

## 研究論文等（英文）

### 2024

- Doi, T., S. K. Behera, T. Yamagata (2024), Seasonal predictability of the extreme Pakistani rainfall of 2022 possible contributions from the northern coastal Arabian Sea temperature, *npj Climate and Atmospheric Science*, 7, 13 (2024). <https://doi.org/10.1038/s41612-023-00557-2>
- Fujii, Y., E. Remy, M. A. Balmaseda, S. Kido, J. Waters, K. A. Peterson, G. C. Smith, I. Ishikawa, and K. Chikhar (2024), The international multi-system OSSEs/OSSEs by the UN Ocean Decade Project SynObs and its early results, *Front. Mar. Sci.*, <https://doi.org/10.3389/fmars.2024.1476131>
- Hyogo, S., Y. Nakayama, and V. Mensah (2024), Modeling Ocean Circulation and Ice Shelf Melt in the Bellingshausen Sea, *Journal of Geophysical Research Oceans*, 129, e2022JC019275. <https://doi.org/10.1029/2022JC019275>.
- Ishikawa, I., Y. Fujii, E. De Boisseson, Y. Wang, and H. Zuo (2024), Evaluation of the effects of Argo data quality control on global ocean data assimilation systems, *Front. Mar. Sci.*, <https://doi.org/10.3389/fmars.2024.1496409>
- Ito, D., Y. Shimizu, T. Setou, A. Kusaka, D. Ambe, Y. Hiroe, K. Hidaka, S. Sogawa, and T. Yamaguchi (2024), Temporal variation of the 2017 Kuroshio large meander based on repeated surveys along 138°E, *Journal of Oceanography*, 80, 197–217, <https://doi.org/10.1007/s10872-024-00718-8>.
- Iwasaka, N., F. Kobashi, and Y. Kawai (2024), Variations in the Central Mode Water in the North Pacific as a manifestation of the Pacific Decadal Oscillation, *Journal of Oceanography*, <https://doi.org/10.1007/s10872-024-00725-9>
- Kawai, Y., S. Katsura, and S. Hosoda (2024), Spatiotemporal Variations in Upper - Ocean Salinity Over the North Pacific in 2004–2021. *Journal of Geophysical Research Oceans*, 129 (4), <https://doi.org/10.1029/2023JC020309>.
- Kawakami, Y., H. Nakano, L. S. Urakawa, T. Toyoda, K. Aoki, N. Hirose, and Norihisa Usui (2024), Temporal changes of the Oyashio water distribution east of Japan under the changing climate: development of an objective evaluation method and its application, *Journal of Oceanography*, <https://doi.org/10.1007/s10872-024-00727-7>.
- Li, Zimeng and H. Aiki (2024), Interpreting Negative IOD Events Based on the Transfer Routes of Wave Energy in the Upper Ocean, *Journal of Physical Oceanography*, 54, <https://doi.org/10.1175/JPO-D-22-0267.1>
- Lu, X., T. Doi, C. Yuan, J. - J. Luo, S. K Behera, T. Yamagata (2024), Anatomy of the 2022 scorching summer in the Yangtze River basin using the SINTEX - F2 seasonal prediction system, *Geophysical Research Letters*, 51 (15), ce2024GL109554
- Nagano, A., M. Kitamura, K. Watari, and I. Ueki (2024), Kuroshio Extension cold-core ring and wind drop-off observed in 2021–2022 winter, *Progress in Earth and Planetary Science*, 11(48), doi:10.1186/s40645-024-00649-4
- Ohnishi, S., T. Miyoshi, and M. Kachi (2024), Impact of atmospheric forcing on SST in the LETKF-based ocean research analysis (LORA). *Ocean Modelling*, doi:10.1016/j.ocemod.2024.102357
- Ohishi, S., T. Miyoshi, T. Ando, T. Higashiuwatoko, E. Yoshizawa, H. Murakami, and M. Kachi (2024),

LETKF-based Ocean Research Analysis (LORA) version 1.0, Geoscience Data Journal, 11, 995–1006, doi:10.1002/gdj3.271

Richter, I., J. V Ratnam, P. Martineau, P. Oettli, T. Doi, T. Ogata, T. Kataoka, F. Counillon (2024), A Simple Statistical Postprocessing Scheme for Enhancing the Skill of Seasonal SST Predictions in the Tropics, Monthly Weather Review, 152 (4), 1039-1056, <https://doi.org/10.1175/MWR-D-23-0266.1>

Setiawan, R. Y., R. D. Susanto, T. Horii, I. Alifdini, E. Siswanto, Q. W. Sari, A. Wirasatriya, and C. Aryudiawan (2024), The Fujiwhara effect on ocean biophysical variables in the southeastern tropical Indian Ocean region, Journal of Marine Systems, 245, <https://doi.org/10.1016/j.jmarsys.2024.103990>

Sugiura, N., S. Kouketsu and S. Osafune (2024), Ocean data assimilation focusing on integral quantities characterizing observation profiles, Front. Mar. Sci., 11:1398901. doi: 10.3389/fmars.2024.1398901.

Tohjima, Y., T. Shirai, M. Ishizawa, H. Mukai, T. Machida, M. Sasakawa, Y. Terao, K. Tsuboi, S. Takao, and S. Nakaoka (2024), Observed APO seasonal cycle in the Pacific: Estimation of autumnO2 oceanic emissions. Global Biogeochemical Cycles, 38,e2024GB008230. <https://doi.org/10.1029/2024GB008230>.

Toyoda, T., K. Sakamoto, T. Toyota, H. Tsujino, L.S. Urakawa, Y. Kawakami, A. Yamagami, K.K. Komatsu, G. Yamanaka, T. Tanikawa, R. Shimada, and H. Nakano (2024), Improvement of sea ice thermodynamics with variable sea ice salinity and melt pond parameterizations in an OGCM, Ocean Model., 187, 102288, doi: <https://doi.org/10.1016/j.ocemod.2023.102288>

Yamaguchi, R., S. Kouketsu, N. Kosugi and M. Ishii (2024), Global upper ocean dissolved oxygen budget for constraining the biological carbon pump, Communications Earth & Environment, 5, 732, <https://doi.org/10.1038/s43247-024-01886-7>

## 2023

Baba, Y. (2023), The Merits of Ocean Prediction for the Prediction of 2010, 2016, and 2021 Summer Heavy Rainfall Events in Japan. Tellus A: Dynamic Meteorology and Oceanography, 75(1), 50–68. DOI: <https://doi.org/10.16993/tellusa.1147>

Fujii, Y. T. Yoshida, H. Sugimoto, I. Ishikawa, and S. Urakawa, (2023), Evaluation of a global ocean reanalysis generated by a global ocean data assimilation system based on a four-dimensional variational (4DVAR) method. Frontiers in Climate, 4, 1019673. DOI: 10.3389/fclim.2022.1019673.

Horii, T., I. Ueki, E. Siswanto, and I. Iskandar (2023), Long-term shift and recent early onset of chlorophyll-a bloom and coastal upwelling along the southern coast of Java, Frontiers in Climate, 5, <https://doi.org/10.3389/fclim.2023.1050790>.

Kataoka, T., T. Suzuki and H. Tatebe (2023), Rainfall-mixed layer-SST feedback contributing to Atlantic meridional mode development, Journal of Climate, 36 (3), 899-915, <https://doi.org/10.1175/JCLI-D-21-1010.1>.

Kato, Y., T. Shitamitsu, M. Okazaki, H. Yamashita (2023), Summer habitat and fishing ground of

- Ommastrephes bartramii related with the North Pacific subarctic frontal zone using long-term field research data, *Japan Agricultural Research Quarterly*, 57 (2), 145-152, <https://doi.org/10.6090/jarq.57.145>
- Katsura, S., J. Sprintall, S. Kido, Y. Tanimoto, and M. Nonaka (2023), Classification of Interannual Surface Layer Salinity Variability, *Geophysical Research Letters*, 50, e2022GL102261. <https://doi.org/10.1029/2022GL102261>.
- Kido, S., S. Katsura, M. Nonaka, and Y. Tanimoto, 2023: Mechanism and impact of zonally contrasting seasonal variations in sea-surface salinity in the North Pacific and North Atlantic oceans. *Progress In Oceanography*, 219, 103124, <https://doi.org/10.1016/j.pocean.2023.103124>
- Kobayashi, T. (2023), “Changes in Antarctic Bottom Water off the Wilkes Land coast in the Australian-Antarctic Basin”, *Deep-Sea Research Part-I*, 195, 104040, <https://doi.org/10.1016/j.dsr.2023.104040>.
- Masuda, S., M. Kobayashi, L. A. Icochea Salas, G. M. Rosales Quintana (2023), Possible link between temperatures in the seashore and open ocean waters of Peru identified by using new seashore water data, *Prog. Earth Planet Sci.*, 10, 38, DOI:10.1186/s40645-023-00571-1.
- Nishikawa, H., E. Oka, and S. Sugimoto, 2023: Subtropical Mode Water in a recent persisting Kuroshio large-meander period: Part II — formation and temporal evolution in the Kuroshio recirculation gyre off Shikoku. *Journal of Oceanography*, 79, 461-471.
- Ohishi, S., T. Miyoshi, and M. Kachi (2023), LORA: A local ensemble transform Kalman filter-based ocean research analysis, *Ocean Dynamics*, 73, 117–143, <https://doi.org/10.1007/s10236-023-01541-3>
- Oka, E., S. Sugimoto, F. Kobashi, H. Nishikawa, S. Kanada, T. Nasuno, R. Kawamura, and M. Nonaka, 2023: Subtropical Mode Water south of Japan impacts typhoon intensity. *Science Advances*, 9, eadi2793. <https://www.science.org/doi/10.1126/sciadv.adi2793>
- Oyabu R., I. Yasuda and Y. Sasaki (2023), Large-scale distribution and variations of active salt-finger double-diffusion in the western North Pacific. *J. Phys. Oceanogr.*, in press, May 29, DOI: 10.1175/JPO-D-22-0244.1
- Pan, X.L., X. Lai, R. Makabe, D. Hirano, and Y.W. Watanabe, 2023: Spatiotemporal high-resolution mapping of biological production in the Southern Ocean. *Commun Earth Environ* 4, 488 (2023). <https://doi.org/10.1038/s43247-023-01067-y>
- Senju, T. and K. Shiota (2023), Revisit the upper portion of the Japan Sea Proper Water: A recent structural change and freshening in the formation area, *Journal of Geophysical Research: Oceans*, 128, e2022JC019094. <https://doi.org/10.1029/2022JC019094>.
- Karina von Schuckmann, A. Mini  re, F. Gues, F.J. Cuesta-Valero, G. Kirchengast, S. Adusumilli, F. Straneo, M. Ablain, R. P. Allan, P. M. Barker, H. Beltrami, A. Blazquez, T. Boyer, L. Cheng, J. Church, D. Desbruyeres, H. Dolman, C. M. Domingues, A. Garc  a-Garc  a, D. Giglio, J. E. Gilson, M. Gorfer, L. Haimberger, M. Z. Hakuba, S. Hendricks, S. Hosoda, G. C. Johnson, R. Killick, B. King, N. Kolodziejczyk, A. Korosov, G. Krinner, M. Kuusela, F. W. Landerer, M. Langer, T. Lavergne, I. Lawrence, Y. Li, J. Lyman, F. Marti, B. Marzeion, M. Mayer, A. H. MacDougall, T.

- McDougall, D. Paolo Monselesan, J. Nitzbon, I. Otosaka, J. Peng, S. Purkey, D. Roemmich, K. Sato, K. Sato, A. Savita, A. Schweiger, A. Shepherd, S. I. Seneviratne, L. Simons, D. A. Slater, T. Slater, A. K. Steiner, T. Suga, T. Szekely, W. Thiery, M-L. Timmermans, I. Vanderkelen, S. E. Wijffels, T. Wu, and M. Zemp (2023), Heat stored in the Earth system 1960-2020: where does the energy go?, *Earth System Science Data*, 15(4), 1675-1709, <https://doi.org/10.5194/essd-15-1675-2023>
- Takahashi, N., KJ. Richards, N. Schneider, M. Stuecker, H. Annamalai, M. Nonaka (2023), Observed Relative Contributions of Anomalous Heat Fluxes and Effective Heat Capacity to Sea Surface Temperature Variability, *GEOPHYSICAL RESEARCH LETTERS*, <http://dx.doi.org/10.1029/2023GL103165>
- Xing Q., H. Yu, S. Ito, and F. Chai (2023), Mesoscale eddies modulate the dynamics of human fishing activities in the global midlatitude ocean., *Fish and Fisheries*, 24, <https://doi.org/10.1111/faf.12742>.
- Yamazaki, K., S. Aoki, and K. Mizobata (2023), Diffusion of Circumpolar Deep Water towards Antarctica. *Journal of Geophysical Research: Oceans*, 128, e2022JC019422.

## 2022

- Chen, J., X.-H. Zhu, M. Wang, H. Zheng, R. Zhao, H. Nakamura, and T. Yamashiro (2022), Incoherent signatures of internal tides in the Tokara Strait modulated by the Kuroshio, *Prog. Oceanogr.*, 206, 102863, doi: <https://doi.org/10.1016/j.pocean.2022.102863>
- Doi, T. and S. Behera (2022), Impacts of Interannual Variations of Chlorophyll on Seasonal Predictions of the Tropical Pacific, *Frontiers in Climate*, <https://doi.org/10.3389/fclim.2022.868594>
- Doi, T., S. K. Behera, and T. Yamagata (2022), On the predictability of the extreme drought in East Africa during the short rains season, *Geophysical Research Letters*, <https://doi.org/10.1029/2022GL100905>
- Doi, T., M. Nonaka and S. Behera (2022), Can signal-to-noise ratio indicate prediction skill? Based on skill assessment of 1-month lead prediction of monthly temperature anomaly over Japan, *Frontiers in Climate*, <https://doi.org/10.3389/fclim.2022.887782>
- Fujiki, T., S. Hosoda, and N. Harada (2022), Phytoplankton blooms in summer and autumn in the northwestern subarctic Pacific detected by the mooring and float systems, *J. Oceanogr.*, 78(2), 63-72, doi: <https://doi.org/10.1007/s10872-021-00628-z>
- He, Y., J. Wang, F. Wang, and T. Hibiya (2022), Spatial distribution of turbulent diapycnal mixing along the Mindanao current inferred from rapid-sampling Argo floats, *J. Oceanogr.*, 78(1), 35-48, doi: <https://doi.org/10.1007/s10872-021-00624-3>
- Hermanson, L., D. Smith, M. Seabrook, R. Bilbao, F. Doblas-Reyes, E. Tourigny, V. Lapin, V.V. Kharin, W. J. Merryfield, R. Sospedra-Alfonso, T. Athanasiadis, P., Nicoli, D., Gualdi, S., Dunstone, N., Eade, R., Scaife, A., Collier, M., O'Kane, V. Kitsios, P. Sandery, K. Pankatz, B. Früh, H.

