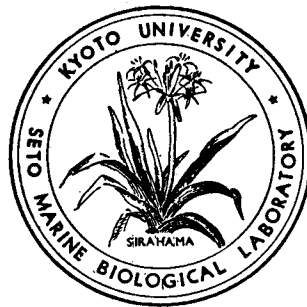


KYOTO UNIVERSITY

PUBLICATIONS
OF THE SETO MARINE
BIOLOGICAL LABORATORY

Volume XXI



PUBLISHED BY THE LABORATORY
SIRAHAMA, WAKAYAMA-KEN, JAPAN
1972-1974

CONTENTS

No. 1 (December 1, 1972)

1. **Taki, I.** : On a new species of *Lamellaria* (*L. utinomii*, n. sp.) from Shirahama, Wakayama Prefecture, Japan (Moll., Gastropoda). 1
2. **Hamatani, I.** : A new species of *Volvatella* Pease, 1860, found in the "caulerpan microfauna" in the Province of Kii, Middle Japan (Opisthobranchia: Sacoglossa) 13
3. **Tokioka, T. and Kado, Y.** : The occurrence of *Molgula manhattensis* (De Kay) in brackish water near Hiroshima, Japan. 21
4. **Shih, C.** : Note on the giant isopod genus *Bathynomus* Milne Edwards, 1879 with description of a new species. 31
5. **Morino, H.** : Studies on the Talitridae (Amphipoda, Crustacea) in Japan I. Taxonomy of *Talorchestia* and *Orchestoidea*. 43

No. 2 (March 31, 1973)

6. **Hamatani, I. and Nunomura, N.** : A new species of the interstitial eolidacean genus *Pseudovermis* (Opisthobranchia) from Kii, Middle Japan. 67
7. **Yamanishi, R.** : A new species of *Saccocirrus* (Archiannelida) in Japan. ... 73
8. **Izawa, K.** : On the development of parasitic Copepoda I. *Sarcotaces pacificus* Komai (Cyclopoida: Philichthyidae). 77
9. **Nunomura, N.** : Description of *Microcerberus kiiensis*, n. sp.: primary record of the suborder Microcerberidea (Crustacea, Isopoda) in Japan. 87
10. **Koshida, Y.** : Practical application of acetylcholine method as a non-injurious means to obtain eggs from sea urchins. 95
11. **Watanabe, H. and Tokioka, T.** : On a new species of *Clavelina* from Japan, with remarks on its mode of budding. 99
12. **Kobayashi, N.** : Studies on the effects of some agents on fertilized sea urchin eggs, as a part of the bases for marine pollution bioassay I. 109
13. **Yamaguchi, T.** : On *Megabalanus* (Cirripedia, Thoracica) of Japan. 115
14. **Carlson, C. H. and Hoff, P. J.** : Two new species of Gastropteridae from Guam, Marianas Islands (Opisthobranchia: Cephalaspidea). 141

Nos. 3/4 (March 30, 1974)

15. **Orsi, J. J.** : A check list of the marine and freshwater fishes of Vietnam. 153
16. **Izawa, K.** : *Sarcotaces*, a genus of parasitic copepods (Cyclopoida: Philichthyidae), found on Japanese fishes. 179
17. **Tanaka, O. and Omori, M.** : Additional report on calanoid copepods from the Izu region. Part 5. *Euaugaptilus*. 193

18. **Tokioka, T.** : Morphological differences observed between the generations of the same chaetognath population. 269
19. **Bieri, R.** : A new species of *Spadella* (Chaetognatha) from California. 281

Nos. 5/6 (December 23, 1974)

20. **Murano, M.** : Mysidacea from the central and western Pacific I. Genus *Pseudomma* (Tribe Erythropini). 287
21. **Izawa, K.** : On three new species of *Colobomatus* (Cyclopoida : Philichthyidae) parasitic on Japanese fishes. 335
22. **Carlson, C.H. and Hoff, P.J.** : The Gastropteridae of Guam, with descriptions of four new species (Opisthobranchia : Cephalaspidea). 345
23. **Ooishi, S. and Illg, P.L.** : *Haplostomella halocynthiae* (Fukui), an ascidicolid copepod associated with a simple ascidian, *Halocynthia roretzi* (Drasche), from Japan. 365
24. **Kobayashi, N.** : Marine pollution bioassay by sea urchin eggs, an attempt to enhance accuracy. 377
25. **Tokioka, T.** : On the specific validity in species pairs or trios of plankton animals, distributed respectively in different but adjoining water masses, as seen in chaetognaths. 393

