海洋环境与能源领域的国际教育

－日中韩交流项目－

东京海洋大学 海洋科学技术研究科

1.JCK项目背景

➢**2010年6月文部科学省招募该项目**

■ 项目名称：

“日中韩联合学校之间高级专业人才的培养项目”

■ 援助期间：

2010年起持续5年（之后以各大学的独立项目持续）

■ 对象领域：环境及能源领域

➢2010年9月JCK项目受采纳

- 东京海洋大学的“海洋领域的日中韩高级专业人才培养项目”受采纳

- 46所大学应募文部省项目，其中6所大学受采纳

2.海洋领域的日中韩高级专业人才培养项目

－海洋环境与能源领域的国际教育－

■ 关键词：“海洋环境与能源的有效利用”

■ 东京海洋大学研究生院 海洋科学技术研究科

［硕士课程（博士前期课程）］

定员：15名

■ 培养目标

具备相关环境生物资源保护及能源有效利用等方面知识的高级专业人才

■ 交流项目协议

＜参加学校＞

上海海事大学、上海海洋大学、浙江海洋学院、大連海事大学、大連海洋大学、中国海洋大学、釜慶大学校、韓国海洋大学校

3. 招生计划

- 时期：每年10月份入学（一部分4月份入学）

- 考试：第一次选拔：各大学推荐

  第二次选拔：东京海洋大学项目老师的面试

  第三次选拔：指导老师的面试

4. 经济支援

- 入学金：免费

- 学费：第一年免除（**535.800**日元）

  第二年可申请减免（与其他留学生相同）

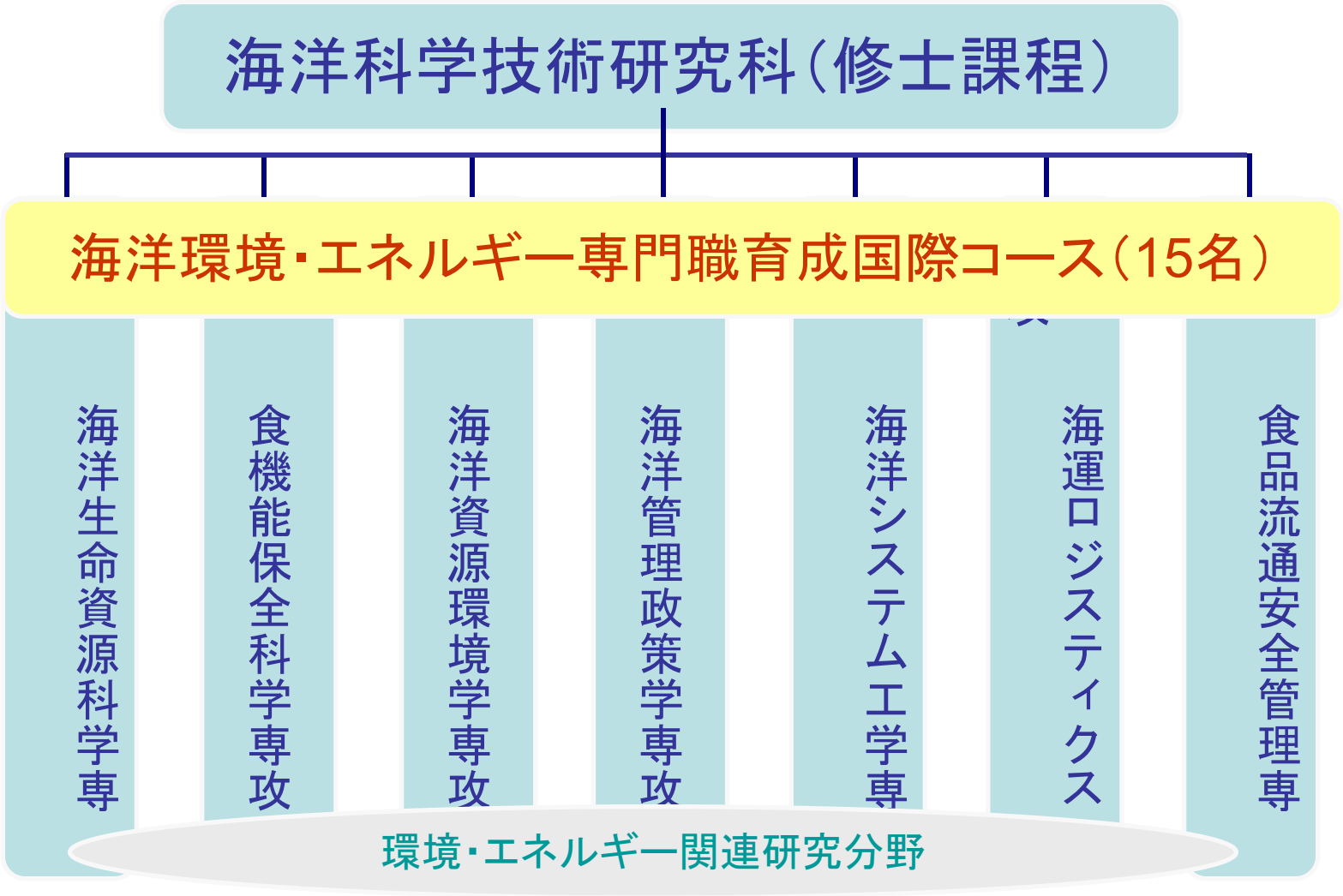
- 奖学金：可申请

- 宿舍：优先入住国际交流会馆或学生宿舍

5. 教育课程

- 新专业：“海洋环境能源国际人才培养专业”

  - 涉及研究生院海洋科学技术研究科博士前期课程所有专业（定员15名）


海洋科学技術研究科（修士課程）
