

please see
pages 24-30
on parasitic animals

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Fauna and Flora in the Waters adjacent to the Sado Marine
Biological Station, Niigata University: Supplement 2

Yoshiharu HONMA and Takehiko KITAMI

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Fauna and Flora in the Waters adjacent to the Sado Marine Biological Station, Niigata University: Supplement 2¹

Yoshiharu HONMA² and Takehiko KITAMI

Abstract: The present paper adds further many species to the fauna of Sado Island with selected references.

In recognition of 25th anniversary of the foundation of Sado Marine Biological Station, catalogues of the biological specimens deposited in the research museum were made (Honma and Kitami, 1978, 1979). In addition, the plankton biota occurring in Tassha Bay, a small inlet located near the Station, was reported by Abe, Honma and Kitami (1984). More recently, a list of aquatic (freshwater) organisms found in the inland waters of Niigata Prefecture, including Sado Island, was published following a twenty-year limnological survey by the Niigata Freshwater Ecology Research Group (Honma, et al., 1988).

Owing to the continual efforts to collect reference plant and animal specimens, considerable numbers of species have been newly secured. Moreover, ongoing taxonomic studies have resulted in a number of revisions and name changes. Therefore, a short communication concerning the additional collections of animals is justified, although some individual fishes and cetaceans have been reported elsewhere (Honma, 1990, 1991; Honma and Kitami, 1980; etc.).

We are very grateful to Prof. Dr. Ju-shey Ho, California State University, U.S. A., who visited the station twice during his work on the taxonomy of small crustaceans parasitic on various marine animals, and who, following his reports of 12 new species from the waters adjacent to Sado Island, promoted very much systematic parasitology in the Sea of Japan.

Phylum Porifera 海綿動物門

Class Demospongiae 普通海綿綱

Order Astroporida 目

Family Stellettidae ホカ科

Stelletta orthotriaene Koltun v ホカ4

Order Halichondria 磯流

Family Halichondridae イソカ4 目

Halichondria japonica (Kadota) ダイダイイソカイヌ

1) Contribution from the Sado Marine Biological Station, Niigata University, No. 592

2) Sado Marine Biological Station, Faculty of Science, Niigata University, Niigata, 952-21 Japan.

P□□□□ Cnidaria 冊 カウ

C□□□ Hydrozoa L

- Order Anthomedusae Athecata 花タ (無鞘目)
 Family Solanderiidae ドキウ
Solanderia misakiensis Inaba センナリウ
 Family Hydractiniidae
Hydrissa sodalis Stimpson イガリド
 Family Cladonemidae フシクゲ科
Cladonema pacificum Naumov アシタケ
 Order Leptomedusae Thecata ゲ (有鞘目)
 Family Campanulariidae サカガヤ
Obelia plana M. Sars オ・リフ
 Family Plumulariidae ヤ科
Macrorhynchia phoenicea Busk
 Order Siphonophorae 水母
 Family Muggiaeidae 水母ツゲ科
Muggiaea atlantica Cunningham ツゲ
 Family Physaliidae カオ
Physalia physalis utriculus La Martiniere カツオノエボ

C□□□ Scyphozoa 網

- Order Semaestomae ゲ (水 Y)
 Family Rhizostomidae ゼウ
Rhopilema esculenta Kishinouye ラ

Class Anthozoa

S□□□□□ Octocorallia 八放サンゴ

- Order Gorgonacea 目
 Family Ellisellidae ヤギ科
Ellisella rudra Wright et Studer Aチャ

S□□□□□ Hexacorallia

- Order Scleractinia インサンゴ目
 Family Dendrophylliidae ヲウゴ
Tubastrea aurea Quoy et Gaimard イボヤ
Tubastrea robusta Bourne エダイボ-r
 Order Zoantharia スサヤ
 Family Cerianthidae ケ
Pachycerianthus magnus Nakamoto

Phylum Aschelminthes 袋形動物門
Class Kinorhyncha 吻網

Order Echinodera
Family Echinoderdae キョ[]ユ

Echinoderes dujardinii Claparede

Phylum Mollusca 軟体動物門

Class Gastropoda キガイ (腹足類)

Order Archaeogastropoda キヲ A (原始腹足類)

