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# Curriculum Vitae

**Personal Data:**


Full Name: Akiyoshi Wada
Gender: Male
Nationality: Japanese
Current position: Head,
The First Research Laboratory
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**Educational Background**

- Ph.D. in the University of Tokyo, 2012
(Title: A Study on Interactions between Tropical Cyclones and the Ocean)
- B. S. in Meteorology, Meteorological College, 1993
(Affiliated organization of the Japan Meteorological Agency)

**Professional Experience**

2019.04-
Head, The First Research Laboratory, Department of Typhoon and Severe Weather Research, Meteorological Research Institute, Japan Meteorological Agency

2007.04-2019.03
Senior Researcher, The First Research Laboratory, Typhoon Research Department, Meteorological Research Institute, Japan Meteorological Agency

2010.04-2011.03
Visiting researcher, Atmosphere and Ocean Research Institute, The University of Tokyo

2006.04-2009.03
Visiting researcher, Ocean Research Institute, The University of Tokyo

1998.04-2007.03.
Researcher, The First Research Laboratory, Typhoon Research Department, Meteorological Research Institute, Japan Meteorological Agency

1995.04-1998.03.
Japan Meteorological Agency

1993.03-1995.03.
Maiduru Marine Observatory, Japan Meteorological Agency

1989.04-1993.03
Meteorological College

**Award**

- Springer 2021 Advances in Atmospheric Sciences (AAS) Editor's Award, 2021

- American Geophysical Union Outstanding Reviewers of 2020, 2021
- American Geophysical Union Outstanding Reviewers of 2017, 2018
- Meteorological Research Institute Director-General Award (Group), 2019*
- Meteorological Research Institute Director-General Award (Group), 2015*
- Meteorological Research Institute Director-General Award (Group), 2009*

* For contribution on the update of next supercomputer system in the Meteorological Research Institute

**Professional Services**

- Associated editor, Tropical Cyclone Research and Review
- Guest Chief Editor, Typhoons in 2018 and 2019, Journal of the Meteorological Society of Japan (2020-2022)
- Member of the coupled prediction task team on Global Ocean Data Assimilation Experiment (GODAE) Oceanview Science Team (-2021)

**Membership of Academic Societies**

- American Geophysical Union
- American Meteorological Society
- The Meteorological Society of Japan

**Research Grants: (PI)**

- Japan Society for the Promotion of Science, Grant-in-Aid for Scientific Research (C), 22K03725, 2022-2025
- Japan Society for the Promotion of Science, Grant-in-Aid for Scientific Research (C), 15K05292, 2015-2018
- Japan Society for the Promotion of Science, Grant-in-Aid for Scientific Research in Innovative Areas: Public research, 25106708, 2013-2014
- Japan Society for the Promotion of Science, Grant-in-Aid for Scientific Research in Innovative Areas: Public research, 23106505, 2011-2012
- Japan Society for the Promotion of Science, Grant-in-Aid for Scientific Research (C), 22540454, 2009-2012

**Research Grants: (CI)**

- Japan Society for the Promotion of Science, Grant-in-Aid for Scientific Research (B), 19H01973, 2019-2023
- Japan Society for the Promotion of Science, Grant-in-Aid for Scientific Research (A), 18H03737, 2018-2022
- Japan Society for the Promotion of Science, Grant-in-Aid for Scientific Research (C), 18K03747, 2018-2023
- Japan Society for the Promotion of Science, Grant-in-Aid for Scientific Research (B), 16H04053, 2016-2019
- Japan Society for the Promotion of Science, Grant-in-Aid for Scientific Research (C), 25400468, 2013-2016
- Japan Society for the Promotion of Science, Grant-in-Aid for Scientific Research (C), 19612005, 2007-2009

**Project:(CI)**

- Global 7-km mesh Nonhydrostatic Model Intercomparison Project for Improving Typhoon Forecast (TYMIP-G7) 2015-2020.

**Books**

1. Wada, A. (2016): Unusually rapid intensification of Typhoon Man-yi in 2013 under preexisting warm-water conditions near the Kuroshio front south of Japan, “Hot Spots” in the Climate System, New Developments in the Extratropical Ocean-Atmosphere Interaction Research, Springer, 131-156.
2. Wada, A. et al. (2016): Discovery and unknown about the relationship between the weather and the ocean - Welcome to our laboratory, Beret Publishing Co., 336p. (Japanese)
3. Wada, A. (2013): Typhoon and ocean: the forefront of typhoon research I, Meteorological research note, 226, 149-189.
4. Wada, A. (2012): Tropical Cyclone-Ocean Interaction: Climatology, Climatology: New Developments. NOVA Publishers, ISBN: 978-1-62100-322-9.

5. Wada, A. (2010): Tropical Cyclone-Ocean Interaction: Numerical Studies, Advances in Energy Research. Volume 1. NOVA Publishers, ISBN: 978-1-61668-994-0.
6. Wada, A. (2010): Tropical Cyclone-Ocean Interaction: Climatology, Advances in Energy Research. Volume 1. NOVA Publishers, ISBN: 978-1-61668-994-0.

