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Education

Mar. 2024	Ph.D., Geophysics , Tohoku University, Japan
Mar. 2020	M.Sc., Geophysics , Tohoku University, Japan
Mar. 2018	B.Sc., Geophysics , Tohoku University, Japan

Research Experience

Apr. 2024–present	Research Fellow , Center for Atmospheric and Oceanic Studies, Tohoku University, Japan
Jan. 2022–Jun. 2022	Visiting Student , International Pacific Research Center, University of Hawaii at Manoa, US
Oct. 2019–Mar. 2024	Research Assistant , Geophysics, Tohoku University, Japan

Honors and Awards

2021	Outstanding Student Presentation Award , Japan Geoscience Union (JpGU) Meeting 2021
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Research Funding and Fellowship

2019–2023	The International Joint Graduate Program in Earth and Environmental Sciences (GP-EES), Tohoku University
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Publications

1. **Amma, M.**, and T. Hayasaka, 2023: Interannual variation in top-of-atmosphere upward shortwave flux over the Arctic related to sea ice, snow cover, and land cloud cover in spring and summer, *Journal of Climate*, 36, 5163-5178. <https://doi.org/10.1175/JCLI-D-22-0440.1>

Presentations

1. **Amma, M.,** and T. Hayasaka, Interannual variation in top-of-atmosphere upward shortwave flux over the Antarctic region, the 14th Symposium on Polar Science, (November 14–17, 2023, Tachikawa, Japan), Poster.
2. **Amma, M.,** and T. Hayasaka, Atmospheric effect on intense marine heatwaves in South Java, International Symposium: Past, Present, and Future of the Marine Environment and Ecosystems, (October 18–19, 2023, Sendai, Japan), Poster.
3. **Amma, M.,** and T. Hayasaka, Long-term variation in top-of-atmosphere upward shortwave radiation over the Arctic and Antarctic regions, Earth, Sea and Sky VIII: International Joint Graduate Program Workshop in Earth and Environmental Sciences, (May 28–31, 2023, Sendai, Japan), Poster.
4. **Amma, M.,** and T. Hayasaka, Long-term variation in top-of-atmosphere upward shortwave radiation over the Arctic and Antarctic regions, Japan Geoscience Union Meeting 2023 (May 21–26, 2023, Chiba, Japan), Oral.
5. **Amma, M.,** and T. Hayasaka, Long-term variation in top-of-atmosphere upward shortwave radiation over the Antarctic region, Meteorological Society of Japan Spring Meeting 2023 (May 16–20, 2023, Online), Poster.
6. **Amma, M.,** B. Qiu, N. Schneider, K. Richards, and T. Hayasaka, Interannual variation in surface net heat flux in the Barents Sea, AGU Fall Meeting 2022, (December 12–16, 2022, Chicago, US), Poster.
7. **Amma, M.,** T. Hayasaka, What controls the interannual variability of upward shortwave radiation at the top-of-atmosphere over the Arctic?, International Radiation Symposium 2022, (July 4–8, 2022, Thessaloniki, Greece), Poster.
8. **Amma, M.,** T. Hayasaka, What controls the interannual variability of upward shortwave radiation at the top-of-atmosphere over the Arctic?, Earth, Sea and Sky VII: International Joint Graduate Program Workshop in Earth and Environmental Sciences (June 6–10, 2022, Online & Sendai, Japan), Poster.
9. **Amma, M.,** T. Hayasaka, Seasonal and long-term variations in the top of the atmosphere shortwave radiation over the Arctic, Earth, Sea and Sky VI: International Joint Graduate Program Workshop in Earth and Environmental Sciences (June 7–11, 2021, Online), Poster.
10. **Amma, M.,** T. Hayasaka, Seasonal and long-term variations in the top of the atmosphere shortwave radiation over the Arctic, Japan Geoscience Union Meeting 2021 (May 30–June 6, 2021, Online), Oral.
11. **Amma, M.,** T. Hayasaka, Seasonal and long-term variations in the top of the atmosphere shortwave radiation over the Arctic, Meteorological Society of Japan Spring Meeting 2021 (May 16–21, 2021, Online), Oral.
12. **Amma, M.,** T. Hayasaka, What is the controlling factor of trends in upward shortwave radiation over the Arctic?, AGU Fall Meeting 2020 (December 1–17, 2020, Online), Poster.
13. **Amma, M.,** T. Hayasaka, Long-term variation of upward shortwave radiation flux at the top of the atmosphere in the Arctic and its factors, Meteorological Society of Japan Fall Meeting 2020 (October 25–31, 2020, Online), Oral.

14. **Amma, M.,** T. Hayasaka, Analysis of seasonal variations in the atmospheric energy budget over the Kuroshio and the Gulf Stream, Mereological Society of Japan Fall Meeting 2019 (October 28–31, 2019, Fukuoka, Japan), Poster.
15. **Amma, M.,** T. Hayasaka, Analysis of atmospheric energy budget in the wintertime North Pacific, Mereological Society of Japan Spring Meeting 2019 (May 15–18, 2019, Shibuya, Japan), Poster.