"Shidarezakura Kurage" and "Nagayoraku Kurage" Cupulita picta Metschnikoff and Agalmopsis elegans Sars

Tamiji Kawamura
Dobutz, Z. Tokyo, 23 (No. 273), 359-363, 1911 [pl. 7]

The bracketed [..] and emboldened comments are Totton's marginalia.

"Shidarezakura Kurage" is the Japanese name given to the genus *Cupulita* by Prof. Tijima. "Nagayoraku Kurage" is the name given to the genus *Agalmopsis*. These genera belong to the order Physophorae, suborder Physonectae, family Agalmidae, as did the previously discussed *Agalma okeni* and *Crystallomia polygonata*. However, the latter group belongs to the subfamilly Crystallominae, while the 2 species in question are of the subfamily Anthemodinae. Of these, the genus *Cupulita* is more common. Therefore, the author wishes to call this [?] subfamily "Shidarezakura Kurage" (or subfamily "Cupulitae"). The characteristics of this family and the subfamilies have already been discussed in No. 267 of this volume pages 1-10, so they will not be repeated here.

1. Genus Cupulita - Halistemma.

Only the upper part of the nectophore band is covered in a bell-like hood (involucre). The terminal filament of the tentilla consists of one terminal ampulla and 2 [NO] lateral horns [Is this the translator's mistake? No. Kawamura is confused about the 2 'parts' of Sars' Agalmopsis hence his mistake about trifid tentilla]

Since this genus most commonly occurs in the Mediterranean and in the Atlantic, it has been known for a long time and has been described in many publications as a representative species of the suborder Physonectae. The generic name was given by Quoy and Gaimard in 1824 and the genus *Halistemma* named by Huxley in 1859 is now considered to belong to the same genus.

Cupulita picta [Nanomia bijuga]
Plate 7. No. 1-10, Vol. 23

The author was able to study many specimens of this species while stating at Misaki Marine Experiment Station during January and February. Of these, eight are at present kept in the zoological class room of our school (the station). It addition it was also possible for me to examine a perfect specimen preserved by Prof. Iijima.

The body of this siphonophore is extremely small and long [13.5 cm] appearing exceedingly weak. The animal, when alive, vigorously expands and contracts. The length of the siphosome is 4 to 6 times greater than that of the nectosome.

The nectosome consists of a pneumatophore on the apex of the middle axis and numerous nectophores arranged in 2 rows around the same axis. There are 10 to approximately 50 nectophore [? in all] [?8-25 in each row]

The pneumatophore is small and egg-shaped, 1.8 20 2 mm in height and 1 to 2 mm in width, having 8 partitions. The light brown of the apex is very conspicuous and several juvenile nectophores are usually attached directly to the underside of the pneumatophore in the budding zone of the nectosome.

Although the exterior shape of the nectophore is a little confusing, it maintains a perfect symmetry and when viewed from the front, it forms a square whose sides are about 2 to 3.5 mm. On the other hand, the side view gives an irregular hexagonal shape, and its arrow-like axis [?the facet between 2 ridges] curves downward

convexly forming approximately a 60° angle with the axis of the nectosome. The outer surface of the nectophore is round and consists of the opening of the nectosac with a wide velum. Its lower margin is rarely extended into a process ['mouth plate' - but there are two little UU]. The dorsal surface of the nectophore is slightly depressed, ladder-like [?], and in the natural position it faces above outwardly [up and out]. Its surface is wide and divided into two small surfaces by a median groove which, connected to its interior [ventral] surface, form a large, extremely shallow curve. These small surfaces each have a diagonally reclining edge [ridge] near their inner side, by which they cut the shape of a triangle. [This is 'the anomalous ridge' of Villefranche specimens 52.9.23.4-5. Often it has a fork - but is v. variable]

Inasmuch as the outline of the ventral surface of the nectophore is nearly square, the central part protrudes conspicuously, and from its apex a ridge runs to each of the 4 corners like a four-cornered drill. The lateral sides of the nectophore are flat and form a slight irregular rectangle like a modified "S" (of a long axis).

The nectosac is comparatively very large and has, in general, the shape of the nectophore. That is, as seen in the other siphonophores of the same family, the nectosac of this species does not show the central part [when viewed from dorsal side] and the lateral branches distinctly. It simply has a wide flat cavity and an opening, almost vertical to this cavity, and the blind end of the former has a pair of conical processes [the lateral horns] on its lateral sides. Also one stalk-canal, 4 radial and one circular canals are found on the nectosac. Of these radial canals, the one on the ventral surface is short measuring about 1/4 of the dorsal (radial) canal while both the right and left canals are extremely long and form a very marked curve. [The exact and characteristic run of these is not completed]

The axis of the siphosome is slightly larger in comparison to that of the nectosome and freely expands and contracts. On the siphosome, generally more than 10 cormidia are scattered at equal distances.

Each cormidium has a siphon 3 to 6 mm in length. Its proboscis has 8 stripes of muscular bundles on its wall, by which it freely expands and contracts. The stomach is exceedingly long and cylindrical with a large bead-like (ball-like) basal part and a very short stalk. A tentacle extends from its dorsal side. The tentilla of the tentacle has a reddish cnidoband with the upper half hooded by a bell-like cover (involucre) which is connected with a long narrow stalk. On the end of the tentilla is a simple filament which sometimes becomes elongated or shortened. The cnidoband has 3 to 4 coils and its height and width are 8 and 2 mm respectively.