海洋環境・エネルギー専門職育成国際コース（15名）
海洋生命資源科学専
食機能保全科学専攻
海洋資源環境学専攻
海洋管理政策学専攻
海洋システム工学専
海運ロジスティクス
食品流通安全管理専
環境・エネルギー関連研究分野

5. 教育课程

- 专业课程：

① 各专业必修课程（现有7个专业课程）

② 各专业领域相关的环境能源课程

③ 企业所要求的发展及环境保护兼顾型经营能力培养课程

④　选择必修课程

■ 实例演习

环境保全技术实例演习： 2学分

■乘船体验

企业实习课程（环境能源体验实习）： 1学分

实例演习 ＋ 乘船体验　＝　总计3学分

- 讲义与指导

  语言：日语 ＋ 英语

  （现在80%以上的讲义用英语授课）

- 支援：日语补习班（与其他留学生同样）

6. 学习·就职指导

JCK-Coordinator全程指导

- 项目辅导

  学校之间的相互联系，实习企业的联系，研讨会活动相关业务

- 联络辅导

  与联合学校沟通，交换情报以及招生事项，留学生生活指导

➢留学期间支援内容　　日语教育，辅导员（**Tutor**）制度，宿舍优先入住等

➢ 就职支援内容

✓东京海洋大学就职支援中心提供各方面相关信息

7.申请及志愿表提出程序

① 在各所属大学的外事处申请

（东京海洋大学不接收个人申请）

✓ 申请材料在所属大学指定的期限日之前提交到申请窗口

（申请专业，指导老师）

② 各所属大学进行第1次选拔

- ✓ 第1次选拔按照各所属大学的标准，选拔时考虑成绩及希望专业的指定老师是否接收
- ✓ 通过第1次审查通过这志愿表等由申请窗口老师转交到东京海洋大学
- ✓ 选拔过程中，会有追加（除上记申请材料以外的）证明材料的可能性。
- ✓ 申请者所提交的申请材料如发现有弄虚作假的情况，会被取消资格。