- Pohlmann, W. Müller, T. Kataoka, H. Tatebe, M. Ishii, Y. Imada, T. Kruschke, T. Koenigk, M. P. Karami, S. Yang, T. Tian, L. Zhang, T. Delworth, X. Yang, F. Zeng, Y. Wang, F. Counillon, N. Keenlyside, I. Bethke, J. Lean, J. Luterbacher, R. K. Kolli, and A. Kumar (2022), WMO global annual to decadal climate update: A prediction for 2021–25, *Bulletin of the American Meteorological Society*, 103, E1117-E1129, <https://doi.org/10.1175/BAMS-D-20-0311.1>.
- Hirahara, S., Y. Kubo, T. Yoshida, T. Komori, J. Chiba, T. Takakura, T. Kanehama, R. Sekiguchi, K. Ochi, H. Sugimoto, Y. Adachi, I. Ishikawa, and Y. Fujii (2022), Japan Meteorological Agency/Meteorological Research Institute Coupled Prediction System version 3 (JMA/MRI-CPS3). *Journal of the Meteorological Society of Japan*, 101, 149-169. DOI: 10.2151/jmsj.2023-009.
- Iskandar, M. R., and T. Suga (2022), Change in Salinity of Indonesian Upper Water in the Southeastern Indian Ocean during Argo Period, *Helyon*, 8(9), e10430, doi: <https://doi.org/10.1016/j.heliyon.2022.e10430>
- Isobe, A. and S. Iwasaki (2022), The fate of missing ocean plastics—Are they just a marine environmental problem?, *Science of the Total Environment*, 825, 153935, 2022, <https://doi.org/10.1016/j.scitotenv.2022.153935>.
- Johnson, G. C., S. Hosoda, S. R. Jayne, P. R. Oke, S. C. Riser, D. Roemmich, T. Suga, V. Thierry, S. E. Wijffels, and J. Xu (2022), Argo—Two Decades: Global Oceanography, Revolutionized, *Annual Review of Marine Science*, 14(1), 379-403, doi: <https://doi.org/10.1146/annurev-marine-022521-102008>
- Kawai, Y., A. Nagano, T. Hasegawa, H. Tomita and M. Tani (in press), Decadal changes in the basin-wide heat budget of the mid-latitude North Pacific Ocean, *J. Oceanogr.*, doi:10.1007/s10872-022-00667-0
- Kawakami, Y., A. Kojima, K. Murakami, T. Nakano, and S. Sugimoto (2022), Temporal variations of net Kuroshio transport based on a repeated hydrographic section along 137° E, *Climate Dynamics*, 59(5), 1703-1713, doi: <https://doi.org/10.1007/s00382-021-06061-8>
- Kido, S., M. Nonaka, and Y. Miyazawa (2022), JCOPE-FGO: an eddy-resolving quasi-global ocean reanalysis product, *Ocean Dyn.*, 72(8), 599-619, doi: <https://doi.org/10.1007/s10236-022-01521-z>
- Kouketsu, S., A. Murata, and K. Arulananthan (2022), Subsurface Water Property Structures Along 80°E Under the Positive Indian Ocean Dipole Mode in December 2019, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.848756>
- Li, Z., and H. Aiki (2022), The 1994 Positive Indian Ocean Dipole Event as Investigated by the Transfer Routes of Oceanic Wave Energy, *J. Phys. Oceanogr.*, 52(3), 459-473, doi: <https://doi.org/10.1175/JPO-D-21-0189.1>
- Lin, J., et al. (2022), Current Challenges in Climate and Weather Research and Future Directions, *Atmos.-Ocean*, 60(3-4), 506-517, doi: <https://doi.org/10.1080/07055900.2022.2079473>

- Miyamoto, A., H. Nakamura, T. Miyasaka, and Y. Kosaka (2022), Wintertime Weakening of Low-Cloud Impacts on the Subtropical High in the South Indian Ocean, *J. Clim.*, **35**(1), 323-334, doi: <https://doi.org/10.1175/JCLI-D-21-0178.1>
- Morioka, Y., Iovino, D., Cipollone, A., Masina, S., and Behera, S. K. (2022), Decadal Sea Ice Prediction in the West Antarctic Seas with Ocean and Sea Ice Initializations. *Communications Earth & Environment*, **3**(1), 1-10
- Moteki, Q. (2022), Validation of satellite-based sea surface temperature products against in situ observations off the western coast of Sumatra, *Scientific Reports*, **12**(1), 92, doi: <https://doi.org/10.1038/s41598-021-04156-0>
- Nagano, A., T. Hasegawa, and M. Wakita (2022), Spatiotemporal vertical velocity variation in the western tropical Pacific and its relation to decadal ocean variability, *Progress in Earth and Planetary Science*, Vol.9, Page number 57, doi:10.1186/s40645-022-00513-3
- Nagura, M., and S. Osafune (2022), Second Baroclinic Mode Rossby Waves in the South Indian Ocean, *J. Phys. Oceanogr.*, **52**(8), 1749-1773, doi: <https://doi.org/10.1175/JPO-D-21-0290.1>
- Nakanowatari, T., J. Xie, L. Bertino, M. Matsueda, A. Yamagami, and J. Inoue (2022), Ensemble forecast experiments of summertime sea ice in the Arctic Ocean using the TOPAZ4 ice-ocean data assimilation system, *Environmental Research*, **209**, 112769, doi: <https://doi.org/10.1016/j.envres.2022.112769>
- Ohishi, S., Hihara, T., Aiki, H., Ishizaka, J., Miyazawa, Y., Kachi, M., and Miyoshi (2022), T.: An ensemble Kalman filter system with the Stony Brook Parallel Ocean Model v1.0, *Geosci. Model Dev.*, **15**, 8395–8410, <https://doi.org/10.5194/gmd-15-8395-2022>
- Ohishi, S., T. Miyoshi, and M. Kachi (2022) An ensemble Kalman filter-based ocean data assimilation system improved by adaptive observation error inflation (AOEI), *Geoscientific Model Development*, **15**, 9057–9073, <https://doi.org/10.5194/gmd-15-9057-2022>
- Osafune, S., S. Kouketsu, T. Doi, N. Sugiura, and S. Masuda (2022), A global ocean state estimation using tidally induced vertical-mixing schemes, *Ocean Model.*, **179**, 102111, doi: <https://doi.org/10.1016/j.ocemod.2022.102111>
- Owens, W. B., N. Zilberman, K. S. Johnson, H. Claustre, M. Scanderbeg, S. Wijffels, and T. Suga (2022), OneArgo: A New Paradigm for Observing the Global Ocean, *Mar. Technol. Soc. J.*, **56**(3), 84-90, doi: <https://doi.org/10.4031/MTSJ.56.3.8>
- Ratnam, J.V., T. Doi, I. Richter, P. Oettli, M. Nonaka and S. K. Behera(2022), Using Selected Members of a Large Ensemble to Improve Prediction of Surface Air Temperature Anomalies Over Japan in the Winter Months From Mid-Autumn, *Frontiers in Climate*, <https://doi.org/10.3389/fclim.2022.919084>
- Sakamoto, T., M. Takahashi, M.-T. Chung, R. R. Rykaczewski, K. Komatsu, K. Shirai, T. Ishimura, and T. Higuchi (2022), Contrasting life-history responses to climate variability in eastern and western North Pacific sardine populations, *Nature Communications*, **13**(1), 5298, doi: <https://doi.org/10.1038/s41467-022-33019-z>

- Sambe, F. and T. Suga (2022), Unsupervised Clustering of Argo Temperature and Salinity Profiles in the Mid-Latitude Northwest Pacific Ocean and Revealed Influence of the Kuroshio Extension Variability on the Vertical Structure Distribution, *Journal of Geophysical Research: Oceans*, 127(3), e2021JC018138, doi: <https://doi.org/10.1029/2021JC018138>
- Sasaki, H., B. Qiu, P. Klein, M. Nonaka, and Y. Sasai (2022), Interannual Variations of Submesoscale Circulations in the Subtropical Northeastern Pacific, *Geophys. Res. Lett.*, 49(7), e2021GL097664, doi: <https://doi.org/10.1029/2021GL097664>
- Sasaki, Y.N. and Y. Iwai (2022), Two Pathways of Subsurface Spiciness Anomalies in the Subtropical South Pacific, *Frontiers in Climate*, doi: 10.4489/fclime.2022.897498
- Sato, T., T. Shiozaki, F. Hashihama, M. Sato, A. Murata, K. Sasaoka, S.-i. Umeda, and K. Takahashi (2022), Low Nitrogen Fixation Related to Shallow Nitracline Across the Eastern Indian Ocean, *Journal of Geophysical Research: Biogeosciences*, 127(10), e2022JG007104, doi: <https://doi.org/10.1029/2022JG007104>
- Senju, T. (2022), Changes in Mid-Depth Water Mass Ventilation in the Japan Sea Deduced From Long-Term Spatiotemporal Variations of Warming Trends, *Frontiers in Marine Science*, 8, doi: <https://doi.org/10.3389/fmars.2021.766042>
- Sugimoto, S. (2022), Decreasing Wintertime Mixed-Layer Depth in the Northwestern North Pacific Subtropical Gyre, *Geophys. Res. Lett.*, 49(2), e2021GL095091, doi: <https://doi.org/10.1029/2021GL095091>
- Tozuka, T., Y. Sasai, S. Yasunaka, H. Sasaki, and M. Nonaka (2022), Simulated decadal variations of surface and subsurface phytoplankton in the upstream Kuroshio Extension region, *Prog. in Earth and Planet. Sci.*, 9(1), 70, doi: <https://doi.org/10.1186/s40645-022-00532-0>
- Ueno, H., M. Oda, K. Yasui, R. Dobashi, and H. Mitsudera (2022), Global Distribution and Interannual Variation in the Winter Halocline, *J. Phys. Oceanogr.*, 52(4), 665-676, doi: <https://doi.org/10.1175/JPO-D-21-0056.1>
- Ushijima, Y., and Y. Yoshikawa (2022), Nonlinearly interacting entrainment due to shear and convection in the surface ocean, *Scientific Reports*, 12(1), 9899, doi: <https://doi.org/10.1038/s41598-022-14098-w>
- Wang, T., T. Suga, and S. Kouketsu (2022), Spiciness anomalies in the upper North Pacific based on Argo observations, *Frontiers in Marine Science*, 9, doi: <https://doi.org/10.3389/fmars.2022.1006042>
- Yasunaka, S., T. Ono, K. Sasaoka, and K. Sato (2022), Global distribution and variability of subsurface chlorophyll a concentrations, *Ocean Sci.*, 18, 255–268, <https://doi.org/10.5194/os-18-255-2022>.

## 2021

- Ando, K., et al. (2021), Half-Century of Scientific Advancements Since the Cooperative Study of the Kuroshio and Adjacent Regions (CSK) Programme – Need for a new Kuroshio Research, *Prog. Oceanogr.*, 193, 102513, doi: <https://doi.org/10.1016/j.pocean.2021.102513>

- Fujii, Y., T. Ishibashi, T. Yasuda, Y. Takaya, C. Kobayashi, and I. Ishikawa (2021), Improvements in tropical precipitation and sea surface air temperature fields in a coupled atmosphere–ocean data assimilation system, *Quarterly Journal of the Royal Meteorological Society*, 147, 1317-1343, DOI:10.1002/qj.3973
- Furue, R., M. Nonaka, and H. Sasaki (2021), On the statistics of the zonal jets in the eastern equatorial Pacific and eastern North Pacific in an ensemble of eddy-resolving ocean general circulation model runs, *Ocean Model.*, 159, 101761, doi: <https://doi.org/10.1016/j.ocemod.2021.101761>
- Grégoire, M., V. Garçon, H. Garcia, D. Breitburg, K. Isensee, A. Oschlies, M. Telszewski, A. Barth, H. Bittig, J. Carstensen, T. Carval, F. Chai, F. Chavez, D. Conley, L. Coppola, S. Crowe, K. Currie, M. Dai, B. Delflandre, B. Dewitte, R. Diaz, E. Garcia-Robledo, D. Gilbert, A. Giorgetti, R. Glud, D. Gutierrez, S. Hosoda, M. Ishii, G. Jacinto, C. Langdon, S. K. Lauvset, L. A. Levin, K. E. Limburg, H. Mertens, I. Montes, W. Naqvi, A. Paulmier, B. Pfeil, G. Pitcher, S. Pouliquen, N. Rabalais, C. Rabouille, V. Recape, M. Roman, K. Rose, D. Rudnick, J. Rummer, C. Schmechtig, S. Schmidtko, B. Seibel, C. Slomp, U. R. Sumalia, T. Tanhua, V. Thierry, H. Uchida, R. Wanninkhof and M. Yasuhara (2021), A Global Ocean Oxygen Database and Atlas for Assessing and Predicting Deoxygenation and Ocean Health in the Open and Coastal Ocean, *Front. Mar. Sci.*, 8:724913, doi: 10.3389/fmars.2021.72491
- Hosoda, S., R. Inoue, M. Nonaka, H. Sasaki, Y. Sasai, and M. Hirano (2021), Rapid water parcel transport across the Kuroshio Extension in the lower thermocline from dissolved oxygen measurements by Seaglider, *Progress in Earth and Planetary Science*, 8[16], 10.1186/s40645-021-00406-x
- Inoue, R., C. Sukigara, S. Bishop, E. Oka, and T. Nagai (2021), Geophysical and biogeochemical observations using BGC Argo floats in the western North Pacific during late winter and early spring. Part 1: Restratification processes of the surface mixed layer, *Ocean Sci. Discuss.*, 2021, 1-37, doi: <https://os.copernicus.org/preprints/os-2021-38/>.
- Iskandar, I., M. Nagura, and M. J. McPhaden (2021), Role of the eastern boundary-generated waves on the termination of 1997 Indian Ocean Dipole event, *Geosci. Lett.*, 8(1), 35, doi: <https://doi.org/10.1186/s40562-021-00205-8>
- Katsura, S., J. Sprintall, and F. M. Bingham (2021), Upper Ocean Stratification in the Eastern Pacific during the SPURS-2 Field Campaign, *Journal of Geophysical Research: Oceans*, <https://doi.org/10.1029/2020JC016591>
- Kawai, Y., S. Hosoda, K. Uehara, and T. Suga (2021), Heat and salinity transport between the permanent pycnocline and the mixed layer due to the obduction process evaluated from a grided Argo dataset, *Journal of Oceanography*, 77, 75-92, <https://doi.org/10.1007/s10872-020-00559-1>
- Kawai, Y. and S. Hosoda (2021), Global mapping of 10-day differences of temperature and salinity in the intermediate layer observed with Argo floats, *Journal of Oceanography*, 77, 879-895, doi:10.1007/s10872-021-000613-6.
- Kataoka, T., M. Kimoto, M. Watanabe, and H. Tatebe (2019), Wind-Mixed layer-SST Feedbacks in a tropical air-sea coupled system: Application to the Atlantic, *Journal of Climate*, 32, 3865-3881, doi: 10.1175/JCLI-D-18-0728.1.

- Kido, S., M. Nonaka, and Y. Tanimoto (2021), Impacts of salinity variation on the mixed-layer processes and sea surface temperature in the Kuroshio-Oyashio confluence region. *Journal of Geophysical Research: Oceans*, 126, e2020JC016914. <https://doi.org/10.1029/2020JC016914>
- Kido, S., M. Nonaka, and Y. Tanimoto (2021), Sea Surface Temperature–Salinity Covariability and Its Scale-Dependent Characteristics, *Geophys. Res. Lett.*, 48(24), e2021GL096010, doi: <https://doi.org/10.1029/2021GL096010>
- Kobashi, F., T. Nakano, N. Iwasaka, and T. Ogata (2021), Decadal-scale variability of the North Pacific subtropical mode water and its influence on the pycnocline observed along 137° E, *J. Oceanogr.*, 77(3), 487-503, doi: <https://doi.org/10.1007/s10872-020-00579-x>
- Kobayashi, C., Y. Fujii, and I. Ishikawa (2021), Improvements in tropical precipitation and sea surface air temperature fields in a coupled atmosphere–ocean data assimilation system. *Quarterly Journal of the Royal Meteorological Society*, 147, 1317-1343. DOI:10.1002/qj.3973
- Kobayashi, T. (2021), Salinity bias with negative pressure dependency caused by anisotropic cell model, *Deep-Sea Research Part-I*, 167, 103420, <https://doi.org/10.1016/j.dsr.2020.103420>.
- Kobayashi, T., K. Sato, and B.A. King (2021), Observed features of salinity bias with negative pressure dependency for measurements by SBE 41CP and SBE 61 CTD sensors on deep profiling floats, *Progress in Oceanography*, 198, 102686, <https://doi.org/10.1016/j.pocean.2021.102686>.
- Kouketsu, S. (2021), Inverse estimation of diffusivity coefficients from salinity distributions on isopycnal surfaces using Argo float array data, *J. Oceanogr.*, 77, 615–630, doi: <https://doi.org/10.1007/s10872-021-00595-5>
- Kuroda, H., and T. Setou (2021), Extensive Marine Heatwaves at the Sea Surface in the Northwestern Pacific Ocean in Summer 2021, *Remote Sensing*, 13(19), doi: <https://doi.org/10.3390/rs13193989>
- Kuroda, H., T. Azumaya, T. Setou and N. Hasegawa (2021), Unprecedented outbreak of harmful algae in Pacific coastal waters off southeast Hokkaido, Japan, during late summer 2021 after record-breaking marine heatwaves., *Journal of Marine Science and Engineering*, 9, 1335. <https://doi.org/10.3390/jmse9121335>
- Lu, X., C. Yuan, M. Yang, T. Doi, M. Wahiduzzaman, J. Luo (2021), Prediction of summer extreme hot days in China using the SINTEX-F2, *International Journal of Climatology*, <https://doi.org/10.1002/joc.7110>
- Masuda, S. and S. Osafune (2021), Ocean state estimations for synthesis of ocean-mixing observations, *Journal of Oceanography*, 77(3), 359-366, 10.1007/s10872-020-00587-x.
- Matsumoto, K., Y. Sasai, K. Sasaoka, E. Siswanto, and M. C. Honda (2021), The Formation of Subtropical Phytoplankton Blooms Is Dictated by Water Column Stability During Winter and Spring in the Oligotrophic Northwestern North Pacific, *Journal of Geophysical Research: Oceans*, 126(4), e2020JC016864, <https://doi.org/10.1029/2020JC016864>.
- Mensah V. and K. I. Ohshima (2021), Weakened overturning and tide control the properties of Oyashio Intermediate Water, a key water mass in the North Pacific, *Scientific Reports*, 11, 14526. <https://doi.org/10.1038/s41598-021-93901-6>.

