CURRICULUM VITAE

Name: Hiroaki Saito
Occupation: Professor
Center for International Collaboration,
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Education:

1986	B. Agr., Tohoku University
1996	Ph.D. (Agriculture), Tohoku University

Research and professional experience:

2019-	Advisor to the Director, AORI, the University of Tokyo
2016-	Professor, AORI, the University of Tokyo
2014-2016	Associate Professor, Section of Marine Planktology, AORI, the University of Tokyo
2011-	Head, Ecosystem Dynamics Group, Tohoku National Fisheries Research Institute, Fisheries Research Agency
2001-2011	Chief, Biological Oceanography Section, Tohoku National Fisheries Research Institute, Fisheries Research Agency
1997 - 2001	Senior Scientist of Biological Oceanography Section, Hokkaido National Fisheries Research Institute
1998 - 1999	Guest Scientist, Danish Institute for Fisheries Research
1990 - 1997	Researcher, Biological Oceanography Section, Hokkaido National Fisheries Research Institute

1987 - 1990 Researcher, Fisheries Resources Division, Hokkaido National Fisheries Research Institute, Fisheries Agency

Other appointments

2010-2011 Lecturer, Nagasaki University
2007-2008 Guest associate Professor, The University of Tokyo
2004 Lecturer, Shizuoka University
1994 - 2000 Cooperated Scientist of Sea Ice Research Laboratory, The Institute of Low Temperature Science, Hokkaido University
1992 - 2001 Cooperated Scientist of National Institute of Polar Research

Awards:

2020 Wooster Award, North Pacific Marine Science Organization
2007, 2009 The Hidaka Prize of the Oceanographic Society of Japan (co-author)
2003 The Best Paper Award from the Plankton Society of Japan (co-author)
1999 The Uda Prize of the Japanese Society of Fisheries Oceanography (co-author)
1998 The Okada Prize of the Oceanographic Society of Japan

Research Interest:

My scientific interest is the role of organisms in marine ecosystem dynamics and biogeochemical cycles. I have been studied biology and ecology of copepod, beautiful creature in marine ecosystem, and also various marine organisms from virus to whales. The essential aim of my studies is to understand the processes and mechanisms of marine ecosystem response to natural and anthropogenic perturbations. Recent research topics are:

- Ecosystem structure and dynamics in oligotrophic subtropical regions
- The role of zooplankton on biological pump
- Solving *"Kuroshio Paradox"* (high fisheries production from oligotrophic Kuroshio region) by studying nutrient supply mechanisms and ecosystem structure/dynamics
- Developing new ocean provinces respect to the distribution of biogenic elements and biogeography
- The role of iron on marine food-web dynamics and biogeochemical cycles
- Sustainable use of marine ecosystem services

I also keen to contribute to ocean-related solve social issues by preparing scientific knowledge. I am contributing some national/international projects related to UN Decade of Ocean Science for Sustainable Development (2021-2030) and UN SDGs, especially SDG14 "Life under water".

Committees:

2022- Member, Study Group for External Review of PICES
2021- Member, International Steering Group on the Second Cooperative Study of Kuroshio and its Adjacent Regions (CSK-2), WESTPAC, IOC/UNESCO
2020- Member, Study Group of ICES–PICES Ocean Decade
2018-2023, 2007-2008 Special Associate member, Science Council of Japan
2018- Chair, IMBeR-Japan National Committee, Science Council of Japan
2017- Member, NPOCE SSC, CLIVAR Pacific Panel
2016- Japanese delegation at the IOC Assembly/IOC Executive Council
2016-2019 Chair, PICES Science Board
2015- Japanese delegation at the IOC/WESTPAC Intergovernmental Session
2015-2016 Cochairman, PICES FUTURE SSC
2013-2016 Vice Chairman, PICES Science Board
2013- Fellow of the board of Oceanographic Society of Japan
2011-2013, 2014-2017, 2019-2021 Member of the Paper Awards Selection Committee of the Oceanographic Society of Japan
2010-2012 Member, ICES/PICES Joint Study Group on "Developing a Framework for Scientific Cooperation in Northern Hemisphere Marine Science"
2009-2019 Member, PICES Science Board
2009-2016 Chair of FUTURE Advisory Panel on Climate, Oceanographic Variability and Ecosystems, PICES
2008 - 2010 Co-chair, Future Implementation Plan Writing Team, PICES
2007 - 2008 Member, FISP Writing Team, PICES
2007 - 2011 Member, WG22 (Iron supply and its impact on biogeochemistry and ecosystems in the North Pacific Ocean), PICES
2007 - 2013 Member, International Journal Committee, The Japanese Society of Fisheries Oceanography
2005 - 2009 Member, Study Group on Future Integrative Scientific Programs, PICES
2004 - 2007 Member, IFEP Advisory Panel, PICES
2004 - 2008 Chair, IMBER-Japan National Committee, Science Council of Japan
2004 - 2005 Member, Japan-GLOBEC National Committee, The Science Council of Japan
2004 - 2008 Science Steering Committee, IGBP/SCOR IMBER
2003 - 2005 Member, Committee of Global Environmental Research, The Science Council of Japan
2002－2004 Member, IGBP/SCOR Ocean Biogeochemistry and Ecosystems Transition Team
2001 - 2004 Member of MODEL Task Team, PICES

