., ありうしやんのこぎりひばノ二個體；2圖ハ稍長キ小羽枝ヲ有スルモノ；¹/₁.—3: 枝ノ上部ニシテ齒狀片ヲ示ス,⁷/₁.—4-5: 上部及下部ノ枝ノ横断面；4,¹³/₁；5,⁷/₁.—6: 5

圖ノ一部ヲ廓大セルモノ, ⁴⁰/₁. —7: 四分胞子囊ヲ有スル小羽枝, ¹⁴/₁. —8: 囊果, ⁷/₁.

Odonthalia camtschatica (Rupr.) J. Ag.

かむさつかのこぎりひば 岡村 稱

第287圖版

體ハ20-25cm高ク, 叢生シ, 太キ圓柱狀ノ莖ヲ有シ, 盤狀附着器ヲ以テ直立シ, 漸次上方ニ扁壓シテ兩縁ニ薄ク, 上部ハ明ニ中肋ヲ存シ, 互生羽狀ニ兩縁ヨリ分岐シ, 明ニ扁ク頂端ノ方ニ廣シ. 枝ハ其基部ノ方ニ細ク下部ニ小枝ナク, 線狀ニシテ眞直, 上部ノ方ニ少シク雁木狀ニ屈曲シ, 廣開シ, 頂端ノ齒狀片ハ多少扇狀ヲナシ, 各齒狀片ハ上方ニ細ク或ハ往々鈍圓ニシテ内方ニ屈曲ス. 枝ノ上部ハ擴ガリ, 扁平ニシテ初メ中肋ナシ, ヤガテ縦ノ厚ミヲ側部ノ齒狀片ノ内側ニ沿フテ別々ニ生ジ, 後互ニ連續シテ1條ノ貫通セル且ツ屈曲セル中肋ヲ爲ス, 此故ニ中肋ハ各部ノ内側ニ偏倚リテ眞ノ中央ニ存セズ. 生殖器ハ見ラレズ. 色ハ濃キ暗紅色ニシテ乾燥スルトキハ黒色トナル. 質ハ剛クシテ乾燥スルトキハ體ハ紙ニ附着セズ.

產地: 樺太, 根室, 厚岸.

分布: 厚岸根室ヨリ以東 Alaska, Port Renfrew, Vancouverニ至ル.

第287圖版. 1, 3-6: *Odonthalia camtschatica* (Rupr.) J. Ag. ノ體 (樺太産), ¹/₁. —2: 體ノ上部ノ羽枝ノ腋ヨリ伸長シタル枝ト幅廣キ齒狀片ノ正シク配列セル狀トヲ示ス, カムサツカ産, ¹/₁. —3: 枝ノ上部ノ正シク扇狀ヲナセル齒狀片ヲ示ス, ^{8.5}/₁. —4: 枝ノ上部ノ中肋ヲ示ス, ¹/₁. —5: 中肋ノ出來始メニシテ互ニ別々ニ形成スル狀ヲ示ス, ⁷/₁. —6: 枝ノ横断面ニシテ兩側ニ中肋

ノ厚ミヲ有ス, ¹²/₁.

Chrysomenia Kairnbachii Grun.

はなさくら 岡村 稱

第288圖版, 1-8圖

體ハ直徑10-17cmナル大ナル圓キ, 低キ饅頭狀ノ塊ヲナシ, 3-4回不規則ニ叉狀ヲナセル枝ヨリ成リ, 枝ハ縁邊及ビ裏面ヨリ短キ盤狀根ヲ出シテ覆瓦様ニ互ニ緩ク癒着ス. 各部ハ1-1.5cm廣ク, 中空, 扁壓, 圓キ腋ヲ以テ少距離ニ分岐シ廣クシテ圓キ又ハ二裂セル枝端ノ方ニ膨レ又ハツブレタリ. 體ハ中空ナレドモ全部ニ然ルニアラズシテ處々内層ヲ形成セル parenchyma細胞ヲ以テ隔テラレ内腔ハ多數ノ絲ヲ存ス. 體ノ内部ハ大ニシテ圓キ空虚ナル數層ノ内層細胞ヨリ成リ漸次外方ニ小ナリ. 四分胞子囊ハ不規則ニ散布セル群ヲナシテ密ニ體ノ頂端附近迄モ存ス. 囊果及精子器ハ見ラレズ. 色ハ乾燥スルトキハ紅褐色ニ變ズ. 質ハ膜質ニシテ粘質ニ富ミ, 體ハ密ニ紙ニ附着ス.

產地: 多分低潮線以下ノ岩礁ニ産スルナルベシ; 八丈島, 紀伊瀬戸, 柏島.

分布: Malay 群島, Kelana (New Guinea).

