

Международные связи ННЦМБ ДВО РАН в 2000-2020 гг.



К 50-летию ИБМ-ННЦМБ



Подготовил К.А. Лутаенко

Национальный научный центр морской биологии им. А.В. Жирмунского ДВО РАН (до 2016 г. Институт биологии моря им. А.В. Жирмунского ДВО РАН) имеет давнюю историю международных связей с академическими институтами и университетами всего мира. Сотрудничество направлено на развитие международного академического обмена в области исследовательской мобильности, научного партнерства, сотрудничества с международными ассоциациями и организации международных форумов с участием российских и зарубежных ученых, молодых исследователей и студентов, совместные научные публикации. ННЦМБ ДВО РАН способствует развитию международных связей на основе принципа равноправия всех участников в рамках многочисленных соглашений о научном и образовательном сотрудничестве с государственными и международными организациями и совместных научных лабораторий.



Из истории

С самого основания сотрудники Института биологии моря ДВНЦ АН СССР, а затем и Национального научного центра морской биологии им. А.В. Жирмунского ДВО РАН активно развивали международные связи. В 1970-е–1980-е гг. были проведены морские и береговые экспедиции в Тихий (западная часть) и Индийский океаны с участием ученых из Вьетнама, Австралии, США и др. стран. С 2010 г. проводятся совместные российско-немецкие рейсы по изучению глубоководной биоты северной части Тихого океана. В 1974 г. был проведен первый советско-японский симпозиум по биологии морских моллюсков и иглокожих в г. Находка, в 1979 г. ученые ИБМ приняли активное участие и организовали ряд секций на 14-ом Тихоокеанском научном конгрессе (Pacific Science Congress) в г. Хабаровске; в 1980-е гг. прошла серия советско-вьетнамских совещаний по морской биологии, были изданы совместные сборники статей. Во времена СССР известные иностранные ученые (Д.Дж. Крисп, О. Кинне, Дж. Костлоу, Т. Хейердал, Т. Хабе, Р. Тернер, Ж.-М. Перес и др.) активно посещали Морскую биологическую станцию "Восток". В 1990-е гг. интенсивность международных связей возросла и стала практически глобальной на уровне личных связей ученых, но наиболее интенсивные межинститутские связи возникли между ННЦМБ и учреждениями Федеративной Геспублики Германии (Зенкенбергский музей естественной истории – Senckenberg World of Biodiversity), Республикой Кореей (Национальный институт морского биоразнообразия Кореи – National Marine Biodiversity of Korea, MABIK; Корейский институт изучения океана и технологий – Korea Institute of Ocean Science and Technology, KIOST), Китайской Народной Республикой (Институт океанологии Китайской академии наук – Institute of Oceanography, Chinese Academy of Sciences, IOCAS) и Социалистической Республикой Вьетнам (Институт океанографии Вьетнамской академии наук и технологий – Institute of Oceanography, Vietnam Academy of Science and Technology).



Английский биолог Д.Дж. Крип –
первый иностранный гость ИБМ.
1970 г.



В гостях у доктора Дж. Костлоу.
1974 г.



Посвящение Лаборатории
генетики советником президента
США по океанологии. 1979 г.



Встреча Т. Хенеддала. 1981 г.



Французский морской биолог и
оceanолог Ж.-М. Перес в ИБМ. 1982 г.



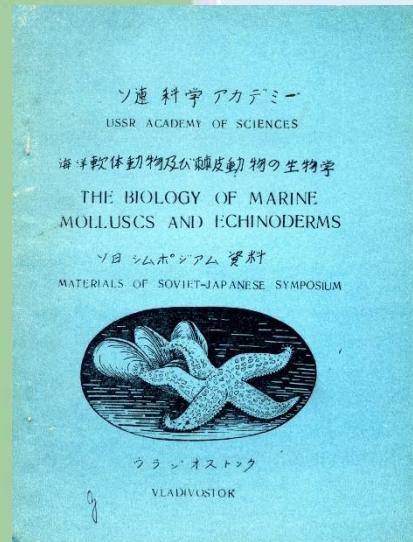
Первый советско-японский
симпозиум по биологии морских
моллюсков и иглокожих. 1974 г.



Выступление Е.В. Краснова на
XIV Тихоокеанском научном
конгрессе. 1979 г.

В 1974 г. проведен первый советско-японский симпозиум по биологии морских моллюсков и иглокожих, в 1979 г. – советско-американский симпозиум по физиологии и биохимии адаптаций морских животных, учёные ИБМ приняли активное участие и организовали ряд секций на XIV Тихоокеанском научном конгрессе.

Soviet-Japanese Symposium on Biology of Marine Molluscs and Echinoderms, September 6-10, 1974, Nakhodka City



1980 – 1985

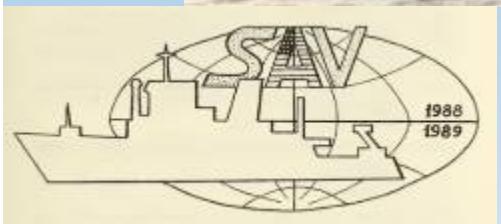
First agreement of cooperation between Academy of Sciences of the USSR (Institute of Marine Biology, Vladivostok, Russia) and NCSI of Vietnam (Institute of Marine Research, Nha Trang, Vietnam)

- Tropical intertidal and subtidal ecosystems (coral reefs, biodiversity and productivity)
- Original vast data on distribution and resources of Vietnamese intertidal animals and plants were gathered. More than 18000 samples of benthic organisms and phytoplankton which were taken at 78 sites of intertidal and coral populations were examined.
- Coral reefs of Vietnam possess great species diversity. These high-productive ecosystems act as an important source of organic substance, which has a great influence on productivity of coastal waters of the South China sea.
- The intertidal zone of Vietnam coastal waters has a great productivity – the biomass of marine organisms is more than 3.3 kg./m² (Thu Island, 1984).
- Lists of the most important marine organisms of some regions of Vietnam were prepared: reef-building corals, bivalves, gastropods, algae. More than 8000 species of invertebrates were recorded.



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USSR–USA Marine Biology Expedition to Seychelles (1989) with *R/V Akademik Nesmeyanov*



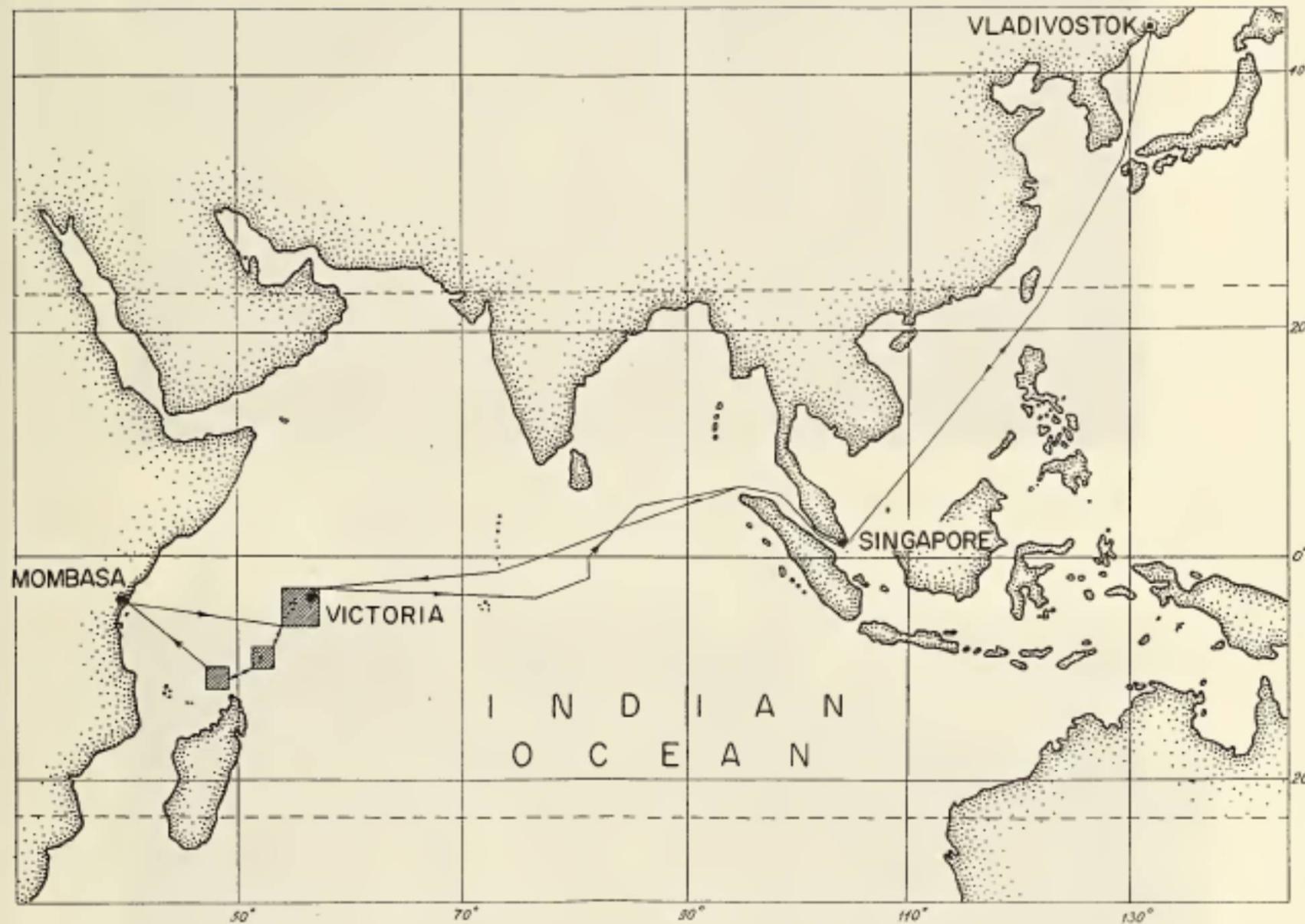
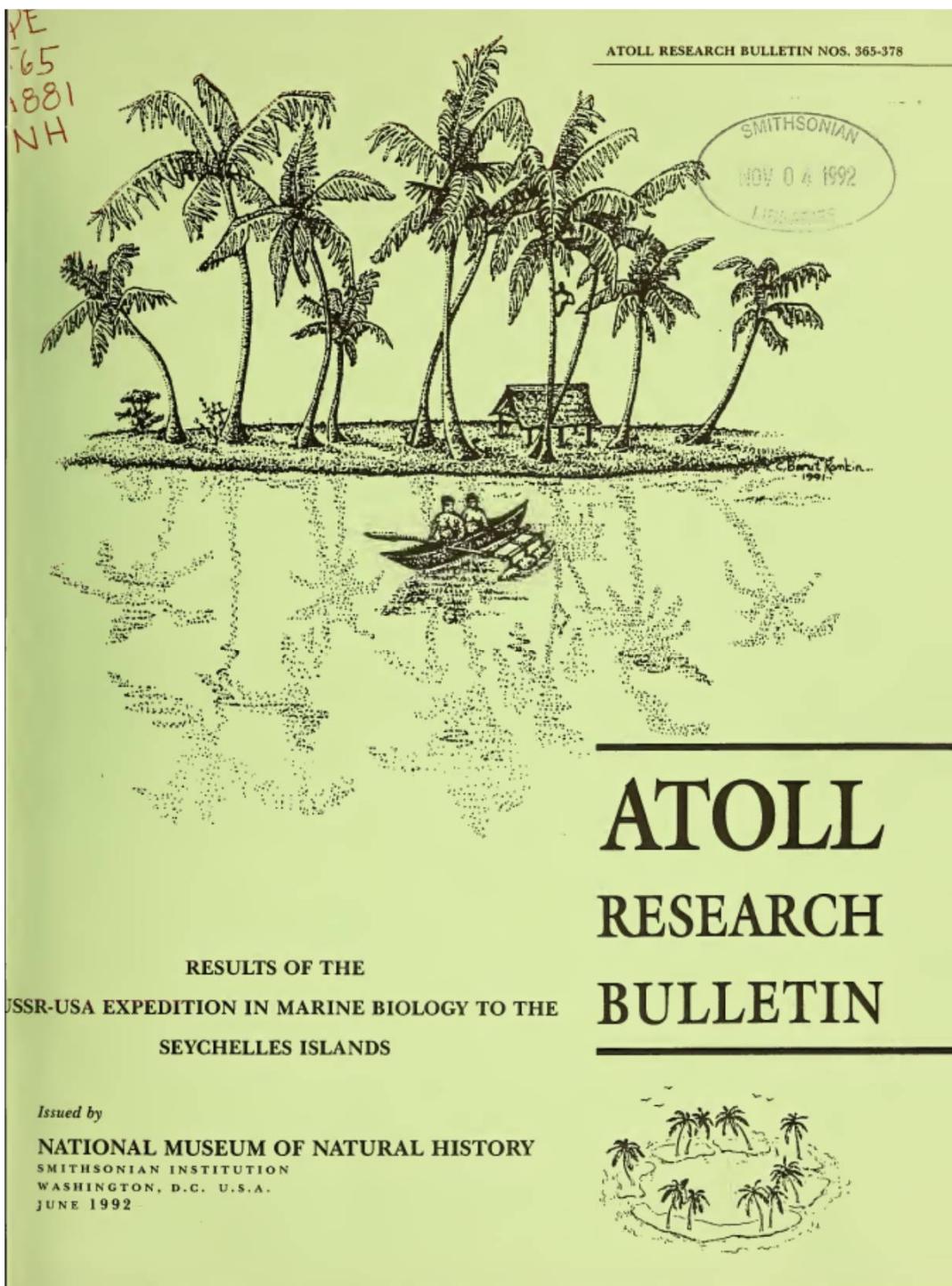


Fig. 1. Cruise Track of the USSR-USA Expedition in Marine Biology. Large blocked area indicates Seychelles granitic islands, small blocks indicate calcareous island groups.