Editorial boards of academic journals:

2022-	Guest Editor, Deep-Sea Research Part II: Topical Studies in Oceanography, Special Issue: IMBeR West Pacific Symposium: Changing West Pacific Ocean: Science and Sustainability.
2021-	Associate Editor for Marine Biogeochemistry (Frontiers in Marine Science, Frontiers in Earth Science and Frontiers in Chemistry)
2020-	Guest Associate Editor in Coastal Ocean Processes, Frontier in Marine Science (Topic Section: Oceanographic Processes Linking Nearshore, Continental Shelf, and Shelf Break)
2019	Editor, Kuroshio Current: Physical, Biogeochemical, and Ecosystem Dynamics (Geophysical Monograph Series, AGU-Wiley)
2019	Guest Editor, Philippine Journal of Natural Sciences
2016	Guest editor of the Special Issue “Study of change in ecosystem and material cycle caused by climate change and its feedback in the western North Pacific”, Journal of Oceanography
2011 -2019	Editorial board, Journal of Oceanography
2007- 2013	Editorial board, Fisheries Oceanography
2005- 2011	Editor, Plankton and Benthos Research (Plankton Biology and Ecology until 2005)
2003- 2010	Associate editor, Progress in Oceanography.

Membership of academic societies:

The Oceanographic Society of Japan
Plankton Society of Japan
Japanese Society of Fisheries Oceanography
Japan Geoscience Union
The Association for the Sciences of Limnology and Oceanography
The American Geophysical Union

Projects

2020-2023	CREPSUM (Collaborative Research and Education Project in Southeast Asia for Sustainable Use of Marine Ecosystems): Project Coordinator (PI), funded by JSPS Core-to-core program. https://jspscrepsum.wixsite.com/mysite
2017-2019	RENSEA (Research and education network on coastal ecosystems in Southeast Asia. Project Coordinator (PI), funded by JSPS Core-to-core program.
2011-2016	New Ocean Paradigm on its Biogeochemistry, Ecosystem and Sustainable Use (funded by MEXT). http://ocean.fs.a.u-tokyo.ac.jp/
2011-2021	SKED: Project leader (2011-2014), member (2014-2021). The Study

