NATSUSHIMA Cruise Report

NT10-19, Leg.1

Estimation of hydrothermal activity using growth line on bivalve shells

Investigation of parasitic eukaryotes associated with chemosynthetic animals

Off Hatsushima Island site, Sagami Bay

Oct. 21, 2010 - Oct. 24, 2010

Japan Agency for Marine-Earth Science and Technology (JAMSTEC)

CONTENTES

I. Cruise Information

Cruise ID: NT10-19, Leg. 1 Name of Vessel: R/V Natsushima / Hyper-Dolphin Title of the Cruise: Estimation of hydrothermal activity using growth line on bivalve shells Investigation of parasitic eukaryotes associated with chemosynthetic animals Chief Scientist: Hiromi WATANABE (Japan Agency for Marine-Earth Science and Technology) Cruise Period: 2010.10.21 – 2010.10.24 Port of Call: JAMSTEC Research Area: Off Hatsushima Island site, Sagami Bay

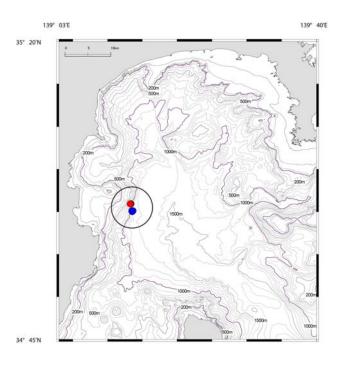


Figure. Localities of the investigation sites of this cruise. Red: Shallow site, blue: deep site.

II. Participants

Captain and crew of the R/V NATSUSHIMA:

Captain	Hitoshi TANAKA
Chief Officer	Hiroyuki KATO
2nd Officer	Isao MAEDA
3rd Officer	Saito TAKATA
Chief Engnieer	Kiyonori KAJINISHI
1st Engnieer	Kimio MATSUKAWA
2nd Engnieer	Yoshinobu HIRATSUKA
3rd Engnieer	Koichi HASHIMOTO
Chief Radio Officer	Tokinori NASU
2nd Radio Officer	Yosuke KOMAKI
3rd Radio Officer	Michiyasu KATAGIRI
Boat Swain	Yoshikane ODA
Able Seaman	Kazumi OGASAWARA
Able Seaman	Takao KUBOTA
Able Seaman	Tsuyoshi CHIMOTO
Able Seaman	Nobuyuki ICHIKAWA
Sailor	Hirotaka SHIGETA
Sailor	Hideo ITO
No1. Oiler	Seiichi MATSUDA
Oiler	Tsuneo HARIMOTO
Oiler	Hiroyuki OISHI
Oiler	Taijin IWAO
Oiler	Eiji ARATAKE
Chief Steward	Tomihisa MORITA
Steward	Shinsuke TANAKA
Steward	Kiyotaka KOSUJI
Steward	Toru WADA
Steward	Ryu KUBOTA

Hyper Dolphin Operation team:

Chief ROV Operator	Yoshinari ONO
ROV Operator	Atsumori MIURA
ROV Operator	Kiyoshi TAKISHITA
ROV Operator	Homare WAKAMATSU
ROV Operator	Tomoe KONDO
ROV Operator	Shigru KIKUYA
ROV Operator	Ryo SAIGO

Science Party: Hiromi WATANABE (JAMSTEC) Katsunori FUJIKURA (JAMSTEC) Kiyotaka TAKISHITA (JAMSTEC) Yuriko NAGANO (JAMSTEC) Yoichi YUSA (Nara Women's University) Robert G Jenkins (Yokohama National University) Andrzej KAIM (Bayerische Staatssammlung für Paläontologie und Geologie) Martin KOKISKO (Tsukuba University) Akinori YABUKI (Tsukuba University) Eriko SEO (Tokyo University of Marine Science and Technology) Yoshimi TAKAHASHI (Tokyo University of Marine Science and Technology) Fumiya NOGUCHI (Kitasato University) Daisuke SEKINE (Kitasato University) Shin-ichi HOSOYA (Nippon Marine Enterprise)

III. Observation and Research

1. Scientific Purposes and Results

1-1. Estimation of hydrothermal activity using growth line on bivalve shells

Hiromi WATANABE, Katsunori FUJIKURA, Eriko SEO, Yoshimi TAKAHASHI, Robert G JENKINS, Andrzej KAIM, Yoichi YUSA, Daisuke SEKINE **1) Background**: Deep-sea chemosynthetic animal community is one of the flourish communities in the world while they are inhabited in the ephemeral environment such as hydrothermal vent field and methane seep. The growth rate of the chemosynthetic animal communities must be one of the important to estimate how the flourish community has been established in deep-sea. The growth line, which can be found in the hard parts of the animals such as shells and bones, is usually marked constantly like clock, and widely used for the studies to estimate growth rates. In the present research, we try to estimate growth rate of the dominant animals (e.g. *Calyptogena* clams and *Bathymodiolus* mussels) in the hydrothermal vent and methane seep communities in deep-sea around Japan.

2) Methods: In this cruise, we deployed totally three staining box on the two *Calyptogena* and a single *Bathymodiolus* assemblages in the methane seeps in Off Hatsushima Island site, Sagami Bay, Japan. These clams and mussels were stained with calcein and strontium chloride *in situ* by ROV *Hyper-Dolphin*. The staining boxes were opened after approximately 17 hours after deployment as clasps were eroded, and incubate under *in situ* conditions for three months.

3) Expecting Results and Future Studies: The boxes and incubated clams and mussels will be recovered in KY11-01 cruise in January 2011.

1-2. Investigation of parasitic eukaryotes associated with chemosynthetic animals

Kiyotaka TAKISHIATA, Yuriko NAGANO, Martin KOKISKO, Akinori YABUKI, Fumiya NOGUCHI

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1) Background: In this study we will identify the existence of parasitic microbial eukaryotes in animals representative to chemosynthetic ecosystem, which occur off Hatsushima, Sagami Bay, analyze their diversity, and estimate their ecological roles.

2) Methods: In #HDD-1206 Calyptogena, Bathymodiolus and Provanna were sampled with rake or slurp gun at the depth of 1170m. The sediment around a *Calyptogena* colony and black-colored and normal sediments were obtained with a sterile mud sampler at the same site. In #HDD-1207 *Calyptogena* and *Bathymodiolus* were sampled with rake or slurp gun at the depth of 850m. The sediments around *Calyptogena* and *Bathymodiolus* colonies and black colored sediment were obtained with the sterile mud sampler at the same site.

Tissues of gill and pallium of *Calyptogena* and *Bathymodiolus* were excised to detect parasitic microbial eukaryotes at the molecular level. The tissue samples for in situ hybridization, DNA extraction, and RNA extraction were preserved in 10% formalin at 4°C, at -80°C, and in liquid nitrogen, respectively. The gill tissue homogenates and intestine's contents of *Calyptogena* and *Bathymodiolus* were inoculated into media for cultivating protists and fungi.

Provanna samples were preserved in 5% formalin and 100% ethanol.

The sediment samples were preserved at -80°C and in liquid nitrogen for DNA and RNA extractions, respectively. The aliquots of sediment samples were also inoculated into the media for cultivating protists and fungi.

3) Expecting Results and Future Studies: DNA and RNA samples will be extracted from tissues of *Calyptogena* and *Bathymodiolus*. Using them as templates, the parasitic microbial eukaryotes (especially, alveolates and fungi) will be detected with PCR method. Based on sequence information obtained a DNA probe specific to the parasitic microbial eukaryotes will be designed and in situ hybridization will be performed to localize them.

The *Provanna* samples preserved in 5% formalin will be observed with a microscopy to find the parasitic microbial eukaryotes. After the eukaryotic parasites are found, they will be identified at the molecular level with PCR using DNA isolated from their samples preserved in 100% ethanol.

The cultures of gill tissue homogenates and intestine's contents of *Calyptogena* and *Bathymodiolus* will be incubated at 4-15°C aerobically and

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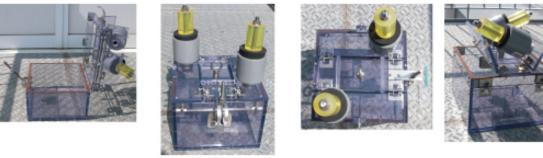
anaerobically. After novel protists or fungi are discovered, they will be cloned. Then, they will be analyzed morphologically and phylogenetically to describe them.

2. List of Observation Instruments

Staining Box:

Staining Box

Size: 28 x 28 x 20(+20: rubber stopper) cm Weight: 3kg (air)





There are two holes on the top of this box. Dye for staining bivalves will be supplied from one of these holes in situ with a SBE-5T pump equipped on ROV. 17 hours after deployment on the seafloor, the box will be opened as tightener will be corroded. The shells inside of the box will be incubated i *n situ* for several months after staining.

