

## XMAS 2025 conference report

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First of all, I want to sincerely express my gratitude to the bereaved family of Professor Emeritus Yosuke Kamide for donation, which was used for a part of the financial support for this travel.

I attended many presentations associated with my study. The most impressive presentation is “Seasonal variability of eddy kinetic energy in the greater Agulhas Current System” provided by Mengmeng Li from Institute of Oceanography, Chinese Academy of Sciences. Although the study regions are different, our methods have similarities. Her results show Barotropic instability plays an important role in the seasonal modulation of eddy kinetic energy in the greater Agulhas Current System. The vertical structure figures of eddy kinetic energy also provide me with new insights.

After attending oral presentations of others, I gave poster presentation on 16<sup>th</sup> Jan with the title “A seamless diagnosable expression for interpreting energetics of atmospheric waves at all latitudes”. I changed a lot of opinions with attendees including professors and students. The most surprising thing about this conference is that I met Prof. Bo Qiu, a famous researcher of physical oceanography. I used to read a lot of his papers when doing academic studies, so I respected his academic work for a long time. I attended his oral presentation with title “Bi-directional energy cascades in the Pacific Ocean from equator to Subarctic Gyre”. This presentation introduces how energy is transferred across different length scales. This study is important for understanding the ocean circulation equilibration and variability.

I am also glad that I can discuss my study with him. I received many valuable suggestions from him about my present study. He recommended some related papers and inspired me in some directions of future studies. It is really a great experience to receive his comments.

It is also unforgettable to communicate with other students from different universities and countries. It is always interesting to have a talk with them. By learning about studies of excellent researchers, I get more motivation of improving my own study.

In a word, it is really a meaningful experience to attend XMAS 2025. I gained a lot of experience which is beneficial for future studies. I want to thank the bereaved family of Professor Emeritus Yosuke Kamide again for providing me the opportunity this time.



Pic1 Photo with Prof. Bo Qiu in front of my presentation poster  
<Supervisor's name>

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