第288圖版, 1-8圖. 1: *Chrysomenia Kairnbachii* Grun. ノ圓キ饅頭狀ノ半分, アルコール品ヨリ寫眞ス, 瀬戸産, ⁷/₁₀. —2: 四分胞子囊ヲ有スル體ノ一部, 八丈島産, ¹/₁. —3: 膨レタル頂部ノ裏面ニ根ノ如キ附着器ヲ有スル狀ヲ示ス, ¹/₁. —4: 體ノ横断面, 廓大, —5: 横断面ノ一部, ¹⁰⁰/₁. —6: 横断面ノ一部ニシテ内層細胞ノ全ク充填セル狀, ¹⁰⁰/₁. —7: 四分胞子囊群ヲ通ジテ斷リタル横断面, ¹⁰⁰/₁. —8: 同上ノ一部, 高度廓大.

Chrysomenia procumbens Web. v. Bos.

はなふくろ 岡村 稱

第288圖版, 9-16圖.

體ハ囊狀又ハ枕狀ニシテ, 扁壓, 分岐シ或ハ副出シテ不規則ニ圓ク, 地峽ノ如キクビレヲ有シ, 裏面ヨリ根ノ如キ盤ヲ形成シテ岩礁ニ附着シ又各部互ニ附着シ, 粘質ヲ以テ充サル; 内部ハ2-3層ノ大ナル横ニ擴ガリタル空虚ナル細胞ヨリ成リ外部ハ漸次外方ニ小サク成レル小サキ細胞ヨリ成ル; 内部ノ大ナル細胞ノ内側ヨリ多數ノ絲ヲ出シテ内腔ヲ走り, 其處此處ニ卵形又ハ長楕圓形ノ腺細胞ヲ着ク. 囊果及四分胞子囊ハ之ヲ見ズ. 精子細胞ハ皮層細胞ヨリ形成セラル. 色ハ乾燥スルトキハ鈍キ紅褐色トナル. 質ハ粘質ニ富ミテ膜ハ稍硬ク, 乾燥スルトキハ硬ク成リ紙ニ附着スルロト充分ナラズ.

產地: 紅頭嶼(瀨川).

分布: Borneo, Ile Tiur.

第288圖版, 9-16圖. 9: 唯一個ノミナル *Chrysomenia procumbens* Web. v. Bos., はなふくろ, ノ體ヲ上ヨリ見タルモノ, $\frac{1}{4}$.—10: 體ノ裏面ヨリ見テ根ノ如キ盤アルヲ示ス, $\frac{1}{4}$.—11: 體ヲ側面ヨリ見タルモノ, $\frac{1}{4}$.—12: 體ノ横斷面, $\frac{17}{4}$.—13: 精子細胞ヲ有スル皮層ノ一部, $\frac{120}{4}$.—14: 腺細胞ヲ着ケタル parenchyma 細胞, $\frac{245}{4}$.—15: 絲狀細胞ヲ出セル内層ノ parenchyma 細胞, $\frac{245}{4}$.—16: 精子細胞, $\frac{500}{4}$.

Callophyllis adnata Okam. 新種.

ねざしのごさかもごき 岡村 稱

第289圖版

性質: 體ハ柔カキ粘質ノ膜ニシテ數回少距離ニ扇狀-又狀ニ分岐シ, 圓形ニ擴ガリ, 直立-廣開シ, 水平ニ他物ニ附着シ, 根ノ如キ盤ヲ以テ各部ノ基部ニ近ク互ニ癒着シ, 縁邊ハ全縁又ハ多少細カニウネリ, 枝端鈍圓ナリ; 四分胞子囊ハ體ノ表面ニ密ニ散布ス; 囊果ハ圓ク, 半球狀ニ隆起シ, 體ノ表面ニ又ハ兩面ニ散在シ, 1-2個ノ嘴狀突起ヲ戴ク.

產地: 江ノ島.

體ハ軟カキ膜質ニシテ, 1-10cm 高ク, 230-270 μ 厚ク, 數回少距離ニ掌狀様-扇狀ニ又狀ニ分岐シ, 圓形又ハ半圓形ヲナシ下部廣キ楔形ヲナス; 各部狭キ又ハ多少廣キ腋ヲ以テ直立シ又ハ廣開シ, 互ニ重ナリ, 10-20mm 廣ク, 漸次幅ヲ減ジ圓キ頂端ヲナシ, 全縁又ハ少シク波縮シ, 概ネ副枝ヲ有スルコトナシ. 體ノ下部ヨリ短柄ヲ有スル小サキ根様ノ盤ヲ出シテ他物ニ附着シ且ツ互ニ癒着ス. 斯クテ體ハ多分水平ニ擴ガリ頂端ノ方ニ斜上ス. 體ノ内部ハ2層ノ大ナル parenchyma 細胞ヨリ成リ 1-2層ノ皮層細胞ヲ以テ蔽ハレ, 根様細胞ハ極メラ少ナシ. 四分胞子囊ハ體ノ表面ニ散布ス. 囊果ハ圓ク半球狀ニシテ體ノ上面ニノミ又ハ兩面ノ大部分ニ散布シ, 可ナリ大ニシテ(直徑約1mm), 1-2個ノ嘴狀突起ヲ存ス. 色ハ鮮紅色ニシテ往々淡黃紅色ニ褪色ス. 質ハ軟カキ粘質アル膜ニシテ一旦乾燥シタル後再ビ水ニ浸ストキハ容易ニ解類ス. 體ハ密ニ紙ニ附着ス.