On the axis between 2 connecting siphons, numerous palpons are regularly distributed and the further down the stem each siphon is, the greater the age of the individual. The distribution of the palpons has already been mentioned with the discussion of the cormidia of *Physophora hydrostatica* volume of this publication [we have not got translation of this]. This discussion will, therefore, be omitted in this paper. Each palpon is fusiform and has a very thin wall. It ends blindly. At the end is an elliptical nematocyst mass. Although the palpon ordinarily is narrow and long, 1.5 to 0.3 mm in width, it sometimes becomes large, short and spindle-like with a linear dimension of 3.5 mm and a lateral dimension of approximately 2 mm. Each palpon grows a simple palpon filament on its stalk. Near it, are attached one male and one female gonodendron. However, at the top of the siphosome, the gonodendra are immature while on those near the lower end (of the siphosome) numerous gonophores can be seen.

The siphosome is entirely covered with bracts. Those of the dorsal part are extremely large, thin and leaf-like, and are convex on the dorsal side. At the middle

and lateral sides of the end of the bract are conspicuous cylindrical processes. The bracts which cover the palpons by attaching themselves to the nodes of the stem, also have a leaf-like shape but are much wider and shorter than those previously mentioned and the 3 terminal processes, too, are not as distinct. Each bract has a canal running on the ventral side along its median line. Young bracts are like a flattened cone whose exterior, that is, its bottom side [?distal end] is deeply concave. Their manner of attaching themselves are by a membranous peduncular lamella as in the Agalmidae.

However, the interpretation given by many investigators in the past that the bracts develop on the upper side of each palpon from its median line (stem) is incorrect. In fact, the peduncular lamellae for 2 longitudinal lines, on each side of the stem even though slightly irregular. Thus, the bracts are generally attached in 4 lengthwise rows around the stem. Inasmuch as the number of these rows may vary, such a distribution of the bracts in this species can be said to be similar to others of the same genus in the same family. In any case, the siphon and the palpons are hidden by one or several bracts and protected by them. Especially with the siphon, one of the bracts is always extremely large and long. However, the question of whether this large bract develops on the left or right side, reciprocally, or irregularly on both sides is not definitely established. That is because the arrangement of the peduncular lamellae is barely distinguishable after the removal of the bract, so that it is absolutely impossible to determine the size of a bract from the stump of the peduncular lamella.

The number of siphonophores belonging to this genus reported by many scientists is not small [it is]. For example, Haeckel has 7 species in his "Challenger Report".

- 1. Cupulita bowdichii Quoy and Gaimard [1824]
- 2. C. Sarsii (= Agalmopsis elegans Sars partim) [= Nanomia cara (No. 4)]
- 3. C. canariensis (= Anthemodes canariensis Haeckel) [N. bijuga]
- 4. C. cara (=Nanomia cara A. Agassiz) [= No. 2]
- 5. *C. fragilis* (= *Agalmopsis fragilis* Fewkes)
- 6. *C. picta* (= *Halistemma pictum* Metschnikoff) [*N. bijuga*]
- 7. C. tergestinum (= Halistemma tergestinum Claus) [N. bijuga]

Of these, one, No. 1 the author cannot offer a conclusive opinion without the original description, but No. 6 probably is probably the same as the species discussed here, while No. 2 is identical with the species discussed below. Therefore, it undoubtedly belongs to a different genus. [Kawamura is confused. Haeckel's No. 2 Cupulita sarsii is distinct from the Agalmopsis part Haeckel's No. 2 and maybe the same ???] Nos. 3, 5, 7 like No. 6 do not show any different characteristics. Therefore, the names given here are in al probability other names given to the species in question. Only No. 4 [same as Haeckel's No. 2] appears to be different. In addition two species Halistemma rubrum Huxley (= Agalma rubra Vogt) and Halistemma punctatum L. Agassiz (= Agalmopsis punctata Kölliker) which Huxley classified in the genus Halistemma are both clearly [NO] identical [NO] to Cupulita picta Metschnikoff [NO!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

Nagayoraku Kura Zoku (Agalmopsis) [Agalma]

The cnidoband is encased in a perfect sac (involucre). The end of the tentilla consists of a terminal ampulla and 2 lateral horns.

The genus *Agalmopsis* was originally created for a [two species of which Haeckel selected the one with trifid tentilla as the type species] North Atlantic species by Sars in 1846. However, at present it [the name] belongs to the genus

Cupulita [NO] as mentioned above. The ideal representative species of this genus is the one given below. Specimens of this species found in both the Atlantic and in the Mediterranean are the same as the species occurring in our Japanese waters. Our name was given on the basis of its greater length in comparison to Agalma although the former in general resembles the latter genus. (Translator's remark: Nagayoraku Kurage - Naga = long, Yoraku Kurage [?medusa] = Agalma, hence "long Agalma") However, it varies from Agalma conspicuously in one respect, namely, that its siphosome is exceedingly long and loosely covered with the leaf-like bracts. In this point, the genus rather closely resemble the genus Cupulita but when considering the structure of its tentilla, it, on the contrary, agrees with Agalma.

Naga Yoraku Kurage *Agalmopsis elegans* Sars Plate 7, figs. 11-17

The author was able to obtain a perfect specimen of this species as Misaki Experiment Station on January 29 of last year and at that time, had a chance to observe a number of much larger forms but it was impossible to catch them since the depth was too great.