**Refereed Publications**

1. Wada, A.,2023 : Roles of Air–Sea Interactions in the Predictability of Typhoon Mawar and Remote Heavy-Rainfall Events after Five Days. Atmosphere, 14, 1638, https://doi.org/10.3390/atmos14111638
2. Takamura, N., A. Wada, W. Yanase, Y. Miyamoto, 2023: Effects of Storm Size on the Interactions between Mid-Latitude Westerlies and Tropical Cyclones during Extratropical Transition in the Western North Pacific. Journal of Meteorological Society of Japan, 101, 391-409. https://doi.org/10.2151/jmsj.2023-023
3. Horinouchi, T., S. Tsujino, M. Hayashi, U. Shimada, W. Yanase, A. Wada, and H. Yamada, 2023: Stationary and Transient Asymmetric Features in Tropical Cyclone Eye with Wavenumber-one Instability: Case Study for Typhoon Haishen (2020) with Atmospheric Motion Vectors from 30-second Imaging, Monthly Weather Review, 151, 253-273, https://doi.org/10.1175/MWR-D-22-0179.1
4. Yamada, Y., T. Miyakawa, T., M. Nakano, C. Kodama, A. Wada, T. Nasuno, Y.-W. Chen, A. Yamazaki, H. Yashiro, and M. Satoh, 2022: Large ensemble simulation for investigating predictability of precursor vortices of Typhoon Faxai in 2019 with a 14-km mesh global nonhydrostatic atmospheric model. Geophysical Research Letters. 50, e2022GL100565. https://doi.org/10.1029/2022GL100565
5. Wada, A., M. Hayashi, and W. Yanase, 2022: Application of Empirical Orthogonal Function Analysis to 1-km ensemble simulations and Himawari-8 observation in the Intensification Phase of Typhoon Hagibis (2019). Atmosphere,13, 1559, https://doi.org/10.3390/atmos13101559.
6. Wada, A., W. Yanase, and K. Okamoto, 2022: Interactions between a Tropical Cyclone and Upper-Tropospheric Cold-Core Lows Simulated by an Atmosphere-Wave-Ocean Coupled Model: A Case Study of Typhoon Jongdari (2018). Journal of Meteorological Society of Japan, 100, https://doi.org/10.2151/jmsj.2022-019
7. Yanase, W., K. Araki, A. Wada, U. Shimada, M. Hayashi, and T. Horinouchi, 2022: Multiple dynamics of precipitation concentrated on the north side of Typhoon Hagibis (2019) during extratropical transition. Journal of Meteorological Society of Japan, 100, 783-805, https://doi.org/10.2151/jmsj.2022-041.
8. Fudeyasu, H., U. Shimada, Y. Oikawa, H.Eito, A. Wada, R. Yoshida, and T. Horinouchi, 2022: Contributions of the large-scale environment to the typhoon genesis of Faxai (2019). Journal of Meteorological Society of Japan,100, 617-630, https://doi.org/10.2151/jmsj.2022-031.
9. Miyamoto,Y., H. Fudeyasu, and A. Wada, 2022: Intensity and Structural Changes of numerically simulated Typhoon Faxai (1915) before landfall. Journal of Meteorological Society of Japan, 98, 181-196. https://doi.org/10.2151/jmsj.2022-009
10. Wada, A., 2021: Roles of oceanic mesoscale eddy in rapid weakening of Typhoons Trami and Kong-Rey in 2018 simulated with a 2-km-mesh atmosphere-wave-ocean coupled model. Journal of Meteorological Society of Japan, 1453-1482, http://doi.org/10.2151/jmsj.2021-071.
11. Wada, A. and J. C. L. Chan, 2021: Increasing TCHP in the Western North Pacific and Its Influence on the Intensity of FAXAI and HAGIBIS in 2019. SOLA, 17A, 29-32,https://doi.org/10.2151/sola.17A-005
12. Wada, A., H. Tomita, and S. Kako, 2020: Comparison of the third-generation Japanese ocean flux data set J-OFURO3 with numerical simulations of Typhoon Dujuan (2015) traveling south of Okinawa. Journal of Oceanograpy. 76, 419-437. https://doi.org/10.1007/s10872-020-00554-6
13. Takamura, N., and A. Wada, 2020: Unusual Characteristics of Extratropical Transition of Typhoons in August 2016. Journal of Meteorological Society of Japan, 98, 691-706. https://doi.org/10.2151/jmsj.2020-035
14. Fukuda K., K. Yasunaga, R. Oyama, A. Wada, A. Hamada, and H. Fudeyasu, 2020: The diurnal cycle of clouds in tropical cyclones over the western North Pacific Basin. SOLA.16,109-114 https://doi.org/10.2151/sola.2020-019
15. Horinouchi, T., U. Shimada, and A. Wada, 2020: Convective Bursts With Gravity Waves in Tropical Cyclones: Case Study With the Himawari‐8 Satellite and Idealized Numerical Study. Geophysical Research Letters, 47. e2019GL086295.https://doi.org/10.1029/2019GL086295

16. Oyama. R., and A. Wada 2019: The Relationship between Convective Bursts and Warm Core Intensification in a Non-hydrostatic Simulation of Typhoon Lionrock (2016), Monthly Weather Review, 147, 1557–1579, https://doi.org/10.1175/MWR-D-18-0457.1.
17. Wada, A., H. Tsuguti, K. Okamoto, and N. Seino 2019: Air-sea coupled data assimilation experiment for Typhoons Kilo, Etau and the September 2015 Kanto-Tohoku heavy rainfall with the Advanced Microwave Scanning Radiometer 2 sea surface temperature, Journal of Meteorological Society of Japan, 96, https://doi.org/10.2151/jmsj.2019-029.
18. Wada, A., S. Kanada, and H. Yamada 2018: Effect of air–sea environmental conditions and interfacial processes on extremely intense typhoon Haiyan (2013). Journal of Geophysical Research: Atmospheres, 123, https://doi.org/10.1029/2017JD028139.
19. Wada, A., and R. Oyama 2018: Relation of convective bursts to changes in the intensity of Typhoon Lionrock (2016) during the decay phase simulated by an atmosphere-wave-ocean coupled model. Journal of Meteorological Society of Japan, 96, https://doi.org/10.2151/jmsj.2018-052.
20. Wada, A., and M. Kunii 2017: The role of ocean-atmosphere interaction in Typhoon Sinlaku (2008) using a regional coupled data assimilation system. Journal of Geophysical Research - Oceans, 122, 3675-3695. doi:10.1002/2017JC012750.
21. Nakano, M., A. Wada, M. Sawada, H. Yoshimura, R. Onishi, S. Kawahara, W. Sasaki, T. Nasuno, M. Yamaguchi, T. Iriguchi, M. Sugi, and Y. Takeuchi, 2017: Global 7 km mesh nonhydrostatic Model Intercomparison Project for improving TYphoon forecast (TYMIP-G7): experimental design and preliminary results, Geosci. Model Dev., 10, 1363-1381, https://doi.org/10.5194/gmd-10-1363-2017.
22. Kunii, M., K. Ito, and A. Wada, 2017: Preliminary Test of a Data Assimilation System with a Regional High-Resolution Atmosphere–Ocean Coupled Model Based on an Ensemble Kalman Filter. Mon. Weather Rev., 145, 565-581. DOI: 10.1175/MWR-D-16-0068.1.
23. Kanada, S., and A. Wada, 2017: Different Climatological Characteristics, Inner-Core Structures, and Intensification Processes of Simulated Intense Tropical Cyclones between 20-km global and 5-km regional models. Journal of Climate, 30, 1583-1603, DOI: 10.1175/JCLI-D-16-0093.1.
24. Wada, A. 2016 : Reexamination of Tropical Cyclone Heat Potential in the Western North Pacific. Journal of Geophysical Research - Atmospheres, doi:10.1002/2015JD024688.
25. Oyama, R., A. Wada and M. Sawada, 2016: Intensification of Typhoon Danas (1324) Captured by MTSAT Upper Tropospheric Atmospheric Motion Vectors. SOLA, 12, 135-139. /doi:10.2151/sola.2016-029.
26. Wada A. 2015: Verification of tropical cyclone heat potential for tropical cyclone intensity forecasting in the Western North Pacific, Journal of Oceanography. DOI: 10.1007/s10872-015-0298-0.
27. 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. DOI: 10.1007/s10872-015-0273-9.
28. Kanada, S. and A. Wada, 2015: Sensitivity to horizontal resolution of the simulated intensifying rate and inner-core structure of Typhoon IDA, an extremely intense typhoon. Journal of the Meteorological Society of Japan, 94A, 181-190.
29. Kanada, S. and A. Wada, 2015: Numerical study on the extremely rapid intensification of an intense tropical cyclone, Typhoon Ida (1958). Journal of the Atmospheric Sciences, 72, 4194-4217.
30. Ito, K., T. Kuroda, K. Saito and A. Wada, 2015: Forecasting a large number of tropical cyclone intensities around Japan using a high-resolution atmosphere-ocean coupled model. Wea. Forecasting. 30, 793-808.
31. Wada A., T. Uehara, and S. Ishizaki, 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.
32. Shimada, U., A. Wada, K. Yamazaki, and N. Kitabatake, 2014:Roles of an upper-level cold vortex and low-level baroclinicity in the development of polar lows over the Sea of Japan. Tellus A, 66, 24694.
33. Wada, A., M. F. Cronin, A. J. Sutton, Y. Kawai and M. Ishii, 2013 : Numerical simulations of oceanic pCO2 variations and interactions between Typhoon Choi-wan (0914) and the ocean. Journal of Geophysical Research - Oceans, 118, 2667-2684.
34. Wada, A., N. Usui and M. Kunii, 2013 : Interactions between Typhoon Choi-wan (2009) and the Kuroshio Extension System. Advances in Meteorology, 2013, 859810.

