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CURRICULUM VITAE (As of 2 June 2026)

Personal

Date of Birth: August 20, 1976
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Education

2010.07: Ph.D., Graduate School of Science, Kyoto University, Kyoto, Japan
2001.03: M.S., Graduate School of Science, Kyoto University, Kyoto, Japan
1999.03: B.S., Faculty of Science, Kyoto University, Kyoto, Japan

Professional experiences

2022.04–2026.03: Visiting Associate Professor, Center for Environmental Remote Sensing (CEReS), Chiba University
2018.04–: Associate Professor, Faculty of Sustainable Design, University of Toyama
2016.04–2018.03: Project Assistant Professor, Division of Climate System Research, Atmosphere and Ocean Research Institute, the University of Tokyo
2011.02–2016.03: Postdoctoral Fellow, Division of Climate System Research, Atmosphere and Ocean Research Institute, the University of Tokyo
2010.09–2011.01: Senior Project Researcher, Research Institute for Humanity and Nature
2009.07–2010.08: Project Researcher, Research Institute for Humanity and Nature
2009.02–2009.06: Project Research Associate, Research Institute for Humanity and Nature
2007.06–2007.11: Research Assistant, Graduate School of Science, Kyoto University
2006.06–2007.02: Research Assistant, Graduate School of Science, Kyoto University
2004.06–2005.03: Research Assistant, Graduate School of Science, Kyoto University
2003.10–2004.03: Research Assistant, Graduate School of Science, Kyoto University

Peer-reviewed papers

(Numbers in parentheses are times cited; Web of Science/Google Scholar/ResearchGate)
Total: (2883/4774/4276)

[39] Navarro, S. M., K. Yasunaga, **A. Hamada**, and K. Weyoshi, 2026: Maintenance of moisture anomalies across synoptic and intraseasonal timescales over the Indo-Pacific warm pool. *J. Geophys. Res.*, Vol. 131, doi:10.1029/2025JD045746. (0/-/-)

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[37] Hiraga, Y., J. M. Mbugua, S. Kotsuki, Y. Suzuki, S.-H. Chen, **A. Hamada**, K. Yasunaga, and T. Funatomi,

2026: Numerical experiments of cloud seeding for mitigating localization of heavy rainfall: A case study of mesoscale convective system in Japan. *Nat. Hazards Earth Syst. Sci.*, Vol. 26, pp. 1287–1303, doi:10.5194/nhess-26-1287-2026. (Highlight paper) (0/1/-)

[36] **Hamada, A.**, C. Yokoyama, H. Tsuji, Y. Ikuta, S. Shige, M. Yamaji, T. Kubota, and Y. N. Takayabu, 2024: Spectral latent heating retrieval for the midlatitudes using Global Precipitation Measurement Dual-frequency Precipitation Radar. Part II: Development and validation of the retrieval algorithm. *J. Appl. Meteor. Climatol.*, Vol. 64, pp. 45–61, doi:10.1175/JAMC-D-23-0218.1. (1/2/2)

[35] Yokoyama, C., **A. Hamada**, Y. Ikuta, S. Shige, M. Yamaji, H. Tsuji, T. Kubota, and Y. N. Takayabu, 2024: Spectral latent heating retrievals for the midlatitudes using GPM DPR. Part I: Construction of look-up tables. *J. Appl. Meteor. Climatol.*, Vol. 64, pp. 21–43, doi:10.1175/JAMC-D-23-0217.1. (3/6/8)

[34] Tsuji, T., K. Yasunaga, and **A. Hamada**, 2024: Statistical characteristics of drop size distributions in the warm season over the Sea of Japan. *SOLA*, Vol. 20, pp. 255–263, doi:10.2151/sola.2024-034. (1/2/2)

[33] Okugawa, R., K. Yasunaga, **A. Hamada**, and S. Yokoi, 2024: Numerical study on the precipitation concentration over the western coast of Sumatra Island. *Mon. Wea. Rev.*, Vol. 152, pp. 689–704, doi:10.1175/MWR-D-23-0037.1. (2/4/2)

[32] 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*, Vol. 16, pp. 109–114, doi:10.2151/sola.2020-019. (3/3/3)

[31] Yamaji, M., H. G. Takahashi, T. Kubota, R. Oki, **A. Hamada**, and Y. N. Takayabu, 2020: 4-year climatology of global drop size distribution and its seasonal variability observed by spaceborne dual-frequency precipitation radar. *J. Meteor. Soc. Japan*, Vol. 98, pp. 755–773, doi:10.2151/jmsj.2020-038. (32/38/35)