The nectosome of the species consists of a pneumatophore on the apex of a narrow stem, generally forming an octagonal drill. The nectosome measured approximately 45 mm in length and 13 mm maximum diameter. Its pneumatophore did not differ at all from that of the previously discussed Cupulita picta. As far as its nectophores are concerned it resembles Agalma okeni more than Cupulita picta. The shape is symmetrical - the dorsal and the ventral sides, that is, the upper and lower sides, are flat and have 1/3 of their inner sides wedge-shaped (cuneiform). On its median line there is a deep arch. The outer 1/3 of the nectophore becomes outwardly progressively smaller from the left and right (of the median line), forming a decapitated four-cornered drill (see Fig. 12 of plate). The upper surface of the nectophore is slightly convex with a large rounded process from its centre. This process further appears to fit together with a depression on the underside of the corresponding nectophore lying above it. The lateral side is divided into two surfaces by a longitudinal ridge - the inner side triangular and the outer side four-cornered. The outer surface is small and square, being occupied by the nectosac opening, which has a wide velum.

The nectosac is comparatively very small occupying the outer half of the nectophore. The cylindrical part along its median line is almost the same size as the blind sac-like parts to the right and left, situated on the same horizontal surface but at a right angle.

The canal enters the nectophore at the bottom end of the curved median line and immediately shoots out a short, simple branch above and below. Then it reaches directly over the median surface of the nectosac where it branches out into 4 radial canals. Of these, 2 above and below, are short and only run along the nectosac wall over the median surface while the other two on the lateral sides (left and right) are extremely long and coil around this wall. These canals are connected to a circular canal at the basal part of the velum of the nectosac mouth.

The siphosome is slightly larger than the nectosome and very long and cylindrical. Its dimensions measured approximately 21.5 cm in length and 1.5 cm in width. The siphosome consists of cormidia situated on a narrow axis and numerous leaf-like bracts which surround it entirely.

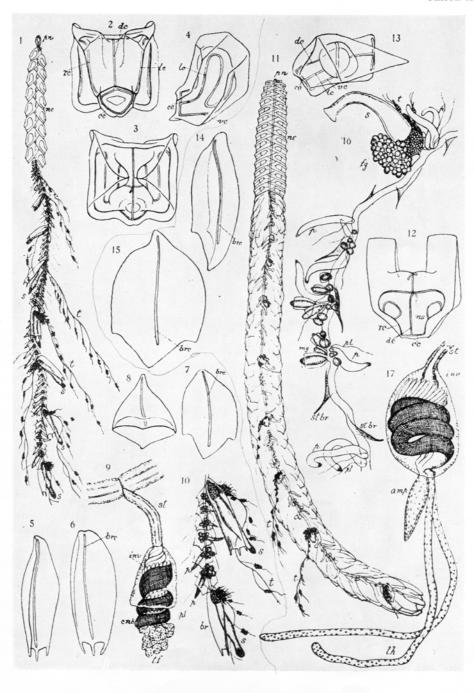
The mature bract is 10 mm long and 6 mm wide. Its upper surface is convex while its lower surface is concave. Particularly, since it follows along the longitudinal

axis, its general appearance is like a small inverted boat. On the extreme end none too conspicuous (slightly conspicuous) processes [ridges] are found in the middle and at both sides. A canal which runs on the underside of the bract develops at the leading end of the inner side, terminating near the extreme end (extremity) of the median line. The bracts are, in general, symmetrical and although those on one side differ slightly from those on the other side that are all relatively similar in shape. The manner in which the bracts attach themselves to the stem is, of course, by the peduncular lamella. However, the author regrets very much not having had a chance to study this on a live specimen or on a preserved specimen because of its torn condition. This particular species has been recorded in detail be Sars [tentilla only], Kölliker, Fewkes, etc. in the past, none have as yet clearly described the arrangement of the bracts. But it may, perhaps, have 2 rows each of bracts on the left and right as in the case of *Cupulita picta*.

Excluding young cormidia, there were approximately 12 cormidia found on the stem of the specimen. The basal part of the siphon is well developed and a tentacle extends from the stalk. The lateral branches of the tentacle are equipped with a large tentilla on the top of a long stalk, with a reddish cnidoband coiled counterclockwise 3 or 4 times and completely encased in a transparent sac (involucre). On the upper part of the cnidoband spindle-shaped nematocysts are attached forming a line. There is, however, one point which must be born in mind, that the lower end of the enidoband turns clockwise in contrast to the other parts of this structure. This fact has not been reported for Agalmopsis elegans (C. sarsii) or for other siphonophores belonging to this family. It is the only difference existing between this species and those of the Atlantic. However, if such a structural variation is actually true, we can well accept the former as a variety of the latter. Yet, according to illustrations made by the past master, in which the chidoband simply coils around several times it is difficult to determine whether it is clockwise or counter-clockwise. There is reason for some doubt on the direction of the turns. The terminal filament of the tentilla consists of a spindle-shaped terminal ampulla and 2 cylindrical lateral horns. The latter are exceedingly narrow and long - almost 4 times greater in length than the former. Both have small nematocyst over the entire surface.

The palpons are irregularly distributed over the stem. This characteristic is one of the specific differences between this genus and the genus *Cupulita = Halistemma*. Each palpon is long, spindle-shaped with a palpon filament growing from the base of its narrow stalk. Its blunt tip is protected by a group of nematocyst, quite similar to common palpons.