③第二次选拔以及面试

➢东京海洋大学教师在线进行面试

面试将在**2022**年**3**月份进行。具体日期待定。

➢面试主要使用英语

◎研究者検索方法

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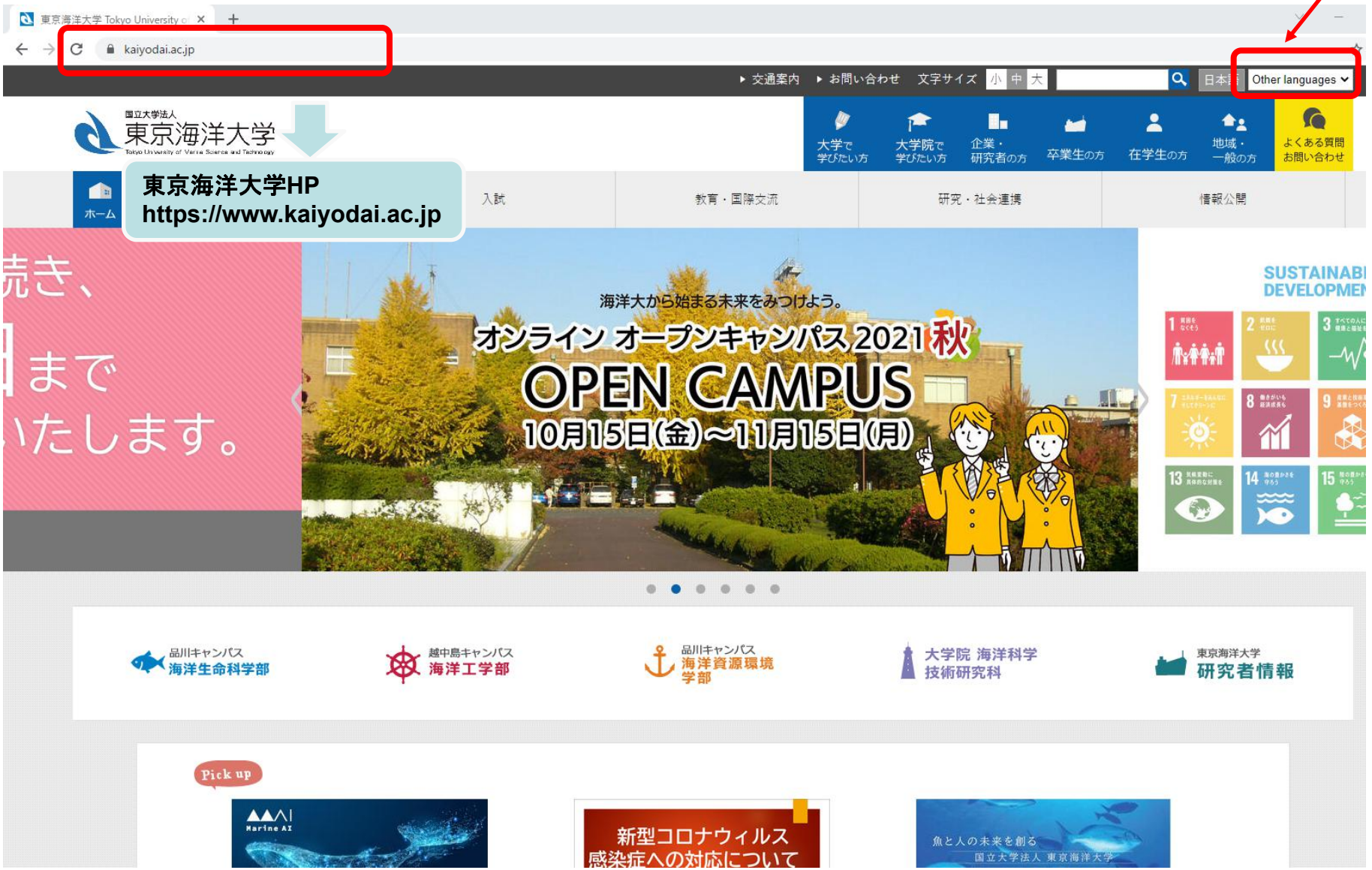