Composition of the fixed sea urchin colony on Hatakezima Island, 1972—1974. 409

Bioassay data for marine pollution using sea urchin eggs, 1972 and 1973. 411

Oceanographic data at the S. M. B. L., 1971. 433

Record of works done at the Seto Marine Biological Laboratory (published in 1969). 441

RECORD OF WORKS
DONE AT THE SETO MARINE BIOLOGICAL LABORATORY

1969 (昭和44年)

	Contribution No. (Jap. No.)
Araga, Chuichi: Young form of the rare coral fish, <i>Malacanthus latovittatus</i> (Lacépède) from Tanabe Bay. Publ. Seto Mar. Biol. Lab., 16 (6), 405—410.	507
Baba, Kikutaro [馬場菊太郎]: Taxonomic study on <i>Tritoniopsis elegans</i> (Audouin, 1826) from Seto, Japan (Nudibranchia: Dendronotoidea). Ibid., 16 (6), 395—398, pl. XXVI.	505
—————: Records of <i>Learchis indica</i> Bergh from Japan and Hawaii (Nudibranchia: Eolidoidea). Ibid., 16 (6), 399—403, pl. XXVII.	506
*—————: 日本産フシエラガイ科およびウミフクロウ科の種名目録. 採集と飼育, 31 (7), 190—191. [Baba, K.: List of the Pleurobranchidae and the Pleurobranchaeidae from Japan. Coll. & Breed., 31 (7), 190—191.]	
Fujino, T. and Miyake, S.: On two new species of Palaemonid shrimps from Tanabe Bay, Kii Peninsula, Japan (Crustacea, Decapoda, Palaemonidae). Publ. Seto Mar. Biol. Lab., 17 (3), 143—154.	509
Gamô, S.: Notes on three species of Harpacticoid Copepoda, <i>Porcellidium</i> sp., <i>Peltidium ovale</i> Thompson & A. Scott, and <i>Dactylopusia</i> (?) <i>platysoma</i> Thompson & A. Scott, from Tanabe Bay. Ibid., 16 (5), 345—361.	502
Hamatani, Iwao: A new species of the rare shelled sacoglossan genus <i>Cylindrobulla</i> from Middle Japan (Opisthobranchiata). Ibid., 17 (3), 171—174, pls. V-VI.	510
Harada, Eiji: On the interspecific association of a snapping shrimp and gobioid fishes. Ibid., 16 (5), 315—334.	500
Kawaguti, S. and Sato, K.: Electron microscopy on the polyp of staghorn corals with special reference to its skeleton formation. Biol. J. Okayama Univ., 14 (3/4), 87—98.	
小林直正: 和歌山県白浜におけるウニの生殖周期性. III. シラヒゲウニ, ナガウニ, ムラサキウニ及びタワシウニ. 同志社大学理工学部研究報告, 9 (4), 254—269. [Kobayashi, Naomasa: Spawning periodicity of sea urchins at Shirahama. III. <i>Tripneustes gratilla</i> , <i>Echinometra mathaei</i> , <i>Anthocidaris crassispina</i> and <i>Echinostrephus aciculatus</i> . Sci. & Eng. Review of Doshisha Univ., 9 (4), 254—269.]	(Jap. 180)
Miya, Yasuhiko and Miyake, Sadayoshi: Description of <i>Alpheus bellulus</i> sp. nov. associated with gobies from Japan (Crustacea, Decapoda, Alpheidae). Publ.	