35. Kanada, S., A. Wada, M. Sugi, 2013: Future changes in structures of extremely intense tropical cyclones using a 2-km mesh nonhydrostatic model. Journal of Climate, 26, 9986–10005.
36. Wada, A., 2012 : Numerical study on the effect of the ocean on tropical-cyclone intensity and structural change. Atmospheric Model Applications, In Tech, 43-68.
37. 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 - Atmospheres , 117, D11118.
38. Kanada, S., A. Wada, M. Nakano, and T. Kato, 2012 : Effect of planetary boundary layer schemes on the development of intense tropical cyclones using a cloud-resolving model. Journal of Geophysical Research, 117, D03107.
39. Wada, A., T. Midorikawa, M. Ishii, and T. Motoi, 2011 : Carbon system changes in the East China Sea induced by Typhoons Tina and Winnie in 1997. Journal of Geophysical Research - Oceans, 116, C07014.
40. Kawai, Y., and A. Wada, 2011 : Detection of cyclone-induced rapid increases in chlorophyll-a with sea surface cooling in the northwestern Pacific Ocean from a MODIS/SeaWiFS merged satellite chlorophyll product. International Journal of Remote Sensing, 32, 9455-9471.
41. Wada, A., N. Kohno and Y. Kawai, 2010: Impact of Wave-Ocean Interaction on Typhoon Hai-Tang in 2005, SOLA, 6A, 13-16.
42. Wada, A. and N. Usui, 2010: Impacts of oceanic preexisting conditions on predictions of Typhoon Hai-Tang in 2005, Advances in Meteorology, 2010, 756071, doi:10.1155/ 2010/756071.
43. Wada, A., N. Usui, K. Sato 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, doi:10.1029/2008GL036890.
44. Wada, A. 2009: Idealized numerical experiments associated with the intensity and rapid intensification of stationary tropical cyclone-like vortex and its relation to initial sea-surface temperature and vortex-induced sea-surface cooling, Journal of Geophysical Research - Atmospheres, 114, D18111.
45. Wada, A. H. Niino and H. Nakano 2009: Roles of Vertical Turbulent Mixing in the Ocean Response to Typhoon Rex (1998), Journal of Oceanography, 65, 373-396.
46. Nemoto, K., T. Midorikawa, A. Wada, K. Ogawa, T. Sukeyoshi, H. Kimoto, M. Ishii and H.Y. Inoue, 2009 : Continuous observations of atmospheric and oceanic CO2 using the moored buoy in the East China Sea:Variations during the passage of typhoons, Deep-Sea Research II, 56, 542-553, doi:10.1016/j.dsr 2.2008.12.015.
47. Wada, A. and J. C. L. Chan, 2008: Relationship between typhoon actibity and upper ocean heat content, Geophysical Research Letters, 35, L17603.
48. Wada, A. 2007: Numerical problems associated with tropical cyclone intensity prediction using a sophisticated coupled typhoon-ocean model. Pap. Met. Geophys.,58, 103-126.
49. Wada, A. and N. Usui, 2007: Importance of tropical cyclone heat potential for tropical cyclone intensity and intensification in the western North Pacific, Journal of Oceanography, 63, 427-447.
50. Kawai, Y., and A. Wada, 2007: Diurnal sea surface temperature variation and its impact on the atmosphere and ocean: A review, Journal of Oceanography, 63, 721-744.
51. Wada, A. 2005: Numerical Simulations of Sea Surface Cooling by a Mixed Layer Model during the Passage of Typhoon Rex, Journal of Oceanography, 61, 41-57.
52. Wada, A. 2002: The processes of SST cooling by typhoon passage and case study of Typhoon Rex with a mixed layer ocean model. Pap. Met. Geophys., 52, 31-66.
53. Wada, A., T. Miyao and Y. Dokiya 1997: Chemical components of the precipitation in relation to the meteorological element. Umi-to-Sora, 72, 82-91. in Japanese with English abstract.

**Non-refereed Publications**

1. Wada, A. 2015: Utilization of Tropical Cyclone Heat Potential for Improving Tropical Cyclone Intensity Forecasts, RSMC Tokyo-Typhoon Center Technical Review.
2. Shay L. K., M. M. Ali, S. Chen, I. Ginis, G. Halliwell, H-S Kim, Marie-Dominque Leroux, I-I Lin and A. Wada, 2014: Eighth International Workshop on Tropical Cyclones: Air-sea Interface and Oceanic Influences, IWTC-8 report.

