

# AMF NEWS

Aqua Marine Fukushima

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動物愛護増進法に基づいての表示●名称及び代表者の氏名／公益財団法人ふくしま海洋科学館 理事長 古川 健 ●事業所の名称／ふくしま海洋科学館 ●登録に係る動物取扱業の種別／展示業 ●動物取扱責任者／平治 崇 ●登録番号／福島県181保第3号 ●登録年月日／2006年11月30日 ●登録の有効期限の末日／2021年11月29日

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“Let's try keeping hermit crabs at home”

Nov.2021

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環境水族館 アクアマリンふくしまニュース

## スタッフミニコラム

Staff Mini Column



▲臨時休館中も、オンライン動画を使った教育普及プログラム等が実施された(詳細は本誌6ページに掲載)。Educational dissemination programs using online videos were held even during the temporary closure (details are posted on page 6 of this magazine).

## 「編集後記」

新型コロナウイルスのまん延防止等重点措置として、8月7日より始まった臨時休館。コロナ禍による臨時休館は3度目ですが、今回は2ヵ月近くにおよびました。

休館していても、生き物の世話をすることに変わりはありません。むしろスタッフはこの期間を活用して、水槽の大掛かりなメンテナンスや展示替え等を行い、再開に向けて忙しく働きました。

(編集担当)

## Postscript by the editor

Due to preventive measures for the COVID-19 pandemic, AMF was closed for nearly two months from August 7.

There is a saying, Good comes out of evil, but the staff took advantage of this unfortunate closure to carry out major facility maintenance, tanks cleaning, and renewal of exhibits that they wouldn't normally be able to do.

by Editor

## ボランティアコラム

Volunteer Column

## 「ボランティアも活動再開」

10月1日、コロナ禍によるまん延防止等重点措置を受けて8月7日より休止していたボランティア活動が、再開されました。また、昨年は見送ったボランティアの新規募集を、今年は実施します。

コロナ禍の状況下、依然としてボランティア活動は規模を縮小していますが、感染対策を十分に行い、頑張っています。

(アクアマリンふくしまボランティア 杉山 めぐみ)



▲ボランティアが活動する釣り体験。密を避けるため、竿と竿の間隔を大きく開けてある。Fishing experience where volunteers are active. In order to avoid denseness, the distance between the rods is wide.

## Volunteer column “Resumption of volunteer activities”

On Oct 1, volunteer activities, which were suspended from Aug 7 in response to the emergency measures taken to prevent the spread of infections caused by the coronavirus pandemic, were resumed. Recruitment of new volunteers which was postponed last year will be carried out this year.

Although the scale of volunteer activities has naturally been curtailed as a result of the coronavirus pandemic, we will try our best to conduct them while taking sufficient infection control measures.

by Megumi Sugiyama



カワセミ  
学名 *Alceda atthis*

撮影:菅原貴徳氏(写真家)

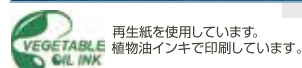
カワセミは、池沼や河川などの水辺付に生息し、日本では本州以南で留鳥、漂鳥として見ることができます。川魚や川エビ、カエルや水生昆虫などを餌とし、勢いよく水中に飛び込んで獲物を捕らえます。蒼緑色の背中とはとても美しく、自然の豊かさ、美しさの象徴的な存在となっています。

## *Alceda atthis*

Kingfishers inhabit waterside areas such as ponds and rivers. In Japan, you can see it as a resident bird or a drifting bird in all areas except Hokkaido. Kingfishers feed on river fish, river shrimp, frogs, aquatic insects, etc., and jump into the water vigorously to catch their prey. The blue-green back is very beautiful and has become a symbol of the richness and beauty of nature.

## 機関誌購読方法

希望者には無料でお配りします。郵送希望の方は140円切手を同封のうえ、公益財団法人ふくしま海洋科学館 命の教育グループ宛にお申し込みください。最新号及びバックナンバーは当館公式ウェブサイト(https://www.aquamarine.or.jp)でもご覧いただけます。



AMF NEWS





▲ カイメン内で休息するような様子  
Scene of creature resting within the glass sponge



▲ この正面のつぶらな瞳をみても、寿司とよびますか？  
Looking at the round and cute eyes at the front, can it be known as sushi?