Results of the USSR – USA Expedition in Marine Biology to the Seychelles Islands (Atoll Research Bulletin, 1992)

INTRODUCTION TO THE SOVIET-AMERICAN EXPEDITION TO THE
SEYCHELLES ISLANDS
BY E.A. TITLYANOV, M.M. LITTLER AND D.S. LITTLER

CHARACTERISTICS OF OCEANOGRAPHIC PROCESSES ON REEFS OF THE
SEYCHELLES ISLANDS
BY A.V. NOVOZHILOV, Y.N. CHERNOVA, I.A. TSUKUROV, V.A. DENISOV
AND L.N. PROPP

OCTOCORALLIA FROM THE SEYCHELLES ISLANDS WITH SOME
ECOLOGICAL OBSERVATIONS
BY A.N. MALYUTIN

SPECIES COMPOSITION AND ABUNDANCE OF CORALS AND OTHER
INVERTEBRATES ON THE REEFS OF THE SEYCHELLES ISLANDS
BY N.I. SELIN, Y.Y. LATYPOV, A.N. MALYUTIN AND L.N. BOLSHAKOVA

SPECIES COMPOSITION, DISTRIBUTION AND ABUNDANCE OF ALGAE AND
SEAGRASSES OF THE SEYCHELLES ISLANDS
BY A.A. KALUGINA-GUTNIK, L.P. PERESTENKO AND T.V. TITLYANOVA

FOULING COMMUNITIES OF THE SEYCHELLES ISLANDS
BY A.Y. ZVYAGINTSEV AND V.V. IVIN

В 2020 г. действует 41 договор о
сотрудничестве с учреждениями из 10 стран



Помимо официальных договоров, ученые ННЦМБ сотрудничают с десятками университетов и институтов по всему миру

MAJOR FOREIGN PARTNERS – INSTITUTIONS

(joint research, publications, expeditions, conferences)



Woods Hole Oceanographic Institution (WHOI), USA
 King Abdulaziz University, Kingdom of Saudi Arabia
 V.N. Karazin Kharkiv National University, Ukraine
 Universidade de Santiago de Compostela, Spain
 University of Mauritius, Republic of Mauritius
 National Museum of Nature and Science, Japan
 Virginia Commonwealth University, USA

James Cook University, Australia

University of the Ryukyus, Japan

Kitasato University, Japan

Hokkaido University, Japan

Ghent University, Belgium

University of Vienna, Austria

Karolinska Institutet, Sweden

Universidade de São Paulo, Brazil

University of Alaska Museum, USA

University of Alaska Fairbanks, USA

Università degli Studi di Milano, Italy

Woosuk University, Republic of Korea

Goethe University Frankfurt, Germany

The Natural History Museum, United Kingdom

Glasgow Caledonian University, United Kingdom

Institute of Oceanology, Polish Academy of Sciences, Poland

Senckenberg-Forschungsinstitut und Naturmuseum, Germany

National Institute of Water and Atmospheric Research, New Zealand

National Marine Biodiversity Institute of Korea (MABIK), Republic of Korea

Korea Institute of Ocean Science and Technology (KIOST), Republic of Korea

Institute of Oceanography, Vietnam Academy of Science and Technology, Vietnam



Santa Barbara Museum of Natural History, USA
 Museum National d'Histoire Naturelle, France
 Jeju National University, Republic of Korea
 Biologische Anstalt Helgoland, Germany
 University of Puerto Rico, Puerto Rico
 Joetsu University of Education, Japan

József Attila University, Hungary

Monterey Bay Aquarium, USA

Bar Ilan University, Israel

Tel-Aviv University, Israel

Kagoshima University, Japan

University of Comillas, Spain

University of Wyoming, USA

Universitat Rostock, Germany

Oregon State University, USA

Research Institute for Subtropics, Japan

Lotte World Aquarium, Republic of Korea

University of California, Santa Barbara, USA

Soonchunhyang University, Republic of Korea

Institute of Oceanology, Chinese Academy of Sciences, China

Amakusa Marine Biological Laboratory, Kyushu University, Japan

Alfred-Wegener Institute for Polar and Marine Research, Germany

National Museum of Natural History, Smithsonian Institution, USA

Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences, China

Tropical Marine Biological Research Station in Hainan, Chinese Academy of Sciences, China

Institute of Marine Environment and Resources, Vietnam Academy of Science and Technology, Vietnam

Senckenberg am Meer, German Centre for Marine Biodiversity Research (DZMB), Universität Hamburg, Germany

Nha Trang Institute of Technology Research and Application, Vietnam Academy of Science and Technology, Vietnam

Участие в работе международных организаций



Asia-Pacific Network for Global Change Research (APN) and its collaboration with the IMB-NSCMB in 2002-2017

6 international projects (jointly with China, Korea and Vietnam, Philippines)

13 international meetings (workshops, conferences, training courses) in Vladivostok (5), Nanjing (1), Qingdao (2), Jeju (1), Nhatrang (2)

Prof. Andrey Adrianov, President of the NSCMB, is the **national Focal Point (nFP)** of Russia in the APN







17th Inter-Governmental Meeting (IGM)/Scientific Planning Group (SPG)
Meeting and Associated Committee Meetings, 12-16 March 2012, Jakarta,
Indonesia



18th Inter-Governmental Meeting (IGM)/Scientific Planning Group (SPG) Meeting
and Associated Committee Meetings, 08-12 April 2013, Kobe, Japan







NOWPAP



UNEP Regional Seas Programme
Northwest Pacific Action Plan (NOWPAP)



Seventeenth Intergovernmental Meeting of the Northwest Pacific Action Plan

1–2 November 2012 Jeju, Republic of Korea









Основные международные мероприятия

- Workshop *Global Change Studies in the Far East*, Vladivostok, Russia, 2000
- APN/START *Global Change Research Awareness Raising Symposium in Northeast Asia*, Vladivostok, Russia, 2002
- Fifth International Nematology Symposium of the Russian Society of Nematologists, Vladivostok, Russia, 2003
- Workshop *Climate Variability and Human Activities in Relation to Northeast Asian Land-Ocean Interactions and Their Implications for Coastal Zone Management*, Nanjing, China, 2004
- Russian Far East Malacological Society (RFEMS) and NSCMB jointly organized three international meetings, Vladivostok, Russia, 2004, 2014, 2019
- Ten international MAPEEG symposia (*Modern Achievements in Population, Evolutionary, and Ecological Genetics*), Vladivostok, Russia
- Workshop *Marine Biodiversity and Bioresources of the North-Eastern Asia*, Jeju, Republic of Korea, 2008
- International Conference *Marine Biodiversity of East Asian Seas: Status, Challenges and Sustainable Development*, Nha Trang, Vietnam, 2010

Основные международные мероприятия

- Workshop *Coastal Marine Biodiversity and Bioresources of Vietnam and Adjacent Areas to the South China Sea*, Nha Trang, Vietnam, 2011
- Russian–German Workshop “Future Vision–II”, *Deep-Sea Investigations in the Northwestern Pacific*, Vladivostok, Russia, 2013
- Conference *Cell Cultures of Marine and Freshwater Animals*, MBS Vostok, Russia, 2015
- Five joint Russian–Chinese and Chinese–Russian conferences on marine biology and biodiversity studies, Vladivostok, Russia and Qingdao, China, 2007, 2010, 2012, 2017, 2019
- International Conference *Unique Marine Ecosystems: Modern Technologies of Exploration and Conservation for Future Generations*, Vladivostok, Russia, 2016
- Workshop *Developing Life–Supporting Marine Ecosystems along the Asia–Pacific Coasts – a Synthesis of Physical and Biological Data for the Science–Based Management and Socio–Ecological Policy Making*, Nha Trang, Vietnam, 2016
- International Conference *Scientific and Technological Developments of Research and Monitoring of Marine Biological Resources*, Vladivostok, Russia, 2017
- Beneficial Workshop *Deep-sea biodiversity and biogeography of the NW Pacific*, Vladivostok, Russia, 2017
- First Bilateral NSCMB–MABIK (Russia–Korea) Meeting on Marine Biodiversity, Vladivostok, Russia, 2018
- Russia-China Bilateral Workshop *Marine Biodiversity for a Healthy Ocean – Biodiversity, Functional Groups & Ocean Health*, 2019, Vladivostok, Russia



APN/START Global Change Research Awareness
Raising Symposium in NE Asia, Vladivostok, 2002



Fifth International Nematology Symposium of the
Russian Society of Nematologists, Vladivostok, Russia,
2003



Vladivostok 2003 APN workshop and field excursion to Razdolnaya River estuary



*Workshop on Climate Variability and Human Activities in Relation to
Northeast Asian Land-ocean Interactions and Their Implications for
Coastal Zone Management*
(4-9th December 2004, Nanjing, China)

BIODIVERSITY OF THE MARGINAL SEAS OF
THE NORTHWESTERN PACIFIC OCEAN
21-22 Nov. 2007, Qingdao, China





APN Workshop Marine Biodiversity and Bioresources of the North-Eastern Asia, Korea, Jeju National University, 2008







Российско-китайский билатеральный симпозиум
«Морские экосистемы под влиянием
глобальных изменений в северо-западной
Пацифике», Владивосток, 8-9.10.2012 г.



Russian–German Workshop
“Future Vision–II”, Deep-Sea
Investigations in the
Northwestern Pacific,
Vladivostok, Russia, 2013



NSCMB – KIOST





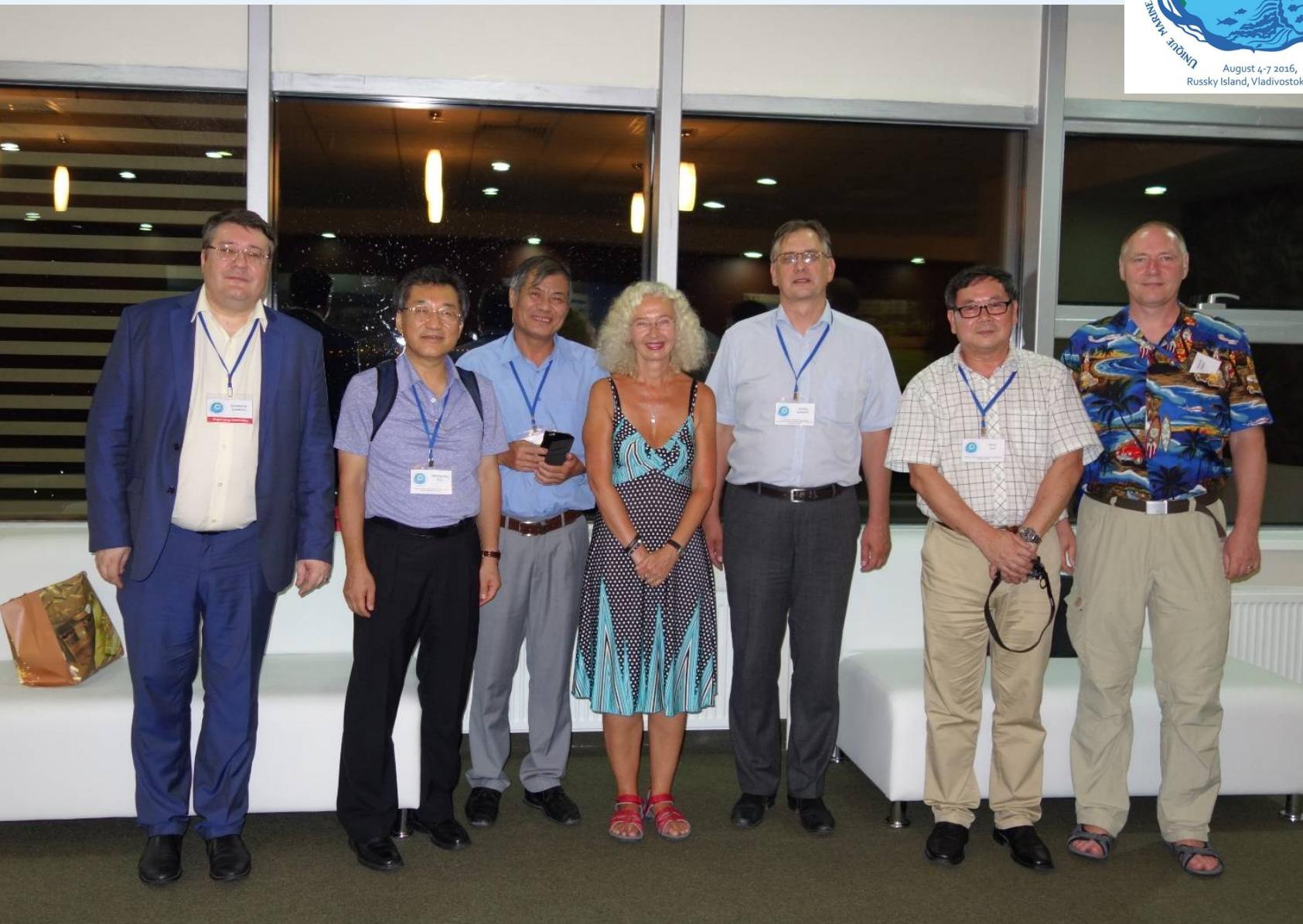
Conference *Cell Cultures of Marine and Freshwater Animals*, MBS Vostok, Russia, 2015



Conference **Mollusks of the Eastern Asia and Adjacent Seas**, October 6–8, 2014, Vladivostok, Russia