3. Kepert J., Y-H Huang, S. Kanada, M. Powell, J. Schwendike, C. Slocum, A. Wada, C-C. Wu, J. Zhang, 2014: Eighth International Workshop on Tropical Cyclones: Role of the Boundary Layer, IWTC-8 report.
4. Wada, A. and N. Kohno, 2012: Impacts of Surface Roughness Lengths on Typhoon Simulations, 30th Conference on Hurricanes and Tropical Meteorology. April 18, 2012, Jacksonville, Florida.
5. Shay L. K., M. M. Ali, D. Barbary, E. A. D'Asaro, G. Halliwell, J. Doyle, C. Fairall, I. Ginis, I-I Lin, I-J Moon, P. Sandery, E. Uhlhorn, and A. Wada, 2010: Seventh International Workshop on Tropical Cyclones: Air-Sea Interface and Oceanic Influences, IWTC-7 report.

**Non-refereed Reports on numerical modeling**

1. Wada, A., W. Yanase, and S. Tsujino, 2023: The impact of ocean coupling on the rainfall distribution of Typhoon Nanmadol (2022) at the landfall. Research activities in Earth system modelling. Working Group on Numerical Experimentation, 53. 9-16.
2. Wada, A., 2023: The impact of ocean coupling on the track simulation of Typhoon Nanmadol (2022). Research activities in Earth system modelling. Working Group on Numerical Experimentation, 53. 9-14.
3. Wada, A., W. Yanase, and S. Tsujino, 2023: The impact of ocean coupling on the genesis of Typhoon Songda (2022) simulated by two atmosphere-ocean coupled models. Research activities in Earth system modelling. Working Group on Numerical Experimentation, 53. 9-18.
4. Wada, A. 2022: The effects of oceanic initial conditions created from different reanalysis datasets on the intensity prediction of Typhoon Trami (2018). Research activities in Earth system modelling. Working Group on Numerical Experimentation, 52, 9-07.
5. Wada, A., W. Yanase, and S. Tsujino, 2022: Numerical simulations of Typhoon Rai (2021) by two nonhydrostatic atmosphere models and an atmosphere-wave ocean coupled model. Research activities in Earth system modelling. Working Group on Numerical Experimentation, 52, 9-05.
6. Wada, A., W. Yanase, and S. Tsujino, 2022: Numerical simulations of Typhoon Chanthu (2021) by two nonhydrostatic atmosphere models and an atmosphere-wave ocean coupled model. Research activities in Earth system modelling. Working Group on Numerical Experimentation, 52, 9-03.
7. Wada, A., 2021: Rainfall simulations of Typhoon Mangkhut (2018) landfalling in the Philippines. Research activities in Earth system modelling. Working Group on Numerical Experimentation, 51, 9-11.
8. Wada, A., W. Yanase, 2021: Numerical simulations of Typhoon Haishen by a coupled atmosphere-wave ocean model with two different oceanic initial conditions. Research activities in Earth system modelling. Working Group on Numerical Experimentation, 51, 9-09.
9. Wada, A., 2021: Atmosphere-wave-ocean coupled-model ensemble simulation on rapid intensification of Typhoon Hagibis (2019). Research activities in Earth system modelling. Working Group on Numerical Experimentation, 51, 9-07.
10. Wada, A., W. Yanase, 2021: Numerical simulations of the rapid weakening of Typhoon Haishen (2020) by a coupled atmosphere-wave ocean model. Research activities in Earth system modelling. Working Group on Numerical Experimentation, 51, 9-05.
11. Wada, A., 2020: Atmosphere-wave-ocean coupled-model simulation on rapid intensification of Typhoon Hagibis (2019). Research Activities in Earth System Modelling, 50. 9-15.
12. Wada, A., 2020: Sensitivity experiments on axisymmetrization of Typhoon Faxai (2019) just before landfalling in Japan simulated by atmosphere-ocean coupled model. Research Activities in Earth System Modelling, 50. 9-13.
13. Wada, A., 2020: Atmosphere-wave-ocean coupled-model simulation on Typhoon Bualoi(2019) and formation of quasi-linear convective system around Boso Peninsula. Research Activities in Earth System Modelling,50. 9-07.
14. Wada, A., and K. Okamoto, 2020: Atmosphere-wave-ocean coupled-model simulation on the effect of Himawari-8 all-sky infrared radiances assimilation on the track simulation of Typhoon Jongdari (2018). Research Activities in Earth System Modelling, 50. 9-17.
15. Wada, A., 2020: Rainfall simulations of Typhoons Kammuri and Phanfone landfalling in the Philippines. Research Activities in Earth System Modelling, 50. 9-11.
16. Wada, A., H. Yoshimura, and M. Nakagawa, 2020: The effect of the cloud-water conversion rate in the cumulus parameterization on the simulation of Typhoon Lionrock (2016). Research Activities in Earth System

Modelling, 50. 9-09.

17. Wada, A., and H. Tomita, 2019: Comparison of J-OFURO remote-sensing based ocean flux data with numerical simulations by a coupled atmosphere-wave-ocean model in Typhoon Dujuan (2015) case. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 49. 9.11-9.12.
18. Wada, A., 2019: The impacts of preexisting oceanic cold eddies on the intensity forecast of Typhoon Trami (2018) during the mature phase. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 49. 9.09-9.10.
19. Wada, A., and R. P. Gile, 2019: Roles of ocean coupling and cumulus parameterization in predicting rainfall amounts caused by landfalling typhoons in the Philippines. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 49. 9.07-9.08.
20. Wada, A., 2019: The impacts of a cold eddy induced by Typhoon Trami (2018) on the intensity forecast of Typhoon Kong-Rey (2018).CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 49. 9.05-9.06.
21. Wada, A., H. Yoshimura, and M. Nakagawa, 2019: Preliminary numerical experiments on the prediction of Typhoon Lionrock (2016) using the global atmosphere-ocean coupled model. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 49. 9.03-9.04.
22. Wada, A., and N. Seino, 2018: Numerical simulations on a local heavy rainfall event south of Kanto region by using a coupled atmosphere-wave-ocean model with the regional air-sea coupled data assimilation system based on NHM-LETKF. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 48. 9.03-9.04.
23. Wada, A., H. Tsuguti, and H. Yamada, 2018: Formation and propagation of shield-like precipitation pattern in the Eastern China Sea remotely enhanced by Typhoon Nepartak (2016) simulated by an atmosphere-wave-ocean coupled model. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 48. 5.13-5.14.
24. Wada, A., H. Yoshimura, and M. Nakagawa, 2018: Sensitivity of the prediction of Typhoon Lionrock (2016) to the surface boundary scheme using the 7-km mesh nonhydrostatic global spectral atmospheric Double Fourier Series Model (DFSM). CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 48. 4.13-4.14.
25. Wada, A., H. Yoshimura, and M. Nakagawa, 2018: Sensitivity of the prediction of Typhoon Lionrock (2016) to the parameter in the cloud scheme using the 7-km mesh nonhydrostatic global spectral atmospheric Double Fourier Series Model (DFSM). CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 48. 4.11-4.12.
26. Wada, A., and R. Oyama, 2017: Numerical simulations of convective bursts occurred just before landfall of Typhoon Lionrock (2016). CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 47. 5.20-5.21.
27. Wada, A., H. Tsuguti, H. Yamada, 2017: Numerical simulations of shield-like precipitation pattern in the Eastern China Sea remotely enhanced by Typhoon Nepartak (2016). CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 47. 5.24-5.25.
28. Wada, A., 2017: Sensitivity numerical simulations of Hurricane Patricia (2015) on lateral boundary conditions and inhibition rate of evaporation. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 47. 5.22-5.23.
29. Wada, A., M. Kunii, Y. Yonehara, and K. Sato, 2017: Impacts on local heavy rainfalls of surface winds measurement by seabirds soaring over the ocean during Typhoons Kilo and Etau (2015). CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 47. 1.27-1.28.
30. Wada, A. and M. Kunii 2016: The effect of predicted oceanic conditions on the assimilation of Typhoon Sinlaku (2008). CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 46. 9.05-9.06.
31. Wada, A. 2016: Idealized storm evolution and the difference between the eastern and the western North Pacific calculated by an atmosphere-wave-ocean coupled model. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 46. 9.07-9.08.
32. Wada, A. 2016: Comparison of numerical simulations of Typhoon Haiyan in 2013 and Typhoon Mike in 1990. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 46. 9.09-9.10.
33. Wada, A. 2016: Typhoon Man-yi in 2013 simulated by an atmosphere-wave-ocean coupled model with 1.2-