▲ ヒロメオキシコエビ *Eurthenes aequilatus*



▲ ウオノシラミ属の一種 *Aspecies of the Rocinela sp.*

## World's first exhibited species truly looks like ○○?! -*Eurthenes aequilatus* and a species of the *Rocinela sp.*-

July, an exhibition on the “*Eurthenes aequilatus*” and “A species of the *Rocinela* genus” was started in the Oyashio Ica Box corner. These 2 species are deep-sea crustaceans caught with gill nets at a water depth of 800 to 1200 m in the open sea off Rausu, Hokkaido. *Eurthenes aequilatus* as published as a new species in 2017 as a member of the deep-sea Eurthenidae, and this is the first that it is exhibited in the world. The species of the *Rocinela sp.* is a “semi-parasitic” creature that absorbs body fluids by attaching itself to a fish but leaves when it is full. Although 7 species are known to live in the coastal waters of Japan, the species is still not clearly known as currently, key parts of it cannot be observed in identifying the species.

On top of being “shady creatures” that are not exhibited anywhere else in the world, these 2 species have a mere size of 3 to 5 cm. Notwithstanding this, upon unveiling them in high spirits as the world's first exhibits so as to uncover the possibility of exhibiting these unknown creatures, their “uncanny similarity to sushi” unexpectedly became a topic of discussion on SNS. While things did not turn out as expected, in the end it turned out to be a pleasant miscalculation as they provided an opportunity for many people to get to know the existence of creatures that is hardly to come into the spotlight. Currently, although only 1 species of the *Rocinela* genus is exhibited, in future we would like to take on the challenge of exhibiting and rearing new creatures that represent the diversity of the deep sea. Lastly, we would like to take this opportunity to express our deep gratitude to Mr. Shigeki Fujimoto and Mr. Shigetada Fujimoto from the Rausu Fisheries Cooperative Association who helped us in catching the creatures, and Mr. Masafumi Kodama from Kagoshima University and Mr. Nobuhiro Saito from Suido-sha Co. Ltd., who received a lot pf cooperation us in identifying the species.

by Mai Hibino

7月から親潮アイスボックスコーナーにて「ヒロメオキシコエビ」と「ウオノシラミ属の一種」の展示を始めました。この2種類は、北海道羅臼沖水深800～1200mの刺し網漁で採集された深海に棲む甲殻類です。ヒロメオキシコエビは、ヨコエビの仲間です。2017年に新種として公表され、今回が世界初展示です。一方のウオノシラミ属の一種は、魚に寄生し体液を吸い、満腹になると離れる「半寄生性」の生物で、日本近海では7種が知られていますが、種の特定で重要な部分の観察ができていないため、種同定ができていません。

この2種は、どこの水族館でも展示されにくい「陰の生物」であるうえに、大きさはわずか3～5cm。それでも未知な生物の展示の可能性を見出すべく、世界初展示として意気揚々とお披露目したところ、SNS上で「寿司にそっくり」とまさかの方向で話題に…。意図せぬ展開でしたが、結果的に、光が当たりにくい「生物の存在」を多くの方が知るきっかけとなったのは、嬉しい誤算でした。現在はウオノシラミ属の一種のみの展示ですが、今後も、深海の多様性を表現できる新たな展示と長期飼育に挑戦していきます。最後に、採集にご協力いただいた羅臼漁協同組合の藤本繁樹氏、藤本繁忠氏、種の特定にご尽力いただいた鹿児島大学の小玉将史氏、水土舎の齋藤暢宏氏にこの場を借りて深く御礼申し上げます。

(海・生命の進化/潮目の海グループ 日比野 麻衣)

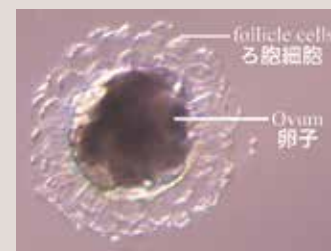


## 深海生物オオグチボヤの未知なる生態 ～産卵と繁殖～ The unknown ecology of predatory tunicate, *Megalodicopia hians*, inhabiting the deep sea - Spawning and rearing -