Приглашенные докладчики (invited speakers) и оргкомитет







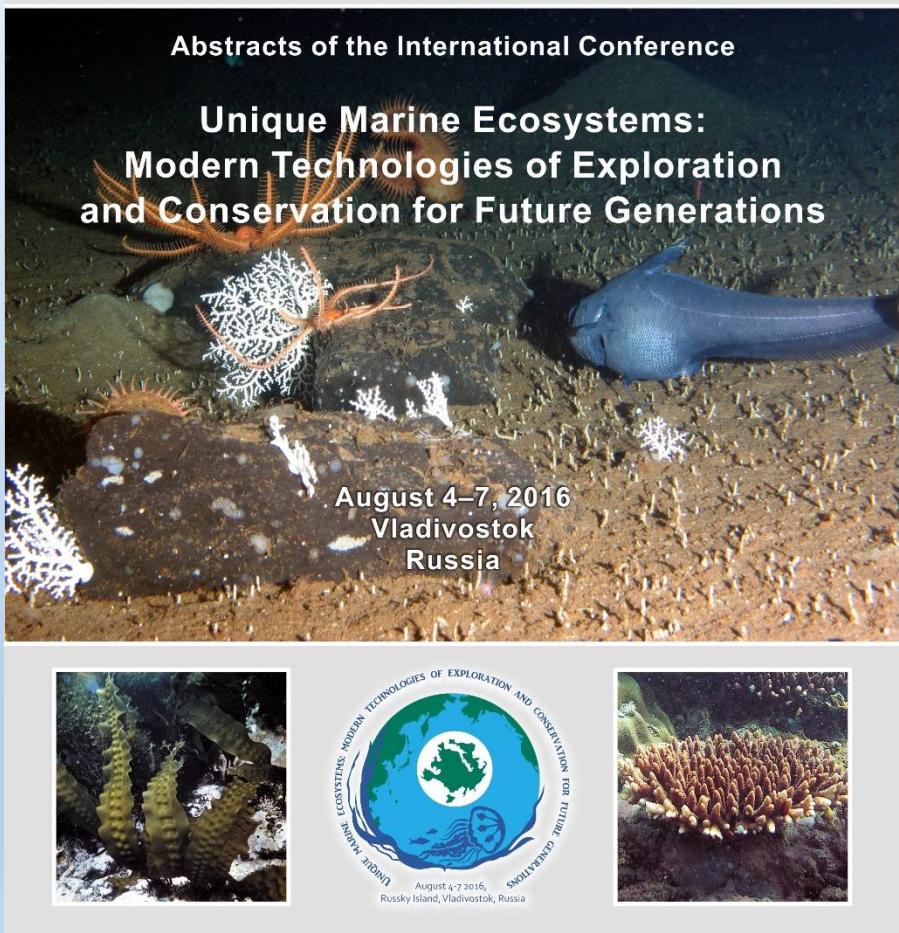
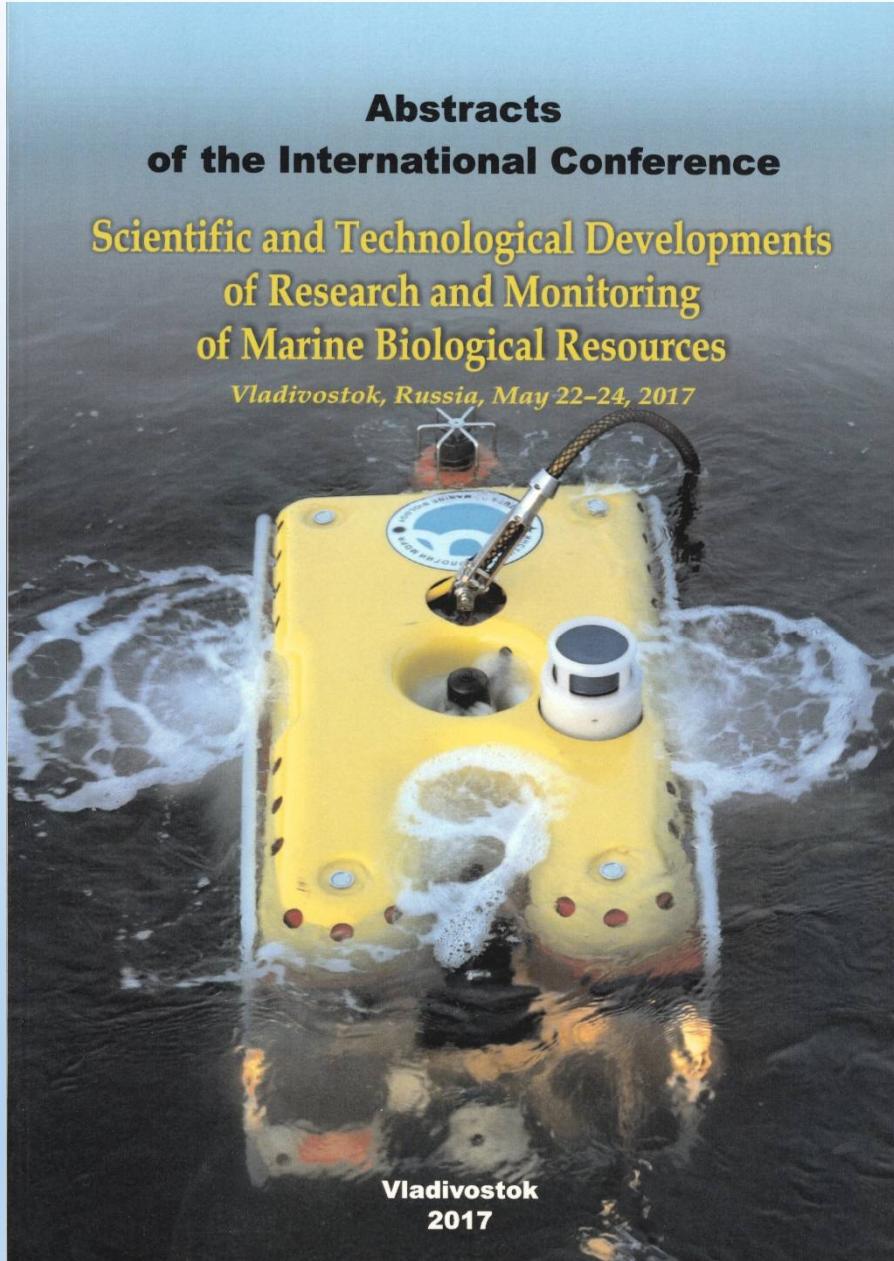
Beneficial Workshop *Deep-sea biodiversity and
biogeography of the NW Pacific*, Vladivostok, Russia, 2017

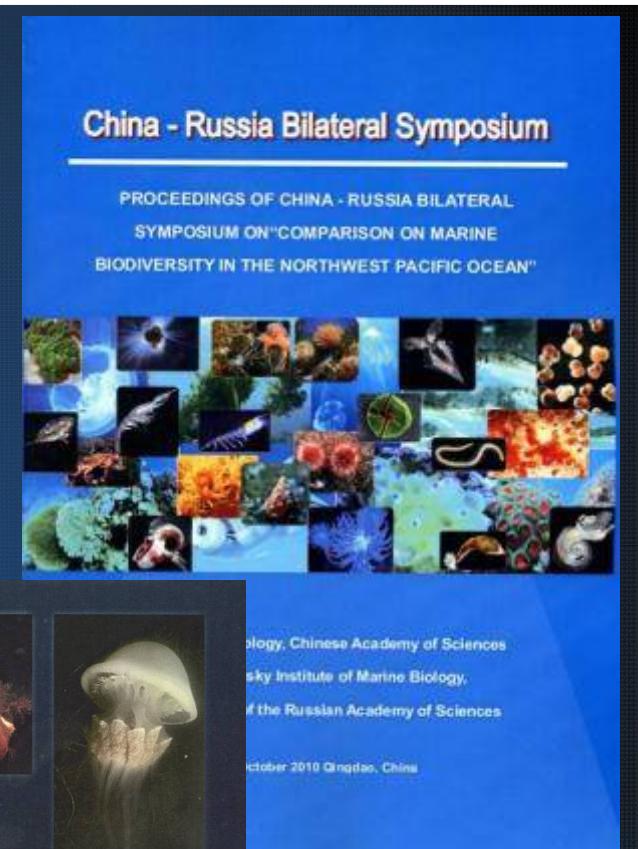
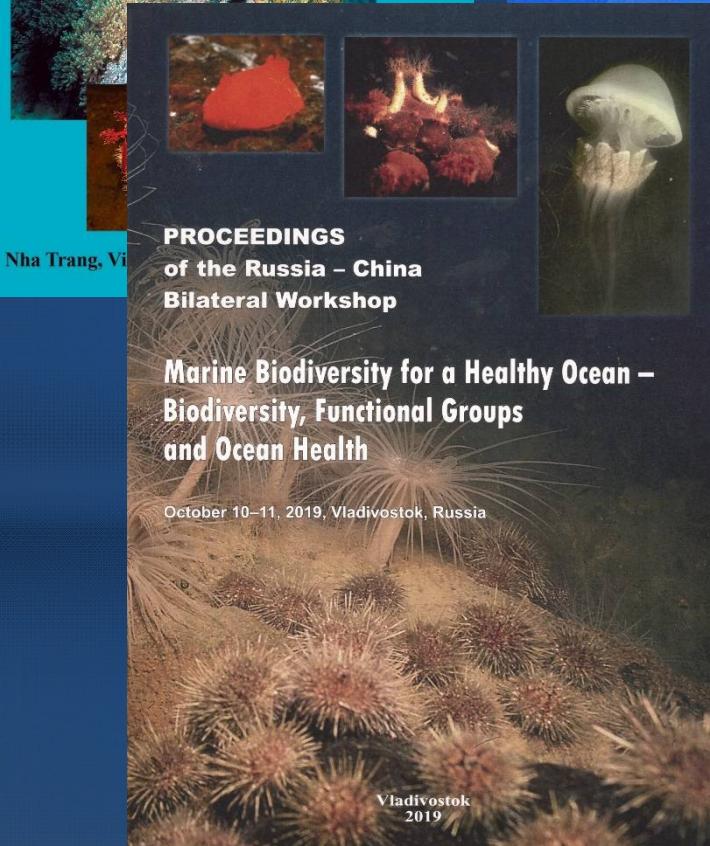
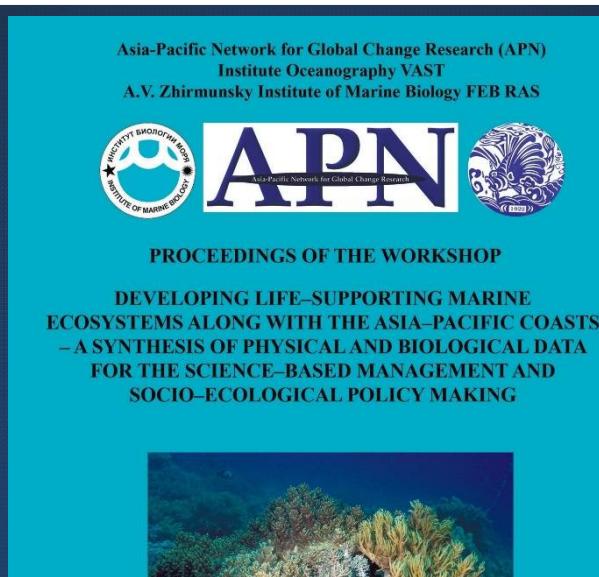
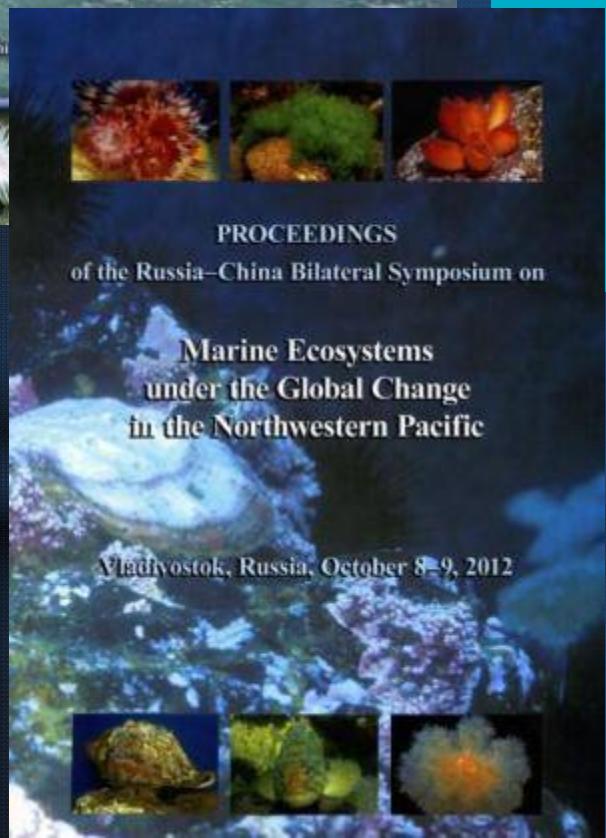
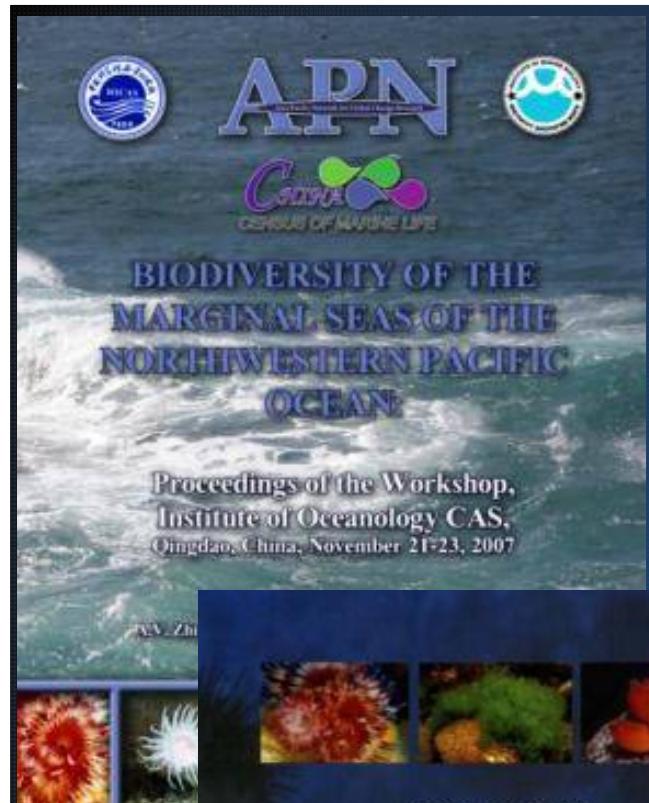