A female gonodendron is found directly below the siphon, and numerous male gonophores are scattered over the middle 1/3 of the internodal section of the stem without forming a cluster (gonodendron). [An arrangement shown clearly, though crudely, by Kölliker 1853]



[Copied from Totton, 1965, Pl. X]

Legend Vol. XXIII, Plate 7. Figures 1-17

Cupulita picta Metschnikoff [= Nanomia bijuga] Figs. 1-10

Fig. 1. Entire animal a 1 1/3 [13.5 cm]

Figs. 2-4 Nectophores x 7.

Figs. 5-6. Bracts x 7.

Fig. 7. Internodal bracts x 15.

Fig. 8. Young bracts x 15.

Fig. 9. Tentillum x 15.

Fig. 10. Cormidia x 2 2/3.

Agalmopsis elegans Sars. Figs. 11-17.

Fig. 11. Entire animal x 2/3.

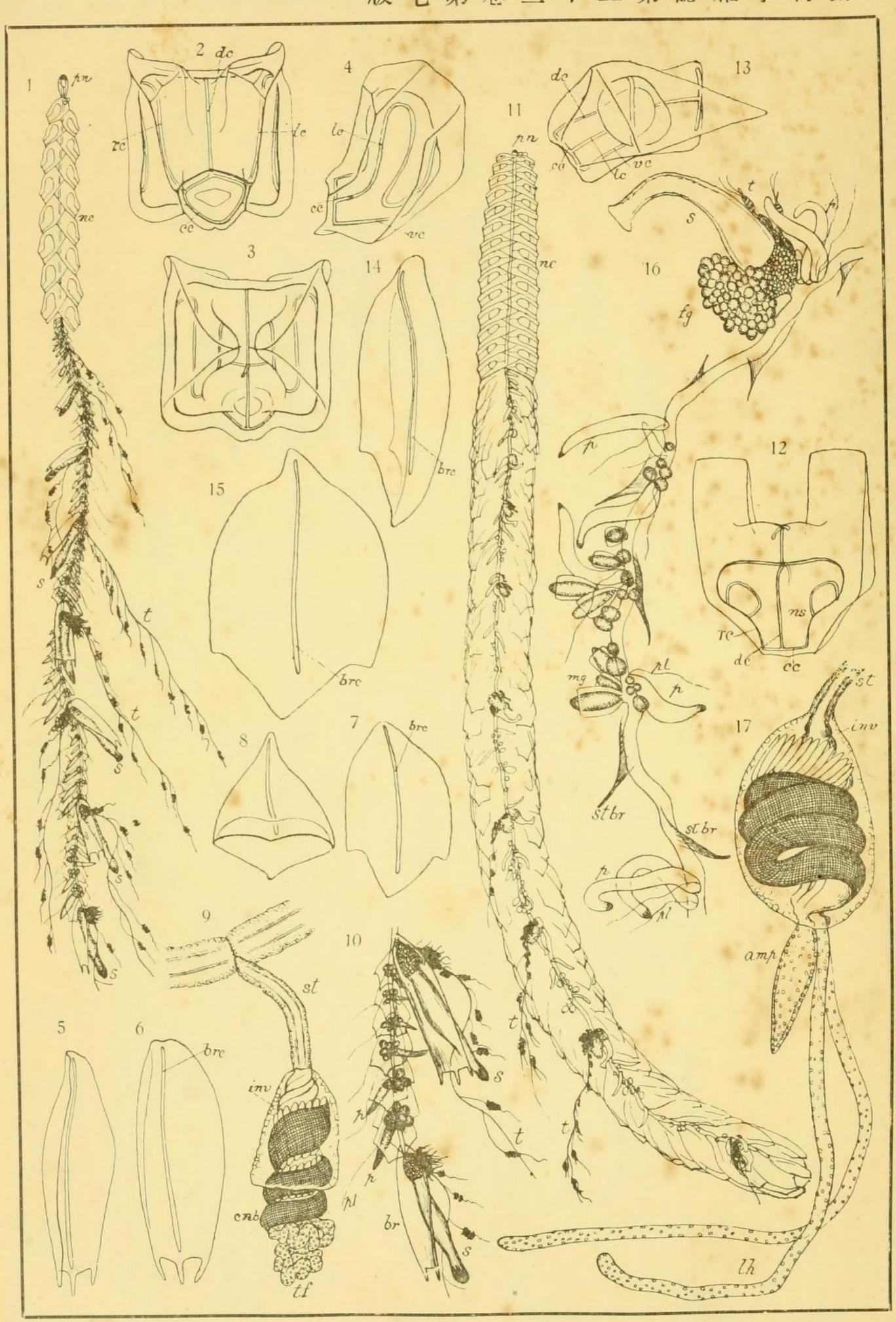
Figs. 12-13. Nectophores x 6.

Figs. 14-15. Bracts x 4.

Fig. 16. Cormidium (without bracts) x 4.

Fig. 17. Tentillum x 15.

nc. nectophore; pn. pneumatophore; t. tentacle; s. siphon; cc. circular canal; lc. lateral canal; rc. radial canal; vc. ventral canal; brc. bracteal canal; st. stalk; inv. involucre; cnd. cnidoband; tf. terminal filament; p. palpon; br. bract; fg. female gonodendron; mg. male gonophore; pl. palpon filament; st.br. peduncular lamella; amp. ampulla.