	of Kuroshio Ecosystem Dynamics for Sustainable Fisheries (funded by MEXT) http://tnfri.fra.affrc.go.jp/kaiyo/sked/english/index.html
2007-2012	POMAL: Project leader, Population outbreak of Marine Life (funded by the Ministry of Agriculture, Forestry and Fisheries) http://tnfri.fra.affrc.go.jp/kaiyo/POMALweb/e-pomal.html
2007	BLOSSOM: Project leader, Blooming Plankton Succession Study in the Oyashio Marine Ecosystem
2005-2008	PI. The role of heterotrophic dinoflagellates on the vertical transport of biogenic elements, funded by JSPS.
2003	SPINUP: Project leader, Study for Plankton and Iron Dynamics in the western Subarctic Pacific.
2002-2006	DEEP: Project leader, Deep-Sea Ecosystem and Exploitation Project, funded from Ministry of Agriculture, Forests and Fisheries of Japan.
2001-2004	SEEDS: Member. Japan-SOLAS project Subarctic ocean iron Enrichment and Ecosystem Dynamics Study, funded from Ministry of Environments of Japan.
1998-2000	PROVES: Member, MUST III programme, Processes of Vertical Exchange in Shelf Sea, funded by EU.
1998-2002	VENFISH: Member, Japan-GLOBEC project, Comprehensive study of the Variation of the oceanic ENvironment and FISH populations in the North-western Pacific
1997-2002	SAGE: Member. Japan-JGOFS project. Subarctic Gyre Experiment, funded from Science and Technology Agency of Japan
1990-2010	*A-line* Monitoring: Japan-JGOFS related project. Monitoring program of biological processes in the Oyashio region
1992-1993	SARES: Member. A joint Canada-Japan project conducted on the first-year ice of Saroma-ko Lagoon and Resolute Passage, Ministry of Education, Culture and Sports of Japan
1990-1998	Global Environmental Research Fund project, Effects of Enhanced UV-B radiation on terrestrial and marine ecosystem, funded from Ministry of Environment.
1990-1998	BIOCOSMOS: Member, Comprehensive Program of Research for Agro-Ecological System and Optimum Control. Ministry of Agriculture, Forests and Fisheries of Japan.

Refereed Publications:

*: top 10% most cited, **: top 1% most cited by Scopus® as of April 2022.

1. Jiang, S., Hashihama, F., Masumoto, Y., Liu, H., Ogawa, H., Saito, H. (2022)

Phytoplankton dynamics as a response to physical events in the oligotrophic Eastern Indian Ocean. Progress in Oceanography 203, 102784 https://doi.org/10.1016/j.pocean.2022.102784

2. Liu, A. C. H., Chang, F. H., Yang, J. W. Saito, H., Umezawa, Y., Chen, C. C., Jan, S., Hsieh, C. H. (2022) Free-living marine bacterioplankton composition and diversity along the Kuroshio region. Deep-Sea. Research I. 183. 103741 https://doi.org/10.1016/j.dsr.2022.103741
3. Isaji, Y., Yoshikawa, C., Ogawa, N. ,. O., Matsumoto, K., Makabe, A., Toyoda, S., Ishikawa, N. F., Ogawa, H., Saito, H., Honda, M. C., Ohkouchi, N. (2022) Nitrogen sources for phytoplankton in the eastern Indian Ocean determined from δ15N of chlorophyll a and divinylchlorophyll a. Geochemistry, Geophysics, Geosystems, 23, e2021GC010057 https://doi.org/10.1029/2021GC010057
4. Hashihama, F., Yasuda, I., Kumabe, A. Sato, M., Sasaoka, H., Iida, Y., Shiozaki, T., Saito, H., Kanda, J., Furuya, K., Boyd, P., Ishii, M. (2021) Nanomolar phosphate supply and its recycling drive net community production in the subtropical North Pacific. Nature Communications 12, 3462 https://doi.org/10.1038/s41467-021-23837-y
5. Hashihama, F., Saito, H., Kodama, T., Yasui-Tamura, S., Kanda, J., Tanita, I., Ogawa, H., Woodward, E. M. S., Boyd, P. W., and Furuya, K. (2021) Cross-basin differences in the nutrient assimilation characteristics of induced phytoplankton blooms in the subtropical Pacific waters, Biogeosciences 18, 897–915, https://doi.org/10.5194/bg-18-897-2021
6. *Jiang, S., Hashihama, F., Saito, H. (2021) Phytoplankton growth and grazing mortality through the oligotrophic subtropical North Pacific. Journal of Oceanography 77, 505-521 https://doi.org/10.1007/s10872-020-00580-4
7. Hashihama, F., Saito, H., Shiozaki, T., Ehama, M., Suwa, S., Sugiyama, T., et al. (2020). Biogeochemical controls of particulate phosphorus distribution across the oligotrophic subtropical Pacific Ocean. Global Biogeochemical Cycles, 34, e2020GB006669. https://doi.org/10.1029/2020GB006669
8. Arifin, Z., and Saito, H. (2019). Bridging coastal research program between Indonesia and Japan. Marine Research in Indonesia, 44, 34-41. https://doi.org/10.14203/mri.v44i1.551
9. Hashihama, F., Suwa, S., Kanda, J., Ehama, M., Sakuraba, R., Kinouchi, S.,