MODERN ACHIEVEMENTS IN POPULATION, EVOLUTIONARY
AND ECOLOGICAL GENETICS (MAPEEG-2017), Vladivostok,
Russia, 2017



*International Seminar
Biodiversity and Evolution of
Mollusks, September 26–27,
2019, Vladivostok, Russia*







Asia-Pacific Network for Global Change Research (APN)



Institute of Oceanography,
Vietnam Academy of Science and Technology



A.V. Zhirmunsky Institute of Marine Biology,
Far East Branch of the Russian Academy of Sciences



Proceedings of the International Conference
**MARINE BIODIVERSITY OF EAST ASIAN SEAS:
STATUS, CHALLENGES AND SUSTAINABLE
DEVELOPMENT**

Nha Trang, Vietnam
December 6–7, 2010

Asia-Pacific Network for Global Change Research (APN)

Research Institute of Aquaculture No. 3 (RIA3)

A.V. Zhirmunsky Institute of Marine Biology,
Far East Branch of the Russian Academy of Sciences



Proceedings of the Workshop

COASTAL MARINE BIODIVERSITY AND BIORESOURCES OF VIETNAM AND ADJACENT AREAS TO THE SOUTH CHINA SEA

Nha Trang, Vietnam, November 24–25, 2011



ТЕЗИСЫ
ДОКЛАДОВ КОНФЕРЕНЦИИ

**Моллюски
восточной Азии
и прилегающих морей**

6-8 октября 2014 г.
Владивосток, Россия

ABSTRACTS
OF THE CONFERENCE

**Mollusks
of the Eastern Asia
and Adjacent Seas**

October 6-8, 2014
Vladivostok, Russia

Vladivostok – Владивосток
2014



Тезисы докладов
**Международного семинара
по биоразнообразию и эволюции моллюсков**

26–27 сентября 2019
Владивосток, Россия



**Abstracts
of the International Seminar
on Biodiversity and Evolution of Mollusks**

September 26–27, 2019
Vladivostok, Russia



Vladivostok - Владивосток
2019

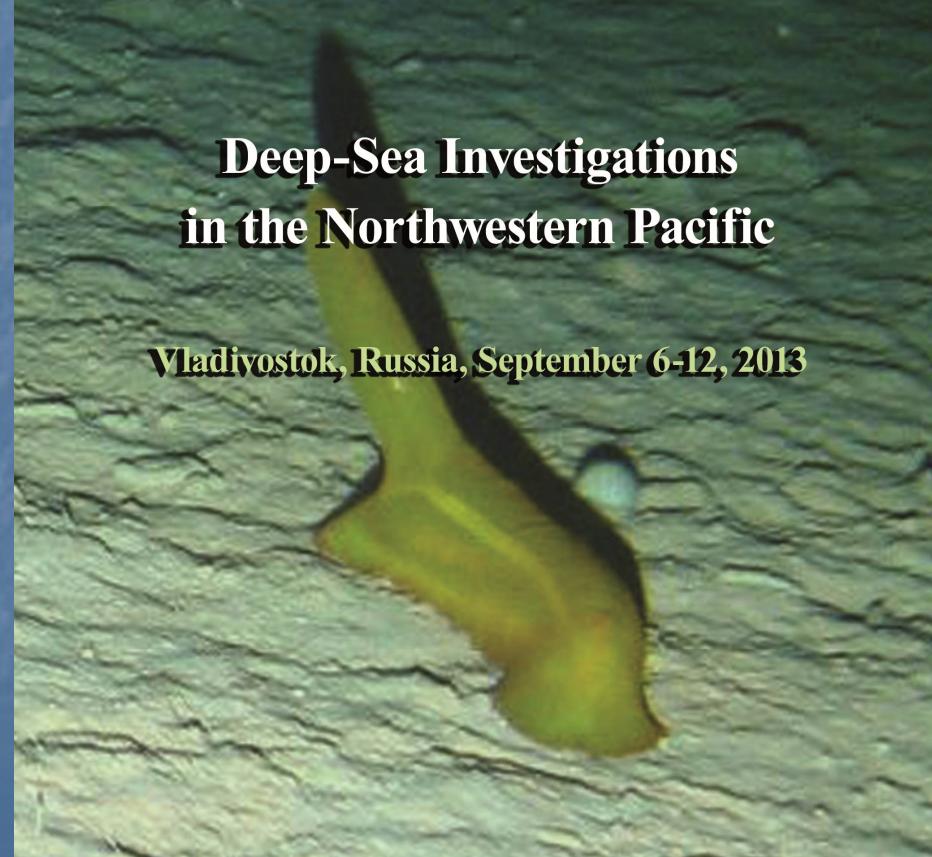


Proceedings
of the Russian-German
Workshop "Future Vision II"



Deep-Sea Investigations
in the Northwestern Pacific

Vladivostok, Russia, September 6-12, 2013



Участие сотрудников в зарубежных конференциях

Год	Кол-во конференций	Представлено докладов
2011	21	30
2012	25	46
2013	20	32
2014	18	31
2015	16	25
2016	22	32
2017	15	23
2018	15	26
2019	9	11
2020	3	4

Участие сотрудников в международных конференциях в России

Год	Кол-во конференций	Представлено докладов
2011	17	39
2012	9	17
2013	11	20
2014	15	30
2015	29	22
2016	48	41
2017	16	77
2018	14	21
2019	12	85
2020	5	11

Совместные научные лаборатории

1. Международная Российско-вьетнамская научно-исследовательская лаборатория морской биологии и экологии (под эгидой ДВО РАН и ВАНТ) с Институтом океанографии ВАНТ, с 2009 г. Руководители: академик А.В. Адрианов, к.б.н. Т.Н. Даутова, доктор Буй Хон Лон.
2. Открытая Российско-Вьетнамская научно-исследовательская лаборатория между ННЦМБ ДВО РАН, Институтом научных исследований и прикладных технологий ВАНТ и Институтом химии природных соединений ВАНТ, с 2010 г. Руководитель: д.б.н. А.Б. Имбс, проф. Буй Минь Ли, проф. Фам Куок Лонг.
3. Совместная морская лаборатория по изучению биоразнообразия (MJLB) между ННЦМБ ДВО РАН и Национальным институтом морского биоразнообразия Кореи (МАВІК), Республика Корея, с 2018. Руководитель - к.б.н. К.А. Лутаенко.

Joint Laboratory of Marine Biology and Ecology (since 2009)

NSCMB FEB RAS and Institute of Oceanography VAST (Nha Trang)



- Sharing knowledge, ideas, experience and modern methods in tropical marine biology



**Coordinator
(Russian side) –
Dr. Tatyana N.
Dautova**



**Coordinator
(Vietnam side) –
Dr. Vo Si Tuan,
Deputy Director IO
VAST**

Совместные научные лаборатории



Визит делегации МАВІК во главе с директором (август 2016 г.)



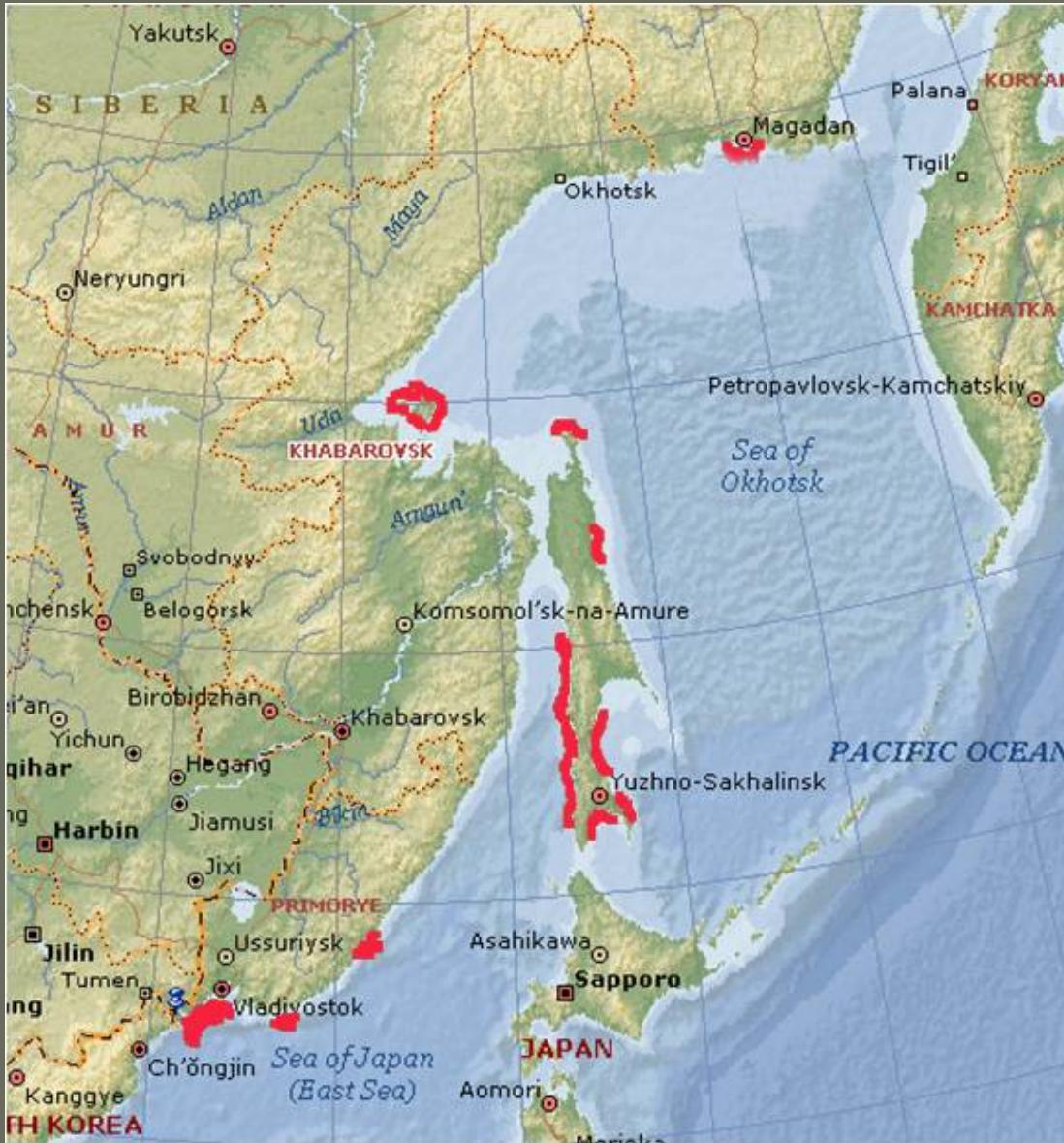
SIGNING CEREMONY
OF THE
ANNEX TO MEMORANDUM
OF UNDERSTANDING
BETWEEN
NSCMB AND MABIK,
VLADIVOSTOK, RUSSIA,
SEPTEMBER 20, 2017



Joint field-works, MJLB, June 2019



Russia – Japan ichthyological researches



Joint
expeditions
of the Institute
of Marine
Biology
and
Hokkaido
University

1994 - 2007

Maintenance of species boundaries despite rampant hybridization between three species of reef fishes (Hexagrammidae): implications for the role of selection

KAREN D. CROW¹*, HIROYUKI MUNEHARA², ZIYUSEI KANAMOTO³
ANDREY BALANOV⁴, DMITRIY ANTONENKO⁴ and GIACOMO BERNARDI¹

¹Department of Ecology and Evolutionary Biology, University of California, Santa Cruz, CA 95060, USA

²Usujiri Fisheries Laboratory, Field Science Center for Northern Biosphere, Hokkaido University, Minamikayabe, Hokkaido 041-1613, Japan

³Division Aquatic Biology and Ecology, Center for Marine Environmental Studies, Ehime University, Matsuyama 790-8577 Ehime, Japan

⁴Laboratory of Ichthyology, Institute of Marine Biology, FEB RAS, Pal'chevskiy Street 17, Vladivostok 690041, Russia

Received 30 August 2005; accepted for publication 10 August 2006



Andrey Balanov

Joint Russia-Japan publications on fishes

Deep-sea Fauna and Pollutants off Pacific Coast of Northern Japan, edited by T. Fujita, National Museum of Nature and Science Monographs, No. 39, pp. 655–681, 2009

Fishes Collected by Commercial Size Midwater Trawls from the Pacific Coast off Northern Japan

Andrey A. Balanov¹, Masatoshi Moku², Kouichi Kawaguchi^{3,*}
and Gento Shinohara⁴