本種ハ外形 *Callophyllis palmata* Yam. ト *C. crispata* Okam. トニ酷似シ, 其各ヲ互ニ區別スルヨリモ此等二種ノモノト本種トヲ區別スルコトハ遙ニ



容易ナリ；即チ體ハ二者ト比シテ稍小サク，夫等ヨリモ軟ク且ツ粘滑ニシテ體ノ下部ヨリ根ヲ出シテ互ニ附着スルヲ以テ明ニ區別セラル。

第289圖版. 1: *Callophyllis adnata* Okam., ねざしのごさかもごき, ノ體, $\frac{1}{4}$.—2: 囊果ヲ有スルモノ, $\frac{1}{4}$.—3: 體ノ下部ヨリ根ノ如キ突起 a, a' ヲ出セルモノ, $\frac{1}{4}$.—4: 體ノ横斷面, 230—270 μ 厚シ, $\frac{25}{4}$.—5: 囊果ヲ上ヨリ見タルモノ, 廓大.—6: 囊果ノ縦斷面, $\frac{14}{4}$.

Callophyllis palmata Yamada

やつではごさかもごき 岡村稱

第290圖版

體ハ高サ 25 cm ニ達シ, 3-4回掌狀又ハ叉狀ニ分岐シ, 枝ハ直立シ又ハ廣開シ, 厚キ膜質ニシテ約 280-345 μ 厚ク, 盤狀根ヨリ直立セル短キ圓柱狀ノ莖ヲ有ス (0.5—1.0 cm 長シ). 各部ハ幅約 3cm ノ廣サニ達シ, 往々分岐點ノ下ニ稍廣ク漸次其基部ノ方ニ楔形ヲナシテ細クナレリ; 縁邊ハ *Callophyllis crispata* Okam., ひろはのごさかもごき, ニ於ケル如ク細ク波縮シ副出セル小裂片ヲ有シ又ハ之ヲ缺ク. 體ノ内部ハ 1-2層ノ大ナル parenchyma 細胞ヨリ成リ密ニ根様細胞ヲ以テ圍繞セラル; 皮部ハ 2-3層ノ皮層細胞ト 1層ノ皮下細胞トヨリ成ル. 四分胞子囊ハ皮層中ニ平等ニ散布ス. 囊果ハ圓ク, 直徑約 1mm アリ扁キ半球狀ヲナシテ少シク隆起シ, 1-2個ノ嘴狀突起ヲ戴キ體ノ極ク下部ヲ除ク外兩面ニ散在ス. 色ハ鮮紅色. 質ハ稍厚キ膜質ニシテ幾分剛ク, 乾燥スルトキハ紙ニ附着ス.

產地: 上總大原, 房州, 相模, 伊勢, 鳥羽, 菅島.

本種ハ *Callophyllis crispata* Okam., ひろはのごさかもごき, ト啻ニ外形

ノミナラズ稍厚クシテ剛キ體質並ニ同様ナル構造ヲ有スル點ニ於テ著シク類似ス. 其囊果ヲ有スルモノハ二者ヲ區別スルコト難カラズ, 蓋シ體ノ表面ニ之ヲ有スレバナリ, 然レドモ實ナキモノ又ハ四分胞子囊ヲ有スルモノノ如キハ二者ヲ確然ト區別スルコト不可能トス. 山田氏ハ本植物ニ於テ囊果ニ嘴狀突起アルコトヲ見落シタル爲メ其有無ニヨリテ二者ヲ區別シ得ベシト記シタレドモ氏ノ云ヘル如ク爾ク容易ナラズシテ唯一般ニ幅廣キ體ヲ有スルモノニ於テハ *C. crispata* ヨリモ各部ノ幅ノ稍廣キト分岐點ノ下ノ楔形ナルトニヨル外ハ二者ヲ區別スル能ハズ. 予ハ夙ニ本種ニ於テ囊果ヲ體ノ表面ニ有スルコトニ氣付タリ, 然レドモ, *C. crispata* ノ或モノニ於テ, 決シテ屢々ニハ非レドモ, 時ニ囊果ヲ縁邊ニ有スルト同時ニ表面ニモ之ヲ存スルモノアリ且ツ通常縁ノ小裂片ニ在ル以外縁邊ニ接近シタル表面ニ之ヲ有スルコトヲ思慮シテ本種ヲ新種トナスコトヲ躊躇シタリ. 兎ニ角, 本種ハ *C. crispata* ト極メテ親密ノ類縁ヲ有スルモノト云フベシ.

第290圖版. 1: *Callophyllis palmata* Yem. ノ體, $\frac{1}{4}$.—2: 囊果ヲ有スル體ノ小ナルモノ, $\frac{1}{4}$.—3: 體ノ横斷面 (230—270 μ 厚シ), $\frac{100}{4}$.—4: 囊果アル體ノ横斷面, (345 μ 厚シ), $\frac{100}{4}$.—5: 囊果ノ縦斷面, $\frac{8.5}{4}$.

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