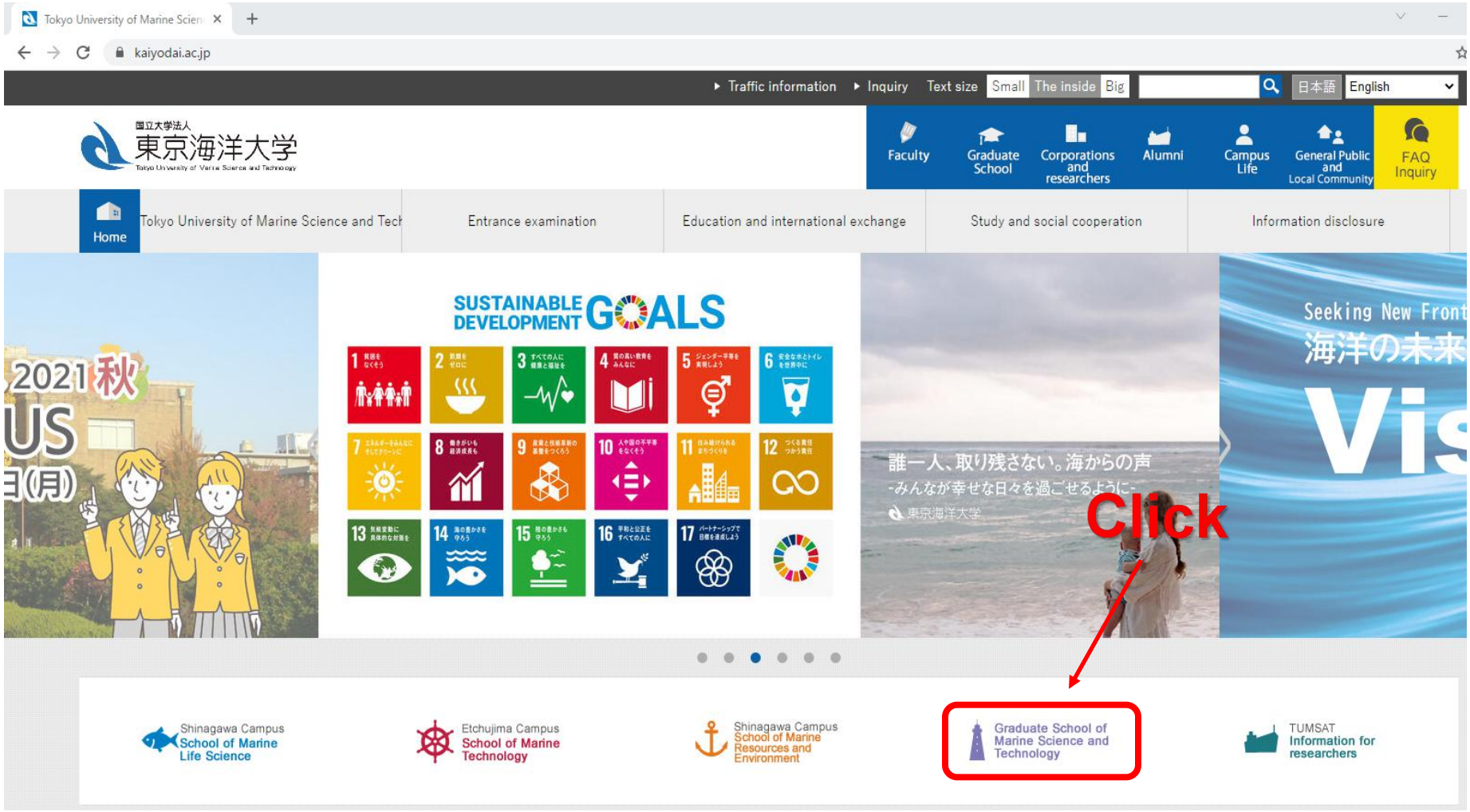
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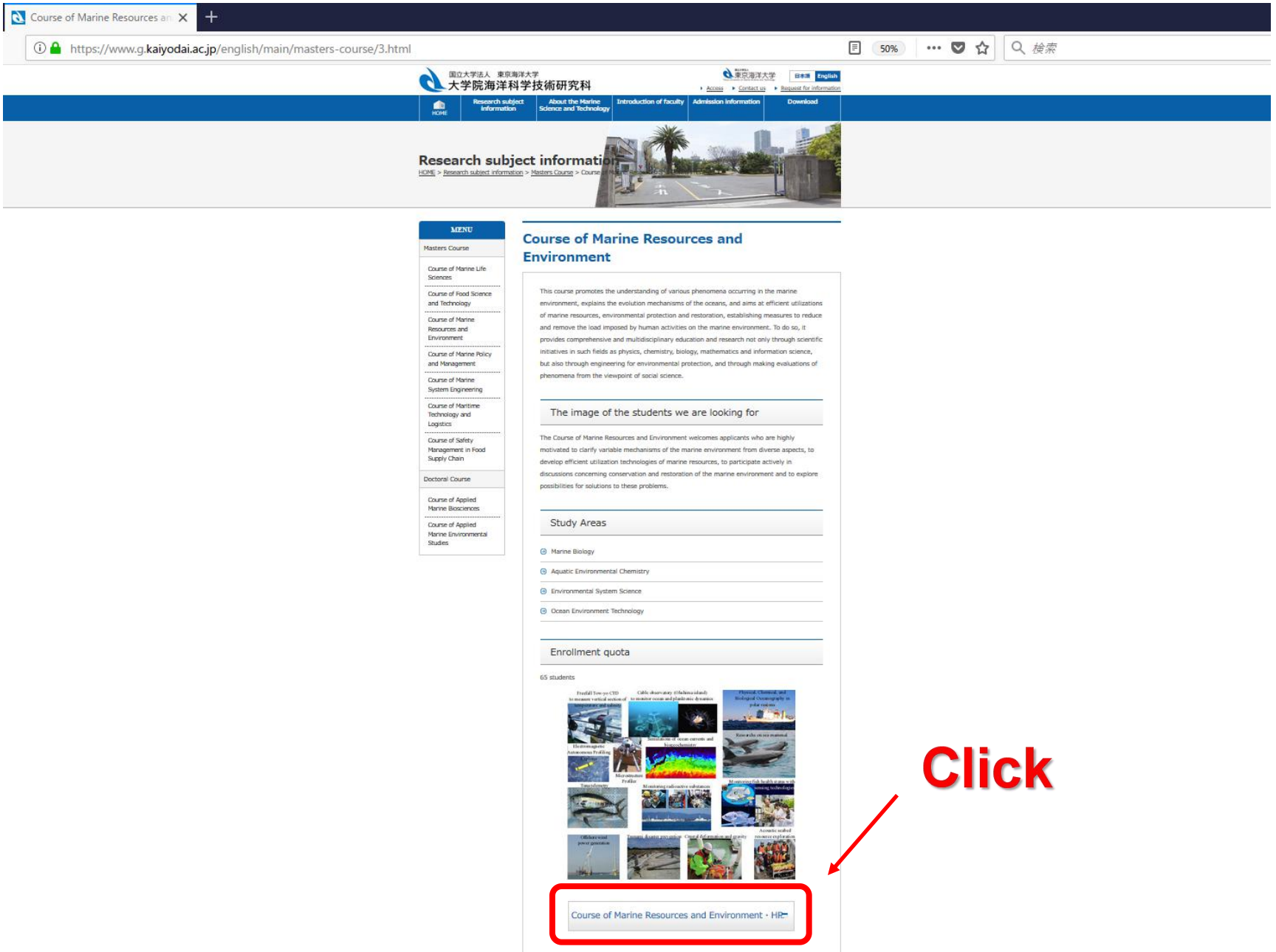
Course of Safety Management in Food Supply Chain
Doctoral Course
Course of Applied Marine Biosciences
Course of Applied Marine Environmental Studies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Course of Marine System Engineering
Course of Maritime Technology and Logistics
Course of Safety Management in Food Supply Chain
Doctoral Course
Course of Applied Marine Biosciences
Course of Applied Marine Environmental Studies
Course of Marine Resources and Environment
This course promotes the understanding of various phenomena occurring in the marine environment, explains the evolution mechanisms of the oceans, and aims at efficient utilizations of marine resources, environmental protection and restoration, establishing measures to reduce and remove the load imposed by human activities on the marine environment. To do so, it provides comprehensive and multidisciplinary education and research not only through scientific initiatives in such fields as physics, chemistry, biology, mathematics and information science, but also through engineering for environmental protection, and through making evaluations of phenomena from the viewpoint of social science.