Sato, M., Yamaguchi, T., Saito, H., Ogura, Y., Hayashi, T., Mori, H., Kurokawa, K., Suzuki, S., Hamasaki, K. (2019) Arsenate and microbial dynamics in different phosphorus regimes of the subtropical Pacific Ocean. Progress in Oceanography 176, 102-115. https://doi.org/10.1016/j.pocean.2019.05.007

10. *Takagi, H., Kimoto, K., Fujiki, T., Saito, H., Schmidt, C., Kucera, M.,Moriya, M. (2019) Characterizing photosymbiosis in modern planktonic foraminifera. Biogeosciences, 16, 3377-3396, https://doi.org/10.5194/bg-16-3377-2019
11. Michida, Y., et al. (2019). Guidelines for harmonizing ocean surface microplastic monitoring methods. Ministry of the Environment Japan, 71 pp. https://www.env.go.jp/en/water/marine_litter/guidelines/guidelines.pdf
12. Bograd, S. J., Kang, S., Di Lorenzo, E., Horii, T., Katugin, O. N., King, J. R., Lobanov, V. B., Makino, M., Na, G., Perry, R. I., Qiao, F., Rykaczewski, R. R., Saito, H., Therriault, T. W., Yoo, S., Batchelder, H. (2019). Developing a Social–Ecological–Environmental System Framework to Address Climate Change Impacts in the North Pacific. Front. Mar. Sci. 6:333. https://doi.org/10.3389/fmars.2019.00333
13. Sogawa, S., Hidaka, K., Kamimura, Y.., Takahashi, M., Saito, H., Okazaki, Y., Shimizu, Y., Setou, T. (2019) Environmental characteristics of spawning and nursery grounds of Japanese sardine and mackerels in the Kuroshio and Kuroshio Extension area. Fish. Oceanogr. 2019; 28: 454– 467 https://doi.org/10.1111/fog.12423
14. *Saito, H. (2019) The Kuroshio: its recognition, scientific activities and emerging issues. In Kurosho Current (eds T. Nagai, H. Saito, K. Suzuki and M. Takahashi) AGU-Wiley Geophysical Monograph 243, pp3-11, AGU and John Wiley and Sons, Hobokern, USA. https://doi.org/10.1002/9781119428428.ch1
15. *Okazaki, Y., Miyaoto, H., Suzuki, K., Saito, H., Hidaka, K., and Ichikawa, T. (2019), Diverse trophic pathways from zooplankton to larval and juvenile fishes in the Kuroshio ecosystem. In Kurosho Current (eds T. Nagai, H. Saito, K. Suzuki and M. Takahashi) AGU-Wiley Geophysical Monograph 243, pp257-272, AGU and John Wiley and Sons, Hobokern, USA. https://doi.org/10.1002/9781119428428.ch15
16. Miyamoto, H., Vijai, D., Okazaki, Y., Saito, H. (2019) Feeding ecology of chaetognath Flaccisagitta enflata in Kuroshio region, western North Pacific. In Kurosho Current (eds T. Nagai, H. Saito, K. Suzuki and M. Takahashi) AGU-

Wiley Geophysical Monograph 243, pp245-256, AGU and John Wiley and Sons, Hobokern, USA. https://doi.org/10.1002/9781119428428.ch16