Family Acmaeidae イ科

Notoacmaea concinna (Lischke) カ7*

Family Trochidae ウズ te4

Kanekotrochus infuscatus (Gould) ガ4

Order Mesogastropoda (中腹足類)目

Family Vermetiacea 4

Sopulorbis daidai Nishiwaki ビ

Family Dialidae ス、フボ科

Diala varia A. Adams

Difalaba picta picta (A. Adams)

Family Diastomidae

Scaliola glareosa A. Adams ホ

Family Cerithidae ツノガイ科

Bittium urashimanum Nomura et Niino ウラシマン リガ4

Colina macrostoma (Hinds) ビ4

Family Naticidae

Cryptonatica janthostomoides Kuroda et Habe エノタ

Family Cymatiidae 7 カイ科

Monoplex echo (Kuroda et Habe) カコボラ

Family Cassididae 1- ウカアリガイ

Phalium avriegatum (Perry) カXラガ

Order Neogastropoda ベイ (新腹足類)

Family Muricidae 7 I

Muricodrupa pothuanii (Souleyet) 4 シガイ マン

Ocnbra japonica (Dunker) オオヨウラ イ

Ocnbra aduncus (Sowerby) イセヨウラクガイ

Family Buccinidae 科

Neotinea arthitica (Bernardi) ヒホ

Enginopsis menkeana submenkeana (Pilsbry) ゴマフ

Family Mitridae 7

Mitropifex fuscoapicatus (Smith) 7

Family Olividae ガイ

Olivella japonica Pilsbry ガ

	Subclass Opisthobranchia	(後鰓類) 亜綱
	Order Entomotaeniata	ガイ (1 紐類)
	Family Pyramidellidae	ガ ガイ
<i>Pyrgulina mundula</i> (A. Adams)		
<i>Odostomia omaensis</i> Nomura		
	Order Sacoglossa	ゴク ド (囊舌類)目
	Family Elysiidae	F ガイ科
<i>Elysia hirasei</i> Baba		F 9 ガ-f
<i>Elysia atroviridis</i> Baba		タロ ド 9 ガイ
	Order Notaspidae e l	エガイ (NMA)
	Family Pleurobranchidae	カメ / フ ガイ
<i>Pleurobranchus hirasei</i> Baba		カメノ 7 シエ ガ-f
	Order Pteropoda	カメガイ (翼足類)目
	Family Cavolinidae	カメガイ科
<i>Cavolinia inflexa</i> (Rang)		マリ カ ガ
	Order Nudibranchia	(裸鰓類)目
	Family Dorididae	- 9 fi-
<i>Rostanga risbeci</i> Baba		
	Family Dendrodorididae	シ 科
<i>Dendrodoris arborescens</i> (Collingwood)		ロ ナ ラ
<i>Dendrodoris nigra</i> (Stimpson)		ロ ■ ■ ナ ■ ■ クシ (既報)
<i>Dendrodoris sadoensis</i> Baba		リドマ
	Family Aeolidiidae 71-71	
<i>Protaeolidiella juliae</i> (Burn)		■ ■ I
	Subclass Pulmonata	マイマイ (有肺類) 亜綱
	Order Stylommatophora	マイ 4 (柄鰓類)目
	Family Planorbidae e -7+	ガイ ト (淡水産)
<i>Gyraulus spirillus</i> (Gould)		
	Family Clausilioidae	(陸産)
<i>Paganizaptyx harimenis</i> (Pilsbry)		
	Family Philomycidae	ナメ (g4g)
<i>Meghimatium fruhstoiferi</i> (Collinge)		(既報・学 変更)
	Family Limacidae	科 (I31,&)
<i>Deroceras varians</i> (A. Adams)		■
<i>Limax marginatus</i> Müller		
	Class Scaphopoda	ガイ (掘足類)
	Order Dentalioida	カイ目
	Family Dentaliidae	ツノガ4
<i>Antalis weinkauffi</i> (Dunker)		ガ-f
<i>Episiphon makiyamai</i> (Kuroda et Kikuchi)		ロ ガ4
<i>Laevidentalium toyamaense</i> (Kuroda et Kikuchi)		ヤ ツノガイ