- Mensah, V., Y. Nakayama, M. Fujii, Y. Nogi, and K. I. Ohshima (2021), Dense water downslope flow and AABW production in a numerical model: Sensitivity to horizontal and vertical resolution in the region off Cape Darnley polynya, *Ocean Model.*, 165, 101843, doi: <https://doi.org/10.1016/j.ocemod.2021.101843>
- Miyazawa, Y., S. M. Varlamov, T. Miyama, Y. Kurihara, H. Murakami, and M. Kachi (2021), A Nowcast/Forecast System for Japan's Coasts Using Daily Assimilation of Remote Sensing and In Situ Data, *Remote Sensing*, 13(13), doi: <https://doi.org/10.3390/rs13132431>
- Nagura, M. (2021). Spiciness anomalies of Subantarctic mode water in the south Indian Ocean. *J. Clim.*, Vol. 34, No. 10, pp. 3927-3953. <https://doi.org/10.1175/JCLI-D-20-0482.1>.
- Oka, E., H. Nishikawa, S. Sugimoto, B. Qiu, and N. Schneider (2021), Subtropical Mode Water in a recent persisting Kuroshio large-meander period. Part I: Formation and advection over the entire distribution region. *Journal of Oceanography*, 77, 781-795. <https://link.springer.com/article/10.1007/s10872-021-00608-3>
- Pradhan, M., S. A. Rao, T. Doi, P. A. Pillai, A. Srivastava, and S. Behera (2021), Comparison of MMCFS and SINTEX-F2 for seasonal prediction of Indian summer monsoon rainfall, *International Journal of Climatology*, <https://doi.org/10.1002/joc.7169>
- Roemmich, D., L. Tally, N. Zilberman, E. Osborne, K. S. Johnson, L. Barbero, H. C. Bittig, N. Briggs, A. J. Fassbender, G. C. Johnson, B. A. King, E. McDonagh, S. Purkey, S. Riser, T. Suga, Y. Takeshita, V. Thierry, S. Wijffels (2021), The technological, scientific, and sociological revolution of global subsurface ocean observing, *Rontiers in Ocean Observing: Documenting Ecosystems, Understanding Environmental Changes, Forecasting Hazards*. E.S. Kappel, S.K. Juniper, S. Seeyave, E. Smith, and M. Visbeck, eds, *A Supplement to Oceanography*, 34(4), 2-8, doi: <https://doi.org/10.5670/oceanog.2021.supplement.02-02> BGCArgo, DeepArgo
- Takahashi, N., T. Hayasaka, B. Qiu, and R. Yamaguchi (2021), Observed response of marine boundary layer cloud to the interannual variations of summertime Oyashio extension SST front, *Climate Dynamics*, doi: <https://doi.org/10.1007/s00382-021-05649-4>
- Toyoda, T., H. Nakano, H. Aiki, T. Ogata, Y. Fukutomi, Y. Kanno, L. S. Urakawa, K. Sakamoto, G. Yamanaka, and M. Nagura (2021), Energy flow diagnosis of ENSO from an ocean reanalysis, *J. Clim.*, 34(10), 4023-4042, doi: <https://doi.org/10.1175/JCLI-D-20-0704.1>
- Yamazaki, K., Aoki, S., Katsumata, K., Hirano, D., & Nakayama, Y. (2021), Multidecadal poleward shift of the southern boundary of the Antarctic Circumpolar Current off East Antarctica., *Science Advances*, 7(24), eabf8755, <https://doi.org/10.1126/sciadv.abf8755>
- Yasunaka, S., H. Mitsudera, F. Whitney, and S.-i. Nakaoka (2021), Nutrient and dissolved inorganic carbon variability in the North Pacific, *J. Oceanogr.*, 77(1), 3-16, doi: <https://doi.org/10.1007/s10872-020-00561-7>
- Xue, J., T. Doi, J. Luo, C. Yuan, and T. Yamagata (2021), Predictability of the Chile Niño/Niña, *Geophysical Research Letters*, <https://doi.org/10.1029/2021GL095309>

Zhang, Z.-L., H. Nakamura, and X.-H. Zhu (2021), Seasonal velocity variations over the entire Kuroshio path part I: data analysis and numerical experiments, *J. Oceanogr.*, 77(5), 719-744, doi: <https://doi.org/10.1007/s10872-021-00604-7>

## 2020

- Baba, Y. (2020), Roles of atmospheric variabilities in the formation of the Indian Ocean Dipole, *Ocean Dynamics*, 70, 21-39, <https://doi.org/10.1007/s10236-019-01318-7>.
- Doi, T., S. Behera, and T. Yamagata (2020), Wintertime Impacts of the 2019 Super IOD on East Asia, *Geophysical Research Letters*, <https://doi.org/10.1029/2020GL089456>
- Doi, T., S. Behera, and T. Yamagata (2020), Predictability of the Super IOD Event in 2019 and Its Link With El Niño Modoki, *Geophysical Research Letters*, <https://doi.org/10.1029/2019GL086713>
- Duran, E. R., H. E. Phillips, R. Furue, P. Spence, and N. L. Bindoff (2020), Southern Australia Current System based on a gridded hydrography and a high-resolution model, *Progress in Oceanography*, 181, 10.1016/j.pocean.2019.102254
- Hajima, T., M. Watanabe, A. Yamamoto, H. Tatebe, M. A. Noguchi, M. Abe, R. Ohgaito, A. Ito, D. Yamazaki, H. Okajima, A. Ito, K. Takata, K. Ogochi, S. Watanabe, and M. Kawamiya (2020), Development of the MIROC-ES2L Earth system model and the evaluation of biogeochemical processes and feedbacks, *Geosci. Model Dev.*, 13, 2197–2244, <https://doi.org/10.5194/gmd-13-2197-2020>.
- Horii, T., I. Ueki, and K. Ando (2020), Coastal upwelling events, salinity stratification, and barrier layer observed along the southwestern coast of Sumatra, *Journal of Geophysical Research: Oceans*, 125[12], 10.1029/2020JC016287
- Kataoka, T., H. Tatebe, H. Koyama, T. Mochizuki, K. Ogochi, H. Naoe, Y. Imada, H. Shiogoma, M. Kimoto, and M. Watanabe (2020), Seasonal to Decadal Predictions with MIROC6: Description and Basic Evaluation, *Journal of Advances in Modeling Earth Systems*, 12, e2019MS002035.
- Katsura, S. and J. Sprinall (2020), Seasonality and Formation of Barrier Layers and Associated Temperature Inversions in the Eastern Tropical North Pacific, *Journal of Physical Oceanography*, DOI: 10.1175/JPO-D-19-0194.1
- Katsura, S., H. Ueno, H. Mitsudera, and S. Kouketsu (2020), Spatial Distribution and Seasonality of Halocline Structures in the Subarctic North Pacific, *Journal of Physical Oceanography*, 50[1], 95-109, 10.1175/JPO-D-19-0133.1
- Kawakami, Y., Y. Kitamura, T. Nakano, and S. Sugimoto (2020), Long-term Thermohaline Variations in the North Pacific Subtropical Gyre From a Repeat Hydrographic Section Along 165° E, *Journal of Geophysical Research: Oceans*, 125[1], 10.1029/2019JC015382
- Kouketsu, S., D. Sasano, S. Osafune, and M. Aoyama (2020), Relationships among decadal changes in nitrate and salinity in the eastern and western North Pacific Ocean after 2000. *Journal of Geophysical Research: Oceans*, 125, e2019JC015916. <https://doi.org/10.1029/2019JC015916>
- Mugo R., S. Saitoh, H. Igarashi, T. Toyoda, S. Masuda, T. Awaji, and Y. Ishikawa (2020), Identification of skipjack tuna (*Katsuwonus pelamis*) pelagic hotspots applying a satellite remote sensing-driven

- analysis of ecological niche factors: a short-term run, *PRoS ONE*, 15(8): e0237742, <https://doi.org/10.1371/journal.pone.0237742>.
- Nagura, M. (2020), Variability in Meridional Transport of the Subtropical Circulation in the South Indian Ocean for the Period From 2006 to 2017, *Journal of Geophysical Research: Oceans*, e2019JC015874, 124, <https://doi.org/10.1029/2019JC015874>
- Oka, E., S. Kouketsu, D.Yanagimoto, D.Ito, Y.Kawai, S.Sugimoto, and B.Qiu (2020), Formation of Central Mode Water based on two zonal hydrographic sections in spring 2013 and 2016, *J.Oceanogr*, <https://doi.org/10.1007/s10872-020-00551-9>
- Sasaki, H., B. Qiu, P. Klein, Y. Sasai, and M. Nonaka (2020), Interannual to Decadal Variations of Submesoscale Motions around the North Pacific Subtropical Countercurrent, *Fluids*, 116, 5[3], <https://doi.org/10.3390/fluids5030116>
- Siswanto, E., T. Horii, I. Iskandar, J. Lumban-Gaol, R. Y. Setiawan, and R. D. Susanto (2020), Impacts of climate changes on the phytoplankton biomass of the Indonesian Maritime Continent, *Journal of Marine System*, 212, doi:10.1016/j.jmarsys.2020.103451.
- Sugimoto, S., B. Qiu, and A. Kojima (2020), Marked coastal warming off Tokai attributable to Kuroshio large meander, *J. Oceanography*, 76[2], 141-154, doi:10.1007/s10872-019-00531-8
- Sugiura, N. and S. Hosoda (2020), Machine learning technique using the signature method for automated quality control of Argo profiles, *Earth and Space Science*, e2019EA001019, 7[9], 10.1029/2019EA001019
- Sugiura, N., S. Kouketsu, S. Masuda, S. Osafune, and I. Yasuda (2020), Estimating the population mean for a vertical profile of energy dissipation rate, *Scientific Reports*, 10, 10.1038/s41598-020-77414-2
- von Schuckmann, K., L. Cheng, M. D. Palmer, J. Hansen, C. Tassone, V. Aich, S. Adusumilli, H. Beltrami, T. Boyer, F. J. Cuesta-Valero, D. Desbruyères, C. Domingues, A. García-García, P. Gentine, J. Gilson, M. Gorfer, L. Haimberger, M. Ishii, G. C. Johnson, R. Killick, B. A. King, G. Kirchengast, N. Kolodziejczyk, J. Lyman, B. Marzeion, M. Mayer, M. Monier, D. P. Monselesan, S. Purkey, Roemmich, D., Schweiger, A., Seneviratne, S. I., Shepherd, A., Slater, D. A., A. K. Steiner, F. Straneo, M.-L. Timmermans, and S. E. Wijffels (2020), Heat stored in the Earth system: where does the energy go?, *Earth Syst. Sci. Data*, 12, 2013–2041, <https://doi.org/10.5194/essd-12-2013-2020>.
- Wagawa, T., Y. Kawaguchi, Y. Igeta, N. Honda, T. Okunishi, and I.Yabe (2020), Observations of oceanic fronts and water-mass properties in the central Japan Sea: Repeated surveys from an underwater glider., *J. Mar. Sys.*, 201, <https://doi.org/10.1016/j.jmarsys.2019.103242>
- Wong, A.P.S, S. E. A. Wijffels, S. C. Riser, S. Pouliquen, S. Hosoda, D. Roemmich, J. Gilson, G. C. Johnson, K. Martini, D. J. Murphy, M. Scanderbeg, TVS U. Bhaskar, J. J. H. Buck, F. Merceur, T. Carval, G. Maze, C. Cabanes, X. André, N. Poffa, I. Yashayaev, P. Barker, S. Guinehut, M. Belbéoch, M. Ignaszewski, M. O. Baringer, C. Schmid, J. M. Lyman, K. E. McTaggart, S. Purkey, N. Zilberman, M. B. Alkire, D. Swift, W. B. Owens, S. R. Jayne, C. Hersh, P. Robbins, D. West-Mack, F. Bahr, S. Yoshida, P. J. Sutton, R. Cancouët, C. Coatanoan, D. Dobbler, A. G. Juan, J.

- Gourion, N. Kolodziejczyk, V. Bernard, B. Bourlés, H. Claustre, F. D'ortenzio, S. Le Reste, P-Y. Le Traon, J-P. Rannou, C. Saout-Grit, S. Speich, V. Thierry, N. Verbrugge, I. M. Angel-Benavides, B. Klein, G. Notarstefano, P-M. Poulain, P. Vélez-Belchi, T. Suga, K. Ando, N. Iwasaka, T. Kobayashi, S. Masuda, E. Oka, K. Sato, T. Nakamura, K. Sato, Y. Takatsuki, T. Yoshida, R. Cowley, J. L Lovell, P. R. Oke, E. Van Wijk, F. Carse, M. Donnelly, W. J. Gould, K. Gowers, B. A King, S. G. Loch, M. Mowat, J. D. Turton, E. P. R. Rao, M Ravichandran, H. J. Freeland, I. Gaboury, D. Gilbert, B. J. W. Greenan, M. Ouellet, T. Ross, A. Tran, M. Dong, Z. Liu, J. Xu, K. Kang, H. Jo, S-D. Kim, H-M. Park (2020), Argo data 1999-2019: two million temperature-salinity profiles and subsurface velocity observations from a global array of profiling floats, *Frontier in Marine Science: Review*, doi: 10.3389/fmars.2020.00700
- Yamazaki, K., S. Aoki, K. Shimada, T. Kobayashi, and Y. Kitade (2020), Structure of the Subpolar Gyre in the Australian-Antarctic Basin Derived From Argo Floats, *Journal of Geophysical Research: Oceans*, 125[8], 10.1029/2019JC015406

## 2019

- Domingues, R., A. Kuwano-Yoshida, P. Chardon-Maldonado, R. E. Todd, G. Halliwell, H.-S. Kim, I.-I. Lin, K. Sato, T. Narazaki, L. K. Shay, T. Miles, S. Glenn, J. A. Zhang, S. R. Jayne, L. Centurioni, M. L. H?naff, G. R. Foltz, F. Bringas, M. M. Ali, S. F. DiMarco, S. Hosoda, T. Fukuoka, B. LaCour, A. Mehra, E. R. Sanabia, J. R. Gyakum, J. Dong, J. A. Knaff, G. Goni (2019), Ocean Observations in Support of Studies and Forecasts of Tropical and Extratropical Cyclones, *Frontier in Marine Science*, 10.3389/fmars.2019.00446
- Fujii, Y., E. Remy, H. Zuo , P. Oke , G. Halliwell , F. Gasparin , M. Benkiran, N. Loose , J. Cummings , J. Xie , Y. Xue , S. Masuda , G. C. Smith , M. Balmaseda , C. Germineaud , D. J. Lea , G. Larnicol, L. Bertino , A. Bonaduce , P. Brasseur , C. Donlon , P. Heimbach , Y. H. Kim , V. Kourafalou , P-Y. Le Traon , M. Martin , S. Paturi , B. Tranchant, N. Usui (2019), Observing System Evaluation Based on Ocean Data Assimilation and Prediction Systems: On-Going Challenges and a Future Vision for Designing and Supporting Ocean Observational Networks, *Front. Mar. Sci.*, 10.3389/fmars.2019.00417
- Hosoda, S., M. Hirano, T. Hashimukai, S. Asai, and N. Kawakami (2019), New method of temperature and conductivity sensor calibration with improved efficiency for screening SBE41 CTD on Argo floats, *Prog Earth Planet Sci*, 6[65], 10.1186/s40645-019-0310-1
- Isobe. A., S. Iwasaki, K. Uchida, and T. Tokai (2019), Abundance of non-conservative microplastics in the upper ocean from 1957 to 2066, *Nature Communications*, 10[417], DOI: 10.1038/s41467-019-08316-9
- Kobashi, F., H. Doi, and N. Iwasaka (2019), Sea Surface Cooling Induced by Extratropical Cyclones in the Subtropical North Pacific: Mechanism and Interannual Variability, *Journal of Geophysical Research Oceans*, 124[3], 10.1029/2018JC014632
- Kutsuwada, K., A. Kakiuchi, Y. Sasai, H. Sasaki, K. Uehara, and R. Tajima (2019), Wind-driven North Pacific Tropical Gyre using High-resolution simulation outputs, *Journal of Oceanography*, 74[2],

