

Research Report

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05/02/2024 – 02/05/2024

During my research stay in Prof. Kiwamu Nishida's laboratory, we delved into the analysis of seismic data, aiming to unravel the mysteries behind the remarkable environmental seismic events that transpired near Greenland's east coast last year. Our collective efforts have yielded significant strides, particularly in understanding a potential tsunamic-induced landslide and the seismological nature of a long-lasting monochromatic event. These findings, which we are preparing to present as a poster at the 2024 Japan Geoscience Union Meeting and in a manuscript, mark a crucial step forward in our collaboration. I am optimistic that this fruitful collaboration will pave the way for future opportunities with Prof. Nishida and other colleagues in the realm of environmental and glacial seismology and beyond.

Alongside our primary research activities, I had the privilege of sharing my knowledge and insights through four seminars:

1. *Correlation methods of earthquake coda in seismic body wave studies of the Earth's interiors*, ERI Ocean Hemisphere Research Centre, 29/02/2024.
2. *New insights into Earth's inner core structures from late earthquake coda*, ERI Friday seminar, 15/03/2024.
3. *A Bayesian approach to account for model error in moment tensor inversion*, ERI Volcano Research Centre, 09/04/2024.
4. *Seismic insights into Earth's inner core structures from late earthquake coda*, JAMSTEC Yokosuka, 18/04/2024.

I also visited and presented a seminar at the JAMSTEC headquarters in Yokosuka, hosted by Dr. Satoru Tanaka. Another highlight of my stay was a day-long visit to the Chikyu drilling vessel organized by the international office.

Finally, I would like to acknowledge the financial and in-kind support from the international office, which has made my stay enjoyable. Particularly, I want to thank Ms. Yoshie Kimura for her warm hospitality, which helped me quickly integrate into some parts of Japanese culture.