Subclass Anomalodesmacea 「 ■ — ■ 」 ド (異韌帶類) 亜綱

Order Pholadomyoidea キ目

Family Myiidae

- Mya arenaria* oonogai Makiyama オ イ
Cryptomya busoensis Yokoyama オ ガ-f
 Family Pandoridae 9 ガ 科
Pandorella pseudobilirata Nomura et Hatai スネ9 ガイ

Class Cephalopoda 4 カ

Subclass Metacephalopoda 後生頭足亜綱

Order Decembranchiata

Family Sepiidae ウ-f

- Sepia kobeensis* Hoyle ヒ イカ
Sepia tullbergi Appellof -f カ
 Family Loliginidae 4 カ科
Doyteuthis kensaki Wakiya et Ishikawa シラキ カ
Sepioteuthis lessoniana Lesson 7 A-9 イカ (X 4 カ)
 Family Gonatidae カ カ科
Gonatopsis octopedatus Sasaki カ
 Family Chiroteuthidae レ 4 カ
Chiroteuthis imperator Chun ユ レ 4 カ
 Family Cranchiidae メハダホ スキ カ科
Cranchia scabra Leach

Phylum Annelida 環形動物門

Class Polychaeta ゴカイ 類)

Order Amphinomida 目

Family Polynoidae ヲロ

- Herminia acantholepis* Grube
Lepidasthenia izukai Imajima et Hartman ロ A
 Family Amphinomidae ウ シ科
Amphinome rostrata Pallas ク A シ
 Order Spintherida レアシイカ 4 目
 Family Chrysopetalidae シザ
Chrysopetalum occidentale Johnson カ
 Order Eunicida
 Family Nereididae ゴカ if
Neanthes japonica Izuka
 Family Eunicidae メ科
Lysidice collaris Grube 9 4 Y

Phylum Arthropoda 節足動物門**Subphylum (Class) Crustacea** (g)

Order Thecostraca フシ 目

Family Lepadidae ガ flf

Chonchoderma auritium (Linnaeus)

Family Heteralepadidae

Paralepas globosa (Hiro)

Family Balanidae フジ ボ科

Xenobalanus globicipitis Stimpson

エボシフジツ

Acasta dofleini Kruger**Subclass Malacostraca** (t'EfElif)

Order Isopoda

Family Anthuridae スノウ サナフジ科

Cyanthura muromiensis Nunomura ムロ ス フフシ

Family Paranthuridae フ

Paranthura japonica Richardson フフフシ

Family Asellidae ス A シ科

Asellus hilgendorfi Bovallius ズ A シ

Family Idoteidae ラ A シ科

Idotea sp.*Cleantiella* sp.

Family Cirolanidae 9 A シ科

Cirolana sadoensis Nunomura F スナホ 9 A シ

Family Aegidae ヌ A /f

Aega dofleini Thielemann*Aega* sp.

Family Cymothoidae ウ71

Aegathoa honmai Nunomura ウ71 x-*Rhexanella* sp.*Lironeca* sp.*Irona* sp.

Family Sphaeromatidae ップ A シ科

Holotelson decorata Nunomura カザ 9 フ

Family Oniscidae ヴワ ジ A Alf

Armadilloniscus balssi (Verhoeff) ヨノ 9 ' A シ

Family Porcellionidae 9 ' A シ科

Porcellio toyamensis Nunomura ヒワ ジ A シ

Family Gnathiidae ガ 科

Gnathia sp.

Order Amphipoda 端脚目

Family Caprellidae ワレカ

Postoparacaprella marcida Arimoto A 9 ヨクワレカ

Order Decapoda (十脚類)

Family Penaeidae ル エ

Penaeus semisulcatus	De Haan			
	Family Axiidae	ス		
<i>Axiopsis princeps</i>	Boasy			
	Family Majidae			
Achaeus japonicus	De Haan		7	ボウス
	Family Hymenosomidae		ワ	fl-
Elamena truncata	Stimpson			ガニ
	Family Portunidae	ワタ9	ガ	
Charybdis feriata	Linnaeus			シマイ
Charybdis miles	De Hann			ウ イシガニ
	Family Goneplacidae	ン		ガニ科
Neopilumnoplax serratus	Sakai			ン ニ
	Family Grapsidae	ワガ		
Acmaeopleura toriumii	Takeda			アカイソモド
Hemigrapsus sinensis	Rathbun			ク 7 9 4 ソガニ
	Order Stomatopoda	シ		脚類) 目
	Family Squillidae	コ科		
Harpisquilla raphidea	Fabricius			ゲシ