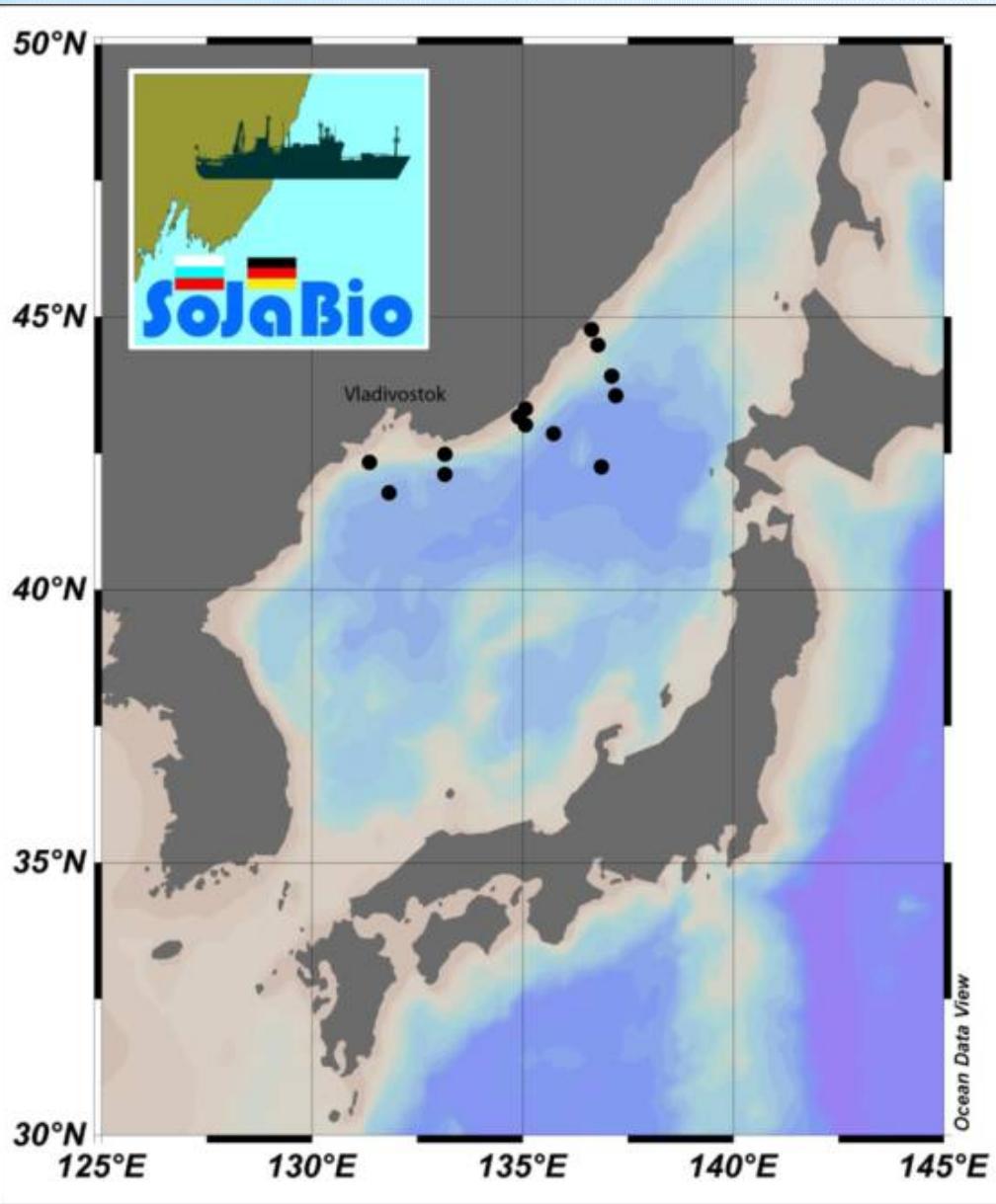
¹ Institute of Marine Biology, Far East Division, Russian Academy of Sciences,
Pal'chevskiy str., 17, Vladivostok, 690041 Russia
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E-mail: s-gento@kahaku.go.jp

Russian-German Collaboration in Marine Biology (4 joint expeditions)



SoJaBio Expedition,
August 11 - September
5, 2010

under the leadership of

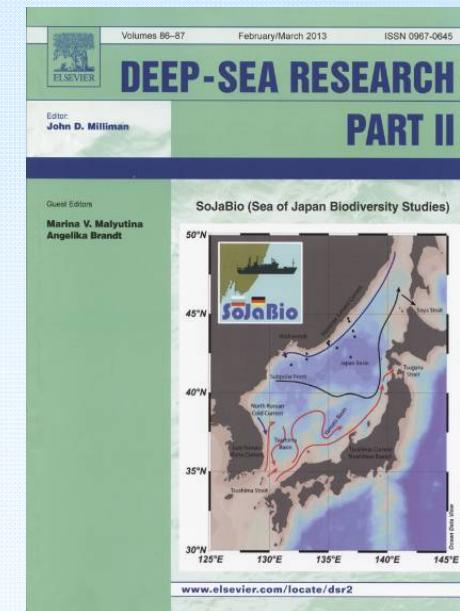
Dr. Marina V. Malytina
(IMB)
and
Prof. Angelika Brandt
(Biozentrum Grindel und
Zoologisches Museum,
Hamburg)



Main results/outcomes

Among 621 species of invertebrates collected from depths 500–3660 m, 201 species are new to science, and 105 species were recorded for the first time in the Sea of Japan.

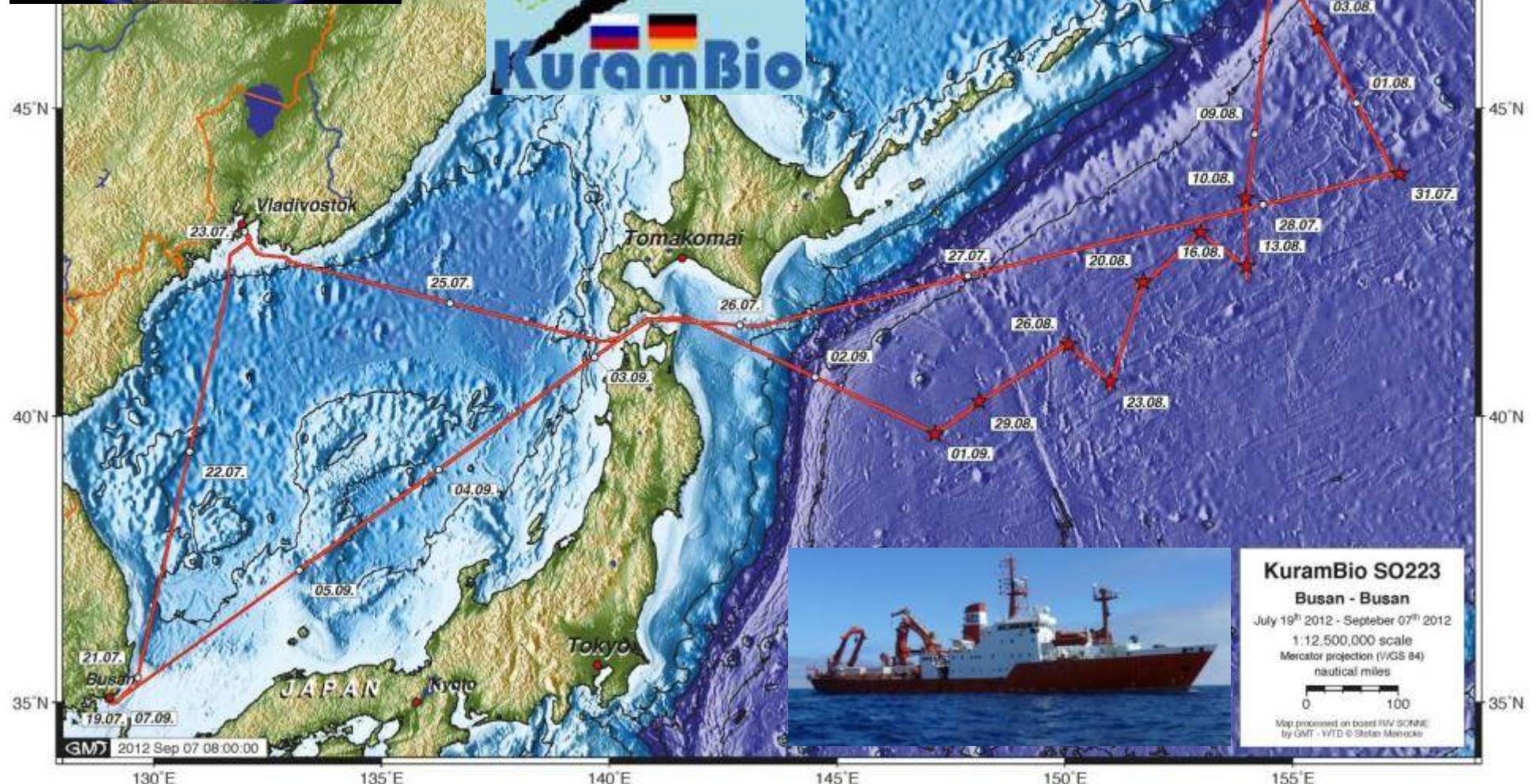
The results from the SoJaBio expedition confirm that the deep-sea fauna of the Sea of Japan consists mainly of eurybathic species. Though almost all studied taxa include few true low bathyal-abyssal species which already successfully colonized the young but optimal for life deep-sea environments of the Sea of Japan.



The investigations on different groups of organisms (foraminifers, bryozoans, hydrozoans, polychaets, nemertinas, nematodes, gastropods, isopods, cumaceans) show that some known species are registered in the Sea of Japan at the greatest depth of its vertical distribution. Most likely the depths below 2000 m in the Sea of Japan are inhabited by both eurybathic and bathyal species.



KuramBio-Expeditionsroute - FS Sonne





Angelika Brandt
Fahrtleiterin
Verantwortliche
EBS



Dimitri Milyutin
Verantwortlicher
MUC



Sven Hoffmann
Verantwortlicher
GKG



Enrico Schwabe
Verantwortlicher
AGT



Viola Fischer
CTD/GKG



Vladimir Kharlamenko
AGT



Nils Brenke
EBS



Christina Schmidt
MUC



Laura Würzberg
AGT



Anna Lavrenteva
EBS



Ivan Marin
AGT



Marina Malyutina
EBS



Kiril Minin
AGT



Gennady Kamenev
GKG



KuramBio

So223

Busan – Vladivostok – Busan

Kurile Kamtschatka Deep-Sea Biodiversity



Torben Richl
EBS



Aleksey Chernyshev
AGT



Valentina Settarova
MUC



Karin Pointner
MUC



Niklaus Eisner
EBS



Antje Fischer
GKG



Anastasia Maiorova
AGT/GKG



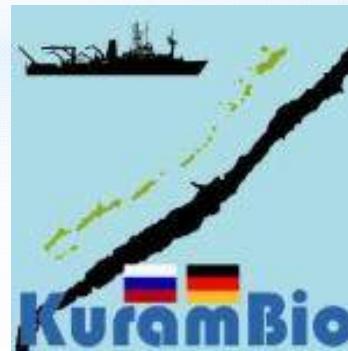
Franck Lejzerowicz
CTD/MUC



Jane Packmor
MUC



Diga Golovat
EBS





Contents lists available at ScienceDirect

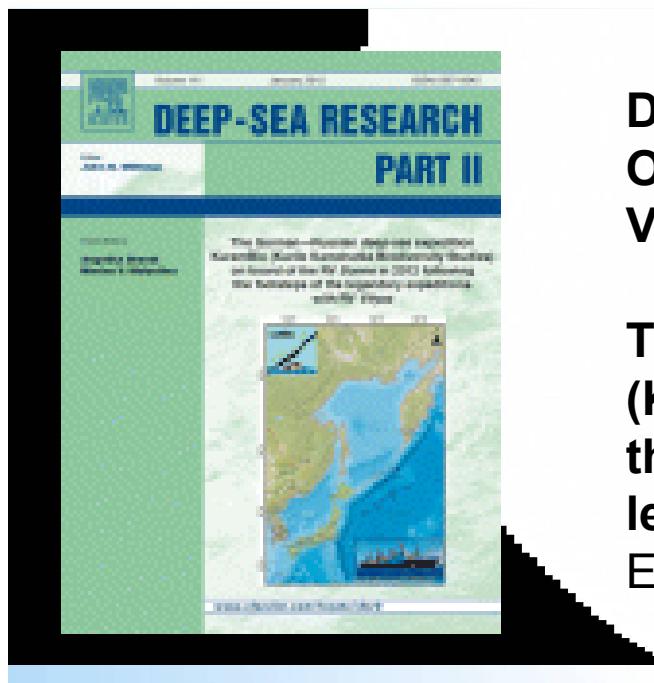
Deep-Sea Research II

journal homepage: www.elsevier.com/locate/dsr2



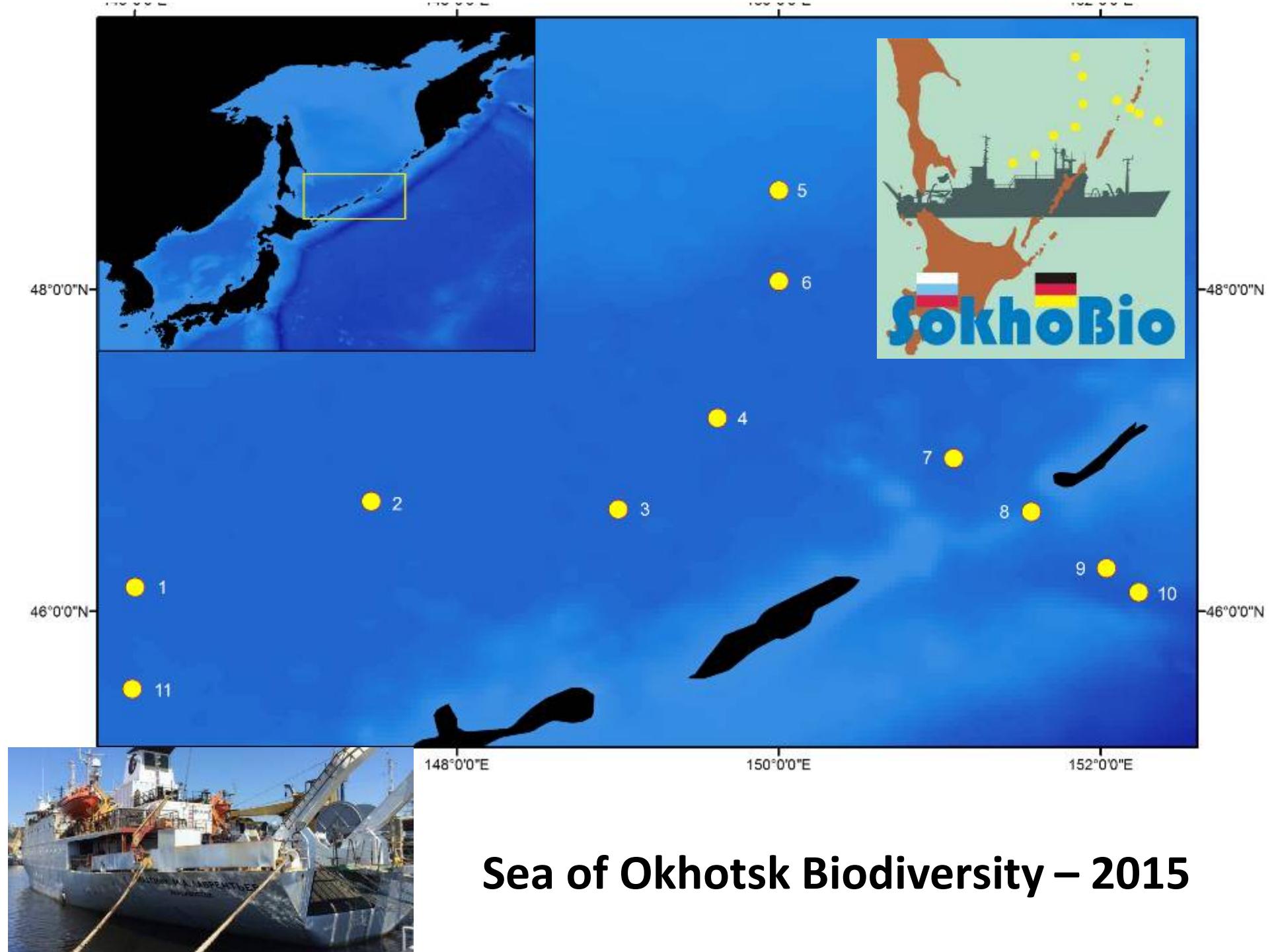
Introduction

The German–Russian deep-sea expedition KuramBio (Kurile Kamchatka biodiversity studies) on board of the RV Sonne in 2012 following the footsteps of the legendary expeditions with RV Vityaz