T. KAWAMURA del.



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論

說

ダレザク ラ ク ラゲごナ ガヤ ウ ラ ク ク ラゲ

亞科の特徴に就きては既に本誌第二十三卷第二百六十七號に略述した 亞目 opsis に向つて用ひんとする稱呼なり。 此兩屬は共に日 Physophora は該亞科を呼んでシダレザクラクラゲ亞科と稱せんと欲す。此科及び シダレザクラクラゲは此亞科の中に於て最も普通なる屬なるを以て、余 rystallominae に属すれざる、此二種は共に亞科 Inthomodinaeに属す。 たるヤウラククラゲ及びコヤウラククラゲに同じ。但し後者は亞科C 生の命名せられる和名、ナガヤウラククラゲとは余が同じく屬 ダレザクラクラゲとは管水母類の一属 (即はに に向つて飯島先 Physonecto 科 Agalmida に属すること、余が先きに報告し

●シダレザクラクラケ屬(Capalita=Niclistenna)

るを以て姓に再び説かざる可し。

籍中に例示せらるゝ動物なり。此屬名は一八二四年クォ 終絲は一 よう觀察せられ Physonectae 亞目の代表者としてよく書 此屬は地中海大西洋に於て極普通なるが為めに、早く 刺胞帯は上部のみ鐘狀の被蓋を以て被はる。 個の終末囊で二本の側角でより成る。 刺胞叢の

> 學 士]|| 村 多 實

(第三十三

附卷

理

ア、ゲーマール兩氏が作れるものなるが、 一八五九年に作りし Halistemma 園は現時に於ては全く ハック ス リーが

同一の屬と認めらる。 ダレザクラク ラゲ

第一乃至第十圖

Cupulita picta Metchnikoff

をも見たり。 に保存じあり其他飯島先生の固定せられし完全なる標品 本種の標品多數を見ることを得其中八個は今動物學教室 余は昨年一月より二月に亙り三崎臨海實驗所に滯留中

に二列に配置せられたる多数の泳鐘とより成れり。泳鐘 縮す。營養部は泳鐘部の四倍乃至六倍の長さを有す。 の數は十乃至五十餘なり。 泳鍾部は中軸の頂端にある一個の氣胞で、 體は甚だ細長くして纖弱なり。生時に於ては活潑に伸 中軸の周圍

氣胞は小くして卵球形高一・八乃至二ミ、メ、幅一乃至

論 ○シダレザクラクラがとナガヤウラククラゲ(川村)

(360)

○シダレザクラクラゲとナガヤウラククラゲ(川

明

b なる 30 泳鐘 外侧 る 氣胞 方形をなし、 9 を常とす。 外形は稍複雑なるが、 Œ 面 0 直 より 個 下 見 (1) 侧 泳鐘 る時 隔 面 は より見る時 0 0 芽 60 ___ 邊の長二乃至三・五ミ、 出 完全なる左右 頂 部 端 1= は は 0 數 個 色素 U) 相 幼 稱 泳 鐘 < 0

面に分 鐘 如き形を爲せり。 き彎入を作 < にして廣き線膜 0) を呈す、 點 0 3 凹 中 に曲 より 腹 一稜ありて、一個の三角形 軸 面 たる、 此 が突起狀に延長 どは約六十度の 其矢狀軸 匹 n は 面 外廓殆 梯形に 隅 3 n 0 0 長 Ŀ 溝は泳鐘 を具 方形をなせ 向 半 は 泳鐘 上記 ・は廣 i 正方形なるも、 U 少しく下方に凸隆して彎曲し、泳 て走 2 て、 3 0 せること少し。 角度をなせり。 0 0 泳嚢の る稜 兩 內面 側 淺き正中溝に 自然の位置 50 小 面 面は其 は扁 に續きて其所 あるを以 開 0) 小 口 中央部著し 平 1= 面 內 1 於ては 泳鐘 方に -を切 より 泳鐘 より 不規則なる六角形 して、 近 て占 恰 t 0 に大な h 0) 長 外上 B 取 背 外 < < 軸 突 四 n 面 め 面 角錐 90 方に 6 は圓 を保て 0 起 3 0 は 横 少し 鐘 甚 兩 稍 É 其 は 淺 小 向 形

