Anonymous, , 1890. Specimens obtained on a dredging trip in Port Jackson, Saturday, 30th May, 1890. *Records of the Australian Museum* 1(4): 84–88. [30 September 1890].

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Without a thorough knowledge of the conditions under which the Alga occurs in the Maitland district, it is difficult to say what steps should be taken with a view to its destruction. Under the circumstances I can only make a few suggestions which might, if carried out, tend to reduce its numbers.

In the first place it is a well known fact that the Rotifera or Wheel-animaculæ feed on small unicellular Algæ such as the one in question. The Unio or Fresh-water Mussel might also be tried, its introduction would not be injurious to the water supply. But I consider the best plan would be to take advantage of the resting stage of the plant, and engage a staff of men to skim the surface of the water. With suitable wire gauze frames vast quantities might be collected and destroyed. If this method were adopted for several seasons in succession the organism might ultimately be eradicated. The following are a few of the more important works in which this Alga is dealt with :—

Chlamydomonas pulvisculus, Ehrenberg; Die Infusions thierchen, 1838, p. 64.

Chlamydomonas pulvisculus, Pritchard ; Infusoria, 1861, p. 521, pl. 18, f. 40, 51 – 54.

Chlamydomonas pulvisculus, Cooke ; British Freshwater Algæ, 1882–4, p. 56, pl. 21, f. 3.

Chlamydomonas pulvisculus, Bennett & Murray ; Handbook of Cryptogamic Botany, 1889, pp. 186, 299, 300, 409, 417, 419.

I have the honor to be,

Your Obedient Servant,

THOMAS WHITELEGGE.

SPECIMENS OBTAINED ON A DREDGING TRIP IN PORT JACKSON, SATURDAY, 30TH MAY, 1890.

As an instance of the very extensive Marine Fauna of Port Jackson, the following list of the various species obtained in one day's dredging is given. The specimens have been determined

by Members of the Museum Staff, viz. : —Mollusca by Mr. Brazier, General Invertebrata by Mr. Whitelegge :—

MOLLUSCA (6 to 8 fathoms).

Green Point, Watson's Bay.

Octopus granulatus, Lam.
Murex Brazieri, Angas †
Typhis arcuatus, Hinds †
Triton fusiformis, Kiener †
Fusus Hanleyi, Angas *
Eburna (Zemnia) australis, Sowb.
Nassa jacksoniana, Quoy, small var.
,, *paupera*, Gould
Cominella tritoniformis, Bl.
Neritula lucida, Ad. & Ang.†
Olivella exquisita, Ang.†
,, *nympha*, Ad. & Ang.
Amalda marginata, Lam.
,, *oblonga*, Sowb.
Mitra strangii, Angas *
Columbella eximia, Reeve *
,, *filosa*, Angas
,, *lincolnensis*, Reeve
Marginella orulum, Reeve
,, *turbinata*, Sowb.
,, *Metcalfii*, Angas †
,, *olivella*, Reeve
,, *translucida*, Sowb.
Volvarina mustellina, Angas †
Natica euzona, Recluz
,, *subcostata*, Ten.-Woods†
Neritina souverbiana, Mont.*
Scalaria jukesiana, Forbes
,, *oculeata*, Sowb.
Crosseia concinna, Angas *
Turbonella nitida, Angas
Odostomia levis, Angas
Terebra bicolor, Angas
Drillia Metcalfii, Angas
Clathurella bicolor, Angas
,, *sp.?*
,, *sculptilis*, Angas
Mangilia lineata, Reeve
Trivia globosa, Gray †
Pelicaria scutulata, Martyn
Bittium granarium, Kiener
Cerithiopsis crocea, var., Ang.*
Triforis nigrofuscus, A. Ad.
Rissoina Smithi, Angas
,, *sp.*
Turritella sinuata, Reeve
Trochita calyptraeformis, Lam.
Crypta unguiformis, Lam.*
Capulus violaceus, Angas *
Vanikoro gaimardi, Adams *
Australium tentoriformis, Jonas
Liotia Kieneri, Philippi †
Clanculus clangulus, Gray
Elenchus badius, Wood
Trochus decoratus, Philippi
Leiopyrga picturata, H. & A. Ad.
Minolia prodictus, Fischer
,, *vitiligenia*, Menke
Gibbula Cori, Angas
,, *strangii*, A. Ad.
Gena nigra, Quoy & G.
Lucapina lineata, Sowb.
Emarginula candida, A. Ad.
Hemitoma rugosa, Quoy
Tugalia parmophoidea, Quoy
Buccinulus affinis, Ad.
,, *niveus*, Angas *
Cadulus acuminatus, Desh.
Myonia concinna, A. Ad.
,, *sinuata*, Angas *
Ringicula doliaris, Gould
Bullina lineata, Gray
Cylichna arachis, Quoy
,, *regularis*, Gould *
,, *pyramidata*, Ad.†
,, *pygmæa*, A. Ad.†
Tornatina fusiformis, A. Ad.
,, *Hofmani*, Angas

* Rare. † Very rare.

