

ZHAO NING

Ph.D., Scientist

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EDUCATION

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| OCT 2014-SEP 2017 | Ph.D., Earth System Science and Technology , Kyushu University, Japan
Advised by: Prof. Atsuhiko Isobe |
| SEP 2010-JULY 2013 | M.Sc., Environmental Sciences , Shanghai Ocean University, China
Advised by: Prof. Zhen Han |
| SEP 2006-JULY 2010 | B.Eng., Marine Fisheries Science and Technology , Shanghai Ocean University, China
Supervised by: Prof. Zhen Han |

RESEARCH EXPERIENCE

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|--------------------------|---|
| <i>Apr 2019-Present</i> | <i>Scientist</i> , Dynamic Coupling of Ocean-Atmosphere-Land Research Program, Japan Agency for Marine-Earth Science and Technology, Japan
Group Leader: Dr. Kunio Yoneyama
Theme: Air-sea interactions in Tropical Regions |
| <i>Oct 2017-Mar 2019</i> | <i>Post-doctoral Fellow</i> , Research Institute for Applied Mechanics, Kyushu University, Japan
Advisor: Prof. Naoki Hirose
Theme: The atmospheric responses to a diurnally-varying SST |
| OCT 2014-SEP 2017 | <i>Research Assistant</i> , Kyushu University, Japan
Advisor: Prof. Atsuhiko Isobe
Theme: Sub-weekly scale interactions between extratropical cyclones and the Sea of Japan based on numerical experiments |
| MAR 2012-FEB 2013 | <i>Special Research Student</i> , Nagasaki University, Japan
Advisor: Prof. Atsuyoshi Manda
Theme: Seasonal variation of the Subpolar Front in the Sea of Japan and its mechanisms |
| SEP 2010-JULY 2013 | <i>Graduate Research Assistant</i> , Shanghai Ocean University, China
Advisor: Prof. Zhen Han
Theme: Reconstruction of three-dimensional sea water temperature structures in the Northwestern Pacific using Argo and satellite-based datasets |
| SEP 2009-JULY 2010 | <i>Undergraduate Research Assistant</i> , Shanghai Ocean University, China
Supervisor: Prof. Zhen Han
Theme: Bio-energy flow of the ecosystems in the East China Sea based on the 'Ecopath' Model |

PUBLICATIONS

Peer-reviewed 2020

- **Zhao, N.** and T. Nasuno, 2020. How does the air-sea coupling frequency affect convection during the MJO passage? *Journal of Advances in Modeling Earth Systems*, 12, e2020MS002058, doi: 10.

1029/2020MS002058.

2018

- **Zhao, N.**, S. Iwasaki, M. Yamamoto, and A. Isobe, 2018. Modulation of Extratropical Cyclones by Previous Cyclones via the Sea Surface Temperature Anomaly over the Sea of Japan in Winter. *Journal of Geophysical Research: Atmospheres*, 123 (12), 6312-6330, doi: 10.1029/2017JD027503.

2016

- **Zhao, N.**, S. Iwasaki, A. Isobe, R.-C. Lien, and B. Wang, 2016. Intensification of the subpolar front in the Sea of Japan during winter cyclones. *Journal of Geophysical Research: Oceans*, 121 (4), 2253-2267, doi: 10.1002/2015JC011565.
- **Zhao, N.**, Z. Han, and X. Liu, 2016. Preliminary study on the frontogenesis and frontolysis of the oceanic temperature front in the Northwestern Pacific Ocean. *Marine Sciences*, 40 (1), 123-131, doi: 10.11759/hyhx20130419002. (in Chinese with English abstract)

2015

- **Zhao, N.** and Z. Han, 2015. A Simulation model of seawater vertical temperature by using back-propagation neural network. *Polish Maritime Research*, 22 (s1), 82-88, doi: 10.1515/pomr-2015-0037.

2014

- **Zhao, N.**, Z. Han, and A. Manda, 2014. Frontogenesis and frontolysis of the subpolar front in the surface mixed layer of the Japan Sea. *Journal of Geophysical Research: Oceans*, 119 (2), 1498-1509, doi: 10.1002/2013JC009419.
- **Zhao, N.**, Z. Han, and S. Wang, 2014. A segment-based seawater temperature model by using the relative gradient method. *Periodical of Ocean University of China*, 44 (9), 25-29. (in Chinese with English abstract)

2012

- Han, Z., and **N. Zhao**, 2012. Seawater temperature model from Argo data by LM-BP neural network in the Northwestern Pacific Ocean. *Marine Environmental Science*, 31 (4), 555-560, doi: 10.3969/j.issn.1007-6336.2012.04.021. (in Chinese with English abstract)

Non-peer-reviewed Thesis

- Sub-weekly scale interactions between the Japan Sea and extratropical cyclones in winter. Ph.D. thesis, 2017, Kyushu University.
- Study on the seawater temperature in the western North Pacific by using Argo data. M.Sc. thesis, 2013, Shanghai Ocean University. (in Chinese with English abstract)

CONFERENCES & SEMINARS

2020

- (POSTER BY ENGLISH) How does the air-sea coupling frequency affect convection during the MJO passage? Ocean Sciences Meeting 2020, Feb 2020, San Diego Convention Center, San Diego, USA

2019

- (ORAL BY ENGLISH) Atmospheric Response to a Diurnally Varying Sea Surface Temperature in the Tsushima Strait Area, The 20th Pacific-Asian Marginal Seas (PAMS) Meeting, Mar 2019, International Convention Center Kaohsiung, Kaohsiung, Taiwan
- (POSTER BY ENGLISH) How does the air-sea coupling frequency affect convection during the MJO passage? The Oceanographic Society of Japan 2019 Fall Meeting, Sep 2019, Toyama International Conference Center, Toyama, Japan
- (POSTER BY ENGLISH) How does the air-sea coupling frequency affect convection during the MJO passage? The Meteorological Society of Japan 2019 Fall Meeting, Oct 2019, Fukuoka International Congress Center, Fukuoka, Japan

