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Retrieval of the day-to-day tidal MLT variability at low latitudes from a radar network

From May 14 to August 6, 2025, I undertook a research stay at Kyushu University in Fukuoka, Japan, to complete the final phase of my PhD work in collaboration with Professor Huixin Liu, who served as my local host. During this period, I finalized the validation of a feasibility study focused on retrieving the day-to-day variability of tidal components at low latitudes using the JAWARA reanalysis model, and subsequently applied the method to real radar wind data.

As part of this work, I also identified a case study examining the day-to-day variability of the DW1 tide during the abnormally strong Mesospheric Semiannual Oscillation (MSAO) of 2023, which is expected to be included in a forthcoming publication.

Valuable discussions with Prof. Liu enhanced my interpretation of the results. These exchanges have laid the foundation for continued collaboration, including the potential joint analysis of other important tidal components such as SW2 and DE3, both of which are crucial for advancing our understanding of ionosphere-atmosphere coupling.

During my stay, I resided in the Ito Campus dormitory, which was conveniently located close to the university. In addition to my academic activities, I had the opportunity to visit several cities, including Nagasaki, Hiroshima, and Tokyo, and to explore the vibrant city of Fukuoka. Interacting with local residents and immersing myself in Japanese culture provided truly unforgettable personal experiences.

In conclusion, my stay at Kyushu University offered a highly enriching academic experience. The opportunity to collaborate with Prof. Liu's research group and to participate in seminars, lectures, and both academic and cultural activities provided a deeply enriching and memorable experience.



This photo was taken during a visit to the Mount Fuji area, with the iconic mountain visible in the background.