17. Isada, T, Hattori-Saito, A., Saito, H., Kondo, Y., Nishioka, J., Kuma, K., Hattori, H., McKay, R.M.L., Suzuki, K. (2019) Responses of phytoplankton assemblages to iron availability and mixing water masses during the spring bloom in the Oyashio region, NW Pacific. Limnology and Oceanography, 64, 194-216 https://doi.org/10.1002/lno.11031
18. Shiozaki, T., Bombar, D., Riemann, L., Sato, M., Hashihama, F., Kodama, T., Tanita, I., Takeda, S., Saito, H., Hamasaki, K., Furuya, K. (2018). Linkage between dinitrogen fixation and primary production in the oligotrophic South Pacific Ocean, Global Biogeochemical Cycles 32, https://doi.org/10.1029/2017GB005869
19. Yamashita, Y., Hashihama, F., Saito, H.., Fukuda, H., Ogawa, H. (2017) Factors controlling the geographical distribution of fluorescent dissolved organic matter in the surface waters of the Pacific Ocean. Limnology and Oceanography 62, 2360-2374. https://doi.org/10.1002/lno.10570
20. Cheung, S., K. Suzuki, H. Saito, Y. Umezawa, X. Xia, and H. Liu (2017) Highly heterogeneous diazotroph communities in the Kuroshio Current and the Tokara Strait, Japan. PLOS ONE, 12, e0186875, https://doi.org/10.1371/journal.pone.0186875
21. Nishibe, Y., Takahashi, K., Sato, M., Kodama, T., Kakehi, S., Saito, H., Furuya, K. (2017) Phytoplankton community structure, as derived from pigment signatures, in the Kuroshio Extension and adjacent regions in winter and spring. Journal of Oceanography. https://doi.org/10.1007/s10872-017-0415-3
22. Saito, H. (2016) Plankton Net. In: Guideline of Ocean Observations Volume 6, Plankton and Benthos, The Oceanographic Society of Japan, ISBN 978-4-908553-27-1, G601EN:001-009. https://kaiyo-gakkai.jp/jos/en/guide/download
23. Ehama, M., Hashihama, F., Kinouchi, S., Kanda, J., Saito, H. (2016) Sensitive determination of total particulate phosphorus and particulate inorganic phosphorus in seawater using liquid waveguide spectrophotometry. Talanta 153, 66-70. https://doi.org/10.1016/j.talanta.2016.02.058
24. Sogawa, S., Sugisaki, H., Saito, H., Okazaki, Y., Ono, T., Shimode, S., Kikuchi, T.

(2016) Seasonal and regional change in vertical distribution and diel vertical migration of four euphausiid species (*Euphausia pacifica, Thysanoessa inspinata, T. longipes*, and *Tessarabrachion oculatum*) in the northwestern Pacific. Deep Sea Research Part I: Oceanographic Research Papers 109, 1-9. https://doi.org/10.1016/j.dsr.2015.12.010

25. Blasiak, R, Pacheco, E., Furuya, K., Golden, C. D., Jauharee, A. R., Natori, Y., Saito, H., Sinan, H., Tanaka, T., Yagi, N., Yiu, E. (2016). Local and regional experiences with assessing and fostering ocean health. Marine Policy 71, 54-59. https://doi.org/10.1016/j.marpol.2016.05.011
26. Nishibe, Y., Takahashi, K., Shiozaki, T., Kakehi, S., Saito, H., Furuya, K.(2015) Size-fractionated primary production in the Kuroshio Extension and adjacent regions in spring. Journal of Oceanography 71, 27-40. https://doi.org/10.1007/s10872-014-0258-0
27. Yamashita, Y., Lu, C.-J., Ogawa, H., Nishioka, J., Obata, H., Saito, H. (2015) Application of in situ fluorometer for determining distribution of fluorescent organic matter in the open ocean. Marine Chemistry 177, 295-305. https://doi.org/10.1016/j.marchem.2015.06.025
28. Itoh, S., Yasuda, I., Saito, H., Tsuda, A., Komatsu, K. (2015) Mixed layer depth and chlorophyll a: profiling float observations in the Kuroshio-Oyashio Extension region. Journal of Marine Systems 151, 1-14. https://doi.org/10.1016/j.jmarsys.2015.06.004
29. Tsuda, A., Saito, H., Kasai, H., Nishioka, J., Nakatsuka, T. (2015) Vertical segregation and population structure of ontogenetically migrating copepods *Neocalanus cristatus, N. flemingeri, N. plumchrus* and *Eucalanus bungii* during ice-free season in the Sea of Okhotsk. Journal of Oceanography 71, 271-285. https://doi.org/10.1007/s10872-015-0287-3
30. Hashihama, F., Kanda, J., Tauchi, A., Kodama, T., Saito, H., Furuya, K. (2015) Liquid waveguide spectrophotometric measurement of nanomolar ammonium in seawater based on the indorphenol reaction with *o*-phenylphenol (OPP). Talanta, 143 374-380. https://doi.org/10.1016/j.talanta.2015.05.007
31. Kakehi, S., Ito, S., Kuwata, A., Saito, H., Tadokoro, K. (2015) Phytoplankton distribution during the winter convective season in Sendai Bay, Japan. Continental Shelf Research 97, 43-53. http://dx.doi.org/10.1016/j.csr.2015.02.005