Sterilized core

MBARI core

Slurp gun (Suction sampler)

Scoop sampler:

DO sensor:

3. Cruise Log

2010/10/21

Weather: rain/ Wind direction: NNE/ Wind force: 4/ Wave: 2m/ Swell: 2m/ Visibility: 3nautical miles (12:00 JST)

08:00	Onboard
09:00	Departure from YOKOSUKA (JAMSTEC)
10:15-10:30	Scientific Meeting
13:00-14:00	Briefing about ship's life and safety
14:00-14:50	Scientific Meeting
16:40-17:00	Pray for safety of cruise to KONPIRASAN

2010/10/22

Weather: Overcast/ Wind direction: NNE/ Wind force: 6/ Wave: 4m/ Swell: 3 m/ Visibility: 7nautical miles (12:00 JST)

05:45	Arrival at survey area
06:23	ХВТ
08:34	Launch HPD (HPD#1206dive)
09:18	HPD lands (1,171m)
16:34	HPD leaves the bottom (1,177m)

17:22 HPD on deck

2010/10/23

Weather: fine but cloudy/ Wind direction: NE/ Wind force: 4/ Wave: 3m/ Swell: 3 m/ Visibility: 6nautical miles (12:00 JST)

- 08:39 Launch HPD (HPD#1207dive)
- 09:21 HPD lands (952m)
- 16:07 HPD leaves the bottom (808m)
- 16:42 HPD on deck
- 2010/10/24(JST)10:00Arrival at YOKOSUKA(JAMSTEC), NT10-19_Leg1 finish and
disembarkation

4. Dive Report

NT10-19 Leg.1 HD#1206 Dive Report

Date: 2010/10/21

Observer: Hiromi WATANABE (JAMSTEC)

Pilot: Ryo SAIGO, Shigeru KIKUYA

Objective: Estimation of growth rate of bivalves in methane seep area and Investigation of parasitic eukaryotes

Diving site: Off Hatsushima Island site, Sagami Bay

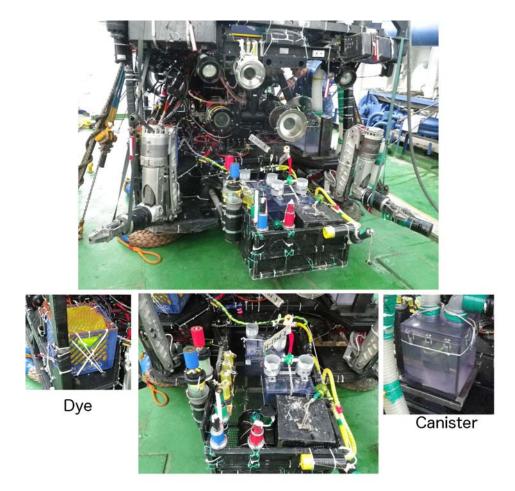
Landing Point: 35°00.122'N, 139°13.491'E, 1171m deep

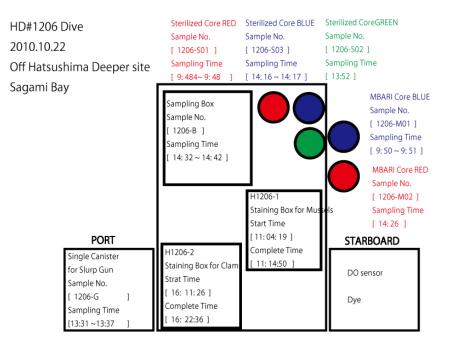
Leaving Point: 35°00.084'N, 139°13.505'E, 1177 m deep

Dive Summary:

ROV Hyper-Dolphin landed on muddy seafloor around landing target (1171m depth). The ROV headed to *Bathymodiolus* colonies near long-term observatory by JAMSTEC. On its way, we found large orange- and white-colored bacterial mat. The ROV landed beside a mussel colony on (probably) carbonate concretion to sample white bacterial mat with sterilized corer (red) and MBARI-type corer (blue). We observed three mussel colonies along the ridge of the orange bacterial mat, and some of the mussels were used for in situ growth-rate experiment. A bacterial colonization device (GALI-7, but misspelled as GARI-7) was deployed on the orange bacterial mat. In the mussel colony site, finally we collected more than 20 individuals of mussels and Provanna snails by slurp gun. The ROV headed to Calyptogena colonies at the southern site. During the way, sterilized core (green) was used to collect normal deep-sea sediment where we could observe many small holes (probably polychaetes). At the southern area, we collected sediment beside small Calyptogena colony with sterilized core (blue) and MBARI-type core (red), and more than 20 individuals of Calyptogena as well. For in situ growth-rate experiment, we looked for a deployed staining box (HD#1074-MB-1), and replaced it to another one for double staining. Then, the ROV left the bottom (1177m depth).

Payload (HD#1206):





Dive Result (HD#1206):

ハイパードルフィン 潜航記録

平成 22	年 NT1019	行動	記載者		西郷 亮
潜航年月日	2010/10/22			位置	作図中心位置
潜航回数	1 🗉			緯度	35° 00.200 ' N
通算潜航回数	1206 回			経度	139° 13.450 ' E
潜航海域 潜航目的	相模湾 調査潜航 「貝殻	<u>初島沖</u> から熱水活動噴出を	推定する」		WGS-84
調 査 主 任 ビークル 指揮	渡部 裕美 大野 芳生		Pil Co. P		西郷 亮 菊谷 茂

作	業 経	過間	亨 刻
吊	揚	08:	18
着	水	08:	22
潜航	開始	08:	34
着	底	09:	18
離	底	16:	34 .
浮	Ŀ	17:	06
揚収	完了	17:	22

	累計時	間
Ŕ	皆 航 時 間	8:32
j	通算潜航	5695:53
ケ	ケーブルNo.	4
ープ	使用時間	9:04
ブル	通算時間	769:2

気象・海象

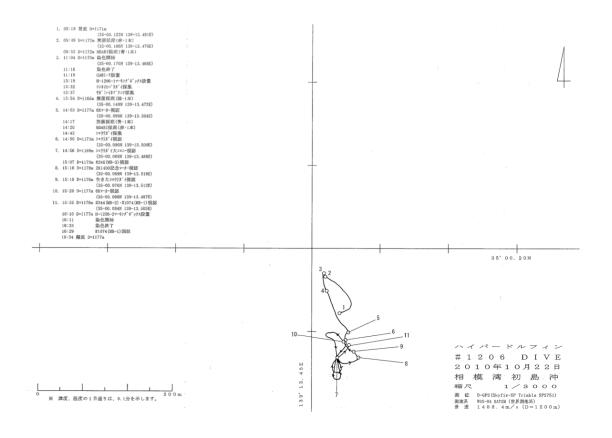
天候	風向	風力	風浪	うねり	視程
0	NNE	5	3	3	7

最大潜航深度 1178 m

着底深度 1171 m	離底深度	1177 m
着底底質 泥	離底底質	泥

記事 海底を観察しながら航走し、染色ボックスの設置・回収、生物採集及び採泥を 行った。

Dive Track (HD#1206):



NT10-19 Leg.1 HD#1207 Dive Report

Date: 2010/10/23

Observer: Hiromi WATANABE (JAMSTEC)

Pilot: Homare WAKAMATSU, Shigeru KIKUYA

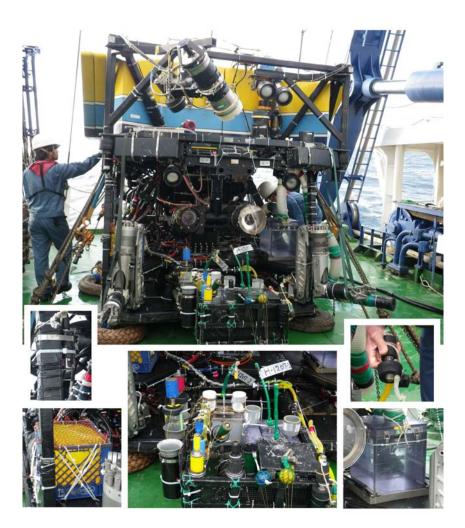
Objective: Estimation of growth rate of bivalves in methane seep area and Investigation of parasitic eukaryotes Diving site: Off Hatsushima Island site, Sagami Bay Landing Point: 35°00.915'N, 139°13.390'E, 951m deep (9:51)

Leaving Point: 35°00.938'N, 139°13.234'E, 808m deep (16:07)

Dive Summary:

ROV Hyper-Dolphin landed on muddy seafloor around landing target (951m depth). The ROV headed to *Bathymodiolus* colonies and volcanic(?) rocks were lined NW-SE direction. We observed a tubeworm community with some bivalves and gastropods. In the Bathymodiolus colony, we also observed Calyptogena as well. The sterilized coring (black) and in situ growth-rate experiment were tried in a Bathymodiolus colony but both of them were failed. The ROV headed to Calyptogena colony in the western side. It was a large Calyptogena colony, and we could find some black-colored areas and small siphons (probably small Calyptogena individuals) along the edge of the colony. Firstly, sterilized coring (black) was sampled in the Calyptogena colony, and the Calyptogena distributed around the coring position were collected to the sampling box. MBARI-type core (blue) was also sampled. We found two *Calyptogena* covered with fungi at the edge and they were collected to the staining box for Bathymodiolus (as it was broken and could not be used for in situ rearing experiment in this dive). MBARI-type coring (red) was carried out at the black-colored area. The ROV re-accessed to this Calyptogena colony to land a good position, and the staining box for Calyptogena was deployed near Shinkai marker and in situ growth-rate estimation experiment was started with staining with dye. The ROV headed to another *Calyptogena* colony in the more western side. On its way, we sampled sterilized core (blue) at white-colored bacterial mat. At last, the ROV recovered the staining box deployed during 2009 in the Calyptogena colony, and left the bottom (808m depth).

