

Name: Wenjie Sun

Affiliation: Institute of Geology and Geophysics, Chinese Academy of Sciences

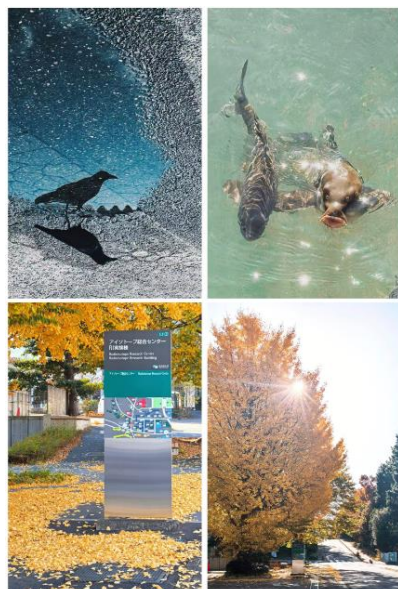
Report on my academic visit to Nagoya University under support from PBASE

Under the support of PBASE, I was able to take the opportunity to visit the beautiful Nagoya University and spent about two months in Japan to conduct collaborative researches on ionospheric irregularities with Otsuka Sensei. I joined the group of Otsuka Sensei from 10th October to 06th December 2025, during which I visited Huixin sensei in the beautiful Kyushu University on 20th November 2025.

During my stay in Nagoya, I have had intensive discussion with Otsuka Sensei on ionospheric disturbances and irregularities, mainly on ionospheric plasma bubbles and their seeding sources from wave structures. We also talked about the possible research fields based on the expanded capability of general all-sky meteor radars, including ionospheric E-region irregularities, plasma bubbles, bottom-type scattering layers, as well as lower-atmospheric activities, i.e., thunderstorm related activities. Otsuka



Sensei gave me many nice suggestions on my future studies and on how to become a better researcher. Otsuka Sensei also invited me to have Japanese hot pot, which is very delicious and I love it very much. I also enjoyed the group seminar every week and it is my honor to make a presentation on the seminar before my departure. During my stay, Dr. Xu Zhou came to visit me and I followed him back to Fukuoka to visit Kyushu University on 20th November, talking with Huixin sensei on ionospheric irregularities. It is also my honor to make a presentation on the seminar of Huixin sensei's group. We talked and discussed extensively on sporadic E layers and plasma bubbles, which are inspiring on my research works. It's relevant to mention the nice experience of



sharing the same office with Dr. Manu Varghese during my stay. We have known each other before in China and I'm very happy to meet him in Nagoya University. We spent many good time talking about researches, cultures in different countries, life in Japan and China, and our hobbies.

In summary, the visit to Nagoya University under the support from PBASE is a wonderful and interesting experience for me, which is of great importance for my research career. During my stay, I have finished two manuscripts regarding plasma bubbles and sporadic E respectively. I am very grateful to Otsuka sensei for providing this great opportunity to me. I hope that my research works could contribute to the PBASE program and I look forward to conduct further collaborative researches on multiple topics in the near future.