- 81-93, 10.1007/s10872-018-0487-8
- Li, B. F., Y. W. Watanabe, S. Hosoda, K. Sato, and Y. Nakano (2019), Quasi - Real - Time and High - Resolution Spatiotemporal Distribution of Ocean Anthropogenic CO<sub>2</sub>, *Geophysical Research Letters*, 10.1029/2018GL081639
- Masuda, S. (2019), Determining subsurface oceanic changes in the Indian sector of the Southern Ocean using Argo float data, *Polar Science*, 21, 10.1016/j.polar.2019.100498
- Nagano, A. and M. Wakita (2019), Wind-driven decadal sea surface height and main pycnocline depth changes in the western subarctic North Pacific, *Progress in Earth and Planetary Science*, 59, 6, 10.1186/s40645-019-0303-0
- Ohishi, S., H. Aiki, T. Tozuka, and M. F. Cronin (2019), Frontolysis by surface heat flux in the eastern Japan Sea: Importance of mixed layer depth, *Journal of Oceanography*, 75, 283-297, 10.1007/s10872-018-0502-0
- Ohishi, S., S. Katsura, and H. Aiki (2019), Salinity frontogenesis/frontolysis in the northeastern subtropical Pacific region, *Climate Dynamics*, 53, 5927-5943, 10.1007/s00382-019-04907-w
- Roemmich, D., M. H. Alford, H. Claustre, K. Johnson, B. King, J. Moum, P. Oke, W. B. Owens, S. Pouliquen, S. Purkey, M. Scanderbeg, T. Suga, S. Wijffels, N. Zilberman, D. Bakker, M. Baringer, M. Belbeoch, H. C. Bittig, E. Boss, P. Calil, F. Carse, T. Carval, F. Chai, D. O. Conchubhair, F. d Ortenzio, G. Dall Olmo, D. Desbruyeres, K. Fennel, I. Fer, R. Ferrari, G. Forget, H. Freeland, T. Fujiki, M. Gehlen, B. Greenan, R. Hallberg, T. Hibiya, S. Hosoda, S. Jayne, M. Jochum, G. C. Johnson, K. Kang, N. Kolodziejczyk, A. K?rtzinger, P.-Y. Le Traon, Y.-D. Lenn, G. Maze, K. A. Mork, T. Morris, T. Nagai, J. Nash, A. N. Garabato, A. Olsen, R. R. Pattabhi, S. Prakash, S. Riser, C. Schmechtig, C. Schmid, E. Shroyer, A. Sterl, P. Sutton, L. Talley, T. Tanhua, V. Thierry, S. Thomalla, J. Toole, A. Troisi, T. W. Trull, J. Turton, P. J. Velez-Belchi, W. Walczowski, H. Wang, R. Wanninkhof, A. F. Waterhouse, S. Waterman, A. Watson, C. Wilson, A. P. S. Wong, J. Xu, and I. Yasuda (2019), On the future of Argo: A global, full-depth, multi-disciplinary array, *Frontier in Marine Science*, doi:10.3389/fmars.2019.00439
- Sakamoto, T., K. Komatsu, K. Shirai, T. Higuchi, T. Ishimura, T. Setou, Y. Kamimura, C. Watanabe, and A. Kawabata (2019), Combining microvolume isotope analysis and numerical simulation to reproduce fish migration history. *Methods Ecol Evol.* 2019;10:59–69.  
<https://doi.org/10.1111/2041-210X.13098>
- Shiozaki, T., Y. Hirose, K. Hamasaki, R. Kaneko, K. Ishikawa, and N. Harada (2019), Eukaryotic phytoplankton contributing to a seasonal bloom and carbon export revealed by tracking sequence variants in the western North Pacific, *Frontiers in Microbiology*, 10, 10.3389/fmicb.2019.02722
- Ushijima, Y. and Y. Yoshikawa (2019), Mixed Layer Depth and Sea Surface Warming under Diurnally Cycling Surface Heat Flux in the Heating Season, *Journal of Physical Oceanography*, 49[7], 1769-1787, 10.1175/JPO-D-18-0230.1
- Watanabe, Y. W., B. F. Li, R. Yamasaki, S. Yunoki, K. Imai, S. Hosoda and Y. Nakano (2019), Spatiotemporal changes of ocean carbon species in the western North Pacific by using parameterization technique, *Journal of Oceanography*, <https://doi.org/10.1007/s10872-019-0502-0>

00532-7

Yamaguchi, R., T. Suga, K. Richards, and B. Qiu (2019), Diagnosing the development of seasonal stratification using the potential energy anomaly in the North Pacific, *Climate Dynamics*, 53[7-8], 4667-4681, 10.1007/s00382-019-04816-y

## 2018

- Doi, T., S. K. Behera, and T. Yamagata (2018), Merits of a 108-member ensemble system in ENSO and IOD predictions, *J. Climate*, 32(3), 957-972, doi:10.1175/JCLI-D-18-0193.1
- Furue, R., K. Takatama, H. Sasaki, N. Schneider, M. Nonaka, and B. Taguchi (2018), Impacts of sea-surface salinity in an eddy-resolving semi-global OGCM, *Ocean Modelling*, 122, 36-56, 10.1016/j.ocemod.2017.11.004
- Horii, T., I. Ueki, and K. Ando (2018), Coastal upwelling events along the southern coast of Java during the 2008 positive Indian Ocean Dipole, *Journal of Oceanography*, 74[5], 499-508, 10.1007/s10872-018-0475-z
- Katsura, S. (2018), Properties, Formation, and Dissipation of the North Pacific Eastern Subtropical Mode Water and Its Impact on Interannual Spiciness Anomalies, *Progress in Oceanography*, 162, 120-131
- Kobayashi T. (2018), Rapid volume reduction in Antarctic Bottom Water off the Adélie/George V Land coast observed by deep floats, *Deep-Sea Research Part-I*, 140, 95-117, <https://doi.org/10.1016/j.dsr.2018.07.014>
- Kouketsu, S. (2018), Spatial Distribution of Diffusivity Coefficients and the Effects on Water Mass Modification in the North Pacific, *Journal of Geophysical Research*, 123[6], 4373, 10.1029/2018JC013860
- Masuda, S., S. Osafune, and T. Hemmi (2018), Deep-float salinity data synthesis for deep ocean state estimation: Method and impact, *Progress in Earth and Planetary Science*, DOI: 10.1186/s40645-018-0247-9
- Morioka, Y., T. Doi, A. Storto, S. Masina, and S. K. Behera (2018), Role of subsurface ocean in decadal climate predictability over the South Atlantic, *Scientific Reports*, 10.1038/s41598-018-26899-z
- Nagura, M. (2018), Annual Rossby waves below the pycnocline in the Indian Ocean, *Journal of Geophysical Research Oceans*, <https://doi.org/10.1029/2018JC014362>
- Nagura, M., and S. Kouketsu (2018), Spiciness anomalies in the upper South Indian Ocean, *Journal of Physical Oceanography*, 49[9], 2081-2101, <https://doi.org/10.1175/JPO-D-18-0050.1>
- Nagura, M., and M. J. McPhaden (2018), The shallow overturning circulation in the Indian Ocean, *Journal Physical Oceanography*, 48[2], 413-434, 10.1175/JPO-D-17-0127.1
- Nakano, H., H. Tsujino, K. Sakamoto, S. Urakawa, T. Toyoda, and G. Yamanaka (2018), Identification of the fronts from the Kuroshio Extension to the Subarctic Current using absolute dynamic topographies in satellite altimetry products. *J Oceanogr.* 74, 393–420, <https://doi.org/10.1007/s10872-018-0470-4>
- Ogata, T., T. Doi, Y. Morioka, and S. K. Behera (2018), Mid-latitude source of the ENSO-spread in

SINTEX-F ensemble predictions, Climate Dynamics, *Climate Dynamics*,  
<https://doi.org/10.1007/s00382-018-4280-6>

Ratnam, J.V., T. Doi, W.A. Landman, and S.K. Behera (2018), Seasonal forecasting of onset of summer rains over South Africa, *Journal of Applied Meteorology and Climatology*, 10.1175/JAMC-D-18-0067.1

Tozuka, T., S. Ohishi, and M. F. Cronin (2018), A metric for surface heat flux effect on horizontal sea surface temperature", "Climate Dynamics, 51[1-2], 547-561, 10.1007/s00382-017-3940-2

## 2017

Doi, T., A. Storto, S. K. Behera, A. Navarra, and T. Yamagata (2017), Improved prediction of the Indian Ocean Dipole Mode by use of subsurface ocean observations., *J. Climate*, 30, 3219-3235

Fujii, Y., H. Tsujino, T. Toyoda, and H. Nakano (2017), Enhancement of the southward return flow of the Atlantic Meridional Overturning Circulation by data assimilation and its influence in an assimilative ocean simulation forced by CORE-II atmospheric forcing, *Climate Dynamics*, 49, 869-889. DOI:/10.1007/s00382-015-2780-1

Furue, R., K. Guerreiro, H. E. Phillips, J. P. McCreary, and N. L. Bindoff (2017), On the Leeuwin Current System and Its Linkage to Zonal Flows in the South Indian Ocean as Inferred from a Gridded Hydrography, *Journal of Physical Oceanography*, 47[March], 583-602, 10.1175/JPO-D-16-0170.1

Honda, M.C., M. Wakita, K. Matsumoto, T. Fujiki, E Siswanto, K. Sasaoka, H. Kawakami, Y. Mino, C. Sukigara, M. Kitamura, Y. Sasai, S.L. Smith, T. Hashioka, C. Yoshikawa, K. Kimoto, S. Watanabe, T. Kobari, T. Nagata, K. Hamasaki, R. Kaneko, M. Uchimiya, H. Fukuda, O. Abe and T. Saino (2017), Comparison of carbon cycle between the western Pacific subarctic and subtropical time-series stations: highlights of the K2S1 project. *J Oceanogr.* 73, 647–667,  
<https://doi.org/10.1007/s10872-017-0423-3>.

Inoue, R., M. Watanabe, and S. Osafune (2017), Wind-induced mixing in the North Pacific, *J. Phys. Oceanogr.*, 47, 1587-1603, 10.1175/JPO-D-16-0218.1

Ishii, M., Y. Fukuda, S. Hirahara, S. Yasui, T. Suzuki, and K. Sato (2017), Accuracy of Global Upper Ocean Heat Content Estimation Expected from Present Observational Data Sets, *SOLA*, 13, 163 – 167, doi:10.2151/sola.2017-030

Katsumata, K. (2017), Eddies Observed by Argo Floats. Part II: Form Stress and Streamline Length in the Southern Ocean, *J.Phys.Oceanogr.*, 2237--2250, 47[9], 10.1175/JPO-D-17-0072.1

Kido, S. and T. Tozuka (2017), Salinity variability associated with the positive Indian Ocean Dipole and its impact on the upper ocean temperature, *Journal of Climate*, 7885-7907, 30, 10.1175/JCLI-D-17-0133.1

Kouketsu, S., S. Osafune, Y. Kumamoto, and H. Uchida (2017), Eastward salinity anomaly propagation in the intermediate layer of the North Pacific, *Journal of Geophysical Research*, 122[2], 1590-1607, 10.1002/2016JC012118

Nagano, A., T. Hasegawa, I. Ueki, and K. Ando (2017), El Niño-Southern Oscillation-time scale

- covariation of sea surface salinity and freshwater flux in the western tropical and northern subtropical Pacific, *Geophysical Research Letters*, 44, 10.1002/2017GL073573 Ohishi, S., T. Tozuka, and M. F. Cronin (2017), Frontogenesis in the Agulhas Return Current region simulated by a high-resolution CGCM, *Journal of Physical Oceanography*, 47, 2691-2710, doi: 10.1175/JPO-D-17-0038.1
- Oka, E., S. Katsura, H. Inoue, A. Kojima, M. Kitamoto, T. Nakano, and T. Suga (2017), Long-term change and variation of salinity in the western North Pacific subtropical gyre revealed by 50-year long observations along 137E, *Journal of Oceanography*, 73, 479-490, 10.1007/s10872-017-0416-2
- Shimada, K., S. Aoki, and Kay I. Ohshima (2017), Creation of a Gridded Dataset for the Southern Ocean with a Topographic Constraint Scheme, *JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY*, 34[3], 511-532, 10.1175/JTECH-D-16-0075.1
- Sugimoto, S., K. Hanawa, T. Watanabe, T. Suga, and S.-P. Xie (2017), Enhanced warming of the subtropical mode water in the North Pacific and North Atlantic, *Nature Climate Change*, 7[9], 656-658, 10.1038/nclimate3371
- Toyoda, T. and S. Okamoto (2017), Physical forcing of late summer chlorophyll a blooms in the oligotrophic eastern North Pacific, *J. Geophys. Res. Oceans*, 122, 1849–1861, doi:10.1002/2016JC012423.
- Toyoda, T., Y. Fujii, T. Kuragano, M. Kamachi, Y. Ishikawa, S. Masuda, K. Sato, T. Awaji, F. Hernandez, N. Ferry, S. Guinehut, M.J. Martin, K.A. Peterson, S.A. Good, M. Valdivieso, K. Haines, A. Storo, S. Masina, A. Köhl, H. Zuo, M. Balmaseda, Y. Yin, L. Shi, O. Alves, G. Smith, Y-S. Chang, G. Vernieres, X. Wang, G. Forget, P. Heimbach, O. Wang, I. Fukumori, and T. Lee (2017), Intercomparison and validation of the mixed layer depth fields of global ocean syntheses. *Clim. Dyn.* 49, 753–773, <https://doi.org/10.1007/s00382-015-2637-7>
- Tozuka, T., M. F. Cronin, and H. Tomita (2017), Surface frontogenesis by surface heat fluxes in the upstream Kuroshio Extension region, *Scientific Reports*, 7, 10258, 10.1038/s41598-017-10268-3
- Usui, N., T. Wakamatsu, Y. Tanaka, N. Hirose, T. Toyoda, S. Nishikawa, Y. Fujii, Y. Takatsuki, H. Igarashi, H. Nishikawa, Y. Ishikawa, T. Kuragano, and M. Kamachi (2017), Four-dimensional variational ocean reanalysis: a 30-year high-resolution dataset in the western North Pacific (FORA-WNP30). *J Oceanogr* 73, 205–233, <https://doi.org/10.1007/s10872-016-0398-5>.

## 2016

- Hiraike, Y., Y. Tanaka, and H. Hasumi (2016), Subduction of Pacific Antarctic Intermediate Water in an eddy-resolving model, *J. Geophys. Res. Oceans*, 121, 133–147, doi:10.1002/2015JC010802
- Horii, T., I. Ueki, K. Ando, T. Hasegawa, K. Mizuno and A. Seik, Impact of intraseasonal salinity variations on sea surface temperature in the eastern equatorial Indian Ocean, *Journal of Oceanography*, 72[2], 313-326, 10.1007/s10872-015-0337-x
- Inoue, R. and S. Kouketsu (2016), Physical oceanographic conditions around the S1 mooring site, *Journal of Oceanography*, 10.1007/s10872-015-0342-0

- Inoue, R., M. Kitamura, and T. Fujiki (2016), Diel vertical migration of zooplankton at the S1 biogeochemical mooring revealed from acoustic backscattering strength., *Journal of Geophysical Research*, 10.1002/2015JC011352
- Inoue, R., V. Faure, and S. Kouketsu (2016), Float observations of an anticyclonic eddy off Hokkaido, *Journal of Geophysical Research*, 10.1002/2016JC011698
- Inoue, R., T. Suga, S. Kouketsu, T. Kita, S. Hosoda, T. Kobayashi, K. Sato, H. Nakajima and T. Kawano (2016), Western North Pacific Integrated Physical-Biogeochemical Ocean Observation Experiment (INBOX): Part 1. Specifications and chronology of the S1-INBOX floats, *Journal of Marine Research*, 74(2), 43-69
- Inoue, R., M. Honda, T. Fujiki, K. Matsumoto, S. Kouketsu, T. Suga, and T. Saino (2016), Western North Pacific Integrated Physical-Biogeochemical Ocean Observation Experiment (INBOX): Part 2. Biogeochemical responses to eddies and typhoons revealed from the S1 mooring and shipboard measurements, *Journal of Marine Research*, 74(2), 71-99
- Kaeriyama, H., Y. Shimizu, T. Setou, Y. Kumamoto, M. Okazaki, D. Ambe, T. Ono (2016), Intrusion of Fukushima-derived radiocaesium into subsurface water due to formation of mode waters in the North Pacific, *Scientific Reports*, 22010, 6, doi:10.1038/srep22010
- Katsumata, K. (2016), Eddies Observed by Argo Floats. Part I: Eddy Transport in the Upper 1000 dbar, *J.Phys.Oceanogr.*, 46[11], 3471-3486, 10.1175/JPO-D-16-0150.1
- Kawakami, Y., S. Sugimoto, and T. Suga (2016), Inter-annual zonal shift of the formation region of the lighter variety of the North Pacific Central Mode Water, *Journal of Oceanography*, 72[2], 225-234
- Kouketsu, S., H. Kaneko, T. Okunishi, K. Sasaoka, S. Itoh, R. Inoue, and H. Ueno (2016), Mesoscale eddy effects on temporal variability of surface chlorophyll a in the Kuroshio Extension. J Oceanogr 72, 439–451, <https://doi.org/10.1007/s10872-015-0286-4>
- Kouketsu, S., R. Inoue, and T. Suga (2016), Western North Pacific Integrated Physical-Biogeochemical Ocean Observation Experiment (INBOX): Part 3. Mesoscale variability of dissolved oxygen concentrations observed by multiple floats during S1-INBOX, *Journal of Marine Research*, 74(2), 101-131
- Li B., Watanabe Y. W., and A. Yamaguchi (2016), Spatiotemporal distribution of seawater pH in the North Pacific subpolar region by using the parameterization technique, *Journal of Geophysical Research*, 121, 10.1002/ 2015JC011615
- Liu, X., A. Köhl, D. Stammer, S. Masuda, Y. Ishikawa, and T. Mochizuki (2016), Impact of in-consistency between the climate model and its initial conditions on climate prediction, *Geophys. Res. Lett.*, DOI 10.1007/s00382-016-3194-4
- Mitarai, S., H. Watanabe, Y. Nakajima, Alexander F. Shchepetkin, and James C. McWilliams (2016), Quantifying dispersal from hydrothermal vent fields in the western Pacific Ocean, *Proceedings of the National Academy of Sciences*, 113[11], 2976-2981, 10.1073/pnas.1518395113
- Mochizuki, T., S. Masuda, Y. Ishikawa, and T. Awaji (2016), Multi-year climate prediction with initialization based on 4D-Var data assimilation, *Geophys. Res. Lett.*, 43, DOI: 10.1002/2016GL067895

- Nagano, A., S. Kizu, K. Hanawa, and D. Roemmich (2016), Heat transport variation due to change of North Pacific subtropical gyre interior flow during 1993-2012, *Ocean Dynamics*, 66[12], 1637-1649, 10.1007/s10236-016-1007-2
- Nagano, A., M. Wakita, and S. Watanabe (2016), Dichothermal layer deepening in relation with halocline depth change associated with northward shrinkage of North Pacific western subarctic gyre in early 2000s, *Ocean Dynamics*, 66, 163-172", 10.1007/s10236-015-0917-8
- Ohishi, S., T. Tozuka, and N. Komori (2016), Frontolysis by surface heat flux in the Agulhas Return Current region with a focus on mixed layer processes: observation and a high-resolution CGCM, *Climate Dynamics*, 47, 3993-4007, doi:10.1007/s00382-016-3056-0
- Riser, S. C., H. J. Freeland, D. Roemmich, S. Wijffels, A. Troisi, M. Belbeoch, D. Gilbert, J. Xu, S. Pouliquen, A. Thresher, P.-Y. Le Traon, G. Maze, B. Klein, M. Ravichandran, F. Grant, P.-M. Poulain, T. Suga, B. Lim, A. Sterl, P. Sutton, K.-A. Mork, P. J. Velez-Belchi, I. Ansorge, B. King, J. Turton, M. Baringer, and S. Jayne (2016), Fifteen years of ocean observations with the global Argo array, *Nature Climate Change*, 6, 145-153.
- Sugimoto, S. and S.-I. Kako (2016), Decadal variations in wintertime mixed layer depth south of the Kuroshio Extension and its influence on winter mixed layer temperature, *Journal of Climate*, 29[3], 1237-1252, DOI: 10.1175/JCLI-D-15-0206.1
- Wakita, M., M.C. Honda, K. Matsumoto, T. Fujiki, H. Kawakami, S. Yasunaka, Y. Sasai, C. Sukigara, M. Uchimiya, M. Kitamura, T. Kobari, Y. Mino, A. Nagano, S. Watanabe, and T. Saino (2016), Biological organic carbon export estimated from the annual carbon budget observed in the surface waters of the western subarctic and subtropical North Pacific Ocean from 2004 to 2013. *J Oceanogr* 72, 665–685, <https://doi.org/10.1007/s10872-016-0379-8>
- Yasunaka, S., T. Ono, Y. Nojiri, F.A. Whitney, C. Wada, A. Murata, S. Nakaoka, and S. Hosoda (2016), Long-term variability of surface nutrient concentrations in the North Pacific, *Geophys. Res. Lett.*, 43, 3389–3397, doi:10.1002/2016GL068097.