▲ Fig.1 展示中のオオグチボヤ Predatory tunicate on exhibition



▲ Fig.2 産卵直後の卵  
Predatory tunicate spawning in the aquarium



▲ Fig.3 産卵後1日目  
Egg of one day after spawning



▲ Fig.4 孵化直後の幼生(産卵後8日)  
Newly hatched larvae (eight days after spawning)



▲ Fig.5 着底直後の幼生(産卵後12日)  
Newly bottom-reaching larva (twelve days after spawning)

オオグチボヤは、水深300～1000mの海底の岩盤や沈木に付着して生活しているホヤの仲間です。小型の甲殻類を捕食する大きな口を持つことが特徴で、体が柔らかいため、生きて採集することがとても難しい生き物です。当館では2014年から北海道羅臼町沖の刺し網漁やエビかご漁で採集し飼育展示に取り組んでいます (Fig.1)。

2021年6月に羅臼沖で採集した本種の水槽内で数千個の白色の粒子が確認されました (Fig.2)。顕微鏡で確認すると、それらの粒子は「ろ胞細胞」が卵子を包むヒマワリのような形状を持ち、直径が0.30～0.35mmであることから、オオグチボヤの卵であることが分かりました (Fig.3)。

同じ水槽内で数度にわたり産卵を確認したため、卵の育成を試みました。卵は、水温約3.0℃の水槽にウォーターバス方式で浮かべ毎日状態を確認しました。産卵後8日目から全長約1mmのオタマジャクシに似た幼生の遊泳を確認し (Fig.4)、着底基質としてプラスチック製の糸を水槽内に入れると、産卵後12日目には着底した個体を観察することができました (Fig.5)。

今回は本種の着底までの育成でしたが、今後、さらに着底基質や幼生のエサの検討を行い、本種の繁殖研究に取り組んでいきたいと思っています。

(海・生命の進化/潮目の海グループ 松崎 浩二・石井 輪太郎)

## The unknown ecology of predatory tunicate, *Megalodicopia hians*, inhabiting the deep sea - Spawning and rearing -

Predatory tunicate is a member of the sea squirt family which lives at the bottom of the sea at a water depth of 300 to 1000 m by attaching itself to the bedrock and sunken wood. It has a characteristically extraordinarily large oral aperture to feed on small crustaceans and it is extremely difficult to obtain undamaged live specimens because of soft-bodied species. Since 2014, Aquamarine Fukushima has carried out continuous sampling of it collecting by using gill nets and commercial shrimp traps in the open sea off Rausu, Hokkaido, for display and reproductive studies (Fig.1).

In June 2021, several thousand white particles were obtained in the tank housing predatory tunicate collected in the off Rausu (Fig.2). Upon observing them with a microscope, we found that these particles are the eggs of the predatory tunicates as they are follicle cells having the shape of a sunflower surrounding the eggs and a diameter of 0.30 to 0.35 mm (Fig.3).

We tried rearing the eggs as spawning was observed over several times inside the same water tank. The eggs were kept in a water bath-type water tank (ca.3.0℃) and their daily condition was observed. 8 days after spawning, we observed larvae swimming like tadpoles with an overall length of about 1 mm (Fig.4), and when we placed threads made of plastic into the water tank as a bottom matrix, we managed to observe specimens reaching the bottom 12 days after spawning (Fig.5).

In this present study we could rear them until they reached the bottom and in future, we would like to find their suitable bottom matrix and food of larvae in our research so as to breed this species.

by Koji Matsuzaki and Rintaro Ishii



## 企画展「アクアマリン子ども魚市場」 Special exhibition “Aquamarine Kids Fish Market”

▲ 友永たろさんのイラストのトンネルを通して展示エリアに入ります。



▲それぞれの漁業についての説明を見ながら漁具と採れる生物がわかるようになっています。  
Visitors to get to know the fishing tools and creatures caught while looking at the respective descriptions of the fishing industry.