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[26] Nishi, N., **A. Hamada**, and H. Hirose, 2017: Improvement of cirrus cloud-top height estimation using geostationary satellite split-window measurements trained with CALIPSO data. *SOLA*, Vol. 13, pp. 240–245. (4/7/6)

[25] Hirose, M., Y. N. Takayabu, **A. Hamada**, S. Shige, and M. K. Yamamoto, 2017: Spatial contrast of geographically induced rainfall observed by TRMM PR. *J. Climate*, Vol. 30, No. 11, pp. 4165–4184. (21/24/23)

[24] Hirose, M., Y. N. Takayabu, **A. Hamada**, S. Shige, and M. K. Yamamoto, 2016: Impact of long-term observation on the sampling characteristics of TRMM PR precipitation. *J. Appl. Meteor. Climatol.*, Vol. 56, No. 3, pp. 713–723. (13/20/18)

[23] Hirose, H., M. K. Yamamoto, S. Shige, A. Higuchi, T. Mega, T. Ushio, and **A. Hamada**, 2016: A rain potential map with high temporal and spatial resolutions retrieved from five geostationary meteorological satellites. *SOLA*, Vol. 12, pp. 297–301. (2/4/3)

[22] Inatsu, M., and **A. Hamada**, 2016: Coloring in meteorology with uniform color space. *Tenki*, Vol. 63, No. 10, pp. 803–809. (in Japanese; 稲津 將, 濱田 篤：気象学の色遣い～均等色空間を利用したカラーリング～) (-/-/-)

[21] **Hamada, A.**, and Y. N. Takayabu, 2016: Convective cloud-top vertical velocity estimated from geostationary satellite rapid-scan measurements. *Geophys. Res. Lett.*, Vol. 43, pp. 5435–5441, doi:10.1002/2016GL068962. (16/19/20)

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[9] **Hamada, A.**, and N. Nishi, 2010: Development of a cloud-top height estimation method by geostationary satellite split-window measurements trained with CloudSat data. *J. Appl. Meteor. Climatol.*, Vol. 49, No. 9, pp. 2035–2049. (46/68/55)

[8] Suzuki, J., M. Fujiwara, **A. Hamada**, Y. Inai, J. Yamaguchi, R. Shirooka, F. Hasebe, and T. Takano, 2010: Cloud-top height variability associated with equatorial Kelvin waves in the tropical tropopause layer during the Mirai Indian Ocean cruise for the Study of the MJO-convection Onset (MISMO) campaign. *SOLA*, Vol. 6, pp. 97–100, doi:10.2151/sola.2010-025. (9/13/11)

[7] Kamiguchi, K., O. Arakawa, A. Kitoh, A. Yatagai, **A. Hamada**, and N. Yasutomi, 2010: Development of APHRO_JP, the first Japanese high-resolution daily precipitation product for more than 100 years.

Hydrological Research Letters, Vol. 4, pp. 60–64. (112/200/161)

[6] Yatagai, A., O. Arakawa, K. Kamiguchi, H. Kawamoto, M. I. Nodzu, and **A. Hamada**, 2009: A 44-year daily gridded precipitation dataset for Asia based on a dense network of rain gauges. *SOLA*, Vol. 5, pp. 137–140, doi:10.2151/sola.2009-035. (487/714/615)

[5] Inoue, T., D. Vila, K. Rajendran, **A. Hamada**, X. Wu, and L. Machado, 2009: Life cycle of deep convective system over the eastern tropical Pacific observed by TRMM and GOES-W. *J. Meteor. Soc. Japan*, Vol. 87A, pp. 381–391. (22/34/25)

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[1] Nishi, N., J. Suzuki, **A. Hamada**, and M. Shiotani, 2007: Rapid transitions in zonal wind around the tropical tropopause and their relation to the amplified equatorial Kelvin waves. *SOLA*, Vol. 3, pp. 13–16, doi:10.2151/sola.2007-004. (4/4/4)

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[69] **Hamada, A.**, K. Yasunaga, K. Yoshimi, M. Syarifuddin, H. He, and S. Kotsuki, 2026: A field campaign of aircraft experiments and ground observations for cloud seeding targeting winter convective clouds. *JpGU-AGU Joing Meeting 2026*, Chiba, Japan, and Online, 24–29 May 2026.