32. Nishibe, Y., Takahashi, K., Ichikawa, T., Hidaka, K., Kurogi, H., Segawa, K., Saito, H. (2015) Degradation of discarded appendicularian houses by oncaeid copepods. Limnology and Oceanography 60, 967-976. https://doi.org/10.1002/lno.10061

33. Yoshimura, T., Nishioka, J., Ogawa, H., Kuma, K., Saito, H., Tsuda, A. (2014) Dissolved organic phosphorus production and decomposition during open ocean diatom blooms in the subarctic Pacific. Marine Chemistry 165: 46-54. https://doi.org/10.1016/j.marchem.2014.08.003

34. Tsuda, A., Saito, H., Kasai, H. (2014) Vertical distributions of large ontogenetically migrating copepods in the Oyashio region during their growing season. Journal of Oceanography 70, 123-132. https://doi.org/10.1007/s10872-013-0214-4

35. Nosaka, Y., Isada, T., Kudo, I., Saito, H., Hattori, H., Tsuda, A., Suzuki, K. (2014). Light utilization efficiency of phytoplankton in the Western Subarctic Gyre of the North Pacific during summer. Journal of Oceanography 70, 91-103. https://doi.org/10.1007/s10872-013-0217-1

36. Shiozaki, T., Ito, S., Takahashi, K., Saito, H., Nagata, T., Furuya, K. (2014) Regional variability of factors controlling the onset timing and magnitude of spring algal blooms in the northwestern North Pacific. J. Geophys, Res., Oceans. 119,1-13, https://doi.org/10.1002/2013JC009187

37. *Yamashita, Y., Nosaka, Y., Suzuki, K., Ogawa, H., Takahashi, K., Saito, H. (2013) Photobleaching as a factor controlling spectral characteristics of chromophoric dissolved organic matter in open ocean. Biogeosciences 10, 7207-7217 https://doi.org/10.5194/bg-10-7207-2013

38. Takahashi, K., Ichikawa, T., Saito, H., Kakehi, S., Sugimoto, Y., Hidaka, K., Hamasaki, K. (2013). Sapphirinid copepods as predators of doliolids: Their role in doliolid mortality and sinking flux. Limnology and Oceanography 58, 1972-1984. https://doi.org/10.4319/lo.2013.58.6.1972

39. Sogawa, S., Sugisaki, H., Saito, H., Okazaki, Y., Shimode, S., Kikuchi, T. (2013). Congruence between euphausiid community and water region in the northwestern Pacific. Particularly in the Oyashio-Kuroshio Mixed Water Region. Journal of Oceanography 69, 71-85 https://doi.org/10.1007/s10872-012-

0158-0

40. Kondo, Y., Takeda, S., Nishioka, J., Sato, M., Saito, H., Suzuki, K., Furuya, K. (2013) Growth stimulation and inhibition of natural phytoplankton communities by model organic ligands in the western subarctic Pacific. Journal of Oceanography 69, 97-115 10.1007/s10872-012-0160-6 https://doi.org/10.1007/s10872-012-0160-6

41. Yamada, N., Fukuda, H., Ogawa, H., Saito, H., Suzumura, M. (2012) Heterotrophic bacterial production and extracellular enzymatic activity in sinking particulate matter in the western North Pacific Ocean. Frontiers in Microbiology 3:379. https://doi.org/10.3389/fmicb.2012.00379