**Deep Sea Research Part II: Topical Studies
Oceanography**
Volume 111, Pages 1-406 (January 2015)

**The German-Russian deep-sea expedition
(Kurile Kamchatka Biodiversity Studies)
on board of the RV Sonne in 2012 following the foot-
steps of the legendary expeditions with RV Vityaz**
Edited by Angelika Brandt and Marip



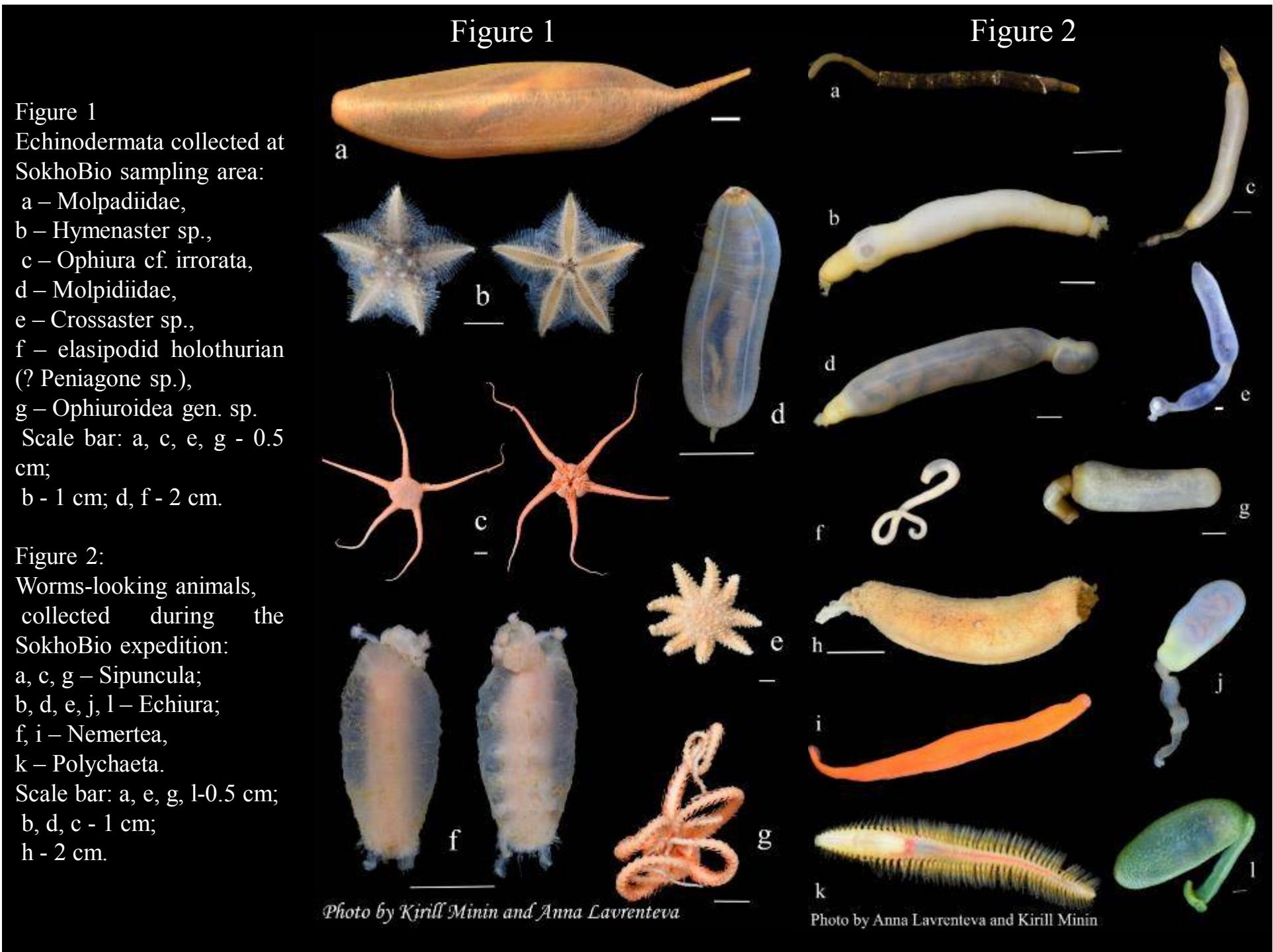


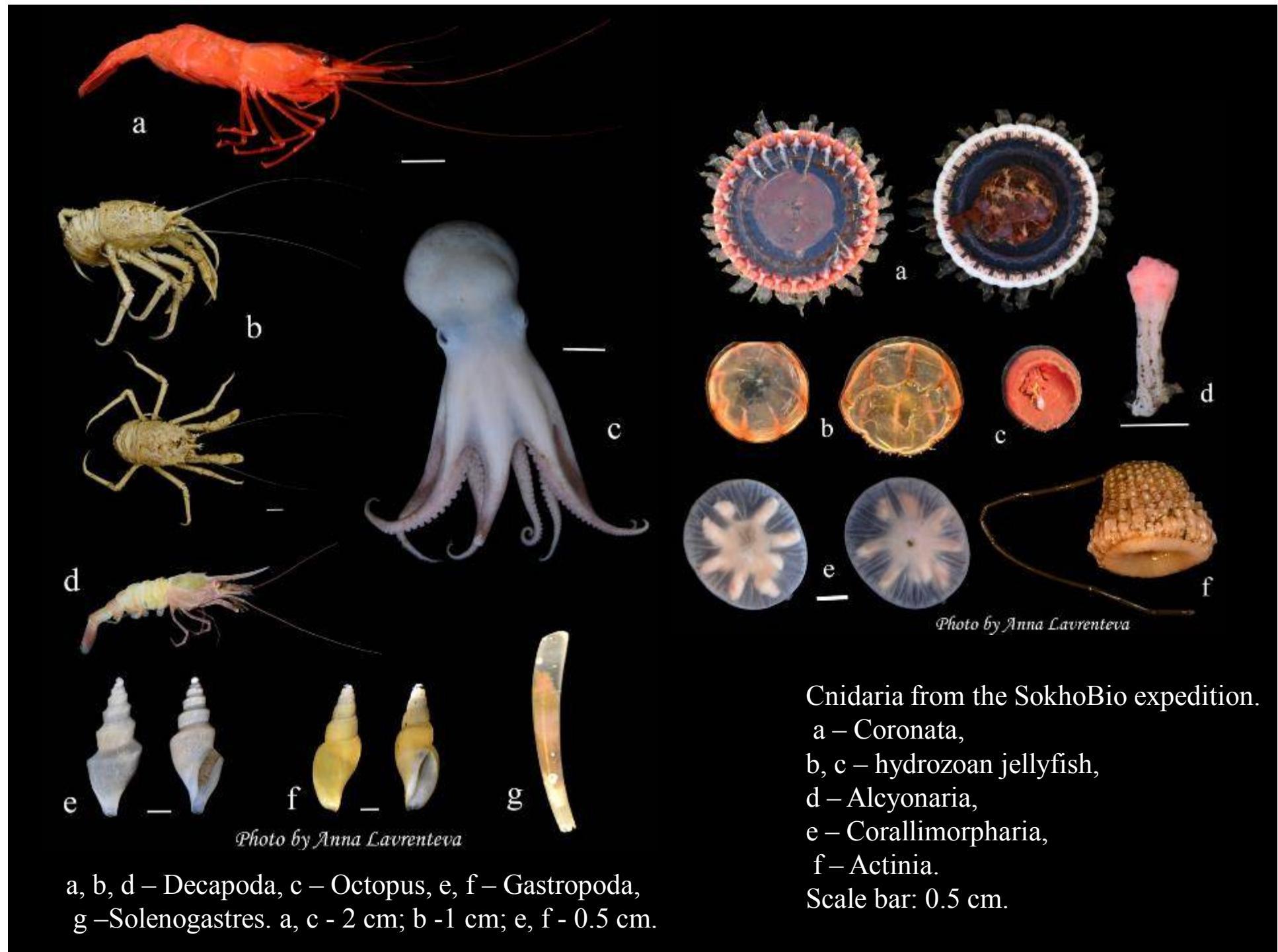
Work on deck



...and in laboratory







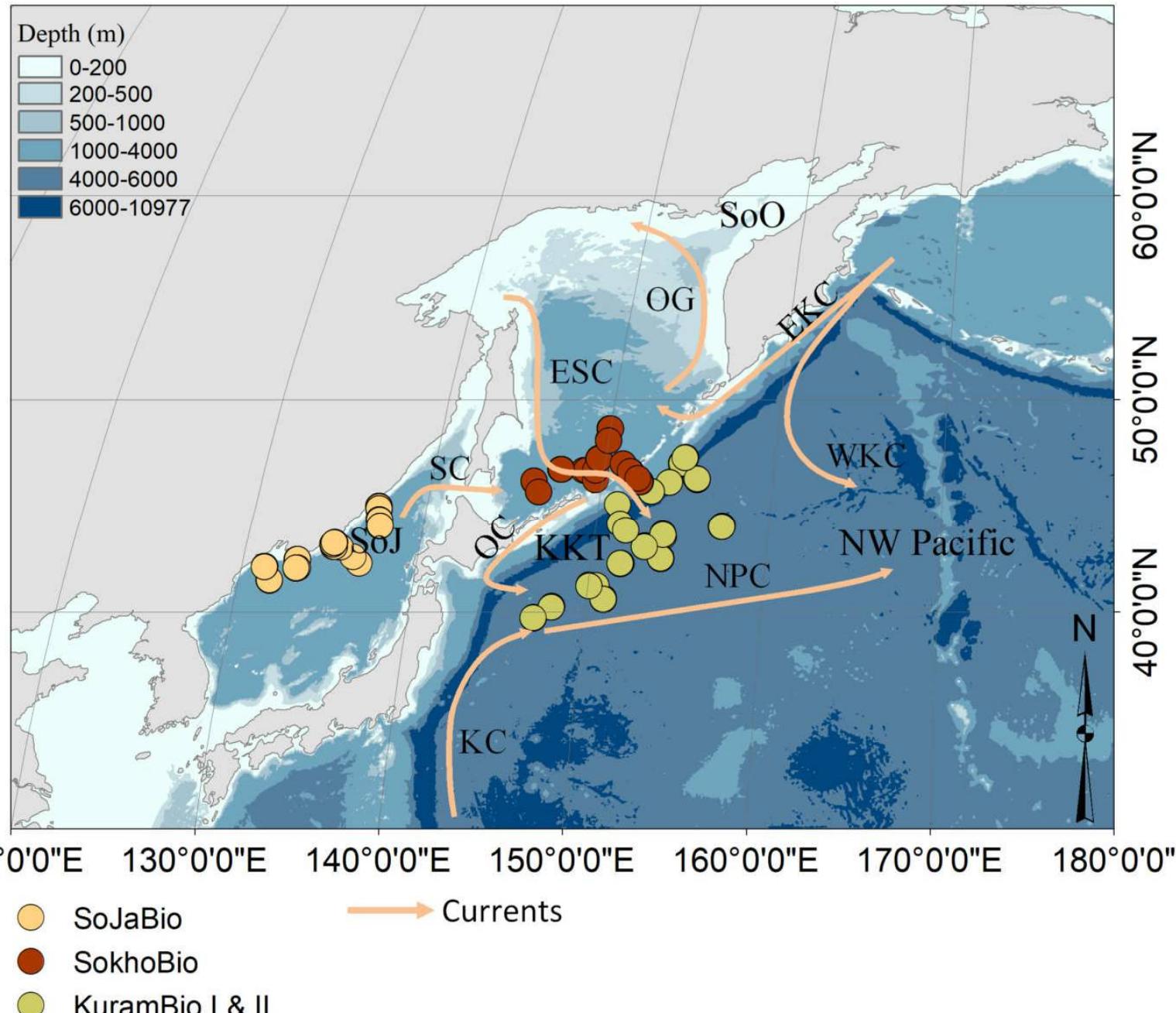


SokhoBio expedition 2015

Интервью после рейса: руководители программы
Ангелика Брандт (ФРГ) и М.В. Малютина (Россия)



4 глубоководных экспедиции с 2010 г.



This book is designed as a guide, synthesis, and review of the current knowledge of the benthic fauna that is distributed in the bathyal and abyssal zones (below 2,000 m) of the NW Pacific. This book consists of 21 chapters, with an introduction followed by 20 chapters on taxonomy and biogeography of different deep-sea taxa including Porifera, Cnidaria, Brachiopoda, Entoprocta, Nemertea, Solenogastres, Bivalvia, Sipuncula, Polychaeta, Echiura, Nematoda, Kinorhyncha, Pygnogonida, Ascothoracida, Ostracoda, Decapoda, Amphipoda, Isopoda, Ascothoracida, Tanaidacea, Echinoidea and Asteroidea.