The image of the students we are looking for
The Course of Marine Resources and Environment welcomes applicants who are highly motivated to clarify variable mechanisms of the marine environment from diverse aspects, to develop efficient utilization technologies of marine resources, to participate actively in discussions concerning conservation and restoration of the marine environment and to explore possibilities for solutions to these problems.
Study Areas
Marine Biology
Aquatic Environmental Chemistry
Environmental System Science
Ocean Environment Technology
Enrollment quota
65 students
Course of Marine Resources and Environment - HP
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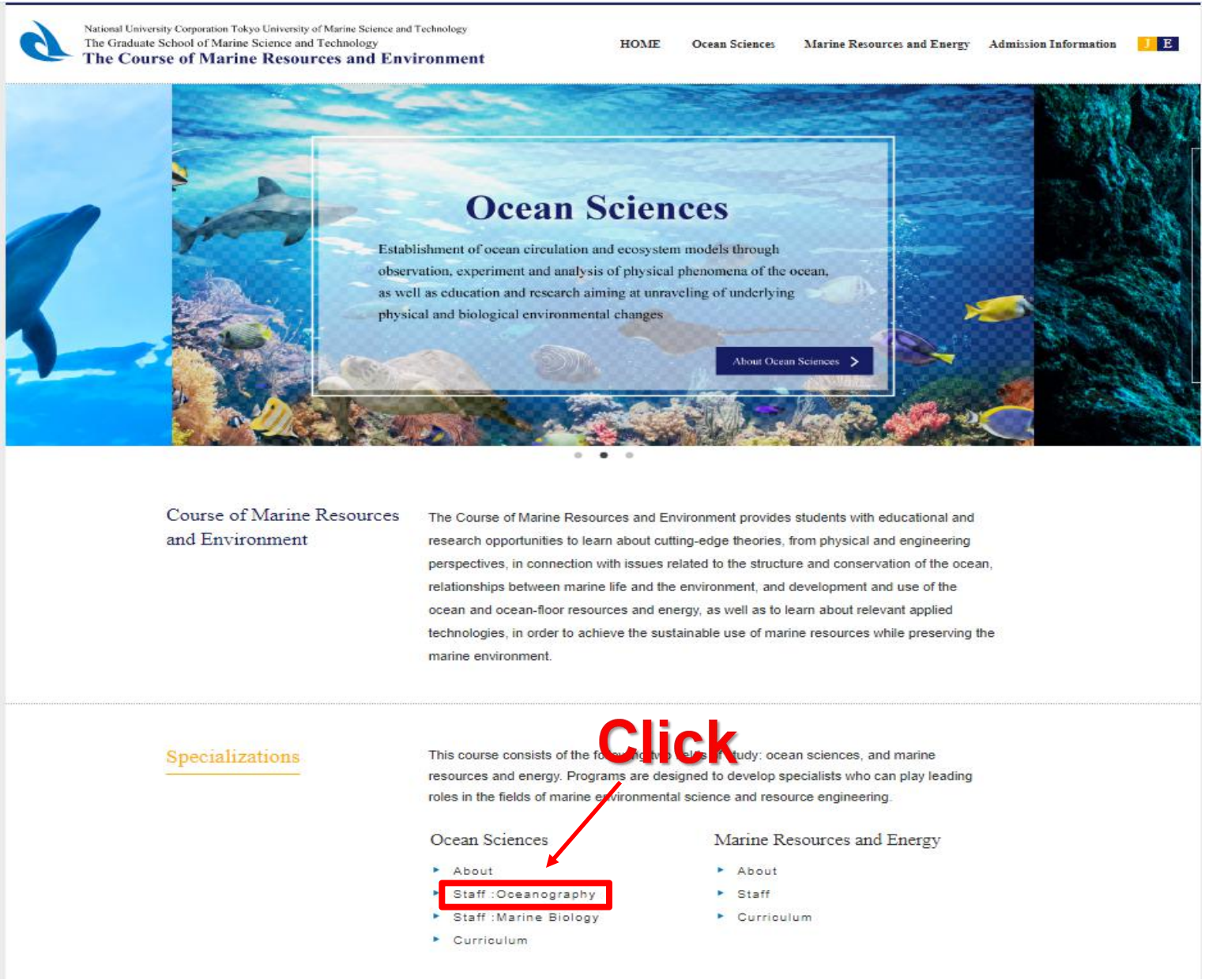
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Ocean Sciences
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Ocean Sciences
Establishment of ocean circulation and ecosystem models through observation, experiment and analysis of physical phenomena of the ocean, as well as education and research aiming at unraveling of underlying physical and biological environmental changes
About Ocean Sciences
Course of Marine Resources and Environment
The Course of Marine Resources and Environment provides students with educational and research opportunities to learn about cutting-edge theories, from physical and engineering perspectives, in connection with issues related to the structure and conservation of the ocean, relationships between marine life and the environment, and development and use of the ocean and ocean-floor resources and energy, as well as to learn about relevant applied technologies, in order to achieve the sustainable use of marine resources while preserving the marine environment.
Specializations
Click
This course consists of the following two fields of study: ocean sciences, and marine resources and energy. Programs are designed to develop specialists who can play leading roles in the fields of marine environmental science and resource engineering.
Ocean Sciences
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Staff :Oceanography
Staff :Marine Biology
Curriculum
Marine Resources and Energy
About
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Ocean Sciences