km horizontal resolution. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 46. 9.11-9.12.

34. Wada, A. 2016: Extremely deepening of central pressures for Typhoon Neoguri in 2014 simulated by an atmosphere-wave-ocean coupled model and its dependency on the horizontal resolution.. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 46. 9.13-9.14.
35. Wada, A. and M. Kunii 2015: The impact of a sea-spray parameterization on the assimilation of Typhoon Sinlaku (2008). CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 45. 9.08-9.09.
36. Wada, A. 2015: Roles of the ocean on extremely rapid intensification and the maximum intensity of Typhoon Haiyan in 2013. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 45. 9.10-9.11.
37. Wada, A. 2015: The effect of ocean coupling on torrential rains caused by Typhoon Man-yi in 2013. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 45. 9.12-9.13.
38. Wada, A. 2015: The effects of ocean coupling and sea spray on the simulated track for Typhoon Muifa in 2011. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 45. 9.14-9.15.
39. Wada, A. and M. Kunii 2014: Introduction of an atmosphere-wave-ocean coupled model into the NHM-LETKF. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 44. 9.03-9.04.
40. Wada, A. 2014: Numerical simulations of Typhoon Haiyan in 2013. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 44. 9.05-9.06.
41. Wada, A. 2014: Numerical simulations of Typhoon Man-Yi in 2013. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 44. 9.07-9.08.
42. Wada, A. 2013: The impact of oceanic initial conditions on the simulations of Typhoon Ma-on in 2011. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 43. 9.05-9.06.
43. Wada, A. 2013: Sensitivity of horizontal resolution and sea spray to the simulations of Typhoon Roke in 2011. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 43. 9.07-9.08.
44. Wada, A. 2013: Lagged simulations of the oceanic initial condition for Typhoon Choi-wan (2009). CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 43. 9.09-9.10.
45. Wada, A. 2013: Impacts of surface roughness lengths on axisymmetrically mean structure of Typhoon Fanapi (2010). CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 43. 9.11-9.12.
46. Wada, A. 2013: Effect of Talas-induced sea-surface cooling on the generation of a subsequent typhoon. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 43. 9.13-9.14.
47. Wada, A. 2012: Numerical simulations of the intensity change of Typhoon Choiwan (2009) and the oceanic response. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 42. 9.03-9.04.
48. Wada, A. 2012: Rapid intensification of Typhoon Roke in 2011. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 42. 9.05-9.06.
49. Wada, A. 2012: Spin-down process caused by vortex-induced sea-surface cooling. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 42. 9.07-9.08.
50. Wada, A. 2012: Oceanic influences for a large eye of Typhoon Talas in 2011. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 42. 9.09-9.10.
51. Wada, A. and N. Kohno, 2012: Impact of surface roughness lengths on simulations of Typhoon Fanapi (2010). CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 41. 9.11-9.12.
52. Wada, A. 2011: Impacts of short-term variation in sea-surface temperature and the sea state on the evolution of stationary tropical-cyclone-like vortex. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 42. 9.07-9.08.
53. Wada, A. 2011: Drag coefficient under extremely high winds of typhoon Hai-Tang (2005). CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 41. 9.09-9.10.
54. Wada, A., T. Midorikawa and M. Ishii, 2011: Variation in air-sea CO2 flux and pH induced by passage of typhoon Hai-Tang (2005). CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 41. 9.11-9.12.
55. Wada, A. Y. Kawai and N. Usui, 2010: Impacts of diurnally-varying sea-surface temperature on the predictions of Typhoon Hai-Tang in 2005. Part I. Intensity prediction. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 40. 9.09-9.10.
56. Wada, A. Y. Kawai and N. Usui, 2010: Impacts of diurnally-varying sea-surface temperatureon the predictions of Typhoon Hai-Tang in 2005. Part II. The impact on the thermodynamics field around Hai-Tang's center.

CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 40. 9.11-9.12.