In times of rapid climate change and increasing anthropogenic impact, a compilation of life at the seafloor in the deep sea, where environmental parameters resemble those of the Arctic Ocean, is urgently needed. Based on such urgent needs, this book is very timely and provides not only insights into NW Pacific deep-sea benthic biodiversity and species compositions, but also forms a fundamental regional study of the NW Pacific required for understanding the ecosystem services and decision-making assessments in order to prioritize conservation criteria across multiple biodiversity conservation initiatives and groups. This book also represents an important backbone study for the United Nations Decade of Ocean Science for Sustainable Development assessment (2021–2030). This decade aim to ensure that ocean science can support nations' activities to sustainably manage the oceans and in particular to reach the goals of the 2030 Agenda for Sustainable Development.

BIOGEOGRAPHIC ATLAS OF THE DEEP NW PACIFIC FAUNA • edited by Hanieh Saeedi & Angelika Brandt

BIOGEOGRAPHIC ATLAS OF THE DEEP NW PACIFIC FAUNA

edited by
Hanieh Saeedi & Angelika Brandt



PENSOFT

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Совместные экспедиции, полевые исследования с иностранными учеными

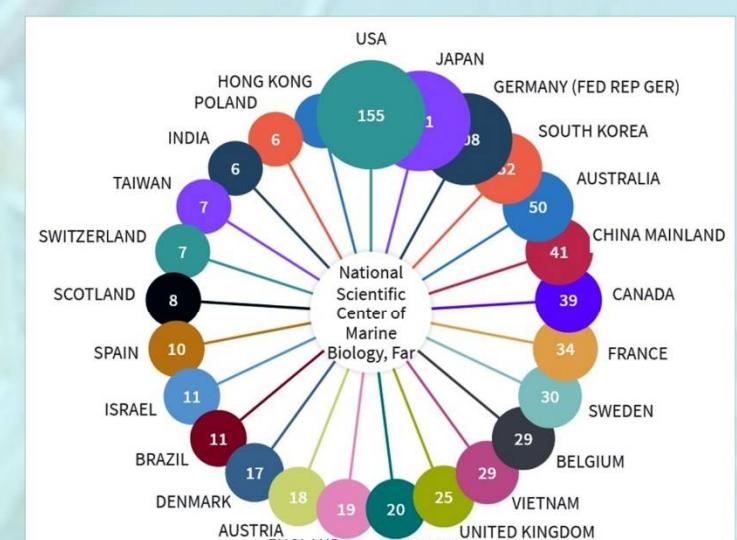
Год	Кол-во экспедиций, полевых работ	Где проведены
2011	3	Россия, Вьетнам
2012	2	Германия, Вьетнам
2013	3	Вьетнам, Китай, Республика Корея
2014	8	Вьетнам, Республика Корея, Королевство Камбоджа, Китай, Япония, Франция
2015	2	Курильская котловина Охотского моря; Вьетнам
2016	4	Курило-Камчатский район; Республика Корея, Вьетнам
2017	3	Вьетнам, Китай
2018	7	Китай, Таиланд, Республика Корея, Норвегия, Панама
2019	4	Китай, Россия
2020	1	Россия

Совместные публикации

Важным показателем интенсивности международного сотрудничества являются совместные публикации: с 1970 г. сотрудниками ННЦМБ опубликовано более 900 научных статей с иностранными учеными из 48 стран,ключенными в базу данных Web of Science (в том числе из США – более 160, Япония – более 130, Германия – более 100); более 800 статей, включенных в базу SCOPUS. Только в последнее десятилетие изданы несколько совместных книг с учеными Вьетнама, Китая, Японии, Канады, Республики Корея (д.б.н. Э.А. Титлянов, д.б.н. А.Б. Имбс, к.б.н. К.А. Лутаенко).

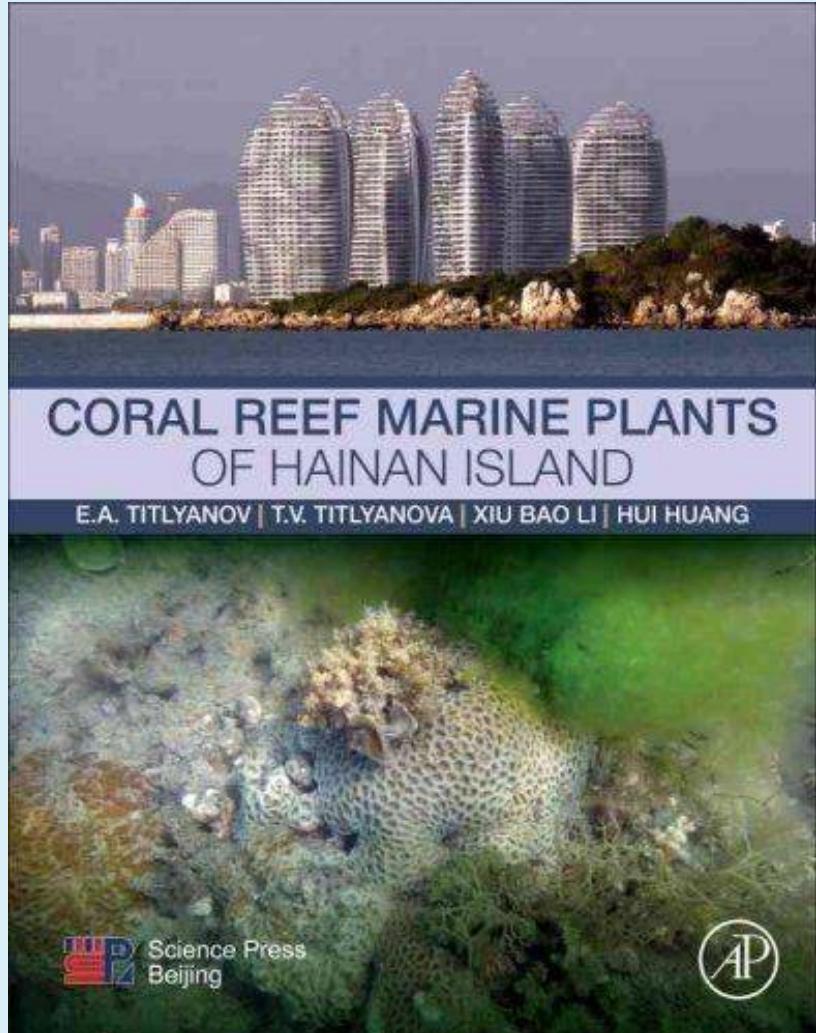


Number of papers published jointly with foreign scientists for the period of 1975-2020 in Web of Science
732 documents, 53 countries



Collaboration network from InCites
(1980-2020. only papers)

E.A. Titlyanov, T.V. Titlyanova, Xiubao Li, Hui Huang.
Coral Reef Marine Plants of Hainan Island.
Amsterdam, etc.: Elsevier. 2016. 244 p.



- **Key Features**
- Presents the first publication devoted to the description of marine plants of Hainan Island
- Describes marine plants, including the role of their communities in ecosystems of coral reef
- Discusses seasonal and decadal changes in biodiversity and the composition of the marine flora of the island
- Combines fundamental morphology with utilization and related products



Dr. Tamara Titlyanova
(left) and Prof. Eduard
Titlyanov (right)

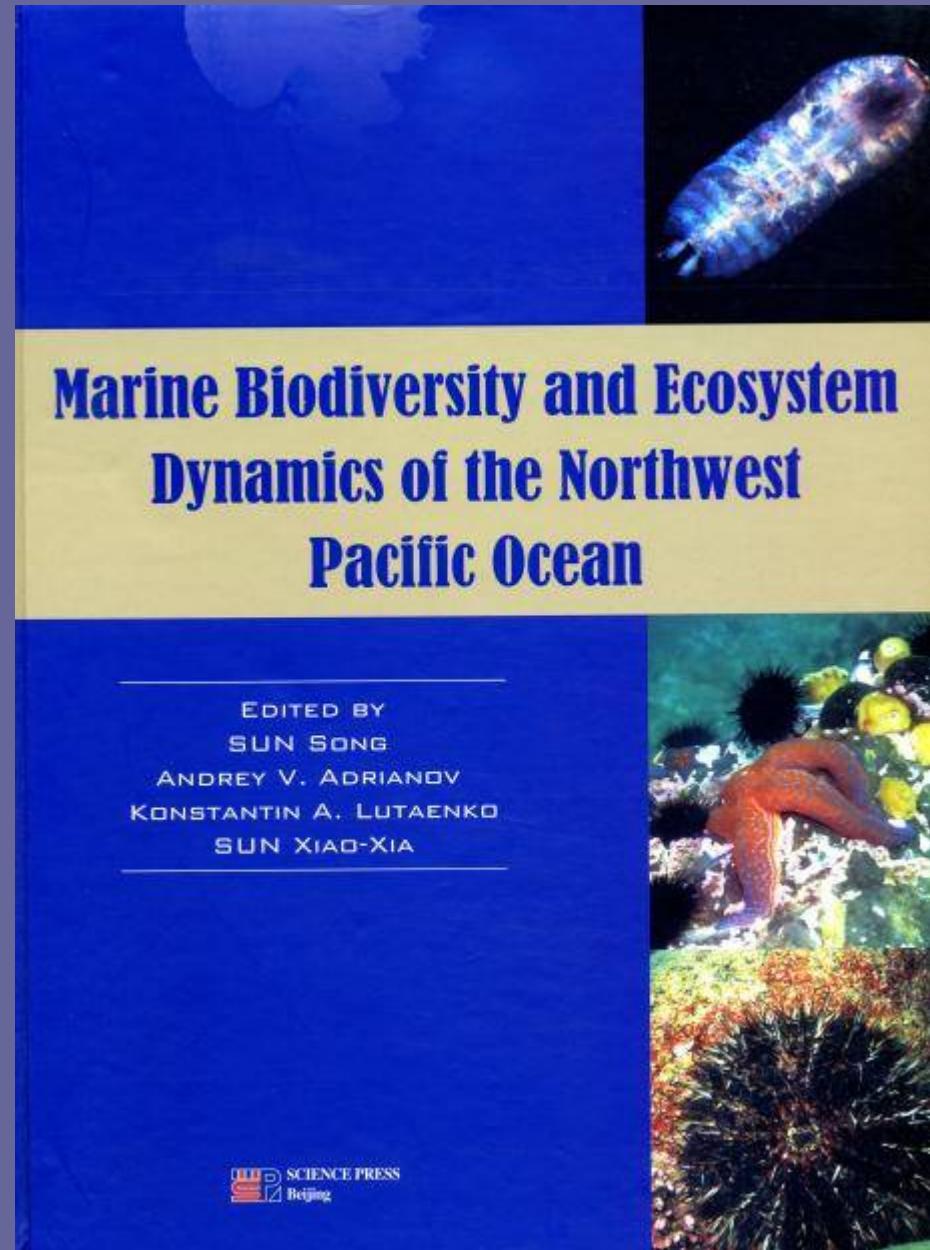
Journal of the Marine Biological Association of the United Kingdom, 2014, 94(1), 51–64. © Marine Biological Association of the United Kingdom, 2013
doi:10.1017/S0025315413001112

Seasonal changes in benthic algal communities of the upper subtidal zone in Sanya Bay (Hainan Island, China)

EDUARD A. TYTLYANOV^{1,2}, TAMARA V. TITLYANOVA^{1,2}, HUI HUANG^{1,3} AND XIUBAO LI^{1,3}

¹CAS Key Laboratory of Tropical Marine Bio-resources and Ecology, 164 West Xingang Road, Guangzhou, 510301, P.R. China,

²A.V. Zhirmunsky Institute of Marine Biology, Far Eastern Branch of the Russian Academy of Sciences, Palchevskogo 17, Vladivostok, 690059, Russian Federation, ³Tropical Marine Biological Research Station in Hainan, Chinese Academy of Sciences, Sanya 572000, P.R. China



Marine Biodiversity and Ecosystem Dynamics of the North-Western Pacific Ocean

Editors:

Sun Song, Andrey V. Adrianov,
Konstantin A. Lutaenko, Sun
Xiaoxia

Beijing: Science Press,
2014



K.A. Lutaenko and R.G. Noseworthy

CATALOGUE
OF THE LIVING BIVALVIA

of the Continental Coast
of the Sea of Japan (East Sea)



K.A. LUTAENKO,
R.G. NOSEWORTHY

**Catalogue of the
Living Bivalvia of the
Continental Coast of
the Sea of Japan (East
Sea).**

Vladivostok: Dalnauka, 2012. 247 p., 67
color plates [In English].

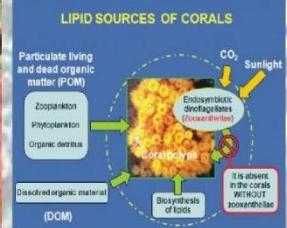
This is a catalogue of the Recent bivalve mollusks of the continental coast of the Sea of Japan/East Sea (from Busan in the south to Tatarsky Strait in the north), compiled for the first time, which contains 367 species and subspecies belonging to 57 families.