Staff : Oceanography

Professor :
Hisayuki Arakawa
Specializations :
Applied Ocean optics

1. Ocean optical measurement
2. Relation between underwater light variation and response of marine organisms
3. Detection and dynamics of ocean microplastics

Researcher information

Associate Professor :
Masashi Ohnawa
Specializations :
Fluid Dynamics, Analysis, Numerics

Mathematical and numerical studies on fluid phenomena appearing in the atmosphere, ocean, rivers and the universe mainly focusing on the formation and maintenance mechanisms.

Researcher information

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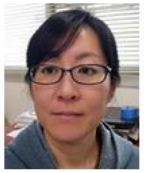


Associate Professor :
Michiyo Kawai
Specializations :
Chemical Oceanography

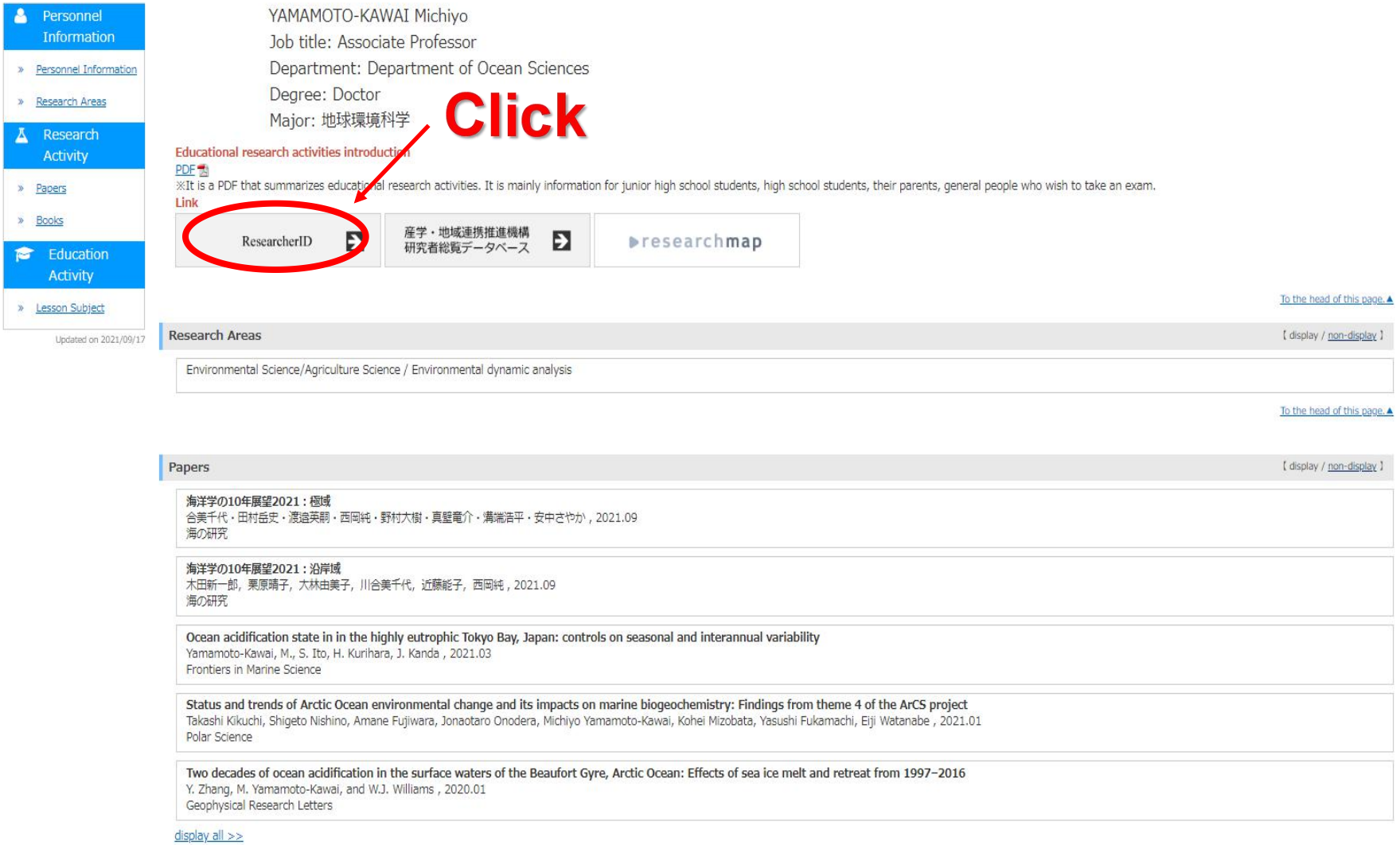
- Ocean Acidification in Coastal and Polar Regions
- Chemical Tracers and Biogeochemical Cycles in the Ocean
- Environemtal Changes in the Arctic Ocean

Researcher information
Web Site

Professor :
Jota Kanda
Specializations :
Biogeochemical Oceanography

- Long-term Biogeochemical Changes in Tokyo Bay
- Dynamics of Radioactive Cesium in Coastal waters off Fukushima
- Metabolic Budget of Carbon and Oxygen in Pelagic Microbial Communities