57. Wada, A. and N. Usui, 2010: The influence of the variation of oceanic precondition on the prediction of Typhoon Hai-Tang in 2005. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 40. 9.13-9.14.
58. Wada, A. N. Kohno and Y. Kawai, 2010: Formulation of the effect of breaking surface waves on entrainment and its impact on Typhoon Hai-Tang in 2005. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 40. 9.15-9.16.
59. Wada, A. and T. Midorikawa, 2009: Numerical simulation for the ocean response to Typhoons Tina and Winnie in 1997 and their relations to sudden variations of pCO2. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 39. 8.07-8.08.
60. Wada, A. N. Usui, K. Sato and Y. Kawai, 2009: The impact of pre-existing oceanic condition on the ocean response to Typhoon Hai-Tang in 2005. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 39. 8.09-8.10.
61. Wada, A. and Y. Kawai, 2009: The Development of Diurnally-Varying Sea-Surface Temperature Scheme. Part I. Preliminary numerical experiments. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 39. 9.07-9.08.
62. Wada, A. and Y. Kawai, 2009: The Development of Diurnally-Varying Sea-Surface Temperature Scheme. Part II. Idealized numerical experiments. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 39. 9.09-9.10.
63. Wada, A. N. Kohno and N. Usui, 2009: Numerical predictions for Typhoon Hai-Tang in 2005 by an experimental atmosphere-wave-ocean coupled model. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 39. 9.11-9.12.
64. Wada, A., H. Niino and H. Nakano, 2008: Sensitivity of tuning parameters in a mixed-layer scheme to simulated sea surface cooling caused by a passage of a typhoon. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 38. 8.15-8.16.
65. Wada, A., N. Usui and H. Niino, 2008: The impact of oceanic observations on tropical cyclone intensity prediction in the case of Typhoon Namtheun (2004). CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 38. 9.03-9.04.
66. Wada, A. and H. Niino, 2008: Numerical experiments of intensification of an idealized typhoon-like vortex under various sea surface temperatures by a nonhydrostatic atmosphere-ocean coupled model . CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 38. 9.05-9.06.
67. Wada, A., H. Niino and H. Nakano 2007: Improvement of multi-limit mixed-layer entrainment parameterization from the results in an ocean global circulation model. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 37. 8.05-8.06.
68. Wada, A. and A. Murata, 2007: Effects of horizontal resolution and sea surface cooling on simulations of tropical cyclones in case of Typhoon Namtheun (2004) by a coupled MRI tropical cyclone-ocean model. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 37. 9.09-9.10.
69. Wada, A. 2006: Numerical Experiments of Typhoons in 2004 Typhoon Season using a Non-Hydrostatic Atmospheric Model Coupled with a Mixed-Layer Ocean Model. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 36. 9.09-9.10.
70. Wada, A. and W. Mashiko, 2006: Introduction of a Mixed-Layer Ocean Model into the MRI Interactive Multiply-Nested Movable Mesh Tropical Cyclone Model. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 36. 9.11-9.12.
71. Wada, A. 2006: Numerical Experiments of Typhoon Namtheun (T0410) using Different Atmosphere-Ocean Coupled Models. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 36. 9.13-9.14.
72. Wada, A. 2006: Typhoon-Ocean Interaction in Typhoon Megi (T0415) using an Atmosphere-Mixed-Layer Ocean Coupled Model. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 36. 9.15-9.16.
73. Wada, A. 2005: Numerical Experiments of Typhoon Bilis Using a Non-Hydrostatic Atmospheric Model Coupled with a Mixed-Layer Ocean Model. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 35. 9.05-9.06.

74. Wada, A. 2004: Effects of atmospheric physical processes to the intensity of typhoons and their ocean responses. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 34. 9.05-9.06.
75. Wada, A. 2004: Typhoon-ocean coupled model with upgraded mixed layer model. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 34. 9.07-9.08.
76. Wada, A. 2003: Improvement of wind induced mixing and entrainment in MRI mixed layer model. 33. 8.16-8.17.
77. Wada, A. 2003: Validation of typhoon intensity prediction by MRI typhoon-ocean coupled model. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 33. 9.05-9.06.
78. Wada, A. 2003: Typhoon-ocean coupled model with upgraded mixed layer model. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 33. 9.07-9.08.
79. Wada, A. 2002: Improvement of SST Prediction By Diunal Cycling Algorithm in the Mri Mixed Layer Ocean Model. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 32. 8.29-8.30.
80. Wada, A., H. Mino, 2002: Implementation of the JMA Typhoon Model Coupled With the Mixed Layer Ocean Model And Its Application for Typhoon Bilis. CAS/JSC WGNE Research Activities in Atmospheric and Oceanic Modelling. 32. 9.10-9.11.

**Non-refereed Publications（日本語）**

1. 佐藤正樹 佐藤芳昭 八代尚 伊藤耕介 筆保弘徳 三好建正 川畑拓矢 坪木和久 堀之内武 岡本幸三 山口宗彦 中野満寿男 **和田章義** 金田幸恵 辻野智紀, 2022: 今後の台風予測研究に関する展望. 天気, 69, 285-294.
2. 中村尚, 川合義美, 伊藤進一, 小池真, **和田章義**, 国井勝, 嶋田宇大, 榎本剛, 吉田聡, 釜堀弘隆, 升永竜介, 小林ちあき, 岡島悟, 2021: コミュニティーへの公開データ. 気象研究ノート, 244, (公社）日本気象学会, 13pp, ISBN: .
3. 茂木耕作, 美山透, 万田敦昌, **和田章義**, 吉岡真由美, 武樋蕗子, 中村尚, 宮坂貴文, 2021: 東アジアの夏季モンスーン・台風と大気海洋相互作用. 気象研究ノート, 244, (公社）日本気象学会, 20pp, ISBN: .
4. 石田純一, **和田章義**, 栃本英伍, 杉本志織, 三好建正, 澤田謙, 佐藤陽祐, 太田行哉, 2021: 第 22 回非静力学モデルに関するワークショップ開催報告. 天気, 68, 59-74.
5. **和田章義**, 2020: 特集 近年の台風の特徴と将来予測 . 気象年鑑, 3-29.
6. **和田章義**, 2019: 台風通過時の海洋応答から台風予測研究へ. 号外海洋 －大気・海洋の渦・対流・シア流とその相互作用ー, 62, 81-86.
7. 瀬古弘, **和田章義**, 村田昭彦, 宮川知己, 竹見哲也, 福井真, 川畑拓矢, 北村祐二, 清木達也, 堀田大介, 2019: 第５回非静力学モデルに関する国際ワークショップの報告. 天気, 66, 501-506.
8. **和田章義**, 2017: 非静力学大気波浪海洋結合モデルを用いた台風海洋相互作用研究. 台風研究会 複合要因により強大化する台風災害の実態解明と減災に向けて, 38-41.
9. 筆保弘徳, **和田章義**, 杉本周作, 万田敦昌, 小田僚子, 猪上淳, 飯塚聡, 川合義美, 吉岡真由美, 2016: 天気と海の関係についてわかっていることいないこと. 天気と海の関係についてわかっていることいないこと, ペレ出版, 327pp, ISBN: 978-4-86064-473-4.
10. **和田章義**, 小出直久, 檜垣将和, 2016: 台風強度予報作業における海洋貯熱量情報の利用. 量的予報技術資料（予報技術研修テキスト）, 21, 137-159.
11. 北畠尚子, 城岡竜一, **和田章義**, 末木健太, 津口裕茂, 筆保弘徳, 2014: 第 41 回メソ気象研究会の報告 ―台風～発生・発達と日本への影響～―. 天気, 61, 893-898.