Phylum Tentaculata 触手動物門

Class Bryozoa

Order Ctenostomata

Family Vesiculariidae 7 ムシ科

Amathia distans Busk ヨケムシ

Order Cheilostomata 唇

Family Cheiloporinidae A シ科

Cryptosula pallasiana (Moll) ムシ

Family Membraniporidae 7 メー

Conopeum reticulum Linnaeus シ 7 メ

Family Petrolidae ン ムシ科

Hippopetraliella magna D'Orbigny ムシ

Family Celleporidae プ カ A シ科

Celleporina costazii Audoum アムシ

Family Reteporidae 7

Iodictyum axillare Ortmann ベニ 7 ミ

Phylum Echinodermata 棘皮動物門

Class Crinoidea 海百合綱

Order Commatulida 羊 目

Family Comasteridae シ

intermedia A. H. Clark アシボ ン

Class Asteroidea L F

Order Spinulosaida

Family Asterinidae 4 卜 トデ科

Asterina minor Hayashi ビ4 1**Class Ophiuroidea**

Order Myophiurida ヒトテ目

Family Amphiuridae A ナ ヒト

Amphiura syntailacha H. L. Clark*Amphipholis kochii* Lütken

Family Ophiuridae

Ophiura sarsi var. *vadicola* D'Yakonov エゾク ヒ**Class Echinoidea 7 z.**

Order Echinoida

Suborder Temnopleurina 3

Family Temnopleuriidae "It 3 1 β+

Temnopleurus reevesi (Gray)

Suborder Echinina ホン 目

Family Stroglyocentroidae オオ 7 ン ニ

Strongylocentrotus sachalinicus (Doderlein) :/ 9 7 7 7 A' 7 v

Order Clypeasteoida 3

Suborder Clypeasterina

Family Clypeasteridae

Clypeaster virescens (Doderlein) 7 7 7

Suborder Laganina

Family Laganidae

Laganum fudsiyama Doderlein シスソ

Order Spatangoida プソフ

Family Pseudomaretiidae 7' ン プク

Pseudomaretia alta (A. Agassiz)

Family Schizasteriidae ン プ 0

Schizaster lacunosus (Linnaeus) プソフク ャ 5**Phylum Prochordata 原索動物門****Class Asidiacea ホヤ綱**

Order Enterogona L yg IJ

Family Cionidiidae

Syndiazona grandis Oka 7 X'*Ciona intestinalis* (Linnaeus) t = I/ 4 di t (*ARX)*Ciona savignyi* Herdman v 4 7g

Order Pleurogona

Family Pyuridae e.°

Pyura saciformis (Drasche)
Halocynthia igaguri Tokioka イ 9 鯀
Halocynthia hilgendorfi Oka 4 ガ
 Family Molgulidae
Molgula manhattensis (De Kay)

Phylum Vertebrata 脊椎動物門

Class Chondrichthyes 軟骨魚綱

Order Galeiformes 9 ザメ
 Family Sylliorhinidae ザメ科
Cephaloscyllium umbratile Jordan et Fowler カサメ
 Family Carcharhinidae ジロザメ科
Rhizoprionodon acutus (Rüppell) ガシ
 Order Rajiformes
 Family Dasyatidae 7 カ イ目
Dasyatis matsubarae Miyoshi ヨ

Class Osteichthyes 硬骨魚綱

Order Elopiformes イワ
 Family Elopidae イワシ科
Megalops cyprinoides (Broussonet) セ レ
 Order Clupeiformes
 Family Clupeidae
Clupea pallasii Valenciennes
 Family Salmonidae
Oncorhynchus kisutch (Walbaum)
 Order Cypriniformes イ目
 Family Cyprinidae 8
Rhodeus ocellatus ocellatus (Kner) イ ヲ (水産)
 Order Anguilliformes アサギ
 Family Congridae 7:3 ア科
Anago anago (Temminck et Schlegel) ナアサ
 Order Lampriformes アカボ
 Family Veliferidae 7 ア科
Velifer hypselopterus Bleeker it 7
 Family Lophotidae 7 カ マダ科
Lophotus capellei Temminck et Schlegel 7 カ
 Order Perciformes スズ
 Suborder Percoidei ス
 Family Percichthyidae スキ科
Stereolepis doederleini Lindberg et Krasjuk ova ヨ f シマ
 Family Serranidae 科
Plectranthias kelloggiazumanus (Jordan et Richardson) 7 X マ ダイ
 Family Carangidae 7 ア
Decapterus akaadsi Abe アカアジ