令和3年7月15日より企画展「アクアマリン子ども魚市場」を開催しています。3つの展示エリアで構成され、子どもたちが福島県の漁業について遊びながら学ぶことを目的としています。最初のエリアは定置網を模したミニチュアの網の中にサンマやイカなどの魚のイラストのトンネルを通して漁業の世界に入っていきます。次のメインエリアでは刺し網、カゴ漁など、7つの漁業法をテーマにした水槽があります。ここではそれぞれの漁で採れる生き物が展示されています。そして、漁業が置かれている現在の状況や海の環境が脅かされていることもパネルで解説されています。

最後のエリアは漁業をモチーフにした体験エリアです。正しい餌を使わないと対象となる漁獲物のぬいぐるみが釣れないようになっている釣りコーナーや、大きなタコガゴに入る事ができるコーナーなど、採る側と採られる側を遊びながら体験することができます。

日曜祝日にはオリジナルお魚カードが当たるカプセルトイを回すことができ、生き物の特徴をわかりやすく解説しています。お魚カードも展示エリアもイラストレーターの友永たろさんにデザインをお願いし、見ていだけでワクワクするような展示エリアとなりました。

(海・生命の進化/潮目の海グループ 岩田 雅光)



▲釣りコーナーではエギによるイカ、サビキでサバ、一本釣りでカツオなどが釣れます。  
In the fishing corner, squid, mackerel and skipjack tuna can be caught respectively by eging, rigging, pole and line fishing and so on.

### Special exhibition "Aquamarine Kids Fish Market"

A special exhibition “Aquamarine Kids Fish Market” is being held from July 15 2021. Composed of 3 display areas, the exhibition aims to let children learn more about the fishing industry of Fukushima Prefecture in a fun way. The first area leads you into the world of the fishing industry after passing through a tunnel illustrated by fishes such as the Pacific saury, squid, etc., in a miniature net simulating a stationary net. In the next main area, there are water tanks that uses 7 types of fishing methods such as gill nets, fishing baskets, etc., as a theme. Creatures caught at each respective catch are exhibited here. The current situation that the fishing industry is in and the threats that the marine environment faces are also explained in the panels.

The area at the end is a hands-on area using the fishing industry as a motif. At the fishing corner where soft toys of the creature you want to catch cannot be caught unless the right bait is used, or the corner which lets you get into a large octopus cage, visitors can experience what is like catching and being caught while having fun.

On Sundays and holidays, children can turn a capsule toy machine to get original fish cards, which explain the characteristics of living creatures in an easy-to-understand manner. The fish cards and display areas were designed by the illustrator Taro Tomonaga, turning the display areas into visually exciting places.

by Masamitsu Iwata

▲ 日本に生息するカワセミ(写真: 菅原貴徳氏) Common kingfisher living in Japan (Photo:Takanori Sugawara)



▲ 写真展会場の様子  
The state of the photo exhibition meeting place



▲ 日本で見られるカワセミの仲間、アカショウビン  
Common kingfisher, ruddy kingfisher seen in Japan



▲ オーストラリアで見られるカワセミの仲間、ワライカワセミ  
Common kingfisher, kookaburra seen in Australia

### Common kingfisher, a living gem Photo exhibition “- Kingfishers of the World and Japan -”

Inhabiting the waterside of ponds, swamps, and rivers etc., the common kingfisher can be seen in all over Japan except Hokkaido as non-migratory and wandering birds. It is found widely throughout the world from Southeast Asia to the northern part of the American continent.

Rumor has it that the Japanese name of the common kingfisher is derived not from the “semi” in the Japanese name of the insect “cicada” but from a transformation of the abbreviation “soni” in “sonidori”. This “sonidori” is a term representing the blue-green bird that appears in the historical records and chronicles of Japan, in other words, common kingfisher can be thought of as a “blue bird living in the river”.

Since olden days, the common kingfisher has been well-loved as a symbol of natural beauty and affluence, but currently, its appearance is diminishing due to the impact of river development, reclamation of wetlands and so on. As the common Kingfisher is a territorial creature, the number that can co-exist in a single feeding ground such as a pond or swamp etc. is limited. Therefore, instead of thinking it is alright as long as there is a waterside remaining somewhere for the common kingfisher, it is important to protect its life by ensuring that waterside environments rich in nature that are disappearing are not reduced further beyond this.