Researcher information
Web Site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YAMAMOTO-KAWAI Michiyo
Job title: Associate Professor
Department: Department of Ocean Sciences
Degree: Doctor
Major: 地球環境科学
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海の研究
海洋学の10年展望2021：沿岸域
木田新一郎, 栗原晴子, 大林由美子, 川合美千代, 近藤能子, 西岡純 , 2021.09
海の研究
Ocean acidification state in in the highly eutrophic Tokyo Bay, Japan: controls on seasonal and interannual variability
Yamamoto-Kawai, M., S. Ito, H. Kurihara, J. Kanda , 2021.03
Frontiers in Marine Science
Status and trends of Arctic Ocean environmental change and its impacts on marine biogeochemistry: Findings from theme 4 of the ArCS project
Takashi Kikuchi, Shigeto Nishino, Amane Fujiwara, Jonaotaro Onodera, Michiyo Yamamoto-Kawai, Kohei Mizobata, Yasushi Fukamachi, Eiji Watanabe , 2021.01
Polar Science
Two decades of ocean acidification in the surface waters of the Beaufort Gyre, Arctic Ocean: Effects of sea ice melt and retreat from 1997–2016
Y. Zhang, M. Yamamoto-Kawai, and W.J. Williams , 2020.01
Geophysical Research Letters
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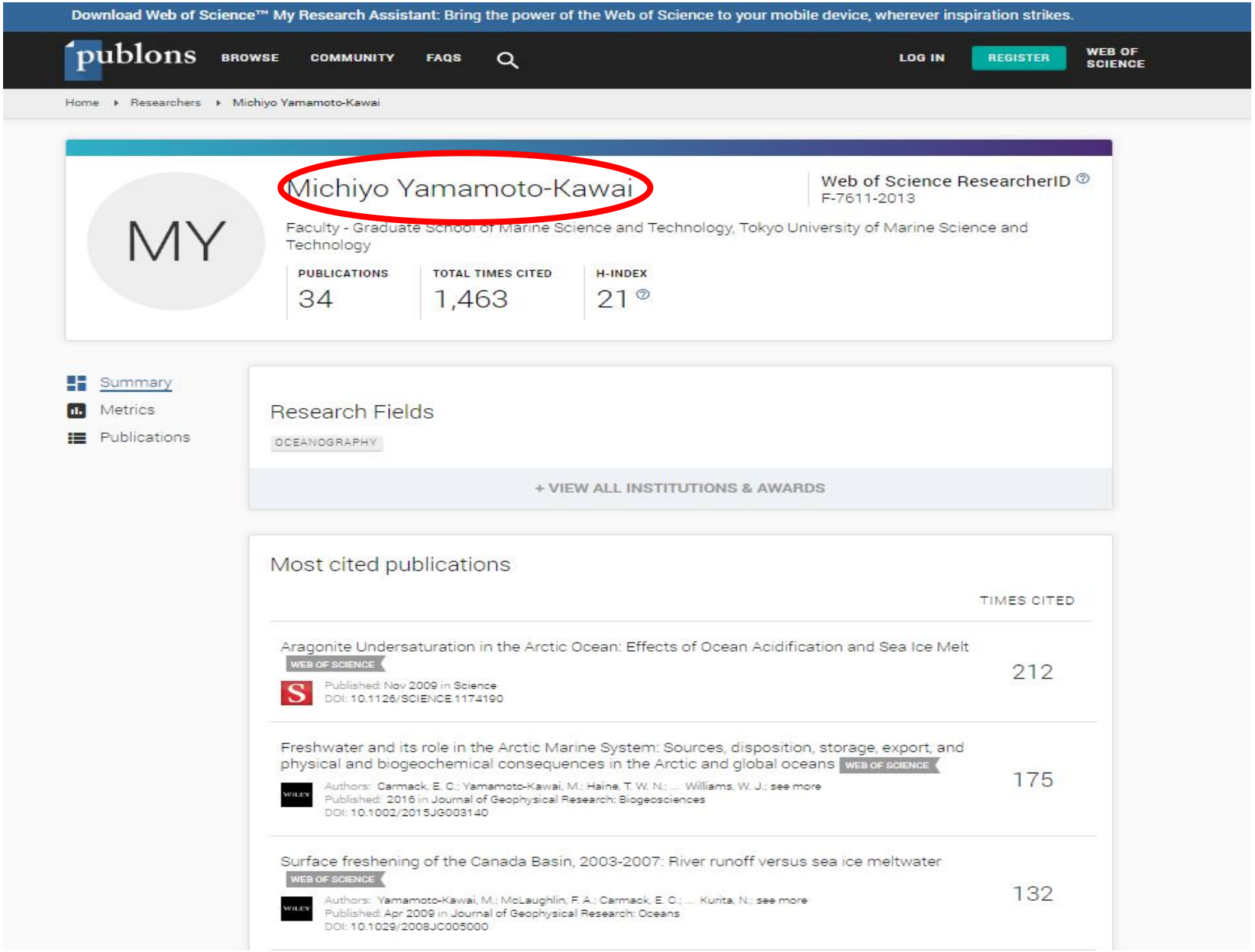
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Aragonite Undersaturation in the Arctic Ocean: Effects of Ocean Acidification and Sea Ice Melt
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Published: Nov 2009 in Science
DOI: 10.1126/SCIENCE.1174190
212
Freshwater and its role in the Arctic Marine System: Sources, disposition, storage, export, and physical and biogeochemical consequences in the Arctic and global oceans
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Authors: Carmack, E. C.; Yamamoto-Kawai, M.; Haine, T. W. N.; ... Williams, W. J.; see more
Published: 2016 in Journal of Geophysical Research: Biogeosciences
DOI: 10.1002/2015JG003140
175
Surface freshening of the Canada Basin, 2003-2007: River runoff versus sea ice meltwater
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Authors: Yamamoto-Kawai, M.; McLaughlin, F. A.; Carmack, E. C.; ... Kurita, N.; see more
Published: Apr 2009 in Journal of Geophysical Research: Oceans
DOI: 10.1029/2008JC005000
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谢谢大家！

ご清聴　ありがとうございました。