環 曲 管と 난 に過ぎず 50 あ 50 左 右 腹側放射管短 兩側放射管 くして背側放射管の は 甚だ長くして其 走向 約 强 四 一分の 5

附

せら 縮自在 營養部の 30 50 0 中 其上 軸 は泳鐘 は 通常· 部 0 それ + 個 以 12 上 比 i 0 幹群 T 少し < 太 1 配 伸

盲狀に 略す。 せり。 る赤 て背側 吻部 體 の細長き形を取るを常さすれ 威觸體は長 西己 則 至 h き抦部に 長くして て、 正しく 列 四 各幹群に 個 抦部より を論ずる 回 色の は壁に 終り、 螺旋 或は長 の連續 各感 其配 幅 より一本の 配置 續 刺 圓 二ミ、メ、位の紡錘形を取れることあり。 きて、 胞帶 觸 置 狀 筒 八 13 一・五乃至二: 其所に に際 せら 條 は 豐田豆 41 < 形 せる營養體 に捩れ、 開し 延び、 個 は あ 0 り、 ń 觸手 本の簡單なる感觸絲出づ、 紡 ì 鐘 筋 0 基部 形 肉 些 錘 ては本誌前 T 或は收 を出 個 旣 其高 狀 下方に至 の被蓋に 又其先端 は 束 養 に述 0 球 6 體 0 にして 橢 間 h メ、幅〇 さ八ミ、メ、輻二 せ 形 あ 50 りつ ご、時 33 縮 0 圓 1= T て太く、 る處 極 號 3 軸 ょ 活 形 して存す。 1= に從ひ 長 薄 h 上 觸 潑 0 ~1" __ ●二万至○●二、、 に太く短く長さ三・五 本 て其 刺 き壁 あ V には多數 手 さ三乃至六ミ、メ、 細 ン 神 6 0) 0 クラ 單簡 縮し、 胞 を有 τ Ê 抦部 12 刺 順次其 111 集 3 半 胞 刺 ゲの を被 又同所に近 を以 胞帶 叢 團 0) は なる終絲 メ、あ 感 を具 極 各威 先 幹 齡 觸 は細 部 7 は は 短 500 莊 Z 端 re < は n 乃 は 0 規 あ 12 頗

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3 他

登録がよる女の尿瘻によりて完全に皮包まらる。 就熟なるも下方に於ては數多の生殖體を生せるを見る。 熱なるも下方に於ては數多の生殖體を生せるを見る。

て、 幹の各側 然るに從來凡ての學者の云へる保護葉が各感 ならず。但し此大なる保護葉が左側 葉の配置と其揆を一にするものと謂ふ可し。 は幹の周圍 クラゲ科管水母の場合で同様に、 く凹陷せり。 る圓錐形にして、 の管を有す。 著明なり。 記の保護葉に比し幅廣くして短く、 感觸體を被包せる保護葉も亦、其形葉狀をなせごも、上 側に圓筒狀の著しき小突起あり。幹の節間 i 中營養體の背部を被へるものは甚大にして薄く、 起る 場合には特に 體及び感觸體 て背方に向 營養部は多數の保護葉によりて完全に被包せらる。 潜在 線より出づ 列數の差違こそあれ、 か に於て縦に二列をなして存せり、從つて保護葉 、し之によりて保護せらるゝものにして、 各保護葉は其正中線腹面 或は交互 に大凡四総列をなして配置せらるとものにし 幼稚なる保護葉に ひて四 保護葉の幹に附着する方法は他 どの 其 は其近傍に 其外面即ち圓錐 一が著るしく長大となり 亡に起 解釋は誤に 隆せり。 3 かい 他の同一科の諸屬に見る保護 ある一個又は數個の保護葉の 其末端 或は して抦瓣は稍 ありては形 膜狀の抦瓣に の底面に當れる所は深 叉先端の三突起は不 不規則 より起るか に沿ひて走れる一本 には中央及び左右 に雨 たるものに外 扁 部 觸 而して 不規則作ら 0) 歴せられ に附着し 體 よれ 側 ヤウラク 營養體 右側よ の上側 葉狀に より起 50 就 7

> 片に るか ることは到底不可能の事なるを以てなり。 したる時の抦瓣の大さ等によりて保護薬の 本属の管水母として古來學者によりて報告せられ 0 して始 點に 8) 至りては未だ詳ならず、 て稍之れ を追 水し得 るもの 之れ抦瓣の配置 なるに、 大小を判斷す 切片と は切 たる

管水母類に於て次の七種を計上せり。もの決して少からず、ヘッケルは『チッレンジァー』報告の

- C. bowdichii Quoy et Gaimard.
- 1 | C. sarsii (=Agalmopsis elegans Sars partin)
- [1] C. canariensis = Anthomodes canariansis Habekel)
- 国' C. cara (=Nanomia cara A. Agassiz)
- H' C. fragilis (=Agalmopsis fragilis Fewk)
 C. picta (=Halistemma pictum Metennikoff)
- 此中第一は原著を見ざれば確言し難きも多分第六即ち七、C. tergestinum (=Hulistemma tergestinum CLAUS)

almopsis punctata Nölliker) の二種は共に明に本種となれば、無論別屬なり。第三、第五、第七塾れも第六即ち本なれば、無論別屬なり。第三、第五、第七塾れも第六即ち本なれば、無論別屬なり。第三、第五、第七塾れも第六即ち本なれば、無論別屬なり。第二は次に記すナガャウラククラゲルが Halistemma 屬に入れたる H. rubrum Huxlex(=A-なり) と H. punctatum L. Agassız (=A-yo) になっている。 Admopsis punctata Nölliker) の二種は共に明に本種と同一ならん、第二は次に記すナガャウラククラゲーを表し、第二は次に記すナガャウラククラゲーを表し、

一種なり。

〇シダレザクラクラゲとナガヤウラククラゲ(川村)

サガヤウラククラゲ屬 (A galmopsis

〇シダレザクラクラゲとナガヤウラククラゲ(川村

二本の 刺胞帯は完全なる嚢に 侧 角とよりなる。 包まる。 終絲は一個の終末囊 3

ゲ

我近海に産するものと同 は即ち つて全くヤウラク クラクラゲ属 於て著しく異 養部甚だ長くして緩やかに葉狀の保護葉に被はる~點 びたるもの t グ 種 ウラククラゲ (Agalma) に似 レザクラクラゲ属 に向つて作れる圏なるが今は該種は前に述べし Agalmopsis 次に記載 に外ならず。 に近けれざも、 n 屬は 千八百四十六年 90 する一種にして大西洋並に地中海 クラゲ 此點 のものとなりた されごヤウラククラゲとは其營 に一致せり。 に於て本屬は寧ろ甚 一種なり。 其刺胞叢の構造に於ては却 て彼よりも長き事 50 サー 本屬の和名は其外見 此屬の ス かゞ 北 だシダ 好好 大 より 如くシ 代 西 0 レザ 種は 表種 洋