<i>Megalaspis cordyla</i> (Linnaeus)			
<i>Carangoides orthogrammus</i> (Jordan et Gilbert)	ウ	イ99	
<i>Scomberoides tor</i> (Cuvier)	f	ツオ	
Family Menidae	ギンカ		
<i>Mene maculata</i> (Bloch et Schneider)		カ	
Family Bramidae	ツオ科		
<i>Brama japonica</i> Hilgendorf			
<i>Pterycombus petersii</i> (Hilgendorf)	リュ	グウ	
Family Sparidae			
<i>Sparus sarda</i> (Temminck et Schlegel)	ヘ	ユ4	
Family Pentacerotidae			
<i>Evisitias acutirostris</i> (Temminck et Schlegel)	ラン	グダ	
Suborder Xiphoidei	カ	目	
Family Istiophoridae	ジキ科		
<i>Makaira indica</i> (Cuvier)		カジ	
Suborder Scombroidei			
Family Scombridae			
<i>Gymnosarda unicolor</i> (Rüppell)	4	7	■
Suborder Acanthuroidei	イボダ	目	
Family Acanthuridae	ザダイ		
<i>Naso vlamingii</i> (Valenciennes)			
Family Nomeidae	エボ	4科	
<i>Psenes pellucidus</i> Laken			
Suborder Gobioidi			
Family Gobiidae			
<i>Tridentiger kuroi</i> <i>brevispinis</i> Katsuyama, Arai and Nakamura			ヌマチチフ
<i>Luciogobius grandis</i> Arai	オオ		
<i>Luciogobius pallidus</i> Regan			ズシゼ
Suborder Blennioidei	ボ	目	
Family Uranoscopidae		ゼ科	
<i>Uranoscopus flavipinnis</i> Kishimoto			シマ
<i>khthyscopus lebeck sannio</i> Whitley	オ		
Family Stichaeidae			
<i>Enedrias crassispina</i> (Temminck et Schlegel)		キ	
<i>Opisthocentrus tenuis</i> Bean et Bean	ハコ	シP	
<i>Dictyosoma rubrimaculata</i> Yatsu, Yasuda et Taki		9	
Suborder Zoarcoidei	ゲ	グ亜	
Family Anarhichadidae	A	カ	オ科
<i>Anarhichas orientalis</i> Pallas			
Suborder Icosteoidi	イレズミ		
Family Icosteidae	4	レス	774
<i>kosteus aenigmaticus</i> Lockington		4	レス
Suborder Scorpaeniformes		サゴ	
Family Scorpaenidae	7	サカサ	科
<i>Sebastes taczanowskii</i> (Steindachner)		ゾメ	
<i>Sebastes zonatus</i> Chen et Barsukov		タヌ	
Family Cottidae	t		
<i>Icelinus japonicus</i> Yabe, Tsumura et Katayama	7	■	カ

- Pseudoblennius percooides* Gunther 7ヲ
 Family Psychrolutidae ウラ イ カ科
- Dasycottus setiger* Bean
 Family Agonidae
- Agonomalus proboscidalis* (Valenciennes) 7 ウオ
 Family Cyclopteridae クイ科
- Eumicrotremus orbis* (Günther) イ
 Order Pleuronectiformes イ
 Family Soleidae 9ヲ 科
- Heteromycteris japonica* (Temminck et Schlegel)
 Order Tetraodontiformes 7
 Suborder Balistoidei ガラカ
 Family Balistidae ガ 7ワハギ科
- Balistoides conspicillum* (Schneider) ワ、
 Family Monacanthidae 、
- Chaetodermis penicilligerus* (Cuvier) ヒゲハギ
- Aluterus scriptus* (Osbeck)
 Family Ostraciidae ハ 7
- Lactoria cornuta* (Linnaeus) 7グ