Ph'ım Quèc Long (chñ biän), Lu V'n HuyÒn
Andrey B. Imbs, Tatiana N. Dautova

Lipit vµ axit bĐo cña R'ın San H« ViÖt Nam

- §a d'ng sinh hää häc

Lipid and fatty acids of Vietnamese coral reefs
- Biochemical Diversity



Nh'p xuÊt b n Khoa h c v  K  thu t
Science and Technology Publishing House

Yuri S. Khotimchenko

POLYSORBOVIT:

**properties and using
of pectin preparations**

(Second Edition)

With contributions by

S.E. Lee, M.V. Odintsova, V.V. Kovalev, Yu.V. Kulakov,
M.Y. Khotimchenko, L.T. Trankovskaya, T.A. Ivanetz,
O.V. Jaschenja, O.V. Piatchina, J.Yu. Makarenko,
O.G. Polushin, Kim Jong Sung (Republic of Korea)

Seoul – 2003

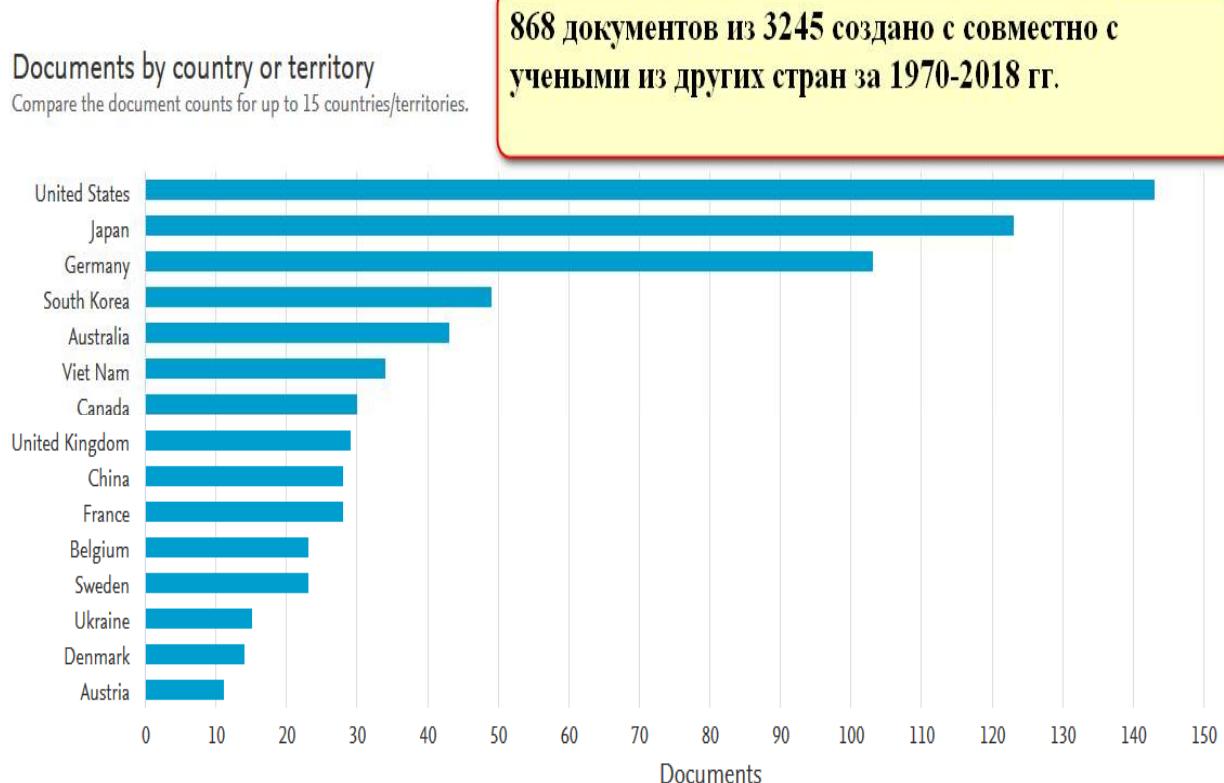
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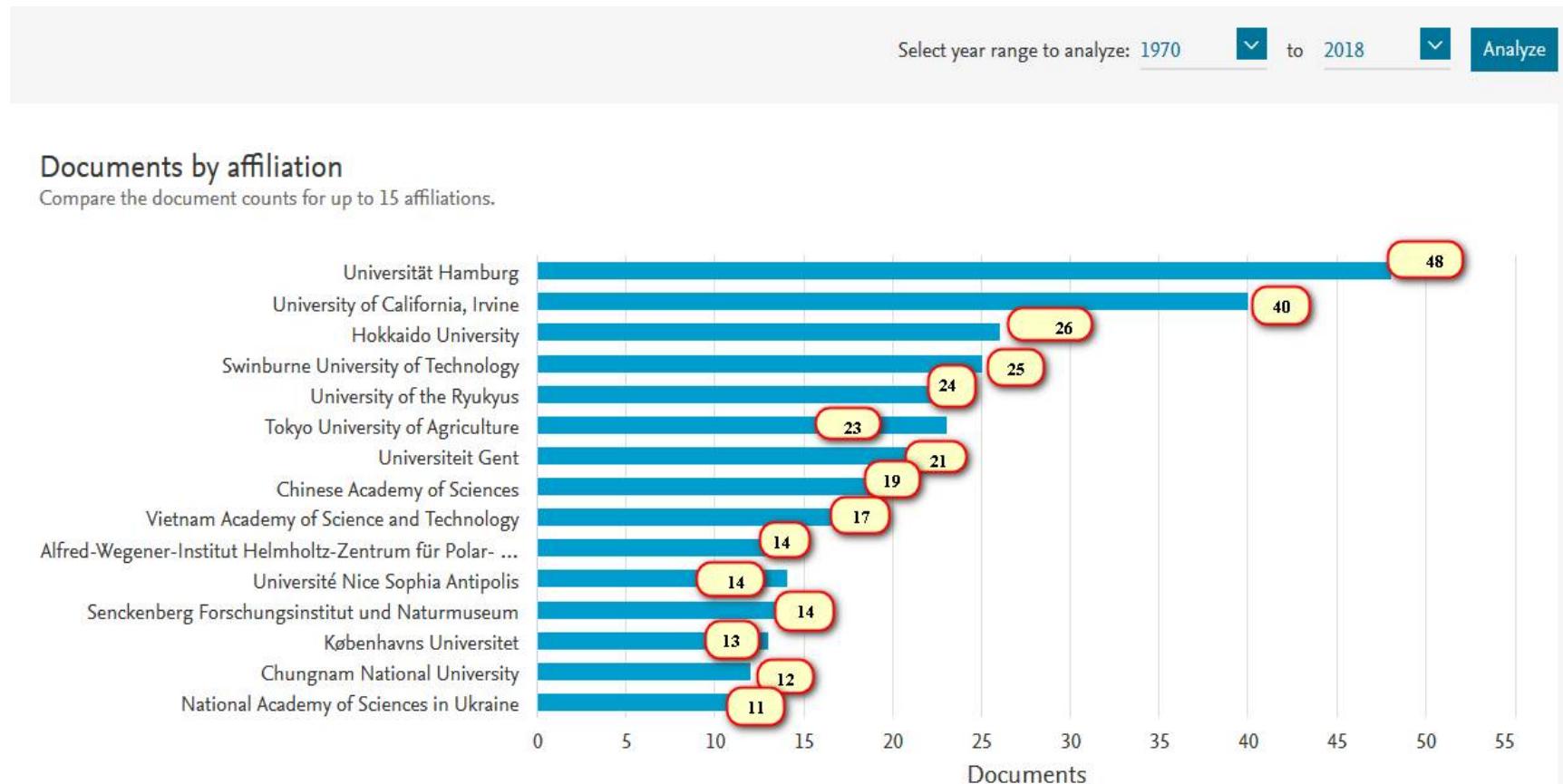
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Belgium	23
Sweden	23
Ukraine	15
Denmark	14
Austria	11
Brazil	11
Israel	11
Hong Kong	10
Taiwan	7

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учеными из других стран за 1970-2018 гг.

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ГОД	КОЛИЧЕСТВО СТРАН	КОЛИЧЕСТВО ВЫЕЗДОВ
2011	22	79
2012	21	72
2013	21	61
2014	22	71
2015	19	52
2016	19	56
2017	21	67
2018	20	75
2019	13	45
2020	4	14

Сводная таблица выездов за 2019 г.

№ п/п	Страна	Кол-во выездов
1	Канада	1
2	Китайская Народная Республика	12
3	Китайская Республика (Тайвань)	4
4	Королевство Швеция	1
5	Литовская Республика	1
6	Республика Корея	6
7	Республика Филиппины	4
8	Соединённые Штаты Америки	3
9	Социалистическая Республика Вьетнам	2
10	Федеративная Республика Германия	3
11	Чешская Республика	2
12	Япония	5
13	Королевство Норвегия	1

Посещение ННЦМБ иностранными специалистами

ГОД	ПРИНЯТО, чел.	КОЛИЧЕСТВО СТРАН
2011	28	8
2012	14	4
2013	53	13
2014	28	10
2015	37	11
2016	62	10
2017	51	12
2018	49	9
2019	91	18
2020	16	2

Отдел международных связей ННЦМБ (с 2006 г.)



Т.В. Лаврова и Н.П. Корзюк



М.В. Горелая (первая слева) с
делегацией из Южной Кореи



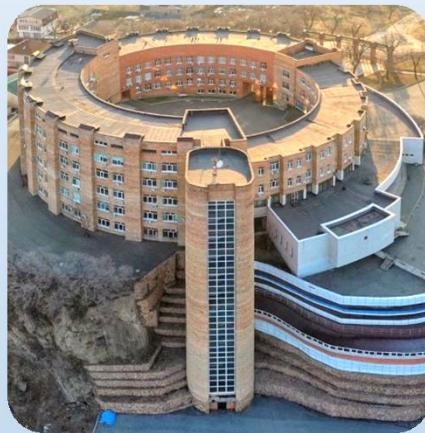
Т.В. Лаврова и К.А. Лутаенко



Н.В. Мирошникова и Т.В. Лаврова



С.П. Геронина



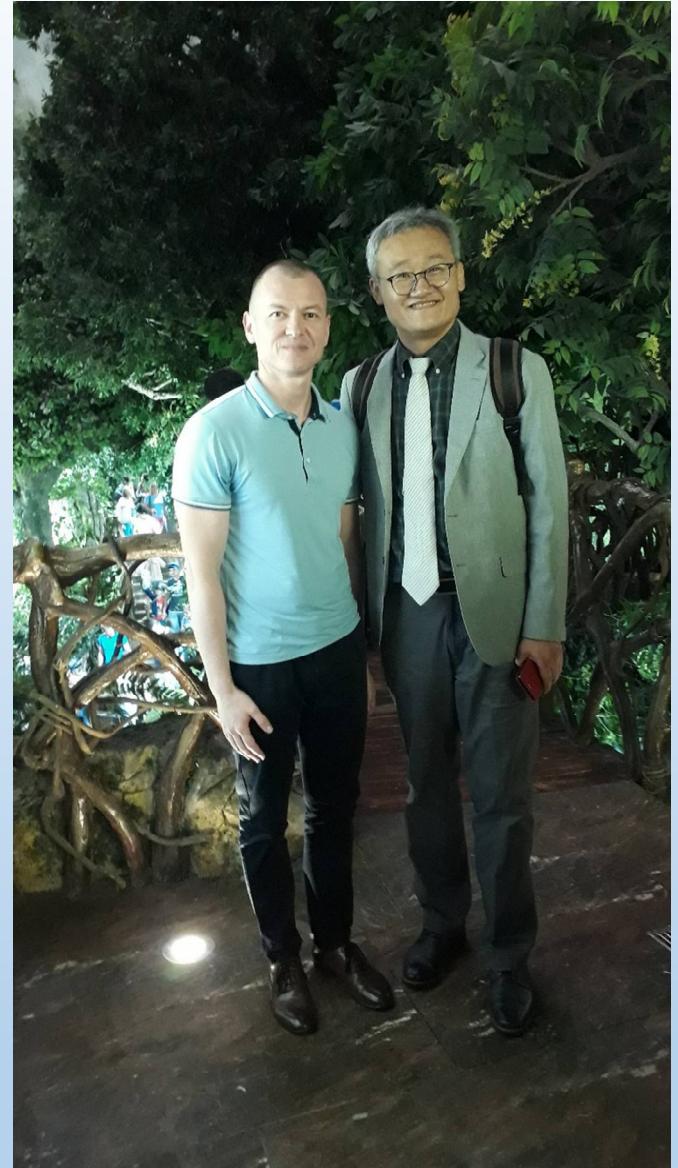
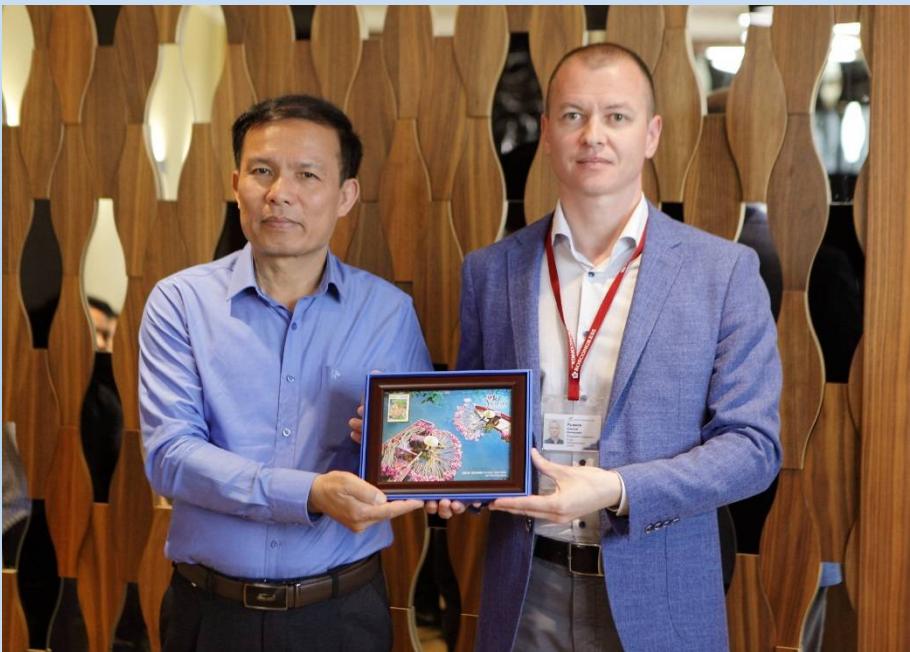
В.Р. Цой



В.М. Серков



Отдел
международных
связей Приморского
океанариума



А.Е. Рыжков



Организация визитов
иностранных ученых,
дипломатов,
представителей
международных
организаций

Организация мероприятий, визы, логистика, культурная программа





*ОТДЕЛ МЕЖДУНАРОДНЫХ
СВЯЗЕЙ*

поздравляет всех сотрудников
ННЦМБ ДВО РАН со славной
датой – 50-летием и желает
 дальнейших успехов!