**Oral or Poster Presentations（English or 日本語）2014-**

1. Wada, A., Warm ocean conditions and increased typhoon intensity in 2019, 日本地球惑星科学連合 2020 年大会, 2020 年 7 月, オンライン
2. Wada, A., H. Tomita, M. Hayashi, and R. Oyama, Tropical cyclone-ocean interactions and predictions around the southern area of Okinawa with numerical simulations and a sea surface flux data set, 2019 AGU Fall Meeting, 2019 年 12 月, アメリカ, サンフランシスコ
3. Wada, A., Roles of preexisting oceanic condition and ocean coupling processes in the intensity prediction during the mature phase of Typhoon Trami (2018), JpGU meeting 2019, 2019 年 5 月, 千葉県千葉市
4. Wada, A., and Y. Oikawa, The impacts of cold eddies on the intensity changes during the mature

phase of Typhoon Trami (2018), 第 13 回メソ対流系と顕著気象に関する国際会議（ICMCS-XIII）, 2019 年 3 月, 那覇市

5. Wada, A., and R. Oyama, Relation of convective bursts to changes in the intensity of typhoon Lionrock (2016) simulated by an atmosphere-wave-ocean coupled model, JpGU meeting 2018, 2018 年 5 月, 千葉県千葉市

6. Wada, A., and M. Kunii, Development of a regional coupled atmosphere-ocean assimilation system based on NHM-LETKF, Asia Oceania Geosciences Society 14th Annual Meeting (AOGS2017), 2017 年 8 月, シンガポール, シンガポール

7. Wada, A., Simulations of analogous Typhoons Haiyan (2013) and Mike (1990) simulated by a coupled atmosphere-wave-ocean model, Asia Oceania Geosciences Society 14th Annual Meeting (AOGS2017), 2017 年 8 月, シンガポール, シンガポール

8. Wada, A., Tropical cyclone-ocean interactions on Typhoon Haiyan (2013) simulated by a coupled atmosphere-wave-ocean model, JpGU-AGU Joint Meeting 2017, 2017 年 5 月, 千葉県千葉市

9. Wada, A., Tropical cyclone-ocean interactions on Typhoon Haiyan (2013) simulated by a coupled atmosphere-wave-ocean model, J-POW special seminar on tropical cyclone, 2017 年 4 月, フィリピン, ケソン

10. Wada, A., and M. Kunii, Regional Coupled Atmosphere-Ocean Assimilation System Based on NHM-LETKF, 97th American Meteorological Society Annual Meeting, 2017 年 1 月, アメリカ, シアトル

11. Wada, A., and M. Sawada, Numerical simulations of Typhoon Haiyan in 2013 , JpGU meeting 2016, 2016 年 5 月, 千葉県千葉市

12. Wada, A, The relation of tropical cyclone heat potential to tropical cyclone intensity in the western North Pacific and the simulations by an atmosphere-wave-ocean coupled model, 2016 Ocean Sciences Meeting, 2016 年 2 月, アメリカ, ニューオーリンズ

13. Wada, A., and S.Kanada, Unusually Rapid Intensification of Typhoon Man-Yi in 2013 Under Pre-Existing Warm-Water Conditions Near the Kuroshio Front, Asia Oceania Geosciences Society 12th Annual Meeting (AOGS2015), 2015 年 8 月, シンガポール, シンガポール

14. Wada, A., Numerical Simulations on Rapid Intensification of Typhoon Haiyan (T1330), AOGS 11th Annual Meeting, 2014 年 7 月, 北海道札幌市

15. Wada, A., and M. Kunii, NUMERICAL INVESTIGATIONS ON INTENSIFICATION OF TYPHOONS, SEA SURFACE COOLING AND OCEANIC ENVIRONMENTS IN THE WESTERN NORTH PACIFIC, 2014 Ocean Sciences Meeting, 2014 年 2 月, アメリカ, ホノルル

16. 和田章義, 西暦 2000 年以降の西太平洋海域における台風強度と海洋貯熱量変動の関係(2), 日本気象学会 2023 年度秋季大会, 2023 年 10 月, 仙台市

17. 和田章義、吉村裕正、中川雅之、柳瀬亘、川端康弘、足立恭将, 2023 年台風第 2 号の予測と下層大気場の再現性, 日本気象学会 2023 年度秋季大会, 2023 年 10 月, 仙台市

18. 和田章義、高村奈央、柳瀬亘、岡本幸三、宮本佳明, 台風に関わる海洋貯熱量の再検討と温帯低気圧化する台風への適用, 日本気象学会 2023 年度春季大会, 2023 年 5 月, 東京

19. 和田章義, 西暦 2000 年以降の西太平洋海域における台風強度と 海洋貯熱量変動との関係, 日本気象学会 2022 年秋季大会, 2022 年 10 月, 札幌市

20. 和田章義, 柳瀬亘, 岡本幸三, 2018 年台風第 12 号(JONGDARI)の数値シミュレーション(2), 日本気象学会 2021 年度秋季大会, 2021 年 12 月, 三重

21. 和田章義, 海洋貯熱量が台風強度予測に与える影響について, 日本気象学会 2021 年度秋季大会, 2021 年 12 月, 三重

22. 和田章義, 台風強度・構造変化における台風海洋相互作用の役割, 台風研究会「台風予報と防災情報に関する研究集会」, 2021 年 9 月, 京都府宇治市

23. 和田章義、柳瀬亘、林昌宏, 2020 年台風第 10 号(Haishen)の数値シミュレーション, 第 22 回非静力学モデルに関するワークショップ, 2020 年 11 月, オンライン, オンライン

24. 和田章義, 2018-2019 年の台風における海洋の役割, 台風研究会「台風災害の実態解明と台風防災・減災に資する方策」, 2020 年 9 月, 京都府宇治市