Starting Nov6, a photo exhibition titled “Common Kingfishers of the World and Japan” that introduces 14 species of common kingfishers in Japan and overseas will be held with the cooperation of the photographer Takanori Sugawara at the Aquamarine Inawashiro Kingfishers Aquarium (AIKA). Approximately 100 members of the common kingfisher family live all over the world and while the common kingfisher that we introduced is just a small part among these, information on their ecology and current situation was shared.

by Shun Nagayama



7月6日	第2回理事会決議により、新理事長兼館長に古川健(統括学芸員)が就任。
7月10日	キッズプログラム「いわきの郷土料理『ウニの貝焼き』をうちで作ってみよう」(オンライン講座)開催
7月12日	古川健新館長、安部義孝前館長、福島県知事を表敬訪問。 福島県より、安部義孝前館長に感謝状贈呈。
7月13日	シラユキモロトゲエビ、シレトコモロトゲエビ、シレトコモロトゲエビの親子展示を開始
7月15日	企画展「アクアマリンこども魚市場」オープン（～2022 5/8） 安部義孝前館長にアクアマリンふくしま名誉館長の称号授与
7月17日	キッズプログラム「蛇の目ビーチで潮干狩り体験」開催 第2回「アクアマリン・アカデミートーク」参加者募集開始（～8/31） 企画展「夏はやっぱりカブトムシ」開催(AIKA ～8/31)
7月18日	累計入館者1,500万人達成 キッズプログラム「蛇の目ビーチで潮干狩り体験」開催
7月20日	ヒロメオキソコエビ、ウオノシラミ属の一種（同定中）を展示
7月21日	小名浜応援キャンペーン開始
7月22日	「黄金シーラカンスのつばやき」絵画お披露目式開催
7月25日	キッズプログラム「川の生き物観察会」
7月30日	オグチボヤの産卵から孵化、遊泳の様子を撮影した動画を公開
8月2日	教員セミナー(1回目)開催
8月3日	教員セミナー(2回目)開催
8月7日	COVID-19蔓延防止等重点措置により、臨時休館（～9/30）
9月8日	企画展「猪苗代のトンボ ～横井直人写真展～」開催（AIKA ～10/24）
9月11日	キッズプログラム「うちでヤドカリを飼ってみよう」 (オンライン講座)開催

Major Events (July - September)

July 6	Mr. Takeshi Furukawa is appointed as the new director and curator by a resolution at the 2nd board of directors' meeting.
July 10	Kids' Program “Local cuisine of Iwaki - Let's make 'sea urchin baked in its shell' at home” (online course) held Courtesy visit by new director Takeshi Furukawa, ex-director Yoshitaka Abe and Governor of Fukushima Prefecture
July 12	Presentation of certificate of appreciation to ex-director Yoshitaka Abe from Fukushima Prefecture.
July 13	Parent and child exhibits of the <i>Pandalus princeps</i> , <i>Pandalus houyuu</i> , and <i>Pandalus houyuu</i> started
July 15	Opening of special exhibition “Aquamarine Kids Fish Market” (till 2022 5/8) Conferment of the title of honorary director of Aquamarine Fukushima on ex-director Yoshitaka Abe
July 17	Kids' Program “Shell Gathering at Low Tide in Janome Beach” held Recruitment of participants for the 2nd “Aquamarine Academy Talk” starts (till 8/31) Special exhibition “Rhinceros Beetles in Summer” held (AIKA till 8/31)
July 18	Total number of visitors to the aquarium reached 15 million Kids' Program “Shell Gathering at Low Tide in Janome Beach” held
July 20	Exhibit on a species of the <i>Eurthenes aequilatus</i> from the <i>Rocinela</i> genus (under identification)
July 21	Start of “Onahama Support Campaign”
July 22	Opening ceremony of the “Murmurings of golden coelacanth” painting held
July 25	Kids' Program “River Creature Watching”
July 30	A video capturing the creatures Predatory tunicate hatching and swimming after spawning was released
Aug. 2	1st instructor seminar held
Aug. 3	Instructor seminar held 2nd
Aug. 7	Temporary closure of aquarium due to key measures to prevent the spread of COVID-19 (till 9/30)
Sep. 8	Special exhibition “Dragonfly of Inawashiro - Naoto Yokoi Photo Exhibition -” held (AIKA till 10/24)
Sep. 11	Kids' Program “Let's try keeping hermit crabs at home” (online course) held