Payload (HD#1207):



HD#1207 Dive 2010.10.23 Off Hatsushima Shallowe site	[1207-S1] Sampling Time	Sterilized Core Yello Sample No. [1207-S2] Sampling Time [12: 14 ~ 12: 15]	Westerilized Core Blue Sample No. [1207-S3] Sampling Time [15: 43]	MBARI Core GREEN Sample No. [1207-M] Sampling Time [: ~ :]
Sagami Bay	Sampling Box Sample No. [1207-B] Sampling Time [12 : 32 ~ 12 : 45]			MBARI Core BLUE ample No. 1207-M1] ampling Time 12: 21 ~ 12 :24] MARI Core RED mple No.
DONT		H1207-1 Staining Box for M Sampling Time [13:35]	Aussels Sar [1]	207-M2] mpling Time 3: 47 ~ 13 : 52]
PORT Single Canister for Slurp Gun Sample No. [1207-G] Sampling Time [11:39 ~ 11:40]	H1207-2 Staining Box for Clam Strat Time [15 :02 : 13] Complete Time [15 : 14 : 15]		DO sensor Dye	

Dive Result (HD#1207):

ハイパードルフィン 潜航記録

平 成	22	年	NT10-19	行動	記載者 菊谷 茂
潜航年月 潜航回		2010/1	0/23 2回		位置 作図中心位置 緯度 35°00.900 N
通算潜航回		1	207回		<u>緯度 35°00.900′N</u> 経度 139°13.400′E
潜航海潜航日		相模湾 調査潜		初島沖	WGS-84 の多細胞動物における寄生性真核微生物の
		If a state that	探索」		の多種語動物における訂主任具候像生物の
調査主	任	渡部 考	谷美		Pilot 紫谷 茂
ビークル 排	揮	大野 う	<u> </u>		Co. Pilot 若松 著
ſ	作	業経	過時刻		累 計 時 間
L	吊	揚	08:09		潜航時間 7:50
L	着	水	08:13		通 鄭 潜 航 5703:43
	潜艇	调始	08:39		ケ ケーブルNo. 4
	着	底	09:21		- 使用時間 8:33
	雕	底	16:07		ル 通算時間 777:35
	浮	上	16:29		

気象・海象

揚収完了

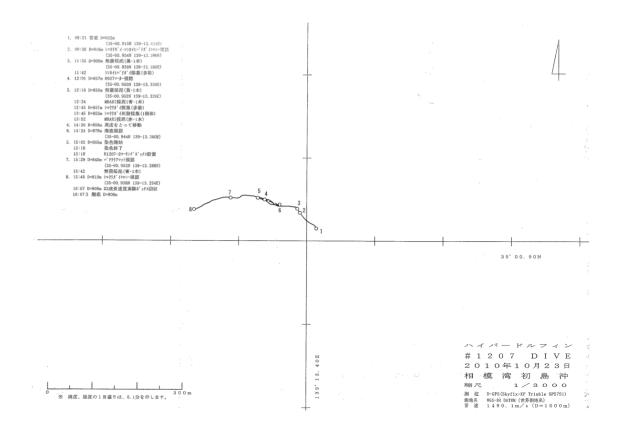
16:42

天候 風向	風力	風浪	うねり	視程
bc NE	5	4	3	7

最大潜航深度 952 m

記事 海底を観察しながら航走し、染色ボックスの設置・回収、生物採集及び採泥を 行った。

Dive Track (HD#1207):



On board (D	Dive No.	Sample Name (English) /	Japanese Name	Parts	Identified	Number of	Sampling	Fixation	Sample Repository Contact	WaterBody	Locality	Latitu	447.7	1.1	Longitu	de	
	(Station No./Traverse	Scientific Name			by	Individuals (Amount)	Method		Person	(Area)		Deg.	Min.	N/S	Deg.	Min.	E/V
1206-B01-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-801-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	2	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B01-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B01-04	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		Manupulator (Sample box)	culture media	Akinori Yabuki/Martin Kolisko/Yuriko Nagano (sample not available)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B01-05	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	mantle	Katsunori Fujikura		Manupulator (Sample box)	-80°C	(Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B01-08	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	blood	Katsunori Fujikura		Manupulator (Sample box)	culture media	Akinori Yabuki/Martin Kolisko (sample not available)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B01-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura		Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B02-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-802-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B02-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B02-04	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		Manupulator (Sample box)	culture media	Akinori Yabuki/Martin Kolisko (sample not available)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B02-05	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	mantle	Katsunori Fujikura		Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B02-08	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	blood	Katsunori Fujikura		Manupulator (Sample box)	culture media	Akinori Yabuki/Martin Kolisko (sample not available)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-802-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura		Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B03-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
11206-803-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B03-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-803-04	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		Manupulator (Sample box)	culture media	Akinori Yabuki/Martin Kolisko (sample not available)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B03-05	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	mantle	Katsunori Fujikura		Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B03-08	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	blood	Katsunori Fujikura		Manupulator (Sample box)	culture media	Akinori Yabuki/Martin Kolisko (sample not available)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B03-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura		Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-804-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
1206-B04-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E

5. Sample List

H1206-B04-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B04-05	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	mantle	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B04-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B05-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B05-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B05-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B05-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B05-11	HD#1206	copepoda (parasite in mantle cavity of <i>Calyptogena</i> spp.)	カイアシ類(シロウリガイ類外 套腔内寄生)		Yoshimi Takahashi	Manupulator (Sample box)	99.5% EtOH	Katsunori Fujikura (Takahashi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B06-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B06-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B06-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B06-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B07-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B07-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B07-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B07-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B08-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B08-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B08-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B08-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B09-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B09-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B09-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B09-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B10-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E

H1206-B10-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B10-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B10-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B11-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B11-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B11-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B11-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B12-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gi∥	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B12-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B12-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B12-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B13-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B13-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B13-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B13-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B14-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B14-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B14-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B14-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B15-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B15-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B15-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B15-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B15-11	HD#1206	copepoda (parasite in mantle cavity of Calyptogena spp.)	カイアシ類(シロウリガイ類外 套腔内寄生)		Yoshimi Takahashi	Manupulator (Sample box)	99.5% EtOH	Katsunori Fujikura (Takahashi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E
H1206-B16-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504 E

H1206-B16-02	HD#1206	Calyptogena	シロウリガイ/シマイシロウリガ	gill	Katsunori	Manupulator	-80°C	Kiyotaka Takishita	Sagami	Off Hatsushima	35	00.099		139	13.504	E
111200 010 02		soyoae/Calyptogena okutanii	1		Fujikura	(Sample box)	800	(Noguchi)	Bay	Island	00	00.000		100	10.001	
H1206-B16-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B16-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B17-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B17-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B17-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B17-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B18-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B18-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B18-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B18-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B19-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B19-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B19-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B19-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B20-01	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B20-02	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B20-03	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	Manupulator (Sample box)	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-B20-10	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	Manupulator (Sample box)	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139	13.504	E
H1206-G01-01	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	10% Folmarin		Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468	Е
H1206-G01-02	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori	Slurp gun	-80°C	(Noguchi) Kiyotaka Takishita	Sagami	Off Hatsushima Island	35	00.17	N	139	13.468	E
H1206-G01-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	Slurp gun	liquid	(Nosuchi) Kiyotaka Takishita	Bay Sagami	Off Hatsushima	35	00.17	N	139	13.468	E
H1206-G01-05	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	mantle	Fujikura Katsunori Fujikura	Slurp gun	nitrogen -80°C	(Nosuchi) Kiyotaka Takishita (Nasushi)	Bay Sagami	Island Off Hatsushima Island	35	00.17	N	139	13.468	E
H1206-G01-07	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	intestinal contents	Fujikura Katsunori Fujikura	Slurp gun	culture media	(Noguchi) Akinori Yabuki/Martin Kolisko (sample not	Bay Sagami Bay	Jsland Off Hatsushima Island	35	00.17	N	139	13.468	E
H1206-G01-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other	Katsunori	Slurp gun	70% EtOH	Kiyotaka Takishita	Sagami	Off Hatsushima	35	00.17	N	139	13.468	E
H1206-G01-11	HD#1206	Polynoidae sp.	ウロコムシ科の1種	parts	Fujikura Yoshimi	1 Slurp gun	99.5% EtOH	(Noguchi) Katsunori Fujikura	Bay Sagami	Island Off Hatsushima	35	00.17	N	139	13.468	E
		Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	1 D D	Takahashi Katsunori			(Takahashi)	Bay	Island	1	00.17	1 C C		13.468	+