- Seto Mar. Biol. Lab., **16** (5), 307—314. 499
- Nishimura, Saburo [西村三郎]: A new *Cymodocella* from Japan (Isopoda: Sphaeromatidae). *Ibid.*, **16** (5), 335—344. 501
- : On the identity of Brodsky's *Epilabidocera amphitrites* and *Pontella pulvinata* Wilson, 1950 with *Pontella longipedata* Sato, 1913 (Copepoda: Calanoida). *Ibid.*, **16** (6), 381—384. 503
- : *Gnorimosphaeroma salebrosa* sp. nov. from the coast of Kii (Isopoda: Sphaeromatidae). *Ibid.*, **16** (6), 385—393. 504
- : The zoogeographical aspects of the Japan Sea. Part V. *Ibid.*, **17** (2), 67—142. 508
- *—————: 2・3 の沿岸性カイアシ類の分布について. 日本海, 金沢, no. 3, 1—4. [Nishimura, Saburo: On the geographical distribution of some neritic copepods. *Nihonkai, Kanazawa*, no. 3, 1—4.]
- *—————(編): 日本海産動物相に関する文献目録(2). 腔腸動物. 同上誌, no. 3, 58—63. [—————(compiled): Bibliography of the fauna of the Japan Sea (2). Coelenterata. *Ibid.*, no. 3, 58—63.]
- *—————: 香港のカイダコ. 採集と飼育, **31** (12), 372—373. [—————: *Argonauta* shells from Hong Kong. *Coll. & Breed.*, **31** (12), 372—373.]
- and Mizusawa, Rokuro: On the possible natural interbreeding between *Chionoecetes opilio* (O. Fabricius) and *C. japonicus* Rathbun (Crustacea: Decapoda), a preliminary report. *Publ. Seto Mar. Biol. Lab.*, **17** (3), 193—208, pls. VII-VIII. 513
- 奥野良之助: ホンソメワケベラの掃除行動 I. 日生態会誌, **19** (5), 184—191. [Okuno, Ryonosuke: Cleaning behaviors of the rainbow wrasse, *Labroides dimidiatus*. I. *Jap. J. Ecol.*, **19** (5), 184—191.](Jap. 182)
- : ホンソメワケベラの掃除行動 II. 同上誌, **19** (6), 217—222. [—————: Ditto. II. *Ibid.*, **19** (6), 217—222.](Jap. 183)
- Sakai, Tune: Two new genera and twenty-two new species of crabs from Japan. *Proc. Biol. Soc. Washington*, **82**, 243—280.
- Tokioka, Takasi: Hatakezima Island will successfully be conserved for marine biological researches. *Publ. Seto Mar. Biol. Lab.*, **17** (1), 1—6.
- : Droplets from the plankton net XXIII. The dominant type of *Physalia* in the Japanese waters. *Ibid.*, **17** (3), 183—185. 511
- : On the stability of population composition in a fixed echinid colony on the rocky shore of Hatakezima Island. *Ibid.*, **17** (3), 187—191. 512
- : A creeping ctenophore found on the sea cucumber, *Holothuria leucospilota* (Brandt). *Ibid.*, **17** (4), 279—283. 514
- Tomlinson, Jack T.: The burrowing barnacles (Cirripedia: Order Acrothoracica). *U. S. Natl. Mus. Bull.* **296**, 162 pp.

- Utinomi, Huzio [内海富士夫]: Caprellids from Kamae Bay, northeastern Kyusyu (Amphipoda: Caprellidae). Publ. Seto Mar. Biol. Lab., **16** (5), 295—306. ... **498**
- : Cirripedia of the Iranian Gulf. Vidensk. Medd. fra Dansk naturh. Foren., **132**, 79—94.
- * —————: 南紀の海に産する珍種ゼブラガニ *Zebrida adamsi* White について. 南紀生物, **11** (2), 37—40.
 [Utinomi, Huzio: On the occurrence of a rare crab, *Zebrida adamsi* White (Brachyura: Parthenopidae), in the sea of southern Kii region. Nanki Seibutsu, **11** (2), 37—40.] (Jap. **185**)
- * —————: 原色日本海岸動物図鑑. 改訂第2版. xix+166 pp., 64 カラープレート, 12 モノクロプレート, 保育社, 大阪.
 [—————: Coloured illustrations of sea shore animals of Japan. Second revised ed. xix+166 pp., 64 col. pls., 12 monochr. pls., Hoikusha, Osaka.]

SUPPLEMENT TO THE 1968 RECORD OF WORKS:

- Utinomi, Huzio: Pelagic, shelf and shallow-water Cirripedia from the West Pacific. Vidensk. Medd. fra Dansk naturh. Foren., **131**, 161—186.

* Japanese text only.