[68] Tsuji, T., S. Seto, **A. Hamada**, and T. Kubota, 2026: Snowfall retrieval from GPM/DPR using scattering models for various solid precipitation particle type. *JpGU-AGU Joing Meeting 2026*, Chiba, Japan, and Online, 24–29 May 2026.

[67] **Hamada, A.**, C. Yokoyama, H. Tsuji, Y. Ikuta, S. Shige, M. Yamaji, T. Kubota, and Y. N. Takayabu, 2025: Spectral latent heating (SLH) algorithm for the midlatitudes using GPM/DPR. *The 30th CEReS International Symposium & The 28th CEReS Environmental Remote Sensing Symposium*, Chiba and Online, 30 November–1 December 2025.

[66] **Hamada, A.**, K. Aonashi, Y. N. Takayabu, K. Suzuki, and K. Kanemaru, 2025: Development of near-realtime precipitation regime database for the GSMaP precipitation retrieval and combined observation of melting precipitation particles. *Joint PI Meeting of JAXA Earth Observation Missions FY2025*, Tokyo+Online, 20–24 October 2025.

[65] **Hamada, A.**, K. Yasunaga, H. He, and M. Syarifuddin, 2025: Feasibility of upstream weather intervention for downstream heavy rainfall mitigation based on ensemble sensitivity analysis. *Asia Oceania Geosciences Society (AOGS) 22nd Annual Meeting*, AS34-A009, Singapore, 27 July–1 Aug 2025.

[64] **Hamada, A.**, K. Yasunaga, H. He, and M. Syarifuddin, 2025: Feasibility of upstream weather intervention for downstream heavy rainfall mitigation Based on ensemble sensitivity analysis. *Japan Geoscience Union (JpGU) Meeting 2025*, AAS01-04, Chiba, Japan, and Online, 25–30 May 2025.

[63] Syarifuddin, M., S. Oishi, H. M. Sengadji, C. N. Namah, A. U. K. Ngaji, M. F. Pallo, and **A. Hamada**, 2025: Combining multi-sensor and multi-temporal data with machine learning to enhance flood

detection in Sentinel-1 images. *Japan Geoscience Union (JpGU) Meeting 2025*, MIS04-08, Chiba, Japan, and Online, 25–30 May 2025.

[62] **Hamada, A.**, and K. Yasunaga, 2024: Mitigation of heavy precipitation events through weather intervention. *U Toyama-RIKEN Joint Workshop on Prediction Science*, Toyama, 23–24 December 2024.

[61] Tsuji, T., **A. Hamada**, and K. Yasunaga, 2024: Three-dimensional identification of aggregated and rimed precipitation particles using GPM/DPR. *American Geophysical Union Annual Meeting 2024 (AGU24)*, A43A-1949, Washington, D.C., 9–13 December 2024.

[60] **Hamada, A.**, K. Aonashi, Y. N. Takayabu, K. Suzuki, and K. Kanemaru, 2024: Enhancing precipitation regime and profile databases for the GSMaP precipitation retrieval and combined observation of melting precipitation particles. *Joint PI Meeting of JAXA Earth Observation Missions FY2024*, Tokyo+Online, 18–22 November 2024.

[59] Tsuji, T., **A. Hamada**, and K. Yasunaga, 2024: Three-dimensional classification of precipitation particle types using GPM/DPR. *Joint PI Meeting of JAXA Earth Observation Missions FY2024*, Tokyo+Online, 18–22 November 2024.

[58] **Hamada, A.**, C. Yokoyama, H. Tsuji, Y. Ikuta, S. Shige, M. Yamaji, T. Kubota, and Y. N. Takayabu, 2024: Development of retrieval algorithm for the GPM DPR spectral latent heating algorithm in the midlatitudes. *11th Workshop of International Precipitation Working Group (IPWG-11)*, 10.10, Tokyo, Japan, 15–18 July 2024.

[57] Tsuji, T., **A. Hamada**, and K. Yasunaga, 2024: Three dimensional classification of precipitation particle types using GPM/DPR. *11th Workshop of International Precipitation Working Group (IPWG-11)*, 10.12, Tokyo, Japan, 15–18 July 2024.

[56] **Hamada, A.**, C. Yokoyama, H. Tsuji, Y. Ikuta, S. Shige, M. Yamaji, T. Kubota, and Y. N. Takayabu, 2024: Spectral latent heating retrievals for the midlatitudes using GPM DPR: Development of the retrieval algorithm. *9th Global Energy and Water Exchanges (GEWEX) Open Science Conference*, 19-P39, Sapporo, Japan, 7–12 July 2024.