を具

C,

Agalmopsis elegans ナ 扩 t ウ ラ ク ク SARS ラ 15.3 (第十一乃至第十七 圖版

なるものが 全なる標品 どもする能 余は昨年 一月二 水中に游泳せるを認めたるも、 個を捕へ得 はざりき。 十九日三崎實驗所沖合に於て本種の完 たるが、當時猶多數の一層長大 深くして如

5 脃 二列に配置 泳鐘 構造は前記 其長 部 さ大 は 細 せらるろ泳鐘とより 凡 き幹の頂上 シグレ 四五 ミ、メ、長徑一三ミ、メ、を測りたり ザクラの場合こ少しも異らず。 にあ 3 なり、 個 0 氣胞 側扁 八角錐 150 其 をなせ 周 圍 1=

> 扁平、 面あり。 れど相應する凹陷と關節する様になれり。 其中央に大なる圓 截頭四角錐形をなす。 入あり。外方の三分の一は外に向つて左右 泳鐘 個の縦稜によりて、 の泳鐘に似た ふる泳囊口によりて占め 内方三分の一は楔形をなし。 は 泳鐘 シグ v の外面は小にして正方形をなし、 50 ザクラクラゲの泳鐘 形の隆起ありて、 形左右 内方の三角形、 泳鐘の上面は少しく凸隆し、更に 相 稱にして背腹(即ち上下 30 泳鐘の下面 其正中線には深き彎 よりもヤウラククラ 外方の四角形の より細くなり、 泳鐘 廣き緑膜 O) に在る之 側 兩

其正 殆同大且 泳囊は比較的甚だ小にして、 中線 同 にある圓筒形の部分は左右の盲管狀の部 水平面上に あり之と直角に位置 泳鐘の外半を占 せり。 むるのみ 分では

口線膜の基部に於て一本の環管により連結 は甚だ長 正中面を泳嚢壁に沿ひて走れるのみなるが、左右の二本 達し其處 短く終れ 柄管は彎入の底正中線に於て泳鐘に入り、 ~泳囊壁に沿うて蛇曲せり。 に四本の放射管に分る。就中上下の二本は短く、 る簡單なる一枝を出 し、正中面を直線に泳囊に 此等放射管は泳 せらる。 直に上下に

圍を完全に被包せる多數の葉狀の保護葉ごよりなれ 測りたり。此部は細き軸の上に配置せらるる幹群と、其周 筒狀をなす。其長さ大凡二一・五セ、メ、幅 營養部は泳鐘部 保護葉の完成せるものは長一〇ミ、メ、幅六ミ、メ、上面 よりも少しく太く 且甚だ長くして圓 一・五セ、メ、を 50

四

0 2

ž

ザ

クラクラ

ゲとナガヤウラククラゲ(川村

を異に 其 は凸 右側にあるも 近 3 に驗することを得ざりしのみならず、 るは抦瓣 < 兩 本の管 側 達して終る。 し、 に稍 によれること勿論なるが其配置 槪 面 著明 形は 恰も相對應せる形なり。 あ は凹陷す、 ら、 いご左側にあるものでによりて少し なる突起 船を伏 保護葉は大體左右相 內 方の 殊に縦 先端 あ せ 000 12 んるが如 より起 0 保護葉の 軸 に沿 b 保護葉の幹に附着す i 固定 ひて 稱形なる 正中線 F は生ける 然る した 面 は を以 沿 中 を実端 る 央及 標 間 ひて走 其形 本 に審 T 20 3)[6 び

右 1 0) ル、フュー せ ること能はざりしを遺憾とす。本種は古來サース、ケ 全〜支離滅裂の 狀況に 5 なれざも、 側各二列の保護葉を有するに非ざるか せし者なし。或はシ さて幼き幹群を除きて幹の上に大凡十二個の幹群 れて存せりき。 クス等の人々によりて詳 保護葉の配列如何に至つては何人も之を明 營養體 ダレザクラクラゲの場合の如く、左 ありしが故に、途に之れを確 の基部はよく しく記載せられた 發達 部 3 IJ 配 B

5

意す なる i h 取れることにし Ŀ て、 みならず、 部に接着して、 可きことは 刺胞叢 本の 透明なる囊によりて完全に被包せらる。 觸手 を具 此科の管水母に於て報告せられ て、 を出 刺胞帯の下 紡錐形 赤 從來 色 せ 50 0 刺胞 0) Agalmopsis elegans (A sarsii 端か 巨大なる刺細胞整列 觸手側枝は長き抦 帶 他 は三 の部 四 分と反對に 囯 右 螺 旋狀 0 たることな せ 刺 先 50 左旋 胞 1 蜿 帶 曲 0