## 2015

- Balmaseda, M. A., F. Hernandez, A. Storto, M. D. Palmer, O. Alves, L. Shi, G. C. Smith, T. Toyoda, M. Valdivieso, B. Barnier, D. Behringer, T. Boyer, Y-S. Chang, G. A. Chepurin, N. Ferry, G. Forget, Y. Fujii, S. Good, S. Guinehut, K. Haines, Y. Ishikawa, S. Keeley, A. Köhl, T. Lee, M. Martin, S. Masina, S. Masuda, B. Meyssignac, K. Mogensen, L. Parent, K. A. Peterson, Y. M. Tang, Y. Yin, G. Vernieres, X. Wang, J. Waters, R. Wedd, O. Wang, Y. Xue, M. Chevallier, J-F. Lemieux, F. Dupont, T. Kuragano, M. Kamachi, T. Awaji, A. Caltabiano, K. Wilmer-Becker, and F. Gaillard (2015), The Ocean Reanalyses Intercomparison Project (ORA-IP), *Journal of Operational Oceanography*, 8(S1), 80-97, 10.1080/1755876X.2015.1022329
- Doi, T., S. Osafune, N. Sugiura, S. Kouketsu, A. Murata, S. Masuda, and T. Toyoda (2015), Multi-decadal change in the dissolved inorganic carbon in a long-term ocean state estimation, *Journal of Advances in Modeling Earth Systems*, 7[4], 1885-1990, 10.1002/2015MS000462
- Faure, V. and Yoshimi Kawai (2015), Heat and salt budgets of the mixed layer around the subarctic front

- of the North Pacific Ocean, *Journal of Oceanography*, 71[5], 527-539, 10.1007/s10872-015-0318-0
- Fujii, Y., K. Ogawa, G.B. Brassington, K. Ando, T. Yasuda, and T. Kuragano (2015), Evaluating the impacts of the tropical Pacific observing system on the ocean analysis fields in the global ocean data assimilation system for operational seasonal forecasts in JMA, *Journal of Operational Oceanography*, 8, 25-39, DOI:10.1080/1755876X.2015.1014640
- Fujii, Y., J. Cummings, Y. Xue, A. Schiller, T. Lee, M.A. Balsaseda, E. Rémy, S. Masuda, G. Brassington, O. Alves, B. Cornuelle, M. Martin, P. Oke, G. Smith, and X. Yang (2015), Evaluation of the Tropical Pacific Observing System from the Ocean Data Assimilation Perspective, *Quarterly Journal of the Royal Meteorological Society*, 141, 2481-2496, DOI:10.1002/qj.2579
- Hosoda, S., M. Nonaka, Y. Sasai, and H. Sasaki (2015), Early summertime interannual variability in surface and subsurface temperature in the North Pacific, *Journal of Oceanography*, 10.1007/s10872-015-0307-3
- Hosoda, S., M. Nonaka, T. Tomita, B. Taguchi, H. Tomita, and N. Iwasaka (2015), Impact of downward heat penetration below the shallow seasonal thermocline on the sea surface temperature, *Journal of Oceanography*, 10.1007/s10872-015-0275-7
- Kaneko, H., S. Itoh, S. Kouketsu, T. Okunishi, S. Hosoda, and T. Suga (2015), Evolution and modulation of a poleward-propagating anticyclonic eddy along the Japan and Kuril-Kamchatka trenches, *J. Geophys. Res. Oceans*, 120, 10.1002/2014JC010693
- Katsura, S., E. Oka, and K. Sato (2015), Formation Mechanism of Barrier Layer in the Subtropical Pacific, *Journal of Physical Oceanography*, 45, 2790-2805
- Kimizuka, M., F. Kobashi, A. Kubokawa, and N. Iwasaka (2015), Vertical and horizontal structures of the North Pacific subtropical gyre axis, *Journal of oceanography*, DOI 10.1007/s10872-015-0301-9
- Masuda, S., J. P. Matthews, Y. Ishikawa, T. Mochizuki, Y. Tanaka, A. Awaji (2015), A new Approach to El Niño Prediction beyond the Spring Season, *Scientific Reports*, 5, 1-9, 10.1038/srep16782
- Nishikawa, S., Y. Ishikawa, S. Masuda, Y. Hiyoshi, Y. Sasaki, and H. Igarashi (2015), Argo data assimilation and its effect on climate state estimation and forecasting in the western North Pacific using a coupled model, *J. Geophys. Res. Oceans*, 120, 2636-2654, 10.1002/2014JC010095
- Oka E., B. Qiu, Y. Takatani, K. Enyo, D. Sasano, N. Kosugi, M. Ishii, T. Nakano, and T. Suga (2015), Decadal variability of Subtropical Mode Water subduction and its impact on biogeochemistry, *Journal of Oceanography*, 71[4], 389-400, 10.1007/s10872-015-0300-x
- Ono, S., H.Matsuyama, K.Fukui, and S.Hosoda (2015), Error Detection of Oceanic Observation Data Using Sequential Labeling, *IEEE International Conference on Data Science and Advanced Analytics (DSAA)*, 10.1109/DSAA.2015.7344896
- Osafune, S., S. Masuda, N. Sugiura, and T. Doi (2015), Evaluation of the applicability of the Estimated State of the Global Ocean for Climate Research (ESTOC) data set, *Geophysical Research Letters*, 42, 4903--4911, 10.1002/2015GL064538
- Palmer, M. D., C. D. Roberts, M. Balmaseda, Y.-S. Chang, G. Chepurin, N. Ferry, Y. Fujii, S. A. Good, S. Guinehut, K. Haines, F. Hernandez, A. Köhl, T. Lee, M. J. Martin, S. Masina, S. Masuda, K. A.

- Peterson, A. Storto, T. Toyoda, M. Valdivieso, G. Vernieres, O. Wang, and Y. Xue (2015), Ocean heat content variability and change in an ensemble of ocean reanalyses, *Clim. Dyn.*, 45, 1-22, 10.1007/s00382-015-2801-0
- Qiu, B., S. Chen, D. L. Rudnick, and Y. Kashino (2015), A New Paradigm for the North Pacific Subthermocline Low-Latitude Western Boundary Current System, *Journal of Physical Oceanography*, 2407-2423, 45[9], 10.1175/JPO-D-15-0035.1
- Shi, L., Alves O., Wedd R., Balmaseda M. A., Chang Y., Chepurin G., Ferry N., Fujii Y., Gaillard F., Good S. A., Guinehut S., Haines K., Hernandez F., Lee T., Palmer M., Peterson D., Masuda S., Storto A., Toyoda T., Valdivieso M., Vernieres G., Wang X., Yin Y. (2015), An Assessment of Upper Ocean Salinity Content from the Ocean Reanalyses Inter-Comparison Project (ORA-IP), *Clim. Dyn.*, 45, 1-21, 10.1007/s00382-015-2868-7
- Storto, A., S. Masina, M. Balmaseda, S. Guinehut, Y. Xue, T. Szekely, I. Fukumori, G. Forget, Y.-S. Chang, S. A. Good, A. Köhl, G. Vernieres, N. Ferry, K. A. Peterson, D. Behringer, M. Ishii, S. Masuda, Y. Fujii, T. Toyoda, Y. Yin, M. Valdivieso, B. Barnier, T. Boyer, T. Lee, J. Gourrion, O. Wang, P. Heimbach, A. Rosati, R. Kovach, F. Hernandez, M. J. Martin, M. Kamachi, T. Kuragano, K. Mogensen, O. Alves, K. Haines, and X. Wang (2015), Steric sea level variability (1993-2010) in an ensemble of ocean reanalyses and objective analyses, *Clim. Dyn.*, 45, 1-21, 10.1007/s00382-015-2554-9
- Suzuki, T. and M. Ishii (2015), Interdecadal Baroclinic Sea Level Changes in the North Pacific Based on Historical Ocean Hydrographic Observations, *Journal of Climate*, 28, 4585-4594, 10.1175/JCLI-D-13-00103.1
- Toyama, K., A. Iwasaki, and T. Suga (2015), Interannual Variation of Annual Subduction Rate in the North Pacific Estimated from a Gridded Argo Product, *Journal of Physical Oceanography*, 45[9], 2276-2293, 10.1175/JPO-D-14-0223.1
- Toyoda, T., Y. Fujii, T. Kuragan, N. Kosugi, D. Sasano, M. Kamachi, Y. Ishikawa, S. Masuda, K. Sato, T. Awaji, F. Hernandez, N. Ferry, S. Guinehut, M. J. Martin, K. A. Peterson, S. A. Good, M. Valdivieso, K. Haines, A. Storto, S. Masina, A. Köhl, Y. Yin, L. Shi, O. Alves, G. Smith, Y.-S. Chang, G. Vernieres, X. Wang, G. Forget, P. Heimbach, O. Wang, I. Fukumori, T. Lee, H. Zuo, and M. Balmaseda (2015), Interannual decadal variability of wintertime mixed layer depths, *Climate Dynamics*, 10.1007/s00382-015-2762-3
- Toyoda, T., Y. Fujii, T. Kuragan, M. Kamachi, Y. Ishikawa, S. Masuda, K. Sato, T. Awaji, F. Hernandez, N. Ferry, S. Guinehut, M. J. Martin, K. Andrew Peterson, S. A. Good, M. Valdivieso, K. Haines, A. Storto, S. Masina, A. Köhl, H. Zuo, M. Balmaseda, Y. Yin, L. Shi, O. Alves, G. Smith, You-Soon Chang, G. Vernieres, X. Wang, G. Forget, P. Heimbach, O. Wang, I. Fukumori, and T. Lee (2015), Intercomparison and validation of the mixed layer depth fields of global ocean syntheses, *Climate Dynamics*, DOI 10.1007/s00382-015-2637-7
- Toyoda, T., Y. Fujii, T. Kuragano, J. P. Matthews, H. Abe, N. Ebuchi, N. Usui, K. Ogawa, and M. Kamachi (2015), Improvements to a global ocean data assimilation system through the incorporation of Aquarius surface salinity data, *Quarterly Journal of the Royal Meteorological Society*

*Society*, DOI:10.1002/qj.2561

Wada, A. (2015), Utilization of tropical cyclone heat potential for improving tropical cyclone intensity, RSMC Tokyo-Typhoon Center Technical Review, 17

Wada, A. (2015), Unusually rapid intensification of Typhoon Man-yi in 2013 under preexisting warm-water conditions near the Kuroshio front south of Japan, *Journal of Oceanography*, 71[5], 597-622, 10.1007/s10872-015-0273-9

Wada, A. (2015), Verification of tropical cyclone heat potential for tropical cyclone intensity forecasting in the Western North Pacific, *Journal of Oceanography*, 71[4], 373-387, 10.1007/s10872-015-0298-0

Yoshikawa, Y. (2015), Scaling Surface Mixing/Mixed Layer Depth under Stabilizing Buoyancy Flux, *Journal of Physical Oceanography*, 45(1), 247-258, doi:10.1175/JPO-D-13-0190.1

## 2014

Abe, H. and N. Ebuchi (2014), Evaluation of sea-surface salinity observed by Aquarius, *Journal of Geophysical Research - Oceans*, 119, doi:10.1002/2014JC010094, <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2014JC010094>

Han, W., J. Vialard, M. J. McPhaden, T. Lee, Y. Masumoto, M. Feng and W.P.M. de Ruijter (2014), Indian Ocean decadal variability: A review, *Bulletin of the American Meteorological Society*, 95(11), 1679-1703, <https://doi.org/10.1175/BAMS-D-13-00028.1>

Ito, K., T. Kuroda, K. Saito and A. Wada (2014), Forecasting a large number of tropical cyclone intensities around Japan using a high-resolution atmosphere-ocean coupled model, *Weather and Forecasting*, 30(3), 793-808, doi:10.1175/WAF-D-14-00034, [https://journals.ametsoc.org/view/journals/wefo/30/3/waf-d-14-00034\\_1.xml](https://journals.ametsoc.org/view/journals/wefo/30/3/waf-d-14-00034_1.xml)

Kaeriyama, H., Y. Shimizu, D. Ambe, M. Masujima, Y. Shigenobu, K. Fujimoto, T. Ono, K. Nishiuchi, T. Taneda, H. Kurogi, T. Setou, H. Sugisaki, T. Ichikawa, K. Hidaka, Y. Hiroe, A. Kusaka, T. Kodama, M. Kuriyama, H. Morita, K. Nakata, K. Morinaga, T. Morita, and T. Watanabe (2014), Southwest Intrusion of  $^{134}\text{Cs}$  and  $^{137}\text{Cs}$  Derived from the Fukushima Dai-ichi Nuclear Power Plant Accident in the Western North Pacific, *Environmental Science and Technology*, 48(6), 3120-3127, doi:10.1021/es403686v, <https://pubs.acs.org/doi/10.1021/es403686v>

Masuda, S. and S. Hosoda (2014), Effective Design of Profiling Float Network for Oceanic Heat-Content Monitoring, *The Scientific World Journal*, vol. 2014, Article ID 340518, 6 pages, <https://doi.org/10.1155/2014/340518>.