[55] **Hamada, A.**, Y. Kusano, B. Taguchi, and K. Yasunaga, 2024: Remote effects of typhoon on the water vapor transport over western Japan. *Japan Geoscience Union (JpGU) Meeting 2024*, AAS03-P07, Chiba, Japan, and Online, 26–31 May 2024.

[54] **Hamada, A.**, K. Aonashi, Y. N. Takayabu, and K. Kanemaru, 2023: Enhancing precipitation regime and profile databases for the GSMaP precipitation retrieval and combined observation of melting precipitation particles. *Joint PI Meeting of JAXA Earth Observation Missions FY2023*, Tokyo+Online, 6–10 November 2023.

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[52] Yokoyama, C., **A. Hamada**, Y. Ikuta, S. Shige, M. Yamaji, H. Tsuji, T. Kubota, and Y. N. Takayabu, 2023: Spectral latent heating retrievals for the midlatitudes using GPM DPR: Construction of look-up tables. *2023 Precipitation Measurement Mission (PMM) Science Team Meeting*, Minneapolis, MN, 18–22 September 2023.

[51] Kuki, S., **A. Hamada**, K. Yasunaga, and B. Taguchi, 2023: Statistical analysis of meso- to synoptic-scale cyclone activity over the Kuroshio and Kuroshio Extension regions. *International Workshop on Mid-latitude Ocean-Atmosphere Interactions: Their Processes and Predictability*, Toyama, Japan, 16–18 June 2023.

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ACG30-P18, Chiba, Japan+Online, 21–26 May 2023.

[49] Kusano, Y., and **A. Hamada**, 2023: Remote effects of tropical cyclones in the northwest Pacific on the formation of atmospheric rivers. *Japan Geoscience Union Meeting 2023*, AAS04-P08, Chiba, Japan+Online, 21–26 May 2023.

[48] Ono, Y., and **A. Hamada**, 2023: Analysis of dynamical structure of a downburst-producing cumulonimbus cloud system using multi-parameter phased array weather radar. *Japan Geoscience Union Meeting 2023*, AAS03-P09, Chiba, Japan+Online, 21–26 May 2023.

[47] **Hamada, A.**, K. Aonashi, Y. N. Takayabu, and K. Kanemaru, 2022: Enhancing precipitation regime and profile databases for the GSMaP precipitation retrieval and combined observation of melting precipitation particles. *The joint PI Meeting of JAXA Earth Observation Missions FY2022*, Tokyo+Online, 7–11 November 2022.

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[45] **Hamada, A.**, R. Kawabata, and K. Yasunaga, 2021: Statistical analysis of precipitation system characteristics observed by GPM/DPR over high-latitude land. *Japan Geoscience Union Meeting 2021*, Online, 3–6 June 2021.

[44] **Hamada, A.**, K. Aonashi, Y. N. Takayabu, and K. Kanemaru, 2020: Enhancing the precipitation regime and profile databases for the GSMaP precipitation retrieval. *Joint PI Meeting of JAXA Earth Observation Missions FY2020*, Online, 17–23 December 2020, 13–22 January 2021.

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[41] **Hamada, A.**, K. Kanemaru, and T. Iguchi, 2019: An improvement of the precipitation detection method for the Dual-frequency Precipitation Radar onboard the Global Precipitation Measurement core observatory (GPM/DPR). *39th International Conference on Radar Meteorology*, Nara, 16–20 September 2019.

[40] **Hamada, A.**, and Y. N. Takayabu, 2019: Large-scale environmental conditions related to midsummer extreme rainfall events around Japan in the TRMM region. *Asia Oceania Geosciences Society (AOGS) 16th Annual Meeting*, Singapore, 28 July–02 August 2019. **(Invited)**

[39] **Hamada, A.**, and Y. N. Takayabu, 2018: Large-scale environmental conditions related to midsummer extreme rainfall events over the southern Japan region. *Japan Geoscience Union Meeting 2018*, Chiba, 20–24 May 2018.

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[37] **Hamada, A.**, and Y. N. Takayabu, 2017: Convective cloud-top vertical velocity estimated from geostationary satellite rapid-scan measurements. *2017 AGU Fall Meeting*, New Orleans, 11–15 December 2017.

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geostationary satellite rapid-scan measurements. *Workshop for Typhoon, cloud and climate study*, Taipei, 22–24 August 2017.