H1206-G02-02	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fuiikura	Slurp gun	-80°C	Kiyotaka Takishita (Nosuchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	139 13.468
H1206-G02-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori	Slurp gun	liquid	Kiyotaka Takishita	Sagami	Off Hatsushima	35 00.17 N	139 13.468
H1206-G02-04	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori Fujikura	Slurp gun	nitrogen culture media	(Noguchi) Akinori Yabuki/Martin Kolisko/Yuriko Nagano	Bay Sagami Bay	Island Off Hatsushima Island	35 00.17 N	139 13.468
H1206-G02-05	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	mantle	Katsunori	Slurp gun	-80°C	(sample not available) Kiyotaka Takishita	Sagami	Off Hatsushima	35 00.17 N	139 13.468
H1206-G02-07	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	intestina contents	Fujikura Katsunori Fujikura	Slurp gun	culture media	(Noguchi) Akinori Yabuki/Martin Kolisko (sample not	Bay Sagami Bay	Island Off Hatsushima Island	35 00.17 N	139 13.468
H1206-G02-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	139 13.468
H1206-G03-01	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	10% Folmarin	Kiyotaka Takishita (Nosuchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	139 13.468
H1206-G03-02	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	139 13.468
H1206-G03-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	139 13.468
H1206-G03-04	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	culture media	Akinori Yabuki/Martin Kolisko (sample not	Sagami Bay	Off Hatsushima Island	35 00.17 N	
H1206-G03-05	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	mantle	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Nosuchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	139 13.468
H1206-G03-07	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	intestina contents	Katsunori Fujikura	Slurp gun	culture media	sample not available	Sagami Bay	Off Hatsushima Island	35 00.17 N	139 13.468
H1206-G03-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	a second consistence of
H1206-G04-01	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	10% Folmarin	(Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	
H1206-G04-02	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	
H1206-G04-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	139 13.468
H1206-G04-04	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	culture media	Kolisko (sample not	Sagami Bay	Off Hatsushima Island	35 00.17 N	194 191089
H1206-G04-05	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	mantle	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	100 10.100
H1206-G04-07	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	intestina contents	Katsunori Fujikura	Slurp gun	culture media	Akinori Yabuki/Martin Kolisko (sample not	Sagami Bay	Off Hatsushima Island	35 00.17 N	
H1206-G04-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	
H1206-G05-01	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	10% Folmarin	Kiyotaka Takishita (Nosuchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	
H1206-G05-02	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	100 10.100
H1206-G05-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	139 13.468
H1206-G05-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	139 13.468
H1206-G06-01	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	
H1206-G06-02	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Nosuchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	12291 2026222024
H1206-G06-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	liquid nitrogen	Kiyotaka Takishita (Nosuchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	139 13.468
H1206-G06-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	100 10000
H1206-G07-01	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17 N	
H1206-G07-02	HD#1206	Bathymodiolus platifrons Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ ヘイトウシンカイヒバリガイ	gill gill	Katsunori Fujikura Katsunori	Slurp gun Slurp gun	-80°C liauid	Kiyotaka Takishita (Noguchi) Kiyotaka Takishita	Sagami Bay Sagami	Off Hatsushima Island Off Hatsushima	35 00.17 N 35 00.17 N	139 13.468
H1206-G07-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other	Fujikura Katsunori	10-2 (2010) 1 (10 00) (2010)	nitrogen 70%EtOH	(Nosuchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35 00.17 N	
H1206-G07-10	HD#1206		ヘイトウシンカイヒバリガイ	parts	Katsunori Fujikura Katsunori	Slurp gun	10% Folmarin	(Noguchi)	Вау	Island Off Hatsushima	35 00.17 N	· · · · · · · · · · · · · · · · · · ·
H1206-G08-01	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura Katsunori	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi) Kiyotaka Takishita	Sagami Bay Sogami	Island Off Hatsushima	35 00.17 N 35 00.17 N	
H1206-G08-02	HD#1206	Bathymodiolus platifrons Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura Katsunori	Slurp gun Slurp gun	liquid	(Nosuchi) Kiyotaka Takishita	Sagami Bay Sagami	Island Off Hatsushima	35 00.17 N	139 13.468
H1206-G08-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other	Katsunori Fujikura Katsunori	Slurp gun	nitrogen 70%EtOH	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35 00.17 N	139 13.468
11200 000 10	110#1200	Data y motionas praulirons		parts	Fujikura	Siurp gun		(Noguchi)	Bay	Island	55 00.17 N	139 13,400

H1206-G09-01	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori	Slurp gun	10% Folmarin	Kiyotaka Takishita	Sagami	Off Hatsushima	35	00.17	N	139	13.468 E
and an analysis of a second second second	AND REAL OF DESIGN		Storn Sciences Strengt Strengt	100000	Fujikura	Party active of Development		(Nosuchi)	Вау	Island	100			102.000 S	aboren ar
H1206-G09-02	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	2	00.17	N		13.468 E
H1206-G09-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	1391	13.468 E
H1206-G09-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	nitrogen 70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G10-01	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G10-02	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G10-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G10-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G11-01	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G11-02	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G11-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G11-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G12-01	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G12-02	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fuiikura	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	Ν	139	13.468 E
H1206-G12-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G12-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G13-01	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G13-02	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G13-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G13-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139 1	13.468 E
H1206-G14-01	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fuiikura	Slurp gun	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139 1	13.468 E
H1206-G14-02	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	Ν	139 1	13.468 E
H1206-G14-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139 1	13.468 E
H1206-G14-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	Ν	139 1	13.468 E
H1206-G15-01	HD#1206	Bathymodiclus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139 1	13.468 E
H1206-G15-02	HD#1206	Bathymodiclus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G15-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	Ν	1391	13.468 E
H1206-G15-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	1391	13.468 E
H1206-G16-01	HD#1206	Bathymodiclus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139 1	13.468 E
H1206-G16-02	HD#1206	Bathymodiclus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	Ν	139	13.468 E
H1206-G16-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G16-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	Ν	139	13.468 E
H1206-G17-01	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G17-02	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	liquid	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E
H1206-G17-03					runkura										
H1206-G17-03 H1206-G17-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	nitrogen 70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.17	N	139	13.468 E

H1206-G18-02	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori	Slurp gun	-80°C	Kiyotaka Takishita	Sagami	Off Hatsushima	35 00.17	N	139	13.468	E
H1206-G18-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	Slurp gun	liquid	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35 00.17	N	130	13.468	E
				9	Fujikura		nitrogen	(Nosuchi)	Bay	Island		5		1	-
H1206-G18-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17	N	139	13.468	Ē
H1206-G19-01	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17	N	139	13.468	E
H1206-G19-02	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17	N	139	13.468	E
H1206-G19-03	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17	N	139	13.468	E
H1206-G19-10	HD#1206	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17	N	139	13.468	E
H1206-G20-01	HD#1206	Bathymodiolus japonicus	シンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17	N	139	13.468	E
H1206-G20-02	HD#1206	Bathymodiolus japonicus	シンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17	N	139	13.468	E
H1206-G20-03	HD#1206	Bathymodiolus japonicus	シンカイヒバリガイ	gill	Katsunori Fujikura	Slurp gun	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17	N	139	13.468	E
H1206-G20-06	HD#1206	Bathymodiolus japonicus	シンカイヒバリガイ	gonad	Katsunori Fujikura	Slurp gun	10% Folmarin	Kazue Oishi (Sekine)	Sagami Bay	Off Hatsushima Island	35 00.17	N	139	13.468	E
H1206-G20-09	HD#1206	Bathymodiolus japonicus	シンカイヒバリガイ	gonad	Katsunori Fujikura	Slurp gun	-80°C	Kazue Oishi (Sekine)	Sagami Bay	Off Hatsushima Island	35 00.17	N	139	13.468	E
H1206-G20-10	HD#1206	Bathymodiolus japonicus	シンカイヒバリガイ	other parts	Katsunori Fujikura	Slurp gun	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.17	N	139	13.468	E
H1206-G21	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	Juito	Katsunori Fujikura	Slurp gun	10%Folmarin	Katsunori Fujikura (Seo)	Sagami Bay	Off Hatsushima Island	35 00.17	N	139	13.468	E
H1206-G22	HD#1206	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	о.	Katsunori Fujikura	Slurp gun	10%Folmarin	Katsunori Fujikura (Seo)	Sagami Bay	Off Hatsushima Island	35 00.17	N	139	13.468	E
H1207-B01-01	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.952	N	139	13.328	E
H1207-B01-02	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.952	N	139	13.328	E
H1207-B01-03	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.952	N	139	13.328	E
H1207-B01-04	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		culture media	Akinori Yabuki/Martin Kolisko (sample not available)	Sagami Bay	Off Hatsushima Island	35 00.952	N	139	13.328	E
H1207-B01-05	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	mantle	Katsunori Fujikura		-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.952	N	139	13.328	E
H1207-B01-08	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	blood	Katsunori Fujikura		culture media	Akinori Yabuki/Martin Kolisko/Yuriko Nagano (sample not available)	Sagami Bay	Off Hatsushima Island	35 00.952	N	139	13.328	E
H1207-B01-10	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura		70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.952	N	139	13.328	E
H1207-B02-01	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.952	N	139	13.328	E
H1207-B02-02	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.952	N	139	13.328	E
H1207-B02-03	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.952	N	139	13.328	E
H1207-B02-04	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura		culture media	Akinori Yabuki/Martin Kolisko (sample not available)	Sagami Bay	Off Hatsushima Island	35 00.952	N	139	13.328	E
H1207-B02-05	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	mantle	Katsunori Fujikura		-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.952	N	139	13.328	E
H1207-B02-08	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ		Katsunori Fujikura		culture media	Akinori Yabuki/Martin Kolisko (sample not available)	Sagami Bay	Off Hatsushima Island	35 00.952	N	139	13.328	E
H1207-B02-10	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura		70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 00.952	N	139	13.328	E