42. Suzuki, K., Kuwata, A., Yoshie, N., Shibata, A., Kawanobe, K., Saito, H. (2011) Population dynamics of phytoplankton, heterotrophic bacteria, and viruses during the spring bloom in the western subarctic Pacific. Deep-Sea Research Part I. 58, 575-589. https://doi.org/10.1016/j.dsr.2011.03.003

43. *Nishioka, J., Ono, T., Saito, H., Sakaoka, K.,Yoshimura, T. (2011) Oceanic iron supply mechanisms which support the spring diatom bloom in the Oyashio region, western subarctic Pacific. Journal of Geophysical Research, Oceans. 116, C02021 https://doi.org/10.1029/2010JC006321

44. Ito, S., Yoshie, N., Okunishi, T., Ono, T., Okazaki, Y., Kuwata, A., Hashioka, T., Rose, K. A., Megrey, B. A., Kishi, M. J., Nakamachi, M., Shimizu, Y., Kakehi, S., Saito, H., Takahashi, K., Tadokoro, K., Kusaka, A., Kasai, H. (2010) Application of an automatic approach to calibrate the NEMURO nutrient-hytoplankton-zooplankton food web model in the Oyashio region. Progress in Oceanography 87, 186-200. https://doi.org/10.1016/j.pocean.2010.08.004

45. Isada, T., Hattori-Saito, A., Saito, H., Ikeda, T., Suzuki, K. (2010) Primary productivity and its bio-optical modeling in the Oyashio region, NW Pacific during the spring bloom 2007. Deep-Sea Research II 57, 1653-1664. https://doi.org/10.1016/j.dsr2.2010.03.009

46. Tatebe, H., Yasuda, I., Saito, H., Shimizu, Y. (2010) Horizontal transport of the calanoid copepod *Neocalanus* in the North Pacific: The influences of the current system and the life history. Deep-Sea Research I 57, 409-419. https://doi.org/10.1016/j.dsr.2009.11.009

47. Yoshie, N., Suzuki, K., Kuwata, A., Nishioka, J., Saito, H. (2010) Temporal and spatial variations in photosynthetic physiology of diatoms during the spring bloom in the western subarctic Pacific. Marine Ecology Progress Series 399, 39-52. https://doi.org/10.3354/meps08329
48. Nagao, I., Hashimoto, S., Suzuki, K., Toda, S., Narita, Y., Tsuda, A., Saito, H., Kudo, I., Kato, S., Kajii, Y., Uematsu, M. (2009) Responses of DMS in the seawater and atomophere to iron enrichment in the subarctic western North Pacific (SEEDS-II). Deep-Sea Research II 56, 2899-2917 https://doi.org/10.1016/j.dsr2.2009.07.001
49. Saito, H., Tsuda, A., Nojiri, Y., Aramaki, T., Ogawa, H., Yoshimura, T., Imai, K., Kudo, I., Nishioka, J., Ono, T., Suzuki, K., Takeda, S. (2009) Biogeochemical cycling of N and Si during the mesoscale iron-enrichment experiment in the western subarctic Pacific (SEEDS-II). Deep-Sea Research II, 56 2852-2862 https://doi.org/10.1016/j.dsr2.2009.06.010
50. Tsuda, A. Saito, H., Machida, R., Shimode, S. (2009) Meso- and microzooplankton responses to an in situ iron fertilization experiment (SEEDS II) in the northwest subarctic Pacific. Deep-Sea Research II 56, 2767-2778 https://doi.org/10.1016/j.dsr2.2009.06.004
51. Suzuki, K., Saito, H., Isda, T., Hattori-Saito, A., Kiyosawa, H., Nishioka, J., McKay, R. M. L., Kuwata, A., Tsuda, A. (2009)　Community structure and photosynthetic physiology of phytoplankton in the northwest subarctic Pacific during an in situ iron fertilization experiment (SEEDS-II). Deep-Sea Research II 56, 2733-2744. https://doi.org/10.1016/j.dsr2.2009.06.001
52. Uematsu, M., Tsuda, A., Wells, M L., Saito, H. (2009). Introduction to subarctic iron enrichment for ecosystem dynamics study II (SEEDS II). Deep-Sea Research II 56, 2731-2732. https://doi.org/10.1016/j.dsr2.2009.07.006
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