Masuda, S., N. Sugiura, S. Osafune and T. Doi (2014), Improvement of Ocean State Estimation by Assimilating Mapped Argo Drift Data, *The Scientific World Journal*, 2014, 1-6, doi:10.1155/2014/975618, <https://www.hindawi.com/journals/tswj/2014/975618/>

Nagano, A., K. Uehara, T. Suga, Y. Kawai, H. Ichikawa and M. F. Cronin (2014), Origin of near-surface high-salinity water observed in the Kuroshio Extension region, *Journal of Oceanography*, 70, doi:10.1007/s10872-014-0237-5, <https://link.springer.com/article/10.1007/s10872-014-0237-5>

Nagura, M. and M. J. McPhaden (2014), Zonal momentum budget along the equator in the Indian Ocean

- from ahigh-resolution ocean general circulation model, *J. Geophys. Res. Oceans*, 119, 4444–4461, doi:10.1002/2014JC009895
- Oka E., K. Uehara, T. Nakano, T. Suga, D. Yanagimoto, S. Kouketsu, S. Itoh, S. Katsura and L. D. Talley (2014), Synoptic observation of Central Mode Water in its formation region in spring 2003, *Journal of Oceanography*, 70, 521-534, doi:10.1007/s10872-014-0248-2, <https://link.springer.com/article/10.1007/s10872-014-0248-2>
- Osafune, S., S. Masuda, and N. Sugiura (2014), Role of the oceanic bridge in linking the 18.6-year modulation of tidal mixing and long-term SST change in the North Pacific, *Geophys. Res. Lett.*, 41, 7284-7290, 2014GL061737
- Qiu, B., S. Chen, P. Klein, H. Sasaki, and Y. Sasai (2014), Seasonal mesoscale and submesoscale eddy variability along the North Pacific Subtropical Countercurrent, *J. Phys. Oceanogr.*, 44(12), 3079-2098, <https://doi.org/10.1175/JPO-D-14-0071.1>
- Seo, Y., S. Sugimoto, and K. Hanawa (2014), Long-term variations of the Kuroshio Extension path in winter: Meridional movement and path state change, *Journal of Climate*, 27 (15), 5929-5940, DOI:10.1175/JCLI-D-13-00641.1
- Shiozaki, T., M. Ijichi, T. Kodama, S. Takeda and K. Furuya (2014), Heterotrophic bacteria as major nitrogen fixers in the euphotic zone of the Indian Ocean, *Global Biogeochemical Cycles*, 28, 1096-1110, doi:10.1002/2014GB004886, <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2014GB004886>
- Shiozaki, T., S. Ito, K. Takahashi, H. Saito, T. Nagata and K. Furuya (2014), Regional variability of factors controlling the onset timing and magnitude of spring algal blooms in the northwestern North Pacific, *Journal of Geophysical Research: Oceans*, 119, 1-13, doi:10.1002/2013JC009187, <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2013JC009187>
- Shiozaki, T., T. Kodama and K. Furuya (2014), Large-scale impact of the island mass effect through nitrogen fixation in the western South Pacific Ocean, *Geophysical Research Letters*, 41 2907-2913, doi:10.1002/2014GL059835, <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2014GL059835>
- Sugimoto, S. and K. Hanawa (2014), Influence of Kuroshio path variation south of Japan on formation of subtropical mode water., *Journal of Physical Oceanography*, 44 (4), 1065-1077, doi:10.1175/JPO-D-13-0114.1, <https://journals.ametsoc.org/view/journals/phoc/44/4/jpo-d-13-0114.1.xml>
- Sugimoto, S., N. Kobayashi and K. Hanawa (2014), Quasi-decadal variation in intensity of the western part of the winter subarctic SST front in the western North Pacific: The influence of Kuroshio Extension path state, *J. Phys. Oceanogr.*, 44(10), 2751-2760, doi:10.1175/JPO-D-13-0265.1, <https://journals.ametsoc.org/view/journals/phoc/44/10/jpo-d-13-0265.1.xml>
- Sugimoto, S. (2014), Influence of SST anomalies on winter turbulent heat fluxes in the eastern Kuroshio-Oyashio Confluence region, *Journal of Climate*, 27 (4), 9349-9358, DOI:10.1175/JCLI-D-14-00195.1
- Tozuka, T. and M. F. Cronin (2014), Role of mixed layer depth in surface frontogenesis: the Agulhas Return Current front, *Geophysical Research Letters*, 41, 2447-2453, doi:10.1002/2014GL059624,

<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2014GL059624>

Wada A., T. Uehara, and S. Ishizak (2014), Typhoon-induced sea surface cooling during the 2011 and 2012 typhoon seasons: observational evidence and numerical investigations of the sea surface cooling effect using typhoon simulations, *Progress in Earth and Planetary Science*, 1[11], 10.1186/2197-4284-1-11

Wagawa, T., S. Ito, Y. Shimizu, S. Kakehi and D. Ambe (2014), Currents associated with the quasi-stationary jet separated from the Kuroshio Extension, *Journal of Physical Oceanography*, 44, 1636-1653, doi:10.1175/JPO-D-12-0192.1,  
<https://journals.ametsoc.org/view/journals/phoc/44/6/jpo-d-12-0192.1.xml>

Yasunaka, S., Y. Nojiri, S. Nakaoka, T. Ono, F. A. Whitney, and M. Telszewski (2014), Mapping of sea surface nutrients in the North Pacific: Basin-wide distribution and seasonal to interannual variability, *J. Geophys. Res. Oceans*, 119, 7756–7771, doi:10.1002/2014JC010318.

## 2013

Abe, H., K. Hanawa and N. Ebuchi (2013), Interannual variations in the Hawaiian Lee Countercurrent, *Journal of Oceanography*, 69, 191-202, doi:10.1007/s10872-012-0166-0,  
<https://link.springer.com/article/10.1007/s10872-012-0166-0>

Doi, T., S. K. Behera and T. Yamagata (2013), Predictability of the Ningaloo Nino/Nina, *Scientific Reports*, 3, doi:10.1038/srep02892, <https://www.nature.com/articles/srep02892>

Ebuchi, N. and H. Abe (2013), Evaluation of sea surface salinity observed Aquarius and SMOS., *Proceedings of IGARSS 2013*, pp. 656-659, doi:10.1109/IGARSS.2013.6721242,  
<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6721242>

Hasegawa, T., K. Ando, I. Ueki, K. Mizuno, and S. Hosoda (2013), Upper-ocean salinity variability in the tropical Pacific: Case study for quasi-decadal shift during the 2000s using TRITON buoys and Argo floats, *Journal of Climate*, 26, 8126-8238, <https://doi.org/10.1175/JCLI-D-12-00187.1>

Horii, T., K. Mizuno, M. Nagura, T. Miyama and K. Ando (2013), Seasonal and interannual variation in the cross-equatorial meridional currents observed in the eastern Indian Ocean, *Journal of Geophysical Research - Oceans*, 118, 6658-6671, doi:10.1002/2013JC009291,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2013JC009291>

Horii, T., I. Ueki and K. Ando, (2013) Contrasting Development and Decay Processes of Indian Ocean Dipoles in the 2000s, *Scientific Online Letters on the Atmosphere*, 9, 183-186, doi:10.2151/sola.2013-041, [https://www.jstage.jst.go.jp/article/sola/9/0/9\\_2013-041/\\_article](https://www.jstage.jst.go.jp/article/sola/9/0/9_2013-041/_article)

Horii, T., I. Ueki, K. Ando and K. Mizuno (2013), Eastern Indian Ocean warming associated with the negative Indian Ocean dipole: A case study of the 2010 event, *Journal of Geophysical Research - Oceans*, 118, doi:10.1002/jgrc.20071,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/jgrc.20071>

Katsumata, K., B. M. Sloyan and S. Masuda (2013), Diapycnal and isopycnal transports in the Southern Ocean estimated by a box inverse model, *Journal of Physical Oceanography*, 43(11), 2270-2287, doi:10.1175/JPO-D-12-0210.1, <https://journals.ametsoc.org/view/journals/phoc/43/11/jpo-d-12-0210.1.xml>

12-0210.1.xml

- Katsumata, K. and S. Masuda (2013), Variability in Southern Hemisphere ocean circulation from the 1980s to the 2000s, *Journal of Physical Oceanography*, 43(9), 1981-2007, doi:10.1175/JPO-D-12-0209.1, <https://journals.ametsoc.org/view/journals/phoc/43/9/jpo-d-12-0209.1.xml>
- Katsura, S., E. Oka, B. Qiu and N. Schneider (2013), Formation and subduction of North Pacific Tropical Water and their interannual variability., *Journal of Physical Oceanography*, 43, 2400-2415, doi:10.1175/JPO-D-13-031.1, <https://journals.ametsoc.org/view/journals/phoc/43/11/jpo-d-13-031.1.xml>
- Kobayashi, T., K. Watanabe and M. Tachikawa (2013), Deep NINJA collects profiles down to 4000 meters, *Sea Technology*, 54 (2), 41-44, [http://www.seatechnology.com/features/2013/0213/deep\\_ninja.php](http://www.seatechnology.com/features/2013/0213/deep_ninja.php)
- Masuda, S. and S. Hosoda (2013), Effective Design of Profiling Float Network for Oceanic Heat-Content Monitoring, *The Scientific World Journal*, vol. 2014, Article ID 340518, 2014. doi:10.1155/2014/340518", <https://www.hindawi.com/journals/tswj/2014/340518/>
- Nakamura, H., A. Nishina, Z. Liu, F. Tanaka, M. Wimbush and J.-H. Park (2013), Intermediate and deep water formation in the Okinawa Trough, *JOURNAL OF GEOPHYSICAL RESEARCH: OCEANS*, 118,, doi:10.1002/2013JC009326, <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2013JC009326>
- Qiu, B., D. L. Rudnick, S. Chen and Y. Kashino (2013), Quasi-stationary North Equatorial Undercurrent jets across the tropical North Pacific Ocean, *GEOPHYSICAL RESEARCH LETTERS*, VOL. 40, 1-5, doi:10.1002/grl.50394, <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/grl.50394>
- Seiki, A., M. Katsumata, T. Horii, T. Hasegawa, K. J. Richards, K. Yoneyama, and R. Shirooka (2013), Abrupt cooling associated with the oceanic Rossby wave and lateral advection during CINDY2011, *Journal of Geophysical Research - Oceans*, 118, 5523-5535, doi:10.1002/jgrc.20381
- Shiozaki, T. and Y.-l. L. Chen (2013), Different mechanisms controlling interannual phytoplankton variation in the South China Sea and the western North Pacific subtropical gyre: A satellite study, *Advances in Space Research*, 52, 668-676, <https://www.sciencedirect.com/science/article/pii/S0273117713002603>
- Sugimoto, S., N. Takahashi and K. Hanawa (2013), Marked freshening of North Pacific subtropical mode water in 2009 and 2010: Influence of freshwater supply in the 2008 warm season, *Geophysical Research Letters*, 40 (12), 3102-3105
- Ueno, H (2013), Decadal variation of temperature inversions along Line P, *Journal of Oceanography*, 69 (2), 277-283, 10.1007/s10872-013-0172-x, <https://link.springer.com/article/10.1007/s10872-013-0172-x>
- Wakita, M., S. Watanabe, M. Honda, A. Nagano, K. Kimoto, K. Matsumoto, M. Kitamura, K. Sasai, H. Kawakami, T. Fujiki, K. Sasaoka, Y. Nakano, and A. Murata (2013), Ocean acidification from 1997 to 2011 in the subarctic western North Pacific Ocean, *Biogeosciences*, 10, 7817-7827, [www.biogeosciences.net/10/7817/2013/](http://www.biogeosciences.net/10/7817/2013/) doi:10.5194/bg-10-7817-2013
- Watanabe, M. and T. Hibiya (2013), Assessment of mixed layer models embedded in an ocean general

- circulation model, *Journal of Oceanography*, 69(3), 329-338, doi:10.1007/s10872-013-0176-6,  
<https://link.springer.com/article/10.1007/s10872-013-0176-6>
- Yasunaka, S., Y. Nojiri, S. Nakaoka, T. Ono, H. Mukai, and N. Usui (2013), Monthly maps of sea surface dissolved inorganic carbon in the North Pacific: Basin-wide distribution and seasonal variation, *J. Geophys. Res. Oceans*, 118, 3843–3850, doi:10.1002/jgrc.20279.
- Yoneyama, K., C. Zhang, and C. N. Long (2013), Tracking pulses of the Madden-Julian Oscillation, *Bull. Amer. Meteor. Soc.*, 94, 1871-1891, doi:10.1175/BAMS-D-12-00157.1

## 2012

- Ebuchi, N. and H. Abe (2012), Evaluation of sea surface salinity observed Aquarius., *Proceedings of IGARSS 2012*, pp. 5767-5769, doi:10.1109/IGARSS.2012.6352300,  
<https://ieeexplore.ieee.org/document/6352300>
- Ebuchi, N. and H. Abe (2012), Evaluation of sea surface salinity observed Aquarius on SAC-D., Proceedings of SPIE Asia-Pacific Remote Sensing Conference, *Remote Sensing of the Marine Environment II*, DVD, doi:10.1117/12.970253,  
<http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=1396114>
- Isobe, A., S. Kako, X. Guo and H. Takeoka (2012), Ensemble numerical forecasts of the sporadic Kuroshio-water intrusion (kyucho) into shelf and coastal waters, *Ocean Dynamics*, 62, 633-644
- Kobashi, F. and S.-P. Xie (2012), Interannual variability of the North Pacific Subtropical Countercurrent: role of local ocean-atmosphere interaction, *Journal of Oceanography*, 68, 113-126,  
doi:10.1007/s10872-011-0048-x, <https://link.springer.com/article/10.1007/s10872-011-0048-x>
- Kobashi, F. and A. Kubokawa (2012), Review on North Pacific Subtropical Countercurrents and Subtropical Fronts: role of mode waters in ocean circulation and climate, *Journal of Oceanography*, 68, 21-43 , DOI:10.1007/s10872-011-0083-7,  
<https://link.springer.com/article/10.1007/s10872-011-0083-7>
- Kobayashi, T., K. Mizuno and T. Suga (2012), Long-term variations of surface and intermediate waters in the southern Indian Ocean along 32S, *Journal of Oceanography*, 68, 243-265, DOI:  
10.1007/s10872-011-0093-5, <http://link.springer.com/article/10.1007%2Fs10872-011-0093-5>
- Kobayashi, T., K. Amaike, K. Watanabe, T. Ino, K. Asakawa, T. Suga, T. Kawano, T. Hyakudome and M. Matsuura (2012), Deep NINJA: A new profiling float for deep ocean observation, *Proceedings of The 22nd (2012) International Offshore and Polar Engineering Conference*, 2, 454-461
- Kouketsu, S., H. Tomita, E. Oka, S. Hosoda, T. Kobayashi and K. Sato (2012), The role of meso-scale eddies in mixed layer deepening and mode water formation in the western North Pacific, *Journal of Oceanography*, 68, 63-77, doi:10.1007/s10872-011-0049-9,  
<https://link.springer.com/article/10.1007/s10872-011-0049-9>
- Nagano, A., H. Ichikawa, Y. Yoshikawa, S. Kizu and K. Hanawa (2012), Variation of the southward interior flow of the North Pacific subtropical gyre, as revealed by a repeat hydrographic survey, *Journal of Oceanography*, 68, 361-368, DOI: 10.1007/s10872-012-0102-3,  
<http://www.springerlink.com/content/y23248345v574577/?MUD=MP>

- Nagura, M. and M.J. McPhaden (2012), The dynamics of wind-driven intraseasonal variability in the equatorial Indian Ocean, *Journal of Geophysical Research - Oceans*, 117, C02001, doi:10.1029/2011JC007405
- Oka, E. and B. Qiu (2012), Progress of North Pacific mode water research in the past decade, *Journal of Oceanography*, Volume 68, Issue 1, pp 5-20, <https://link.springer.com/article/10.1007/s10872-011-0032-5>
- Oka, E., B. Qiu, S. Kouketsu, K. Uehara and T. Suga (2012), Decadal seesaw of the Central and Subtropical Mode Water formation associated with the Kuroshio Extension variability, *Journal of Oceanography*, 68, 355-360, DOI:10.1007/s10872-011-0098-0, <https://link.springer.com/article/10.1007/s10872-011-0098-0>
- Sasaki, H., S.-P. Xie, B. Taguchi, M. Nonaka, S. Hosoda and Y. Masumoto (2012), Interannual variations of the Hawaiian Lee Countercurrent induced by potential vorticity vorticity in the subsurface, *Journal of Oceanography*, 68, 93-111, <https://link.springer.com/article/10.1007/s10872-011-0074-8>
- Taguchi, B., R. Furue, N. Komori, A. Kuwano-Yoshida, M. Nonaka, H. Sasaki and W. Ohfuchi (2012), Deep oceanic zonal jets constrained by fine-scale wind stress curls in the South Pacific Ocean: A high-resolution coupled GCM study., *Geophysical Research Letters*, 39, DOI:10.1029/2012GL051248
- Toyama, K. and T. Suga (2012), Roles of mode waters in formation and maintenance of central water in the North Pacific, *Journal of Oceanography*, 68, 79-92, <https://link.springer.com/article/10.1007/s10872-011-0040-5>
- Ueno, H., I. Yasuda, S. Itoh, H. Onishi, Y. Hiroe, T. Suga and E. Oka (2012), Modification of a Kenai eddy along the Alaskan Stream, *J. Geophys. Res.*, 117, C08032, doi:10.1029/2011JC007506, <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2011JC007506>
- Wada, A., N. Usui and K. Sato (2012), Relationship of maximum tropical cyclone intensity to sea surface temperature and tropical cyclone heat potential in the North Pacific Ocean, *Journal of Geophysical Research - Atmosphere*, 117, D11118, doi:10.1029/2012JD017583
- Wagawa, T., Y. Yoshikawa, Y. Isoda, E. Oka, K. Uehara, T. Nakano, K. Kuma and S. Takagi (2012), Flow fields around the Emperor Seamounts detected from current data, *Journal of Geophysical Research*, 117, C06006, doi:10.1029/2011JC007530, <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2011JC007530>

## 2011

- Asakawa, K., M. Nakamura, T. Kobayashi, Y. Watanabe, T. Hyakudome, Y. Ito and J. Kojima (2011), Design Concept of Tsukuyomi - Underwater Glider Prototype for Virtual Mooring -, *Proc. of OCEANS 2011 Santander Spain*
- Kashino, Y., A. Ishida and S. Hosoda (2011), Observed ocean variability in the Mindanao Dome region, *Journal of Physical Oceanography*, 41, 287-302, doi:10.1175/2010JPO4329.1
- Kobayashi, T., K. Amaike, K. Watanabe, T. Ino, K. Asakawa, T. Suga, T. Kawano and T. Hyakudome