H1207-B03-01	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B03-02	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B03-03	HD#1207	Calyptogena soyoae/Calyptogena okutanji	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B03-04	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	culture media	Akinori Yabuki/Martin Kolisko (sample not available)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B03-05	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	mantle	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B03-08	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	blood	Katsunori Fujikura	culture media	Akinori Yabuki/Martin Kolisko (sample not available)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B03-10	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B04-01	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B04-02	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B04-03	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B04-04	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	culture media	Akinori Yabuki/Martin Kolisko (sample not ovoiloble)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B04-05	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	mantle	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B04-08	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	blood	Katsunori Fujikura	culture media	Yuriko Nagano, sample not available	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B04-1 O	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B05-01	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B05-02	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B05-03	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B05-10	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B06-01	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B06-02	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B06-03	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B06-10	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B07-01	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B07-02	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E
H1207-B07-03	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139	13.328	E

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H1207-B07-10	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	350	0.952	N	139 13	3.328 E
H1207-B08-01	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B08-02	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B08-03	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B08-10	HD#1207	Calyptogena soyoae/Calyptogena	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B08-11	HD#1207	okutanii copepoda (parasite in mantle cavity of	カイアシ類(シロウリガイ類外 套腔内寄生)		Yoshimi Takahashi	99.5% EtOH	Katsunori Fujikura (Takahashi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B09-01	HD#1207	Calyptogena spp.) Calyptogena soyoae/Calyptogena	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B09-02	HD#1207	okutanii Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B09-03	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B09-10	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B09-11	HD#1207	copepoda (parasite in mantle cavity of Calvptogena spp.)	カイアシ類(シロウリガイ類外 套腔内寄生)		Yoshimi Takahashi	99.5% EtOH	Katsunori Fujikura (Takahashi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B10-01	HD#1207	Calyptogena Soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B10-02	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B10-03	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B10-10	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B10-11	HD#1207	copepoda (parasite in mantle cavity of Calyptogena spp.)	カイアシ類(シロウリガイ類外 套腔内寄生)		Yoshimi Takahashi	99.5% EtOH	Katsunori Fujikura (Takahashi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B11-01	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B11-02	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B11-03	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B11-10	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B11-11	HD#1207	copepoda (parasite in mantle cavity of Calyptogena spp.)	カイアシ類(シロウリガイ類外 套腔内寄生)		Yoshimi Takahashi	99.5% EtOH	Katsunori Fujikura (Takahashi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B12-01	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B12-02	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B12-03	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E
H1207-B12-10	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35 0	0.952	N	139 13	3.328 E

H1207-B12-11	HD#1207	copepoda (parasite in mantle cavity of Calyptogena spp.)	カイアシ類(シロウリガイ類外 套腔内寄生)		Yoshimi Takahashi	99.5% EtOH	Katsunori Fujikura (Takahashi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B13-01	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	10% Folmarin	n Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B13-02	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B13-03	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B13-10	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B13-11	HD#1207	copepoda (parasite in mantle cavity of Calyptogena spp.)	カイアシ類(シロウリガイ類外 套腔内寄生)	9. D	Yoshimi Takahashi	99.5% EtOH	Katsunori Fujikura (Takahashi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B14-01	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	10% Folmarir	i Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B14-02	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B14-03	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B14-10	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B14-11	HD#1207	copepoda (parasite in mantle cavity of Calvptogena spp.)	カイアシ類(シロウリガイ類外 套腔内寄生)		Yoshimi Takahashi	99.5% EtOH	Katsunori Fujikura (Takahashi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B15-01	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	10% Folmarir) Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B15-02	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B15-03	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B15-10	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B15-11	HD#1207	copepoda (parasite in mantle cavity of Calyptogena spp.)	カイアシ類(シロウリガイ類外 套腔内寄生)		Yoshimi Takahashi	99.5% EtOH	Katsunori Fujikura (Takahashi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B16-01	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	10% Folmarir	i Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B16-02	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B16-03	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-B16-10	HD#1207	Calyptogena soyoae/Calyptogena okutanii	シロウリガイ/シマイシロウリガ イ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.952	N	139 1	13.328 E
H1207-G01-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	10% Folmarir	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 1	13.386 E
H1207-G01-02	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 1	13.386 E
H1207-G01-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 1	13.386 E
H1207-G01-04	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	culture	Kiyotaka Takishita (Noguchi), sample not available	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 1	13.386 E
H1207-G01-05	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	mantle	Katsunori Fulikura	media -80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 1	13.386 E
H1207-G01-07	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	intestinal contents	Katsunori Fuikura	culture media	Akinori Yabuki/Martin Kolisko (sample not	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 1	13.386 E
H1207-G01-10	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bav	Off Hatsushima Island	35	00.939	N	139	13.386 E

H1207-G02-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori	10% Folmarin	Kiyotaka Takishita	Sagami	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G02-02	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	-80°C	(Noguchi) Kiyotaka Takishita	Bay Sagami	Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G02-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	liquid	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G02-04	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	nitrogen culture	(Noguchi) Kiyotaka Takishita (Noguchi),	Bay Sagami	lsland Off Hatsushima	35	00.939	N	139 13.386	E
		S 4		20	Fujikura	media	sample not available	Bay	Island					
H1207-G02-05	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	mantle	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Nosuchi)	Sagami Bay	Off Hatsushima Island	19954	00.939	1,1925	139 13.386	0.00734
H1207-G02-07	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	intestinal contents	Katsunori Fujikura	culture media	Akinori Yabuki/Martin Kolisko (sample not	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	, E
H1207-G02-10	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G03-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori	10% Folmarir	Kiyotaka Takishita	Sagami	Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G03-02	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	-80°C	(Nosuchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G03-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	liquid	(Nosuchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	; E
H1207-G03-04	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	nitrogen culture	(Noguchi) Kiyotaka Takishita (Noguchi),	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G03-05	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	mantle	Fujikura Katsunori	media -80°C	sample not available Kivotaka Takishita	Bay Sagami	Island Off Hatsushima		00.939		139 13.386	
		55 V.		122232200145	Fujikura	1032.070	(Noguchi)	Bay	Island					
H1207-G03-07	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	intestinal contents	Katsunori Fujikura	culture media	Akinori Yabuki/Martin Kolisko (sample not	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G03-10	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	70% EtOH	Kiyotaka Takishita (Noguchi), sample not available	Sagami Bav	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G04-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	10% Folmarin	Kiyotaka Takishita	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G04-02	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori	-80°C	(Nosuchi) Kiyotaka Takishita	Sagami	Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G04-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	liquid	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G04-04	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	nitrogen culture	(Noguchi) Kiyotaka Takishita (Noguchi),	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	; E
H1207-G04-05	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	mantle	Fujikura Katsunori	media -80°C	sample not available Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G04-07	HD#1207		ヘイトウシンカイヒバリガイ		Fujikura Katsunori		(Nosuchi)	Вау	Island				139 13.386	
		Bathymodiolus platifrons		intestinal contents	Fujikura	culture media	Akinori Yabuki/Martin Kolisko (sample not	Sagami Bay	Off Hatsushima Island		00.939			
H1207-G04-10	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	70% EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G05-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	10% Folmarir	Niyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G05-02	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori	-80°C	Kiyotaka Takishita	Sagami	Off Hatsushima	35	00.939	N	139 13.386	; E
H1207-G05-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	liquid	(Nosuchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G05-10	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other	Fujikura Katsunori	nitrogen 70%EtOH	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	E E
H1207-G06-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	parts gill	Fujikura Katsunori	10% Folmarin	(Noguchi) N Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	E F
H1207-G06-02	HD#1207		ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	-80°C	(Nosuchi)	Bay	Island Off Hatsushima		00.939		139 13.386	
		Bathymodiolus platifrons		2%	Fujikura	10.00.000	Kiyotaka Takishita (Noguchi)	Sagami Bay	Island					
H1207-G06-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G06-10	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G07-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	10% Folmarin	Kiyotaka Takishita	Sagami	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G07-02	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori	-80°C	(Noguchi) Kiyotaka Takishita	Bay Sagami	Off Hatsushima	35	00.939	N	139 13.386	i E
H1207-G07-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	liquid	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G07-10	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other	Fujikura Katsunori	nitrogen 70%EtOH	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	E
and an address of the second	HD#1207		STATES PARAMETERS AND A STATES IN A STATES	parts	Fujikura	10% Folmarin	(Noguchi)	Вау	Island	2000			The set of the owner in a de	
H1207-G08-01		Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura		Niyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island		00.939		139 13.386	
	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island		00.939		139 13.386	
H1207-G08-02														
H1207-G08-02 H1207-G08-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	ξE