Bulla australis, Gray
,, *ampulla*, Linne
Haminea cuticulifera, E. A. Sm.
Philine Angasi, Crosse
Humphreyia Strangii, A. Ad.*
,, *multiangulare*, Tate†
Solon Sloani, Gray
Saxicava artica, Linne
Corbula tunicata, Hinds
,, *Smithiana*, Braz.*
Neæra Brazieri, E. A. Smith †
Myodora pandoraeformis, Stuch
Mactra jacksonensis, E. A. Sm.*
,, *oralina*, Lam.
Lutraria oblonga, Gmelin
Psammobia modesta, Desh.
Tellina, sp. ?
Chione striatissima, Sowb.
Circe Angasi, E. A. Smith
Tapes inflata, Desh.
,, *turgida*, Lam.
Lucina, sp. ?
Modiola Australis, Gray
Modiolaria barbata, Reeve
,, *Cumingiana*, Dunker
Trigonia Strangei, Ad. (2 valves)
Arca gubernaculum, Reeve
Megerlia pulchella, Sowb.*

General Invertebrata, exclusive of Mollusca.

Tunicata.

Boltenia pachydermatina, Herd.
Polycarpa tinctor, Qy. & Gaim.
,, *viridis*

Polyzoa.

Notamia gracilis, McGillivray
Beania conferta, ,,
Flustra militaris, Waters
Membranipora spinosa, Q. & G.
Cribrilina radiata, Möll.
,, *clithridata*, Waters
Microporella ciliata, Pallas
,, *diadema*, McGill.
,, *malusii*, Savigny
Schizoporella dicisopora, Waters
Lepralia elimata, Waters
,, *poissoni*, Savigny
,, *vestita*, Hincks
,, *depressa*, Busk
Smittia praestans, Waters
,, *signata*, Waters
Porella inversa, Waters
Cellepora mammillaris, Busk
Selenaria punctata, Ten.-Woods
,, *concinna*, ,,
Bipora philippinensis, Busk
,, *elegans*, D'Orbigny
Amathia Lendigeri, Linn.
,, *tortuosa*, Ten.-Woods

Crustacea.

Micippa parvirostris, Miers
,, *spinosa*, Stimpson
Paramithrax Peroni, M. Edw.
Pilumnus rufo-punctatus, Stim.
Dromia excarata, Haswell
Cryptodromia sculpta, Haswell
Cibanarius, sp.

Cirripedia.

Balanus trigonus, Darwin
Dichelaspis orthogonia, Darwin

Vermes, Gephyrea.

Phymosoma japonica, Grubé
Phascolosoma Australis, Keffer.

Echinodermata.

Antedon pumila, Bell
Pectinura gorgonia, Lutken
Ophiactis resiliens, Lyman
Ophionereis schayeri, Mull. & T.
Ophiothrix caespitosa, Lyman
,, *fumaria*, Mull. & T.
Astropecten polyacanthus, ,,
Antheaea acuta, Perrier

* Rare. † Very rare.

Stichaster polyplax, Mull. & T.
Asterias calamaria, Gray
Centrostephanus rodgersii, A. Agassiz
Salmacis alexandri, Bell
Amblypneustes, ovum, Agassiz & Dessor
Echinocardium australe, Gray
Colochirus spinosa, Q. & Gaim.
Phyllophorus perspicillum, Sel.
Synapta dolabrifera, Stimpson

ACTINOZOA.

ALCYONACEA.

Spongodes florida, Esper
Sarcophyllum grande, Gray
Clavella australasiæ, Gray

ZOANTHARIA.

MADREPORARIA.

Conocyathus zealandiæ, Dunc.
,, *compressus*, T.-W.
Cylicia quinaria, Ten.-Woods
Heteropsammia elliptica, T.-W.

The above list by no means includes all the species obtained, there are many more which require identifying, but time does not admit of them being dealt with at present.

The Polyzoa obtained are very interesting, inasmuch as there are amongst them many of the species lately described as new by Mr. A Waters, and others described by the late Rev. J. E. Tenison-Woods, the whole of which are additions to the collection. *Selenaria punctata*, Ten.-Woods, and *S. concinna*, Ten.-Woods, were obtained in quantity and in good condition, no doubt many of them were alive when caught in the dredge, but owing to the subsequent washing and drying the vibracular organs were destroyed. *Amathia lendigeri*, Linn., is recorded from Port Phillip, but has not previousiy been observed in Port Jackson.