- (2011), Deep NINJA: A new float for deep ocean observation developed in Japan, *Proc. International Symposium on Underwater Technology 2011 and International Workshop on Scientific Use of Submarine Cables & Related Technologies 2011, pp.in CD-ROM*
- Oka, E., T. Suga, C. Sukigara, K. Toyama, K. Shimada and J. Yoshida (2011), Eddy resolving observation of the North Pacific Subtropical Mode Water, *Journal of Physical Oceanography*, 41, 666-681, <http://journals.ametsoc.org/doi/abs/10.1175/2011JPO4501.1>
- Oka, E., S. Kouketsu, K. Toyama, K. Uehara, T. Kobayashi, S. Hosoda and T. Suga (2011), Formation and Subduction of Central Mode Water Based on Profiling Float Data 2003-08, *Journal of Physical Oceanography*, 41, 113-129, <https://journals.ametsoc.org/view/journals/phoc/41/1/2010jpo4419.1.xml>
- Saito, H., T. Suga, K. Hanawa and N. Shikama (2011), The Transition Region Mode Water of the North Pacific and its rapid modification, *Journal of Physical Oceanography*, 41, 1639-1658
- Sukigara, C., T. Suga, T. Saino, K. Toyama, D. Yanagimoto, K. Hanawa and N. Shikama (2011), Biogeochemical evidence of large diapycnal diffusivity associated with the Subtropical Mode Water of the North Pacific, *Journal of Oceanography*, 67(1), 77-85

## 2010

- Doi, T., T. Tozuka and T. Yamagata (2010), The Atlantic Meridional Mode and its coupled variability with the Guinea Dome, *Journal of Climate*, 23(2), 455-475
- Freeland, H., D. Roemmich, S. Garzoli, P. LeTraon, M. Ravichandran, S. Riser, V. Thierry, S. Wijffels, M. Belbeoch, J. Gould, F. Grant, M. Ignazewski, B. King, B. Klein, K. Mork, B. Owens, S. Pouliquen, A. Sterl, T. Suga, M. Suk, P. Sutton, A. Troisi, P. Velez-Belchi and J. Xu (2010), Argo - A Decade of Progress, In Proceedings of OceanObs'09: Sustained Ocean Observations and Information for Society (Vol. 2), Venice, Italy, 21-25 September 2009, Hall, J., Harrison, D.E. & Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.32
- Gruber, N., S. C. Doney, S. R. Emerson, D. Gilbert, T. Kobayashi, A. Kortzinger, G. C. Johnson, K. S. Johnson, S. C. Riser and O. Ulloa (2010), Adding oxygen to Argo: Developing a global in-situ observatory for ocean deoxygenation and biogeochemistry, In Proceedings of the OceanObs'09: Sustained Ocean Observations and Information for Society Conference (Vol. 2), Venice, Italy, 21-25 September 2009, Hall, J., Harrison D. E. and Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09.cwp.39
- Hosoda, S., T. Ohira, K. Sato and T. Suga (2010), Improved description of global mixed-layer depth using Argo profiling floats, *Journal of Oceanography*, 66(6), 773-787
- Hosoda, S., T. Suga, N. Shikama and K. Mizuno (2010), Recent Change in Global Sea Surface Layer Salinity Detected by Argo Float Array, In Proceedings of the OceanObs'09: Sustained Ocean Observations and Information for Society Conference (Annex), Venice, Italy, 21-25 September 2009, Hall, J., Harrison D. E. and Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09
- Isobe, A., X. Guo and H. Takeoka (2010), Hindcast and predictability of sporadic Kuroshio-water

- intrusion (kyucho in the Bungo Channel) into the shelf and coastal waters, *Journal of Geophysical Research -Oceans*, 115, C04023, doi:10.1029/2009JC005818
- Katsumata, K. and H. Yoshinari (2010), Uncertainties in global mapping of Argo drift data at the parking level, *Journal of Oceanography*, 66, 553-559, <http://dx.doi.org/10.1007/s10872-010-0046-4>
- Kobayashi, T., K. Mizuno and T. Suga (2010), Long-term variations of Subantarctic Mode Water at 32&deg;S in the Indian Ocean , In Proceedings of the OceanObs'09: Sustained Ocean Observations and Information for Society Conference (Annex), Venice, Italy, 21-25 September 2009, Hall, J., Harrison D. E. and Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09
- Kobayashi, T., T. Nakamura, N. Ogita and H. Nakajima (2010), Quality control of Argo surface trajectory data considering position errors fixed by Argos system, In Proceedings of the OceanObs'09: Sustained Ocean Observations and Information for Society Conference (Annex), Venice, Italy, 21-25 September 2009, Hall, J., Harrison D. E. and Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09
- Kobayashi, T., K. Asakawa, K. Watanabe, T. Ino, K. Amaike, H. Iwamiya, M. Tachikawa, N. Shikama, and K. Mizuno (2010), New buoyancy engine for autonomous vehicles observing deeper oceans, *Proceedings of The 20th (2010) International Offshore and Polar Engineering Conference*, 2, 401-405
- Masuda, S., T. Awaji, N. Sugiura, J. P. Matthews, T. Toyoda, Y. Kawai, T. Doi, S. Kouketsu, H. Igarashi, K. Katsumata, H. Uchida, T. Kawano and M. Fukasawa (2010), Simulated Rapid Warming of Abyssal North Pacific Waters, *Science*, 329, 319-322, 10.1126/science.1188703
- Nagura, M. and M.J. McPhaden (2010), Dynamics of zonal current variations associated with the Indian Ocean dipole, *Journal of Geophysical Research - Oceans*, 115, 10.1029/2010JC006423, <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2010JC006423>
- Nagura, M. and M.J. McPhaden (2010), Wyrtki Jet dynamics: Seasonal variability, *Journal of Geophysical Research - Oceans*, 115, 10.1029/2009JC005922, <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2009JC005922>
- Nonaka, M. and Co-Authors (2010), A revisit of the reason why the properties of the Central Mode Water in the North Pacific changed in regime shifts, In Proceedings of the OceanObs'09: Sustained Ocean Observations and Information for Society Conference (Annex), Venice, Italy, 21-25 September 2009, Hall, J., Harrison D. E. and Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09,1
- Oka, E. (2010), Seasonal and Interannual Variation of North Pacific Subtropical Mode Water in 2003-2006, In Proceedings of the OceanObs'09: Sustained Ocean Observations and Information for Society Conference (Annex), Venice, Italy, 21-25 September 2009, Hall, J., Harrison D. E. and Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09
- Osafune, S. and I. Yasuda (2010), Bidecadal variability in the Bering Sea and the relation with 18.6 year period nodal tidal cycle, *Journal of Geophysical Research*, 115, C02014, doi:10.1029/2008JC005110,

- <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2008JC005110>
- Sasaki, Y. N., N. Schneider, N. Maximenko and K. Lebedev (2010), Observational evidence for propagation of decadal spiciness anomalies in the North Pacific, *Geophysical Research Letters*, 37, L07708, doi:10.1029/2010GL042716,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2010GL042716>
- Sato, N., K. Yoneyama, Y. N. Takayabu, R. Shirooka, and M. Yoshizaki (2010), Variability of the oceanic surface and subsurface layers in the warm pool associated with the atmospheric northward-propagating intraseasonal variability, *Deep Sea Res. II*, 57, 1201-1211, doi:10.1016/j.dsr2.2009.12.009
- Sekiguchi, H. and N. Inoue (2010), Larval recruitment and fisheries of the spiny lobster *Panulirus japonicus* coupling with the Kuroshio subgyre circulation in the western North Pacific: a review, *Journal of the marine biology association of India*, 52(2), 195-207
- Suga, T. and Co-Authors (2010), Physical-Biogeochemical Study Using a Profiling Float: Subsurface Primary Production in the Subtropical North Pacific, In Proceedings of the OceanObs'09: Sustained Ocean Observations and Information for Society Conference (Annex), Venice, Italy, 21-25 September 2009, Hall, J., Harrison D. E. and Stammer, D., Eds., ESA Publication WPP-306, doi:10.5270/OceanObs09
- Sugimoto, S. and K. Hanawa (2010), Impact of Aleutian Low activity on the STMW formation in the Kuroshio recirculation gyre region, *Geophysical Research Letters*, 37, L07708, doi:10.1029/2009GL041795,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2009GL041795>
- Tomita, H., S. Kako, M. F. Cronin, and M. Kubota (2010), Preconditioning of the wintertime mixed layer at the Kuroshio Extension Observatory, *J. Geophys. Res.*, 115, C12053, doi:10.1029/2010JC006373.
- Toyama, K. and T. Suga (2010), Vertical structure of North Pacific mode waters, *Deep Sea Research II*, 57, 1152-1160, doi:10.1016/j.dsr2.2009.12.004,  
<https://www.sciencedirect.com/science/article/abs/pii/S096706451000007X>

## 2009

- Hosoda, S., T. Suga, N. Shikama and K. Mizuno (2009), Global surface layer salinity change detected by Argo and its implication for hydrological cycle intensification, *Journal of Oceanography*, 65(4), 579-586
- Kobayashi, T., B. A. King and N. Shikama (2009), An estimation of average lifetime of the latest model of APEX floats, *Journal of Oceanography*, 65(1), 81-89,  
<http://www.terrapub.co.jp/journals/JO/abstract/6501/65010081.html>
- Iwamaru, H., F. Kobashi, and N. Iwasaka (2009), Temporal variations of the winter mixed layer south of the Kuroshio Extension, *Journal of Oceanography*, 66(1), 147-153
- Ohno, Y., N. Iwasaka, F. Kobashi and Y. Sato (2009), Mixed layer depth climatology of the North Pacific from Argo observations, *Journal of Oceanography*, 65(1), 1-16,

- <https://link.springer.com/article/10.1007/s10872-009-0001-4>
- Oka, E. (2009), Seasonal and interannual variation of North Pacific Subtropical Mode Water in 2003-2006, *Journal of Oceanography*, 65(2), 151-164,  
<https://link.springer.com/article/10.1007/s10872-009-0015-y>
- Oka, E., K. Toyama and T. Suga (2009), Subduction of North Pacific Central Mode Water associated with subsurface mesoscale eddy, *Geophysical Research Letters*, 36, L08607, doi:10.1029/2009GL037540,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2009GL037540>
- Roemmich, D., M. Belbeoch, H. J. Freeland, S. L. Garzoli, W. J. Gould, F. Grant, M. Ignaszewski, B. King, B. Klein, P.-Y. Le Traon, K. A. Mork, W. B. Owens, S. Pouliquen, M. Ravichandran, S. Riser, A. Sterl, T. Suga, M.-S. Suk, P. Sutton, V. Thierry, P. J. Velez-Belchi, S. Wijffels and J. Xu (2009), Argo: The challenge of continuing 10 years of progress, *Oceanography*, 22 (3), 46-55
- Sato, K. and T. Suga (2009), Structure and modification of the South Pacific Eastern Subtropical Mode Water, *Journal of Physical Oceanography*, 39, 1700-1714, doi: 10.1175/2008JPO3940.1
- Shimizu, Y., K. Takahashi, S. Ito, S. Kakehi, H. Tatebe, I. Yasuda, A. Kusaka and T. Nakayama (2009), Transport of subarctic large copepods from the Oyashio area to the mixed water region by the coastal Oyashio intrusion, *Fisheries Oceanography*, 18(5), 312-327, doi:10.1111/j.1365-2419.2009.00513, <https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1365-2419.2009.00513.x>
- Sukigara, C., T. Suga, T. Saino, K. Toyama, D. Yanagimoto, K. Hanawa and N. Shikama (2009), Subsurface primary production in the western subtropical North Pacific as evidence of large diapycnal diffusivity associated with the Subtropical Mode Water, *Ocean Science Discussion*, 6, 1717-1734
- Takano, A., H. Yamazaki, T. Nagai and O. Honda (2009), A Method to Estimate Three-Dimensional Thermal Structure from Satellite Altimetry Data, *Journal of Atmospheric and Oceanic Technology*, 26, 2655-2664, 10.1175/2009JTECHO669.1
- Ueno, H., H. J. Freeland, W. R. Crawford, H. Onishi, E. Oka, K. Sato and T. Suga (2009), Anticyclonic eddies in the Alaskan Stream, *Journal of Physical Oceanography*, 39, 934-951, doi:10.1175/2008JPO3948.1,  
<https://journals.ametsoc.org/view/journals/phoc/39/4/2008jpo3948.1.xml>
- Wada, A., K. Sato, N. Usui and Y. Kawai (2009), Comment on "Importance of pre-existing oceanic conditions to upper ocean response induced by Super Typhoon Hai-Tang" by Z.-W. Zheng, C.-R. Ho, and N.-J. Kuo., *Geophysical Research Letters*, 36, L09603

## 2008

- Hosoda, S., T. Ohira and T. Nakamura (2008), A monthly mean dataset of global oceanic temperature and salinity derived from Argo float observations, *JAMSTEC Report of Research and Development*, 8, 47-69
- Izumo, T., C. de Boyer Montegut, J.J. Luo, et al. (2008), The Role of the Western Arabian Sea Upwelling in Indian Monsoon Rainfall Variability, *Journal of Climate*, 21(21), 5603-5623,

- doi:10.1175/2008JCLI2158.1,  
<https://journals.ametsoc.org/view/journals/clim/21/21/2008jcli2158.1.xml>
- Kobayashi, T. and H. Nakajima (2008), Variations of the surface arrival time of Park and Profile APEX floats due to their depth control scheme, *JAMSTEC Report of Research and Development*, 8 ,5-11
- Nagura, Motoki. and M. J. McPhaden (2008), The dynamics of zonal current variations in the central equatorial Indian Ocean, *Geophysical Research Letters*, 35, L12803, doi:10.1029/2008GL035961,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2008GL035961>
- Nakamura, T., N. Ogita and T. Kobayashi (2008), Quality control method of Argo float position data, *JAMSTEC Report of Research and Development*, 7, 11-18,
- Sato, N., R. Shirooka, M. Yoshizaki and Y. N. Takayabu (2008), Meridional SST gradient in the western North Pacific warm pool associated with typhoon generation, *Geophys. Res. Lett.*, 35, L12803, doi:10.1029/2008GL033987,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2008GL033987>
- Siswanto, E., J. Ishizaka, A. Morimoto, K. Tanaka, K. Okamura, A. Kristijono and T. Saino (2008), Ocean physical and biogeochemical responses to the passage of Typhoon Meari in the East China Sea observed from Argo float and multiplatform satellites, *Geophysical Research Letters*, 35(15), L15604, doi:10.1029/2008GL035040,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2008GL035040>
- Suga, T., Y. Aoki, H. Saito and K. Hanawa (2008), Ventilation of the North Pacific subtropical pycnocline and mode water formation, *Progress in Oceanography*, 77(4), 285-297, doi:10.1016/j.pocean.2006.12.005,  
<https://www.sciencedirect.com/science/article/abs/pii/S0079661108000645>
- Uchida, H. and S. Imawaki (2008), Estimation of the sea level trend south of Japan by combining satellite altimeter data with in situ hydrographic data, *Journal of Geophysical Research*, 113(C9), C09035 , doi:10.1029/2008JC004796,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2008JC004796>
- Uchida, H., T. Kawano and M. Fukasawa (2008), In situ calibration of moored CTDs used for monitoring abyssal water, *Journal of Atmospheric and Oceanic Technology*, 25(9), 1695-1702, doi:10.1175/2008JTECHO581.1,  
[https://journals.ametsoc.org/view/journals/atot/25/9/2008jtecho581\\_1.xml](https://journals.ametsoc.org/view/journals/atot/25/9/2008jtecho581_1.xml)
- Yoneyama, K., Y. Masumoto, Y. Kuroda, M. Katsumata, K. Mizuno, Y. N. Takayabu, M. Yoshizaki,A. Shareef, Y. Fujiyoshi, M. J. McPhaden, V. S. N. Murty, R. Shirooka, K. Yasunaga, H. Yamada, N. Sato, T. Ushiyama, Q. Moteki, A. Seiki, M. Fujita, K. Ando, H. Hase, I. Ueki, T. Horii, C. Yokoyama, and T. Miyakawa (2008), MISMO field experiment in the equatorial Indian Ocean, *Bull. Amer. Meteor. Soc.*, 89, 1889-1903, doi: 10.1175/2008BAMS2519.1

## 2007

- Achutaroa, K.M., M. Ishii, B.D. Santer, et al. (2007), Simulated and observed variability in ocean temperature and heat content, *Proc Natl Acad Sci USA*, 104(26), 10768-73, doi:

- 10.1073/pnas.0611375104, <https://www.pnas.org/doi/10.1073/pnas.0611375104>
- Aoki, S., M. Hariyama, H. Mitsudera, H. Sasaki and Y. Sasai (2007), Formation regions of Subantarctic Mode Water detected by OFES and Argo profiling floats, *Geophysical Research Letters*, 34(10), L10606, doi:10.1029/2007GL029828,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2007GL029828>
- Gruber, N., S. C. Doney, S. R. Emerson, D. Gilbert, T. Kobayashi, A. Kortzinger, G. C. Johnson, K. S. Johnson, S. C. Riser and O. Ulloa (2007), THE ARGO-OXYGEN PROGRAM ARGO-O2, A white paper to promote the addition of oxygen sensors to the international Argo float program
- Kako, S. and M. Kubota (2007), Variability of mixed layer depth in Kuroshio/Oyashio Extension region: 2005-2006, *Geophysical Research Letters*, 34(11), L11612, doi:10.1029/2007GL030362,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2007GL030362>
- Kikuchi, T., J. Inoue and D. Langevin (2007), Argo-type profiling float observations under the Arctic multiyear ice, *Deep-Sea Research Part I: Oceanographic Research Papers*, 54 (9) , 1675-1686, doi:10.1016/j.dsr.2007.05.011,  
<https://www.sciencedirect.com/science/article/abs/pii/S096706370700132X>
- Kobayashi, T. and G. C. Johnson (2007), Argo Float Pressure Offset Adjustment Recommendations, In Supporting documents for the 8th meeting of the International Argo Steering Team
- Konstantin V. L., H. Yoshinari, N. A. Maximenko and P. W. Hacker (2007), YoMaHa'07: Velocity data assessed from trajectories of Argo floats at parking level and at the sea surface, *IPRC Technical Note*, No.4(2), June 12, 2007, 16p, <http://apdrc.soest.hawaii.edu/projects/yomaha/>
- Nakanowatari, T., K. I. Ohshima and M. Wakatsuchi (2007), Warming and oxygen decrease of intermediate water in the northwestern North Pacific, originating from the Sea of Okhotsk, 1955-2004, *Geophysical Research Letter*, 34(4), DOI:10.1029/2006GL028243
- Oka, E., L. D. Talley and T. Suga (2007), Temporal variability of winter mixed layer in the mid- to high-latitude North Pacific, *Journal of Oceanography*, 63(2), 293-307,  
<https://link.springer.com/article/10.1007/s10872-007-0029-2>
- Saito, H., T. Suga, K. Hanawa and T. Watanabe (2007), A new type of pycnostad in the western subtropical-subarctic transition region in the North Pacific: Transition Region Mode Water, *Journal of Oceanography*, 63(4), 589-600, <https://link.springer.com/article/10.1007/s10872-007-0052-3>
- Sato, N., K. Yoneyama, M. Katsumata, R. Shirooka and Y. N. Takayabu (2007), An ITCZ-like convergence zone over the Indian Ocean in boreal late autumn, *Geophysical Research Letters*, 34(10), L10811, doi:10.1029/2006GL028341,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2006GL028341>
- Schneider, W., M. Fukasawa, J. Garces-Vargas, et al. (2007), Spin-up of South Pacific subtropical gyre freshens and cools the upper layer of the eastern South Pacific Ocean, *Geophysical Research Letters*, 34 (24), L24606, doi:10.1029/2007GL031933,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2007GL031933>

- Suga, T. (2007), Argo: Taking the pulse of the ocean, *ARGOS forum*, 64, 14-17
- Sugimoto, S. and K. Hanawa (2007), Further evidence for non-reemergence of winter SST anomalies in the North Pacific eastern subtropical mode water area, *Journal of Oceanography*, 63(4), 625-635, <https://link.springer.com/article/10.1007/s10872-007-0055-0>
- Ueno, H., E. Oka, T. Suga, H. Onishi and D. Roemmich (2007), Formation and variation of temperature inversions in the eastern subarctic North Pacific, *Geophysical Research Letters*, 34(5), L05603, doi:10.1029/2006GL028715, <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2006GL028715>
- Yokota, M., S. Asai, S. Hosoda, M. Hirano, N. Shikama, T. Nagahama and M. Fujisaki (2007), Recalibration of temperature and conductivity sensors affixed on Argo floats, *JAMSTEC Rep. Res. Dev.*, 5, 31-39,

## 2006

- Bingham, F. M. and T. Suga (2006), Distributions of mixed layer properties in North Pacific water mass formation areas: comparison of Argo floats and World Ocean Atlas 2001, *Ocean Science*, 2(1), 61-70, <https://os.copernicus.org/articles/2/61/2006/>
- Hosoda S., S. Minato and N. Shikama (2006), Seasonal Temperature Variation below the Thermocline Detected by Argo Floats, *Geophysical Research Letters*, 33(13), L13604, doi:10.1029/2006GL026070, <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2006GL026070>
- Isoguchi, O., H. Kawamura and E. Oka (2006), Quasi-stationary jets transporting surface warm waters across the transition zone between the subtropical and the subarctic gyres in the North Pacific, *Journal of Geophysical Research*, 111, C10003, doi:10.1029/2005JC003402, <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2005JC003402>
- Iwasaka, N., F. Kobashi, Y. Kinoshita and Y. Ohno (2006), Seasonal variations of the upper ocean in the western North Pacific observed by an Argo float, *Journal of Oceanography*, 62(4), 481-492, <https://link.springer.com/article/10.1007/s10872-006-0070-6>
- Kobayashi, T. and T. Suga (2006), The Indian Ocean HydroBase: A high-quality climatological dataset for the Indian Ocean, *Progress in Oceanography*, 68(1), 75-114, doi:10.1016/j.pocean.2005.07.001, <https://www.sciencedirect.com/science/article/abs/pii/S0079661105001242>
- Panteleev, GG. P. Stabeno, V.A. Luchin, D.A. Nechaev and M. Ikeda (2006), Summer transport estimates of the Kamchatka Current derived as a variational inverse of hydrophysical and surface drifter data, *Geophysical Research Letters*, 33(9), L09609, doi:10.1029/2005GL024974, <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2005GL024974>
- Sato, K., T. Suga and K. Hanawa (2006), Barrier layers in the subtropical gyres of the world's oceans, *Geophysical Research Letters*, 33(8), L08603, doi:10.1029/2005GL025631, <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2005GL025631>
- Sato, N., H. Tokinaga, R. Shirooka and N. Suginoara (2006), Influence of mechanical mixing on a low

summertime SST in the western North Pacific ITCZ region, *Geophysical Research Letters*, 33(14), L14608, doi:10.1029/2006GL025997,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2006GL025997>

Yoshida, T. and M. Hoshimoto (2006), Heat content change in the surface isothermal layer of a warm core ring in the sea east of Japan, *Journal of Oceanography*, 62(3), 283-287,  
<https://link.springer.com/article/10.1007/s10872-006-0052-8>  
<http://www.terrapub.co.jp/journals/JO/abstract/6203/62030283.html>

Yoshinari, H., N. A. Maximenko and P. W. Hacker (2006), YoMaHa'05: Velocity data assessed from trajectories of Argo floats at parking level and at the sea surface, *IPRC Technical Note*, No.4, February 27, 2006, 20, <http://apdrc.soest.hawaii.edu/projects/yomaha/>

## 2005

Fujii, Y. (2005), Preconditioned optimizing utility for large-dimensional analyses (POpULar), *Journal of Oceanography*, 61(1), 167-181, <https://link.springer.com/article/10.1007/s10872-005-0029-z>

Kobayashi, T. and S. Minato (2005), What observation scheme should we use for profiling floats to achieve the Argo goal for salinity measurement accuracy? - Suggestions from software calibration -, *Journal of Atmospheric and Oceanic Technology*, 22(10), 1588-1601, doi:10.1175/JTECH1798.1,  
[https://journals.ametsoc.org/view/journals/atot/22/10/jtech1798\\_1.xml](https://journals.ametsoc.org/view/journals/atot/22/10/jtech1798_1.xml)

Kobayashi, T. and S. Minato (2005), Importance of reference dataset improvements for Argo delayed-mode quality control, *Journal of Oceanography*, 61(6), 995-1009, <https://link.springer.com/article/10.1007/s10872-006-0016-z>

Ohshima, K.I., S.C. Riser and M. Wakatsuchi (2005), Mixed layer evolution in the Sea of Okhotsk observed with profiling floats and its relation to sea ice formation, *Geophysical Research Letters*, 32(6), L06607, doi:10.1029/2004GL021823,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2004GL021823>

Oka, E. (2005), Long-term Sensor Drift Found in Recovered Argo Profiling Floats, *Journal of Oceanography*, 61(4), 775-781, <https://link.springer.com/article/10.1007/s10872-005-0083-6>

Oka, E. and T. Suga (2005), Differential Formation and Circulation of North Pacific Central Mode Water, *Journal of Physical Oceanography*, 35(11), 1997-2011, doi:10.1175/JPO2811.1,  
<https://journals.ametsoc.org/view/journals/phoc/35/11/jpo2811.1.xml>

Sato, N. (2005), Influences of intraseasonal disturbances on the oceanic mixed layer in the western North Pacific ITCZ region, *Geophysical Research Letters*, 32(17), L17601, doi:10.1029/2005GL023577,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2005GL023577>

Okumura, T., N. Iwasaka and E. Oka (2005), A simulation of Argo float distribution in the Southern Ocean, *JAMSTEC Rep. Res. Dev.*, 1, 45-49,

Ueno, H. and I. Yasuda (2005), Temperature inversions in the subarctic North Pacific, *Journal of Physical Oceanography*, 35(12), 2444-2456, doi:10.1175/JPO2829.1,

- <https://journals.ametsoc.org/view/journals/phoc/35/12/jpo2829.1.xml>  
Ueno, H., E. Oka, T. Suga and H. Onishi (2005), Seasonal and interannual variability of temperature inversions in the subarctic North Pacific, *Geophysical Research Letters*, 32(20), L20603, doi:10.1029/2005GL023948,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2005GL023948>
- Vinayachandran, P. N., T. Kagimoto, Y. Masumoto, P. Chauhan, S. R. Nayak and T. Yamagata (2005), Bifurcation of the East India Coastal Current east of Sri Lanka, *Geophysical Research Letters*, 32(15), L15606, doi:10.1029/2005GL022864,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2005GL022864>
- Zenk, W., G. Siedler, A. Ishida, E. Holfort, Y. Kashino, Y. Kuroda, T. Miyama and T.J. Muller (2005), Pathways and variability of the antarctic intermediate water in the western equatorial pacific ocean, *Progress In Oceanography*, 67(1-2), 245-281, doi:10.1016/j.pocean.2005.05.003,  
<https://www.sciencedirect.com/science/article/abs/pii/S0079661105001096>

## 2004

- Ando, K., T. Kobayashi, K. Izawa, K. Mizuno, S. Hosoda, N. Shikama and K. Takeuchi (2004), Preliminary results on the field tests of New profiling float of Japan (NINJA), *Argo Information Center (AIC) news letter*
- Endoh, T., H. Mitsudera, S. P. Xie and Qiu B (2004), Structure in the Subarctic North Pacific Simulated in a General Circulation Model, *Journal of Physical Oceanography*, 34(2), 360-371, doi:10.1175/1520-0485(2004)034<0360:TSITSN>2.0.CO;2,  
[https://journals.ametsoc.org/view/journals/phoc/34/2/1520-0485\\_2004\\_034\\_0360\\_tsitsn\\_2.0.co\\_2.xml](https://journals.ametsoc.org/view/journals/phoc/34/2/1520-0485_2004_034_0360_tsitsn_2.0.co_2.xml)
- Iwasaka, N., T. Okumura, E. Oka and K. Takeuchi (2004), A simulation of Argo float distribution in the South Pacific, *JAMSTECR (Report of Japan Marine Science and Technology Center)*, 49, 43-50, [http://docsrv.godac.jp/MSV2\\_DATA/23/shiken49\\_05.pdf](http://docsrv.godac.jp/MSV2_DATA/23/shiken49_05.pdf)
- Ohno, Y., T. Kobayashi, N. Iwasaka and T. Suga (2004), The mixed layer depth in the North Pacific as detected by the Argo floats, *Geophysical Research Letters*, 31(11), L11306, doi:10.1029/2004GL019576,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2004GL019576>
- Ohshima, K.I. , D. Simizu , M. Itoh , G. Mizuta , Y. Fukamachi , S. C. Riser and M. Wakatsuchi (2004), Sverdrup balance and the cyclonic gyre in the Sea of Okhotsk, *Journal of Physical Oceanography*, 34(2), 513-525, doi:10.1175/1520-0485(2004)034<0513:SBATCG>2.0.CO;2,  
[https://journals.ametsoc.org/view/journals/phoc/34/2/1520-0485\\_2004\\_034\\_0513\\_sbatcg\\_2.0.co\\_2.xml](https://journals.ametsoc.org/view/journals/phoc/34/2/1520-0485_2004_034_0513_sbatcg_2.0.co_2.xml)
- Oka, E. and K. Ando (2004), Stability of Temperature and Conductivity Sensors of Argo Profiling Floats, *Journal of Oceanography*, 60(2), 253-258,  
<https://link.springer.com/article/10.1023/B:JOCE.0000038331.10108.79>
- Sato, K., T. Suga and K. Hanawa (2004), Barrier layer in the North Pacific subtripical gyre, *Geophysical*

- Research Letters*, 31(5), L05301, doi:10.1029/2003GL018590,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2003GL018590>
- Shimizu, Y., T. Iwao, I. Yasuda, S. Ito, T. Watanabe, K. Uehara, N. Shikama and T. Nakano (2004),  
Formation Process of North Pacific Intermediate Water Revealed by Profiling Floats Set to Drift  
on 26.7sq Isopycnal Surface, *Journal of Oceanography*, 60(2), 453-462,
- Yang, C. S. and T. Suga (2004), Outbreak of water mass into the east coast of Japan evident in the  
Kuroshio Extension in June 2001, *Korean Journal of Remote Sensing*, 20(5), 307-313,,1

## 2003

- Iwao, T., M. Endoh, N. Shikama and T. Nakano (2003), Intermediate circulation in the northwestern  
North Pacific derived from subsurface floats, *Journal of Oceanography*, 59(6), 893-904,  
<https://link.springer.com/article/10.1023/B:JOCE.0000009579.86413.eb>
- Iwasaka, N., T. Suga, K. Takeuchi, K. Mizuno, Y. Takatsuki, K. Ando, T. Kobayashi, E. Oka, Y. Ichikawa,  
M. Miyazaki, H. Matsuura, K. Izawa, C. S. Yang, N. Shikama and M. Aoshima (2003), Pre-Japan-  
ARGO: Experimental observation of upper and middle layers south of the Kuroshio Extension  
region by using profiling floats, *Journal of Oceanography*, 59(1), 119-127,  
<https://link.springer.com/article/10.1023/A:1022880809737>
- Oka, E. and T. Suga (2003), Formation region of North Pacific Subtropical Mode Water in the late winter  
of 2003, *Geophysical Research Letters*, 30(23), 2205, doi:10.1029/2003GL018581,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2003GL018581>
- Uehara, H., T. Suga, K. Hanawa and N. Shikama (2003), A role of eddies in formation and transport of  
North Pacific Subtropical Mode Water, *Geophysical Research Letters*, 30(13), 1705,  
doi:10.1029/2003GL017542,  
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2003GL017542>
- Yanagimoto, D. and K. Taira (2003), Current measurements of the Japan Sea proper water and the  
intermediate water by ALACE floats, *Journal of Oceanography*, 59(3), 359-368,  
<https://link.springer.com/article/10.1023/A:1025572112019>

## 2002

- Ichikawa, Y., Y. Takatsuki, K. Mizuno, N. Shikama and K. Takeuchi (2002), Estimation of drifting  
velocity and error at parking depth for the Argo float, *ARGO Technical Report FY2001*,  
JAMSTEC, 68-77.
- Inoue, A., M. Miyazaki, K. Izawa, K. Ando, Y. Takatsuki and K. Mizuno (2002), Stability of water  
temperature in the conductivity and temperature calibration system and results of calibration  
experiments, *ARGO Technical Report FY2001*, JAMSTEC, 9-17.
- Iwasaka, N., M. Aoshima and T. Suga (2002), A case study of a cyclonic eddy structure observed in the  
south of the Kuroshio Extension by using profiling floats, *JAMSTECR (Report of Japan Marine  
Science and Technology Center)*, 46, 95-105,
- Izawa, K., K. Mizuno, M. Miyazaki, A. Inoue, K. Ando, Y. Takatsuki, T. Kobayashi and K. Takeuchi

- (2002), On the weight adjustment of profiling floats, *ARGO Technical Report FY2001*, JAMSTEC, 18-35.
- Kobayashi, T., Y. Ichikawa, Y. Takatsuki, T. Suga, N. Iwasaka, K. Ando, K. Mizuno, N. Shikama and K. Takeuchi (2002), Quality control of Argo data based on high quality climatological dataset (HydroBase) I, *ARGO Technical Report FY2001*, JAMSTEC, 36-48.
- Kobayashi, T., Y. Ichikawa, Y. Takatsuki, T. Suga, N. Iwasaka, K. Ando, K. Mizuno, N. Shikama and K. Takeuchi (2002), Correcting method for Argo data based on HydroBase I - Introduction of potential conductivity -, *ARGO Technical Report FY2001*, JAMSTEC, 49-56.
- Kobayashi, T., Y. Ichikawa, Y. Takatsuki, T. Suga, K. Mizuno, N. Iwasaka, N. Shikama and K. Takeuchi (2002), Study of density range with seasonal variations in water-mass structure, *ARGO Technical Report FY2001*, JAMSTEC, 57-67.
- Nakajima, H., Y. Takatsuki, K. Mizuno, K. Takeuchi and N. Shikama (2002), Data communication status of the ARGO floats, *ARGO Technical Report FY2001*, JAMSTEC, 78-87.
- Oka, E. (2002), A simulation for deployment of ARGO floats, *ARGO Technical Report FY2001*, JAMSTEC, 1-8.
- Takatsuki, Y., Y. Ichikawa, T. Kobayashi, K. Mizuno and K. Takeuchi (2002), Construction of the automated data processing and delayed-mode quality control system for profiling floats, *ARGO Technical Report FY2001*, JAMSTEC, 88-99.