今回のキッズプログラム「うちでヤドカリを飼ってみよう」は、コロナウイルス対策のためにYouTubeを利用したオンラインでの開催となりました。ヤドカリの飼育方法はサイトにアップロードした動画で説明し、参加者からの質問やそれに対する回答は、動画のコメント欄を利用して行いました。

このプログラムは、実際の飼育を通してヤドカリの生態を学ぶだけでなく、生き物を飼育する楽しさや命に対する責任を感じてもらうことを目的としていました。幸いにして参加者からは好評をいただきましたが、慣れないオンラインでのプログラム、まだまだ改善できるところはあると気持ちを新たにしています。



▲作成した動画 Video produced



▲参加者から頂いた、ヤドカリを観察する様子  
Scene of participants observing hermit crabs that was received from a participant

As an infection control measure this time, the kids’ program “Let’s Raise a Hermit Crab at Home” was held online using YouTube. The method of rearing hermit crabs was explained in a video uploaded to the website, and the comments column of the video was used to answer questions posed by the participants.

The purpose of this program is not only to teach children the ecology of the hermit crabs through actual breeding, but also to get them to enjoy the fun of breeding living creatures and feeling responsible for their lives. Fortunately, it was well received by the participants, but as it was an online program that we are not used to, we still feel there are lots of room for further improvement.

by Subaru Jyokura



Kids Program “Let’s try keeping hermit crabs at home”



▲写真2：第3回「ラブカの秘密～謎だらけ 深海ザメの生態に迫る～」のチラシ  
Leaflet on the 3rd “Secrets of the Frilled Shark - Investigating the Ecology of the Mysterious Deep-Sea Shark”

Since June 2021, the staff of Aquamarine Fukushima has been conducting a new event called “Aquamarine Academy Talk” to present their research on living creatures and scenes from the fishing expeditions to the public. Out of the 3 times scheduled, the event has already been held 2 times. The first event was titled “Survival Strategy of Eggs and Fry - Have you ever seen oarfish eggs? -”, and the second event was titled “Treasure trove of new species! Seas of Shiretoko - What a waste with just clone! -” (Photo 1).

The 3rd and last “Secrets of the Frilled Shark” is shown in Photo 2. The event introduces the research that the aquarium conducts on the ecology of the deep-sea frilled shark which is still largely unknown. The seminar is known as a hybrid seminar as participants can either come to Aquamarine Fukushima to participate in it, or participate online in their own homes. As the 3rd course will be held on Dec 11, we look forward to the participation of everyone.

by Shinya Yamauchi



▲写真1：第1回と第2回の告知チラシ  
1st and 2nd announcement leaflets

海の学びハイブリッドゼミ  
「アクアマリン・アカデミートーク」  
Marine Science and Hybrid Seminar “Aquamarine Academy Talk”

入館者二五〇〇万人達成  
記念セレモニー  
Commemoration ceremony  
for reaching 15 million visitors

二十一周年目を迎えた開館記念日から三日後の二〇二二年七月二八日(日)、開館からの累計入館者数が二五〇〇万人を突破しました。これを記念して五〇〇万人目の来館者となった桑澤さんご一家にご出席をいただき、クウェート・ふくしま友好記念日本庭園でささやかなセレモニーを開催しました。夏の青空の下、縄文犬さくらも立ち合い、和やかな雰囲気の中セレモニーを執り行うことができました。

改めてご出席いただきました桑澤様、そして二十一年間お越しいただいた皆様に御礼申し上げます。ご来館ありがとうございます。これからもよろしく願います。

（事業調整グループ 土橋 亜季子）



▲入館者1500万人達成記念セレモニー  
Commemoration ceremony for reaching 15 million visitors

On July 18, 2021, three days after welcoming its 21st anniversary, the aquarium broke through the milestone of a total of 15 million visitors since its opening. In commemoration of this milestone, the 15 millionth visitor Kuwasawa family were invited to the modest ceremony, which was held in the Fukushima–Kuwait Friendship Memorial Garden. We managed to hold the ceremony in a congenial atmosphere under the summer blue sky with the Jomon dog Sakura also in attendance.

Once again, we would like to express our gratitude to Kuwasawa family who attended the ceremony, and everyone who visited the aquarium over the last 21 years. Thank you for visiting the aquarium. We look forward to your continued support in future.

by Akiko Tsuchihashi