H1207-G09-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fuiikura	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G09-02	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386) E
H1207-G09-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fuikura	liquid	Kiyotaka Takishita	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	; E
H1207-G09-10	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other	Katsunori	nitrogen 70%EtOH	(Nosuchi) Kiyotaka Takishita	Sagami	Off Hatsushima	35	00.939	N	139 13.386	5 E
H1207-G10-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	parts gill	Fujikura Katsunori	10% Folmarin	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	ў Е
H1207-G10-02	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	-80°C	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	5 E
H1207-G10-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	liquid	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	3 E
H1207-G10-10	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other	Fujikura Katsunori	nitrogen 70%EtOH	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	S E
H1207-G11-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	parts gill	Fujikura Katsunori	10% Folmarin	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	3 E
H1207-G11-02	HD#1207	Bathymodiclus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	-80°C	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	1 1	00.939		139 13.386	5
H1207-G11-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	liquid	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima		00.939		139 13.386	-
H1207-G11-10	HD#1207	Bathymodiclus platifrons	ヘイトウシンカイヒバリガイ		Fujikura Katsunori	nitrogen 70%EtOH	(Nosuchi)	Bay	Island Off Hatsushima		00.939		139 13.386	
	-	55 VA		other parts	Fujikura		Kiyotaka Takishita (Noguchi)	Sagami Bay	Island					
H1207-G12-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	1000	00.939		139 13.386	2 2.53
H1207-G12-02	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Nosuchi)	Sagami Bay	Off Hatsushima Island	_	00.939		139 13.386	_
H1207-G12-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	i E
H1207-G12-10	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	i E
H1207-G13-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	10% Folmarin		Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	; E
H1207-G13-02	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386) E
H1207-G13-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	liquid	Kiyotaka Takishita	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	; E
H1207-G13-10	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other	Katsunori Fujikura	nitrogen 70%EtOH	(Noguchi) Kiyotaka Takishita	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386) E
H1207-G14-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	parts gill	Katsunori	10% Folmarin	(Noguchi) Kiyotaka Takishita	Sagami	Off Hatsushima	35	00.939	N	139 13.386	\$ E
H1207-G14-02	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	-80°C	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	š E
H1207-G14-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	liquid	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386) E
H1207-G14-10	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other	Fujikura Katsunori	nitrogen 70%EtOH	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	3 E
H1207-G15-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	parts gill	Fujikura Katsunori	10% Folmarin	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	3 E
H1207-G15-02	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	-80°C	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	3 E
H1207-G15-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Fujikura Katsunori	liquid	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima		00.939		139 13.386	-
H1207-G15-10	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other	Fujikura Katsunori	nitrogen 70%EtOH	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima		00.939		139 13.386	
H1207-G16-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	parts	Fujikura Katsunori	10% Folmarin	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima		00.939		139 13.386	
			STILLE SPECIAL STREET, SPECIAL	- Carlos	Fujikura		(Noguchi)	Bay	Island	2642020		0 0/22 0	1000 1000 100	3 255
H1207-G16-02	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Nosuchi)	Sagami Bay	Off Hatsushima Island	· · · · · · · · · · · · · · · · · · ·	00.939		139 13.386	
H1207-G16-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island		00.939		139 13.386	
H1207-G16-10	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	other parts	Katsunori Fujikura	70%EtOH	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island		00.939		139 13.386	
H1207-G17-01	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	10% Folmarin	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	
Contraction of Contraction of Contraction	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fujikura	-80°C	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G17-02	110#1207	2											1	E
H1207-G17-02 H1207-G17-03	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	gill	Katsunori Fuikura	liquid	Kiyotaka Takishita (Nosuchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	
The second second second second second		Bathymodiolus platifrons Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ ヘイトウシンカイヒバリガイ	gill other parts	Katsunori Fujikura Katsunori Fuikura	liquid nitrogen 70%EtOH	Kiyotaka Takishita (Noguchi) Kiyotaka Takishita (Noguchi)				00.939		139 13.386 139 13.386	

H1207-G18-02	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	gill	Katsunori			-80°C	Kiyotaka Takishita	Sagami	Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G18-03	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	gill	Fujikura Katsunori	¢		liquid	(Nosuchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G18-06	HD#1207	Tetter d'al contra inco	シンカイヒバリガイ		Fujikura Katsunori	-	-	nitrogen	(Noguchi)	Bay	Island Off Hatsushima	05	00.939	N	139 13.386	
H1207-G18-06	HU#1207	Bathymodiolus japonicus	シンガイビバリガイ	gonad	Fujikura			10% Folmann	Kazue Oishi (Sekine)	Sagami Bay	Island	35	00.939	N	139 13.380	· E:
H1207-G18-09	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	gonad	Katsunori Fuiikura			-80°C	Kazue Oishi (Sekine)	Sagami Bay	Off Hatsushima Island	35	00.939	Ν	139 13.386	E
H1207-G18-10	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	other	Katsunori Fujikura			70%EtOH	Kiyotaka Takishita	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G19-01	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	parts gill	Katsunori	4		10% Folmarin	(Noguchi) Kiyotaka Takishita	Sagami	Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G19-02	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	gill	Fujikura Katsunori	2	-	-80°C	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G19-03	HD#1207	12/5/15 28/2 23	シンカイヒバリガイ		Fujikura		-		(Noguchi)	Bay	Island			N	139 13.386	
		Bathymodiolus japonicus		gill	Katsunori Fujikura			liquid nitrogen	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island		00.939	N		
H1207-G19-06	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	gonad	Katsunori Fuiikura			10% Folmarin	Kazue Oishi (Sekine)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G19-09	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	gonad	Katsunori Fujikura			-80°C	Kazue Oishi (Sekine)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	ε
H1207-G19-10	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	other	Katsunori			70%EtOH	Kiyotaka Takishita	Sagami	Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G20-01	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	parts gill	Fujikura Katsunori			10% Folmarin	(Noguchi) Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G20-02	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	gill	Fujikura Katsunori		<u> </u>	-80°C	(Noguchi) Kiyotaka Takishita	Bay Sagami	lsland Off Hatsushima		00.939	N	139 13.386	
LIGHTER BRIDE DES	27522-03.63200772	50000090000000000000000000000000000000	ALCO DELCONTROL DE LA CONTROL	and and a second se	Fujikura			0-0.059/0528	(Noguchi)	Bay	Island		02530303	Ň	1221	2.20
H1207-G20-03	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	gill	Katsunori Fuiikura			liquid	Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G20-06	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	gonad	Katsunori Fujikura			10% Folmarin	Kazue Oishi (Sekine)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G20-09	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	gonad	Katsunori			-80°C	Kazue Oishi (Sekine)	Sagami	Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G20-10	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	other	Fujikura Katsunori			70%EtOH	Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	E
H1207-G21	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	parts	Fujikura Katsunori	-		70%EtOH	(Noguchi) Kazue Oishi	Bay Sagami	Island Off Hatsushima	35	00.939	N	139 13.386	E E
THEOF GET	110#1207	Datriymodolus Japomous			Fujikura			TOMELOTT	(Sekine)/Kiyotaka Takishita (Noguchi)	Bay	Island	55	00.000		100 10.000	-
H1207-G22	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ		Katsunori Fujikura			70%EtOH	Kazue Oishi (Sekine)/Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G23	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ		Katsunori Fujikura			70%EtOH	Kazue Oishi (Sekine)/Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1207-G24	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ		Katsunori Fujikura			70%EtOH	Kazue Oishi (Sekine)/Kiyotaka Takishita (Noguchi)	Sagami Bay	Off Hatsushima Island	35	00.939	N	139 13.386	E
H1206-B100	HD#1207	Thyasiridae sp.	ハナシガイ科	2	Katsunori		3 Manupulator	99.5% Ethanol	Hiromi Watanabe	Sagami	Off Hatsushima	35	00.099	N	139 13.504	F E
H1206-B101	HD#1207	Provanna glabra	サガミハイカブリニナ	-	Fujikura Katsunori	1	(Sample box) 0 Manupulator	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.099	N	139 13.504	E E
H1206-B102	HD#1207	<i>Provanna</i> sp.	サガミハイカブリニナ属		Fujikura Katsunori		(Sample box) 2 Manupulator	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.099	N	139 13.504	E
H1206-B103	HD#1207	Margarites shinkai	シンカイシタダミ		Fujikura Katsunori	2 2	(Sample box) 1 Manupulator	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.099	N	139 13.504	
	(1,1,0,0,0); (24,0,0); (3,0,1); (4,0,0)	sana na 2000 na sana na kata sa kata s N		2	Fujikura		(Sample box)	1004000.004.000004.05 0.00		Bay	Island	1	191362553425 		1000	1
H1206-B104	HD#1207	unidentified invertebrate	未同定無脊椎動物	5. 1	Katsunori Fujikura	; :	1 Manupulator (Sample box)	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35	00.099	N	139 13.504	E)
H1206-B105	HD#1207	Nuculoida Bivalve	クルミガイ目	1 (k)	Katsunori Fujikura	1	2 Manupulator (Sample box)	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35	00.099	N	139 13 504) E
H1206-B106	HD#1207	Amphipoda sp.	ヨコエピ目	- <u>-</u>	Katsunori		1 Manupulator	99.5% Ethanol	Hiromi Watanabe	Sagami	Off Hatsushima	35	00.099	N	139 13.504	F E
H1206-B107	HD#1207	unidentified small bivalves	未同定二枚貝(小型)	-	Fujikura Katsunori	1	(Sample box) 0 Manupulator	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.099	N	139 13.504	E
H1206-B108	HD#1207	unidentified small	未同定腹足類(小型)	-	Fujikura Katsunori	9	(Sample box) 1 Manupulator	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.099	N	139 13.504	E
H1206-B109	HD#1207	gastropoda Maldanidae sp.	タケフシゴカイ科		Fujikura Katsunori		(Sample box) 2 Manupulator	99.5% Ethanol		Bay Sagami	lsland Off Hatsushima	262022	00.099	N	139 13.504	A
	2		2	2	Fujikura	-	(Sample box)			Bay	Island		VEP SPOT OF			
H1206-B110	HD#1207	Polychaeta spp.	多毛類複数種		Katsunori Fujikura	many	Manupulator (Sample box)	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35	00.099	Ν	139 13.504	
H1206-B111	HD#1207	Calyptogena okutanii & soyoae	シロウリガイ・シマイシロウリガ イ		Katsunori Fujikura		8 Manupulator (Sample box)	Frozen -80	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35	00.099	N	139 13.504	E
H1206-B112	HD#1207	Calyptogena okutanii &	ー 中小サイズのシロウリガイ・シ マイシロウリガイ		Katsunori	1	5 Manupulator	99.5% Ethanol	Hiromi Watanabe	Sagami	Off Hatsushima	35	00.099	N	139 13.504	E
H1206-B113	HD#1207	soyoae Calyptogena okutanii &	中小サイズのシロウリガイ・シ	1	Fujikura Katsunori	1	(Sample box) 5 Manupulator	10% Formalin	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.099	N	139 13.504	E
	Line Respectively (201	soyoae	マイシロウリガイ	a	Fujikura	100	(Sample box)	and the substant substant of		Bay	Island					