Among the Crustacea two species are worthy of notice: *Paramithrax peroui*, M. Edwards (new to our local fauna), and *Dromia sculpta*, Haswell, a rare and interesting species. The specimens obtained have enabled me to settle the question regarding the identity of *Cryptodromia nodulifera*, Henderson, described in Vol. xxvii. of the "Challenger Report" with *Dromia sculpta*, Haswell. After a careful examination of the type and a dozen other specimens, I cannot see any valid reason why they should be regarded as distinct; the specimens exhibit a considerable amount of variation in the number and size of the nodules, and in the areolation of the surface of the carapace; in the female and in young males the regions are ill-defined, but in adult males the regional depressions are well marked. The "Challenger" specimens are evidently immature as the following measurements will show: (1) Adult male—length of carapace 12 mm., breadth 13 mm.; (2) adult female—length 9 mm., breadth 11 mm.

The two Cirripedes obtained were both interesting, *Balanus trigonus*, Darwin, on account of its being full of ova, a fact worth recording, as little is known regarding the breeding season of our Cirripedes; the vitality exhibited by this species is remarkable, some hundreds were obtained attached to the branch of a tree; after being out of water for two days the branch was soaked in

fresh water for about five hours and afterwards hung up to dry, at the expiration of three days they were found to be still alive, and many of them had ejected the ova through the valves at the summit. The *Dichelaspis orthogonia*, Darwin, was like five or six other clusters previously obtained, attached to the axis of a species of Virgularia, which seems to be the favourite habitat for this rare species.

ADDENDA ET CORRIGENDA.

PAGE	LINE	
8.	1.	Omit "Re-."
8.	1.	For "an" read "a new."
8.		Omit foot-note *
9.	30.	For "44" read "48."
10.	1.	Omit "Re-."
10.	1.	For "an" read "a new."
10.		Omit foot-note.
18.		Foot-note † for "1877" read "1887."
20.	32.	For "milee" read "miles."
23.	33.	For "viverinus" read "viverrinus."
24.	36.	For "Lymnodynastes" read "Limnodynastes."
27.	30.	For "Barwon" read "Barron."
30.	20.	For "nalabatus" read "ualabatus."
30.	42.	For "Scenoœpus" read "Scenopœus."
31.	10.	Omit "Ptilotis" and substitute „
31.	17.	For "epioletus" read "epicletus."
31.	17.	For "Agavista" read "Agarista."
31.	36.	For "Gonyodactylus" read "Gonyocephalus."
31.	38.	For "Myxophies" read "Mixophyes."
36.		Omit foot-note.
37.		Omit foot-note.
38.		Omit foot-note.
41.	6.	For "Lucodore" read "Leucodore."
49.	23.	Add "4" after "Ser."
51.	24.	For "moveable" read "movable."
52.	6.	Add "4" after "Ser."
61.	30.	For "macroscopic" read "microscopic."
65.	30.	For "mising" read "mosing."
69.	5.	For "cresentic" read "crescentic."
78.	2.	For "(155)" read "(15·5),"
81.	23.	For "of the total" read "in the total."
81.	23.	For "four-sevenths of" read "four-sevenths in."
81.		Omit "and is" in foot-note.
86.	8.	For "artica" read "arctica."
86.	19.	Add "Herd." after "viridis."
87.	6.	Omit "," before "ovum."
91.	40.	For "subtymppanal" read "subtympanal."
98.	41.	For "mmch" read "much."
99.	18.	For "this" read "thus."
99.	30.	For "percepttble" read "perceptible."
123.	2.	For "Madroporaceæ" read "Madreporaceæ."
123.	8.	For "cænenchyma" read "cœnenchyma."
Pl. xi.		The figures are reversed.
„ xxi.		(Explanation) For "Microcystina" read "Microcystis."

Note "DOTICUS PESTILENS: *A correction.*—From a communication kindly forwarded by Mr. F. P. Pascoe, it appears that the genus for which I adopted the MS. name *Metodoticus* (see p. 75), has been described under the name *Doticus* (Ann. Mag. Nat. Hist. ix. p. 27, 1882). The Victorian Apple-pest should, therefore, be known as *Doticus pestilens*, instead of *Metadoticus pestilens*, as at first suggested. A figure of the insect, and some account of its life-history, are contained in Mr. French's recently published 'Handbook of the Destructive Insects of Victoria.'—A. S. O."