2018

- (ORAL BY JAPANESE) Sub-weekly Scale Interactions between the Sea of Japan and Extra-tropical Cyclones in Winter, 海洋学会若手武者修行セミナー, Feb 2018, The University of Tokyo, Tokyo, Japan
- (ORAL BY ENGLISH) Sub-weekly Scale Interactions between the Sea of Japan and Extra-tropical Cyclones in Winter, 2018 Ocean Sciences Meeting, Feb 2018, Oregon Convention Center, Portland, USA
- (ORAL BY JAPANESE) 高解像度海面水温に対する対馬海峡域の大気応答, 研究集会・宗谷暖流を始めとした対馬暖流系の変動メカニズム, Jul 2018, Hokkaido University, Sapporo, Japan
- (ORAL BY JAPANESE) 高解像度海面水温に対する対馬海峡域の大気応答, 海洋モデリング研究会, Jul 2018, Kjuu Joint Training Center for National Universities in Kyushu Area, Oita, Japan
- (ORAL BY ENGLISH) Local Atmosphere Response to a High-resolution SST Dataset in the Tsushima Strait Area, 15th Japan Korea (Korea-Japan) Joint Seminar in the Ocean and the Atmosphere, Sep 2018, Howard Johnson Hotel Jeju Yeongdong, Jeju, Korea
- (ORAL BY ENGLISH) 高解像度海面水温に対する対馬海峡域の大気応答, The Oceanographic Society of Japan 2018 Fall Meeting, Sep 2018, Tokyo University of Marine Science and Technology, Tokyo, Japan

2017

- (ORAL BY ENGLISH) Effect of SST in the Sea of Japan on the Winter Cyclones, The 19th Pacific-Asian Marginal Seas (PAMS) Meeting, Apr 2017, Seogwipo KAL Hotel, Jeju Island, South Korea
- (INVITED/POSTER) Effect of SST in the Sea of Japan on the Winter Cyclones, The 1st JpGU-AGU Joint Meeting, May 2017, Makuhari Messe, Chiba, Japan
- (ORAL BY JAPANESE) 冬季東アジア周辺の温帯低気圧による海面水温変化・新たな可能性, 2017 年度気候システム研究集会, Sep 2017, Fukuoka University, Fukuoka, Japan

2016

- (ORAL BY ENGLISH) Effect of SST in the Sea of Japan on the Winter Cyclones, The Oceanographic Society of Japan 2016 Spring Meeting, Mar 2016, The University of Tokyo, Tokyo, Japan

- (ORAL BY JAPANESE) 温帯低気圧における日本海の海面水温変化, 2016 年度気候システム研究集会, Sep 2016, Nagasaki University, Nagasaki, Japan
- (ORAL BY JAPANESE) Effect of SST in the Sea of Japan on the Winter Cyclones, 激甚化する台風・爆弾低気圧起源の災害ハザード予測研究 Workshop, Oct 2016, Kyushu University, Fukuoka, Japan
- (ORAL BY JAPANESE) Effect of SST in the Sea of Japan on the Winter Cyclones, The Meteorological Society of Japan 2016 Fall Meeting, Oct 2016, Nagoya University, Nagoya, Japan

2015

- (ORAL BY JAPANESE) Intensification of the subpolar front in the Japan Sea during the winter cyclones, 研究集会・宗谷暖流を始めとした対馬暖流系の変動メカニズム, Jul 2015, Hokkaido University, Sapporo, Japan
- (ORAL BY JAPANESE) Intensification of the subpolar front in the Japan Sea during the winter cyclones, 2015 年度海洋学会若手会, Aug 2015, The University of Tokyo, Tokyo, Japan
- (ORAL BY JAPANESE) Intensification of the subpolar front in the Japan Sea during the winter cyclones, 2015 年度気候システム研究集会, Sep 2015, Kagoshima University, Kagoshima, Japan
- (ORAL BY JAPANESE) Intensification of the subpolar front in the Japan Sea during the winter cyclones, The Oceanographic Society of Japan 2015 Fall Meeting, Sep 2015, Ehime University, Matsuyama, Japan

SCHOLARSHIPS

SEP 2014 Kuma Toshimi International Scholarship (¥1,800,000)

OTHER PROFESSIONAL ACTIVITIES

Society Memberships:

The Oceanographic Society of Japan (2014-Present)

The Meteorological Society of Japan (2015-Present)

American Geophysical Union (2017-Present)

Journal Reviewer:

Journal of Geophysical Research: Oceans, Journal of Geophysical Research: Atmospheres, Deep Sea Research: Part I, Climate Dynamics, Acta Oceanologica Sinica, Journal of Oceanography

Teaching Assistant:

OCT 2014-MAR 2015	<i>Ocean Modelling II</i> , Lecturer: Prof. Naoki Hirose Interdisciplinary Graduate School of Engineering Sciences, Kyushu University
APR 2015-SEP 2015	<i>Geophysical Fluid Dynamics</i> , Lecturer: Prof. Atsuhiko Isobe Interdisciplinary Graduate School of Engineering Sciences, Kyushu University

ABILITIES

Programming Languages	Fortran, Shell Script, a little bit Matlab
Figure Plotting Languages	Generic Mapping Tools (GMT), Python, GrADS, Adobe Illustrator&Photoshop
Documents Handling	Chinese (native), English, Japanese
OS	Microsoft Office, \LaTeX
Others	familiar with Windows, Mac OS, Linux Ubuntu Photography, Digital painting