[34] **Hamada, A.**, and Y. N. Takayabu, 2017: Convective cloud-top vertical velocity estimated from geostationary satellite rapid-scan measurements. *Japan Geoscience Union Meeting 2017*, Makuhari, 20–25 May 2017.

[33] **Hamada, A.**, and Y. N. Takayabu, 2017: Large-scale environmental conditions related to mid-summer extreme rainfall events over the Japan region. *The 2nd International Workshop on "Climate Change and Precipitation in the East Asia"*, Tokyo, 27–28 March 2017.

[32] **Hamada, A.**, 2016: Contribution from spaceborne precipitation radar measurements to the understanding of the global precipitation characteristics. *Workshop on Global Precipitation System 2016 "Diversity and Future Outlook of Weather and Climate Models"*, Yokohama, 28–29 November 2016. **(Invited)**

[31] **Hamada, A.**, and Y. N. Takayabu, 2016: Improvements in detection of light precipitation with the Global Precipitation Measurement Dual-frequency Precipitation Radar. *Asia Oceania Geosciences Society (AOGS) 13th Annual Meeting*, Beijing, 31 July–5 August 2016.

[30] **Hamada, A.**, and Y. N. Takayabu, 2016: Improvements in detection of light precipitation with the Global Precipitation Measurement dual-frequency precipitation radar (GPM/DPR). *Japan Geoscience Union Meeting 2016*, Makuhari, 22–26 May 2016.

[29] **Hamada, A.**, Y. N. Takayabu, C. Liu, and E. J. Zipser, 2015: Weak linkage between the heaviest rainfall and tallest storms. *2015 AGU Fall Meeting*, San Francisco, 14–18 December 2015.

[28] **Hamada, A.**, and Y. N. Takayabu, 2015: Inferring cumulus updraft strength using geostationary satellite rapid-scan measurements. *The Sixth Asia/Oceania Meteorological Satellite Users' Conference*, Tokyo, 9–13 November 2015.

[27] **Hamada, A.**, Y. N. Takayabu, K. Nakagawa, and T. Iguchi, 2015: Evaluation of heavy rainfall retrieval from TRMM/PR using a long-term C-band radar observation. *Japan Geoscience Union Meeting 2015*, Makuhari, 24–28 May 2015.

[26] **Hamada, A.**, Y. N. Takayabu, C. Liu, and E. J. Zipser, 2015: Weak linkage between the heaviest rainfall and tallest storms. *Third International Workshop on "Studies on future climate projection of the Asian region utilizing the CMIP5 multi-model ensemble data"*, Tokyo, 27 March 2015.

[25] **Hamada, A.**, Y. N. Takayabu, K. Nakagawa, T. Iguchi, C. Liu, and E. J. Zipser, 2014: Characteristic differences between the heaviest rainfall and the tallest storms. *7th Workshop of the International Precipitation Working Group (IPWG)*, Tsukuba, 17–20 November 2014.

[24] **Hamada, A.**, Y. N. Takayabu, C. Liu, and E. J. Zipser, 2014: Regional and seasonal differences in the rain event characteristics between rain rate and convection extremes. *2014 Precipitation Measurement Mission (PMM) Science Team Meeting*, Baltimore, MD, 4–8 August 2014.

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[22] **Hamada, A.**, and Y. N. Takayabu, 2014: Characteristic differences between the heaviest rainfall and the strongest convection. *Japan Geoscience Union Meeting 2014*, Yokohama, 28 April–02 May 2014.

[21] **Hamada, A.**, and Y. N. Takayabu, 2013: Precipitation regime classification by local meteorological state. *Asia Oceania Geosciences Society (AOGS) 10th Annual Meeting*, Brisbane, 24–28 June 2013.

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Professional activities/services

Academic Society:

Meteorological Society of Japan
American Meteorological Society
American Geophysical Union

Review experiences:

Annals of Geophysics
Atmosphere
Atmospheric Chemistry and Physics
Bulletin of the American Meteorological Society
Global Environmental Research
International Journal of Climatology
International Journal of Remote Sensing
Journal of Atmospheric and Oceanic Technology
Journal of Climate
Journal of Geophysical Research – Atmospheres
Journal of Hydrology
Journal of Hydrometeorology
Journal of the Meteorological Society of Japan
Monthly Weather Review
Nature Communications
Remote Sensing Letters
Scientific Online Letters on the Atmosphere
Tenki