Class Mammalia □ 乳綱

- Order Cetacea ジラ目
 Family Ziphiidae アカボウ
- Mesoplodon stejnegeri* True オオ
Ziphius cavirostris Cuvier 7カ シ

Phylum Tracheophyta 維管束植物門**Class Monocolyledones**

- Order Apomogetonales
 Family Zosteraceae 7 PI-
- Zostera asiatica* Miki
Phyllospadix japonica Makino x-

Parasitic animals (compiled by Ju-shey Ho)**Class Monogenea**

- Order Monopisthocotylea
 Family Capsalidae
- Benedenia derzhavini* (Layman)
Metabenedeniella hoplognathi (Yamaguti)
Capsala ovalis (Goto)
- Family Monocotylidae
Dendromonocotyle akajeii Ho and Perkins
 Family Dactylogyridae

- Parancyrocephaloides daicoci* Yamaguti
 Family Diplectanidae
Diplectanum longipenis (Yamaguti)
 Class Nematoda
 Order Camallanida
 Family Philometridae
Philometra sp. (parasitic on the fins of *Pleuronectes yokohamae* (Gunther) (by Y. Honma))

Subphylum Crustacea**Class Maxillopoda****Subclass Copepoda**

- Order Harpacticoida
 Family Canuellidae
Sunaristes japonicus Ho
 Family Porcellidiidae
Porcellidium paguri Ho
 Family Tisbidae
Tisbe japonica Ho
 Order Cyclopoida
 Family Notodelphyidae
Doropygus pinguis (Ooishi)
Doropygus brevipes Ho
Bonnierilla mollia Ho
 Order Poecilostomatoida
 Family Oncaeidae
Oncaea venusta Philippi
 Family Lichomolgidae
Crytomoligus isoawamochi (Ho)
Lichomoligus bidentipes Ho
Lichomoligus sadoensis Ho
Synstellicola longicauda Ho
Synstellicola similis Ho
 Family Sabelliphilidae
Humusulus lobatus Ho
Modiolicola gracilicaudus Avdeev
Scambicornus affinis Ho
 Family Anthessiidae
Panaietis haliotis Yamaguti
Panaietis yamaguti Izawa
Parapanaietes tegulae Hoshina and Sugiura
 Family Mycolidae
Pseudomyicola spinosus (Raffaele and Monticelli)
 Family Philoblenmidae
Philoblenna tumida Ho
 Family Anthecheridae

- Coelotrophus nudus* Ho, Katsumi and Honma
Family Bomolochidae
- Bomolochus decapteri* Yamaguti
Family Taeniacanthidae
- Taeniacanthus balistae* (Claus)
- Taeniacanthus platycephali* (Yamaguti)
- Taeniacanthus rotundiceps* (Shiino)
- Taeniacanthus sebastichthydis* Yamaguti
- Taeniacanthus similis* Dojiri and Cressey
- Taeniacanthus yamagutii* Shiino
- Cirracanthus inimici* (Yamaguti and Yamasu)
Family Chondracanthidae
- Acanthochondria inimici* Yamaguti
- Acanthochondria sixteni* Wilson
- Acanthochondria macrocephala* Gusev
- Acanthochondria uranoscopi* Ho and Kim
- Acanthochondria priacanthi* Shiino
- Chondracanthus zeii* Delaroche
Order Siphonostomatoida
Family Asterocheridae
- Asterocheres aesthetes* Ho
- Collocheres inaequalis* Ho
Family Dyspontidae
- Pteropontius decorus* Ho
Family Lamippidae
- Enalcyonium digitigerum* Ho
Family Lernanthropidae
- Lernanthropus chrysophrys* Shishido
- Lernanthropus cornutus* Kirtisinghe
- Lernanthropus atrox* Heller
Family Pennellidae
- Lernaeenicus sayori* Yamaguti
- Lernaeolophus aceratus* Ho and Honma
Family Lernaeopodidae
- Alella ditrematis* (Yamaguti)
- Pseudocharopinus markewitschi* (Gussev)

Class **Malacostraca**

Subclass **Eumalacostraca**

Order Isopoda

Family Gnathiidae

praniza larvae (parasitic in the branchial chamber of stingray)

Selected References: Supplement 2

General

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