> なりの 後者 ど二本 點より判斷 して、 此性質は本属とシダレザ ご終末囊に四倍 稍疑なき能はず。 か により防 感觸 感觸絲を出 左旋かは了 個 質なり。 0 種 に 體 0 若しそが果して真實 の雌生殖體叢 各感觸體は長紡錘形 圓 護 は幹の上 して、 筒形 せらる~こと普通 こは本種で大西洋種 相 解し難し)に巻けるのみの様 せりの 0 當 又其盲狀 に不規 刺胞叢の終絲は 側 古 するものならむと信ずれ 人が 角ごより成 は營養體 各は 則 クラクラゲ屬さの 刺胞帶が單に數回螺旋狀 に終れ に配置 全 存 にして、 在する の感觸 一面に 0 30 直 さの 下にあ 幹の節間部中央三分の る先端 せらるる 小 其細 後者は 個の 6 體の 刺 間 9 細胞を備 50 紡 なら 塲 0) は 抦 甚だ 唯 刺 0 間 から 錘狀の終末囊 ざまかん 合に異ら に圖示せるは 多数の 如く見 の差違 細 根 3 細長 胞 本 種 差違 本 よりは 0 (右旋 すっ W < 々の 種 の 雄

第 七 版 8 列

の處

に散在せり。

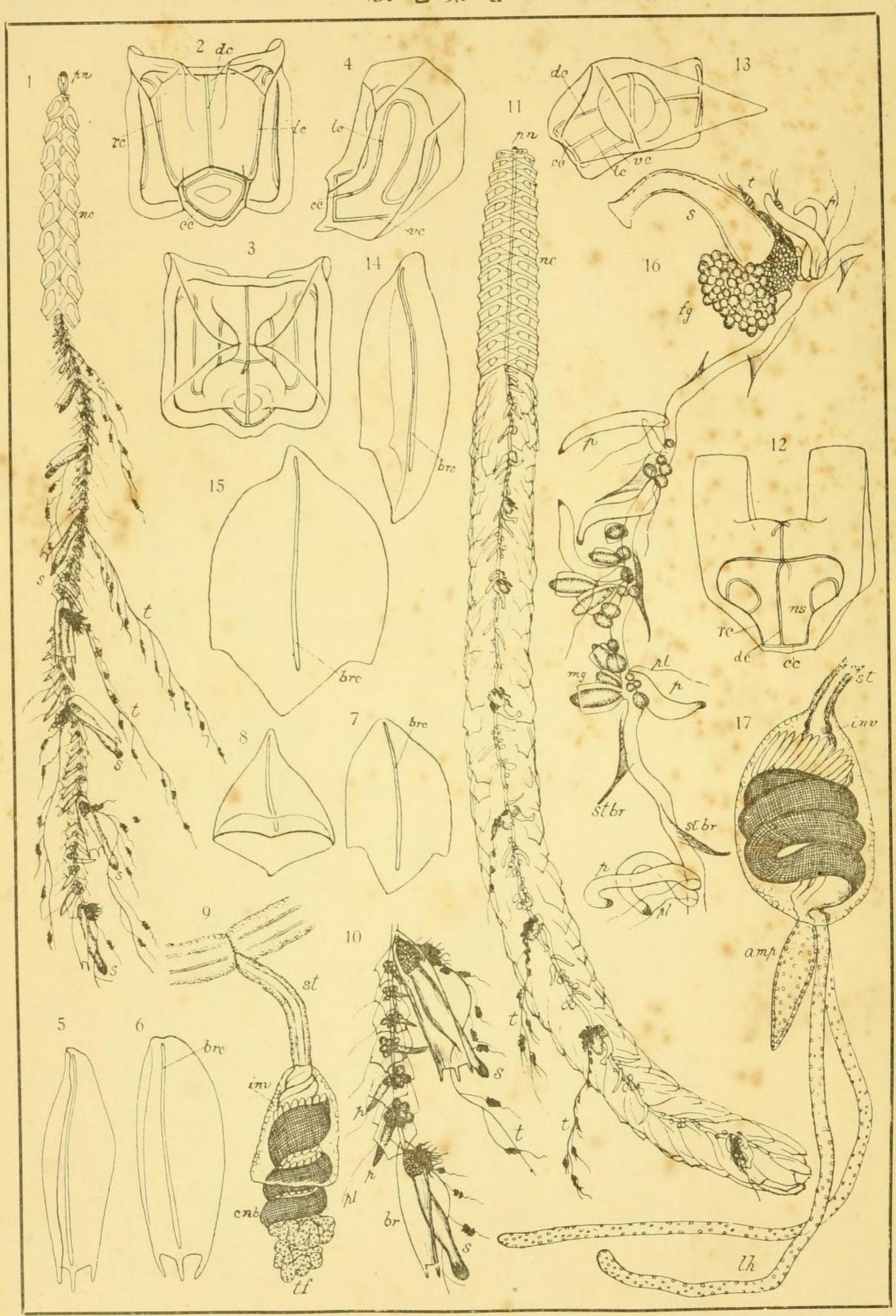
殖體は生殖叢

を形づくらずして、

幼保護葉(×15) 鐘(×7) 十三圖冰鐘(×c) 十個シダレザクラクラゲ 一十七圖ナガヤウラククラゲ --六圖保護葉(×1) 第九圖刺胞叢(×15) 第十四 一十五圖保護葉(×1) 第一圖全形(×1分) 七圖節間保護葉(×15) 第十圖幹群(×22/x)° 第十六圖 第二 保護葉を 四圖冰 第十二

除きたる幹群(×4)

第十七圖刺肥養(×15)



T. KAWAMURA del.