H1206-B114	HD#1207	Calyptogena okutanii & soyoae	ハサイズのシロウリガイ・シマ イシロウリガイ	Katsunori Fujikura	2	2 Manupulator (Sample box)	Frozen -80	Hiromi Watanabe (Toshimitsu Nakamura)	Sagami Bay	Off Hatsushima Island	35	00.099	N	139 13.504	4 E
H1206-B115	HD#1207	Calyptogena okutanii &	小サイズのシロウリガイ・シマ イシロウリガイ	Katsunori	2	2 Manupulator	Parafolm-	Hiromi Watanabe (Toshimitsu	Sagami Bay	Off Hatsushima Island	35	00.099) N	139 13.504	4 E
H1206-B116	HD#1207	sovoae Calyptogena okutanii &	<u>インロワリカイ</u> シロウリガイ・シマイシロウリガ	Fujikura Katsunori	Ē	(Sample box) 6 Manupulator	aldehyde 99.5% Ethanol	Nakamura) Hiromi Watanabe (Eriko Seo)	Bay Sagami	Off Hatsushima	35	00.099	N	139 13.504	4 E
H1206-B117	HD#1207	soyoae Calptogena (Archivesica)	イ サイワイシロウリガイ(死殻)	Fujikura Katsunori	半殼	(Sample box) Manupulator	Dry	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.099) N	139 13.504	4 E
H1206-B118	HD#1207	fortunata dead shell Calyptogena okutanii &	シロウリガイ・シマイシロウリガ	Fujikura Katsunori		(Sample box) 3 Manupulator	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.099) N	139 13.504	4 E
H1206-G100	HD#1207	soyoae Provanna glabra	イ サガミハイカブリニナ	Fujikura Katsunori	many	(Sample box) Slurp gun	5% Formalin	Kiyotaka Takishita	Bay Sagami	Island Off Hatsushima	35	00.17	N	139 13.468	8 F
1999 - A.	HD#1207	1997 - 1997 - 1998 - 1976 -	サガミハイカブリニナ	Fujikura	1202.003. 0 7	10000000000000000000000000000000000000	and set of the set of the set		Bay	Island			N	107070 100-00100/0710	64 - 262 G
H1206-G101		Provanna glabra		Katsunori Fujikura	many	Slurp gun	99.5% Ethanol	Kiyotaka Takishita	Sagami Bay	Off Hatsushima Island	-	00.17			
H1206-G102	HD#1207	Bathymodiolus japonicus	シンカイヒバリガイ	Katsunori Fujikura	3)	1 Slurp gun	10% Formalin	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35	00.17	N	139 13.468	3 E
H1206-G103	HD#1207	Phymorhynchus buccingides	ツブナリシャジク	Katsunori Fujikura	1	1 Slurp gun	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35	00.17	N	139 13.468	3 E
H1206-G104	HD#1207	Buccinidae sp.	エゾバイ科	Katsunori	1	1 Slurp gun	99.5% Ethanol	Hiromi Watanabe	Sagami	Off Hatsushima Island	35	00.17	N	139 13.468	8 E
H1206-G105	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	Fujikura Katsunori	many	Slurp gun	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	Off Hatsushima	35	00.17	N	139 13.468	8 E
H1206-G106	HD#1207	Bathyacmaea nipponica	ワタゾコシロアミガサガイモドキ	Fujikura Katsunori		1 Slurp gun	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.17	N	139 13.468	8 E
H1206-G107	HD#1207	Margarites shinkai	シンカイシタダミ	Fujikura Katsunori	1	1 Slurp gun	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.17	N	139 13.468	8 E
H1206-G108	HD#1207	Plathelminthes	ヒラムシ	Fujikura Katsunori		1 Slurp gun	10% Formalin	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima		00.17	N	139 13.468	
				Fujikura		2072			Bay	Island					
H1206-G109	HD#1207	Provanna glabra	サガミハイカブリニナ	Katsunori Fujikura	many	Slurp gun	Frozen -80	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	- 6463	00.17	N	139 13.468	68 (SA)
H1206-G110	HD#1207	Provanna glabra	サガミハイカブリニナ	Katsunori Fujikura	many	Slurp gun	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35	00.17	N	139 13.468	3 E
H1206-G111	HD#1207	Provanna glabra	サガミハイカブリニナ	Katsunori Fujikura	many	Slurp gun	10% Formalin	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35	00.17	N	139 13.468	8 E
H1206-G112	HD#1207	Amphipoda sp.	ヨコエピ 目	Katsunori	2	4 Slurp gun	10% Formalin	Hiromi Watanabe	Sagami	Off Hatsushima Island	35	00.17	N	139 13.468	8 E
H1206-G113	HD#1207	Porifera sp.	海綿動物	Fujikura Katsunori	many	Slurp gun	10% Formalin	Hiromi Watanabe	Bay Sagami	Off Hatsushima	35	00.17	N	139 13.468	8 E
H1206-G114	HD#1207	Porifera sp.	海綿動物	Fujikura Katsunori	many	Slurp gun	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.17	N	139 13.468	8 E
H1206-G115	HD#1207	Bathyacmaea nipponica	ワタゾコシロアミガサガイモドキ	Fujikura Katsunori	many	Slurp gun	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.17	N	139 13.468	8 E
H1206-G116	HD#1207	Polynoidae sp.	ウロコムシ科	Fujikura Katsunori		2 Slurp gun	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.17	N	139 13.468	8 F
H1206-G117	HD#1207	1	ヘイトウシンカイヒバリガイとツ	Fujikura			100000000000000000000000000000000000000		Bay	Island	200200	00.17	N	139 13.468	100 C
	HD#1207	Bathymodiolus platifrons +Phymorhynchus buccinoides eggs	ブナリシャジク卵塊	Katsunori Fujikura	9	1 Slurp gun	Live	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	30	00.17	IN.	139 13.400	3 E
H1206-G118	HD#1207	Bathymodiolus platifrons + unknown eggs	ヘイトウシンカイヒバリガイと不 明 卵塊	Katsunori Fujikura	· 3	1 Slurp gun	Live	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35	00.17	N	139 13.468	8 E
H1206-G119	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	Katsunori Fujikura	2	7 Slurp gun	10% Formalin	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35	00.17	N	139 13.468	8 E
H1207-B100	HD#1207	Gastropoda (small)	腹足類(小型)	Katsunori	1	1 Manupulator	99.5% Ethanol	Hiromi Watanabe	Sagami	Off Hatsushima	35	00.952	2 N	139 13.328	8 E
H1207-B101	HD#1207	Bathyacmaea nipponica	ワタゾコシロアミガサガイモドキ	Fujikura Katsunori	many	(Sample box) Manupulator	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.952	2 N	139 13.328	8 E
H1207-B102	HD#1207	Amphipoda spp.	ヨコエピ目	Fujikura Katsunori	many	(Sample box) Manupulator	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.952	2 N	139 13.328	8 E
H1207-B103	HD#1207	Ophiuroidea spp.	クモヒトデ類	Fujikura Katsunori		(Sample box) 1 Manupulator	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	lsland Off Hatsushima	35	00.952	2 N	139 13.328	8 E
H1207-B104	HD#1207	Margarites shinkai	シンカイシタダミ	Fujikura Katsunori	6	(Sample box) 6 Manupulator	99.5% Ethanol	Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	35	00.952	2 N	139 13.328	8 E
H1207-B105	HD#1207	<i>Calyptogena</i> sp.	シロウリガイ類	Fujikura Katsunori	1	(Sample box) 1 Manupulator	10% Formalin	Hiromi Watanabe (Toshimitsu	Bay Sagami	lsland Off Hatsushima	35	00.952	P N	139 13.328	8 E
H1207-B106	HD#1207	unknown invertebrate	不明無脊椎動物(腹足類?)	Fujikura Katsunori		(Sample box) 1 Manupulator	99.5% Ethanol	Nakamura) Hiromi Watanabe	Bay Sagami	Island Off Hatsushima	65464	00.952	1.025	139 13.328	94 <u>19</u> 29
	(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)((Gastropoda?)	The substitution of the second s	Fujikura	2	(Sample box)	in the second states of the second		Вау	Island	34000	149.082%20767. 1			64 - 144 - 14 15
H1207-B107	HD#1207	Plathelminthes?	扁形動物?	Katsunori Fujikura		5 Manupulator (Sample box)	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35	00.952	2 N	139 13.328	3 E
H1207-B108	HD#1207	Polychaeta spp.	多毛類複数種	Katsunori Fujikura	many	Manupulator (Sample box)	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35	00.952	2 N	139 13.328	3 E
			1 - 12 - 11T			1 Manupulator	99.5% Ethanol	Hiromi Watanabe	Sagami	Off Hatsushima	35	00.952	E NI	139 13.328	8 E
H1207-B109	HD#1207	Pycnogonida sp.	ウミグモ類	Katsunori			55.5A L LITATION	rironn tvatanabe				00.002	-	100 10.020	
	HD#1207 HD#1207	Pycnogonida sp.	ワミク 七類 ウズマキゴカイ科	Katsunori Fujikura Katsunori Fuiikura	many	(Sample box) Manupulator (Sample box)	99.5% Ethanol	Hiromi Watanabe	Bay Sagami Bay	Island Off Hatsushima Island		00.952		139 13.328	