25. 和田章義, 2020 年夏の大規模場の解析、今後の台風予想, 台風診断ミーティング 2020, 2020 年 8 月, 千葉県柏市

26. 和田章義, 2019 年台風シーズンにおける大気海洋環境場の特徴, 日本気象学会 2020 年度春季大会, 2020 年 5 月, オンライン

27. 和田章義, 2019 年台風を振り返って一気象研究所における事例 解析結果の紹介, NPO 法人気象キャスターネットワーク 2020 年定期総会, 2020 年 2 月, 東京
28. 和田章義, 気象研究所における緊急研究, 令和元年度台風事例検討会, 2020 年 2 月, 東京
29. 和田章義, 災害をもたらした 2019 年台風とそれに伴う暴風、豪雨に関する数値シミュレーション研究, 台風研究会, 2019 年 11 月, 名古屋
30. 和田章義, 岡本幸三, データ同化などによる観測の時空間拡張 台風のモデリング, 2019 年度名古屋大学宇宙地球環境研究所研究集会 小型飛翔体による海象観測（その４）, 2019 年 11 月, 名古屋
31. 和田章義, 岡本幸三, 2018 年台風第 12 号(JONGDARI)の数値シミュレーション, 日本気象学会秋季大会, 2019 年 10 月, 福岡県福岡市
32. 和田章義, 2019 年（2018 年後半も含む）気象研での解析事例の紹介 , 台風診断ミーティング 2019, 2019 年 9 月, 柏
33. 和田章義, 吉村裕正, 中川雅之, 全球 7km 非静力学大気モデルによる 2016 年台風第 10 号の数値シミュレーション, 日本気象学会 2018 年度秋季大会, 2018 年 10 月, 宮城県仙台市
34. 和田章義, Robb P. Gile, 嶋田宇大, 佐藤信夫, 青梨和正, 山田広幸, 非静力学モデルによるフィリピン来襲台風の降水予測可能性, 平成 30 年度京都大学防災研究所共同研究集会「台風研究会」 ー大規模・広域・複合台風災害の発生要因の理解と減災に向けてー, 2018 年 9 月, 京都府宇治市
35. 和田章義, 今年の台風の特徴, 台風診断ミーティング 2018, 2018 年 8 月, 千葉県柏市
36. 和田章義, 津口裕茂, 山田広幸, 2016 年台風第 1 号による南西諸島及び九州南部のシールド状降水域形成プロセス, 日本気象学会 2018 年度春季大会, 2018 年 5 月, 茨城県つくば市
37. 和田章義、小山亮、吉村裕正、中野満寿男、中川雅之, 台風 1610 号(Lionrock)の数値シミュレーションにおける海洋の役割, 第 19 回非静力学モデルに関するワークショップ, 2017 年 11 月, 富山県富山市
38. 和田章義、小山亮, 2016 年台風第 10 号衰退期に見られた対流バーストと海洋の影響, 日本気象学会 2017 年度秋季大会, 2017 年 11 月, 北海道札幌市
39. 和田章義、小山亮, 台風 1610 号衰退期に見られた対流バースト, 平成 29 年度京都大学防災研究所共同研究集会「台風研究会」 ー激甚化する台風災害の要因解明と減災へ向けてー, 2017 年 9 月, 京都府宇治市
40. 和田章義, 台風海洋相互作用が台風予測
可能性に及ぼす影響, 低気圧と暴風雨に係るワークショップ 2017, 2017 年 2 月, 福岡県福岡市
41. 和田章義, 非静力学大気波浪海洋結合モデルを用いた台風海洋相互作用研究, 平成 28 年度台風研究会, 2016 年 11 月, 京都府宇治市
42. 和田章義、国井勝, 台風予測とバイオロギング, 東京大学大気海洋研究所共同利用研究集会「バイオロギングと海洋・大気変動予測の未来ーSustainability Initiative in the Marginal Seas of South and East Asia(SIMSEA) の推進に向けて」, 2016 年 11 月, 千葉県柏市
43. 和田章義, 台風の発達における海洋の役割：新しい TCHP の提案, 第 14 回環境研究シンポジウム, 2016 年 11 月, 東京都
44. 和田章義, 海洋環境場が台風数値シミュレーションに与える影響, 日本気象学会 2016 年度秋季大会, 2016 年 10 月, 愛知県名古屋市
45. 和田章義, 国井勝 , NHM-LETKF 大気波浪海洋結合システムにおける海面水温の制御変数化, 日本気象学会 2016 年度秋季大会, 2016 年 10 月, 愛知県名古屋市
46. 和田章義, 国井勝, NHM-LETKF による台風予測研究, 第 17 回非静力モデルに関するワークショップ, 2015 年 12 月, 沖縄県那覇市
47. 和田章義, 沢田雅洋, 吉村裕正, 中野満寿男, 那須野智江, 大西領, 渕上弘光, 川原慎太郎, 佐々木亘, 入口武史, 山口宗彦, 川合秀明, 新藤永樹, 竹内義明, 複数の次世代非静力学全球モデルを用いた高解像度台風予測実験, 第 17 回非静力学モデルに関するワークショップ, 2015 年 12 月, 沖縄県那覇市
48. 和田 章義, 金田 幸恵, 2013 年台風第 18 号（MAN-YI)の急発達に関する数値シミュレーション, 日本気象学会 2015 年度秋季大会, 2015 年 10 月, 京都府京都市
49. 和田章義, 沢田雅洋, 吉村裕正, 中野満寿男, 那須野智江, 大西領, 渕上弘光, 川原慎太郎, 佐々木亘, 入口武史, 山口宗彦, 川合秀明, 新藤永樹, 竹内義明, 複数の次世代非静力学全球モデルを用いた高解像度台風予測実験, 日本気象学会 2015 年度秋季大会, 2015 年 10 月, 京都府京都市
50. 和田章義, 碓氷典久, 台風や大気擾乱の発達に対する新しい表層海洋熱容量, 日本気象学会

2015 年度秋季大会, 2015 年 10 月, 京都府京都市

51. 和田章義, 2013 年台風第 30 号（HAIYAN）の強度変化と TCHP, 日本気象学会 2015 年度春季大会, 2015 年 5 月, 茨城県つくば市

52. 和田章義, 2013 年台風第 18 号（MAN-YI)に伴う豪雨と海洋の関係, 日本気象学会 2015 年度春季大会, 2015 年 5 月, 茨城県つくば市

53. 金田幸恵, 和田章義, 坪木和久, 西部北太平洋域における台風の強度特性と気象庁全球気候 20km モデルによる再現性, 日本気象学会 2015 年度春季大会, 2015 年 5 月, 茨城県つくば市

54. 和田章義, 2013 年台風第 30 号（ハイヤン）の数値シミュレーション, 第 12 回環境研究シンポジウム, 2014 年 11 月, 東京都千代田区

55. 和田章義, 台風 1330 号(Haiyan)における大気海洋環境場の役割, 日本気象学会 2014 年度春季大会, 2014 年 5 月, 神奈川県横浜市

56. 和田章義, 国井勝, NHM-LETKF を用いた台風 0813 号(Sinkaku)の予測可能性, 日本気象学会 2014 年度春季大会, 2014 年 5 月, 神奈川県横浜市

57. 和田章義, 数値シミュレーションによる台風発達の研究, 第 41 回メソ気象研究会, 2014 年 5 月, 東京都千代田区