H1207-B112	HD#1207	Calyptogena okutanii	シマイシロウリガイ	Katsunori Fujikura		2 Manupulator (Sample box)	Frozen-80	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35 00.952 N	139 13.328 E	E
H1207-G100	HD#1207	Provanna glabra	サガミハイカブリニナ	Katsunori Fujikura		2 Slurp gun	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35 00.939 N	139 13.386 E	E
H1207-G101	HD#1207	Polychaeta spp.	多毛類複数種	Katsunori Fujikura	-	3 Slurp gun	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35 00.939 N	139 13.386 E	E
H1207-G102	HD#1207	unknown egg mass/polychaeta	卵塊/ウズマキゴカイ科	Katsunori Fujikura	many	Slurp gun	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35 00.939 N	139 13.386 E	E
H1207-G103	HD#1207	Margarites shinkai	シンカイシタダミ	Katsunori Fujikura		6 Slurp gun	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35 00.939 N	139 13.386 E	E
H1207-G104	HD#1207	Pycnogonida sp.	ウミグモ類	Katsunori Fujikura		3 Slurp gun	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35 00.939 N	139 13.386 E	E
H1207-G105	HD#1207	Amphipoda spp.	ヨコエピ目	Katsunori Fujikura	many	Slurp gun	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35 00.939 N	139 13.386 E	E
H1207-G106	HD#1207	Bathyacmaea nipponica	ワタゾコシロアミガサガイモドキ	Katsunori Fujikura	many	Slurp gun	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35 00.939 N	139 13.386 E	E)
H1207-G107	HD#1207	Ophiuroidea spp.	クモヒトデ類	Katsunori Fujikura	many	Slurp gun	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35 00.939 N	139 13.386 E	E
H1207-G108	HD#1207	Bathymodiolus platifrons	ヘイトウシンカイヒバリガイ	Katsunori Fujikura	many	Slurp gun	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35 00.939 N	139 13.386 E	E
H1207-G109	HD#1207	Polychaeta spp.	多毛類複数種	Katsunori Fujikura	many	Slurp gun	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35 00.939 N	139 13.386 E	E
H1207-G110	HD#1207	Plathelminthes?	扁形動物?	Katsunori Fujikura	-	5 Slurp gun	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35 00.939 N	139 13.386 E	E
H1207-G111	HD#1207	Plathelminthes	扁形動物	Katsunori Fujikura		1 Slurp gun	99.5% Ethanol	Hiromi Watanabe	Sagami Bay	Off Hatsushima Island	35 00.939 N	139 13.386 E	E)

IV. Notice on Using

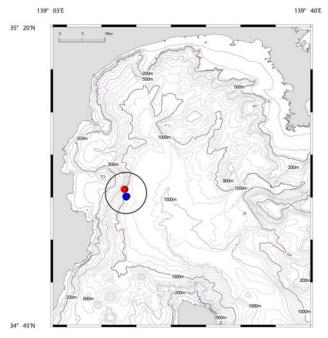
This cruise report is a preliminary documentation as of the end of the cruise. This report may not be corrected even if changes on contents (i.e. taxonomic classifications) may be found after its publication. This report may also be changed without notice. Data on this cruise report may be raw or unprocessed. If you are going to use or refer to the data written on this report, please ask the Chief Scientist for latest information. Users of data or results on this cruise report are requested to submit their results to the Data Integration and Analysis Group (DIAG) of JAMSTEC.

V. Appendix

クルーズサマリー

航海情報

航海番号:NT10-19 Leg.1 船舶名:なつしま/ハイパードルフィン 航海名称:「貝殻から熱水噴出活動を推定する」「化学合成生態系における多細胞 動物の寄生性真核微生物の探索」 主席研究者:渡部裕美(海洋研究開発機構) 航海期間:2010.10.21 – 2010.10.24 出港地:機構岸壁. 帰港地:機構岸壁 調査海域名:相模湾初島沖 調査マップ



調査概要

相模湾初島沖メタン湧水域に生息する化学合成二枚貝類を調査対象としたハイパー ドルフィンの潜航調査を2回実施した.潜航調査では,貝殻の成長線解析からメタン湧 水活動を推測するための現場飼育実験と,化学合成生態系に分布する寄生性真核 微生物を探索するための二枚貝類および堆積物の採集を行った.現場飼育実験は, 2011年1月に終了する予定である.

Cruise Summary

Cruise Information

Cruise ID : NT10-19 Leg.1

Name of Vessel: R/V Natsushima & ROV Hyper-Dolphin

Title of the Cruise: "Estimation of hydrothermal activities using growth line on bivalve shells", "Investigation of parasitic eukaryotes associated with chemosynthetic animals"

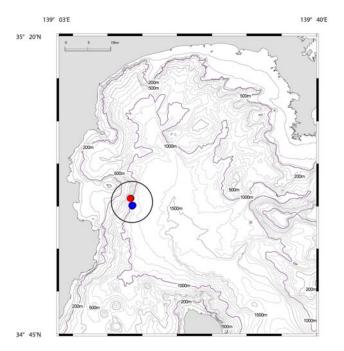
Chief Scientist: Hiromi WATANABE (JAMSTEC)

Cruise Period : 2010.10.21 - 2010.10.24

Port of Call : JAMSTEC

Research Area : Off Hatsushima Island site, Sagami Bay

Research Map



Overview of the Observation

Two dives of ROV Hyper-Dolphin were carried out during this cruise to investigate chemosynthetic bivalves in the methane seeps. To estimate methane seep activity, we are carrying out in situ rearing experiment, which will be completed in January 2011. On the other hand, to investigate eukaryotic parasites, we collected some bivalves and sediments in the methane seep site.