

Visiting Report

Name : Qian Xu

Affiliation : Graduated school of “Environmental Studies”

Laboratory of Oceanography (Grade D3)

Duration of the stay : 2017/6/7~7/4

Name & country of the institution :

Lamont-Doherty Earth Observatory at Columbia University

It was my great honor that supported by Center for International Collaborative Research, Institute for Space-Earth Environmental Research, to visit Lamont-Doherty Earth Observatory at Columbia University, New York, June 7th to July 4th, 2017.

Profs. Joaquim Goes and Helga Gomes in Earth Institute, Columbia University are famous in marine phytoplankton physiology and productivity which associate with climate change and its impact on ocean biota and biogeochemical processes. They lead the development of ocean color and other remote sensing algorithms and methods for studying ocean carbon cycling and air-sea CO₂ fluxes.

My study is about phytoplankton distribution in the East China Sea. Profs. Joaquim Goes and Helga Gomes visited our lab two years ago and we had wonderful discussion on my study. I started to write a paper under their great encourages. That was such a great opportunity to discuss my research again when the paper was almost finished. Their genius ideas and suggestions highly contributed on the paper and greatly encouraged me to make it to be submitted.

Besides my current study, I joined their seminar and meeting and learned new direction of research on noctiluca bloom and microbeads which became hot topic in marine environment. I studied with students who joined summer internship in their laboratory, and got to know the project of internship in Columbia University which could bring up the students interests on oceanography and environmental studies. In the last week, presented my study in Ocean Carbon Biogeochemistry (OCB) Workshop. It was held at the Woods Hole Oceanographic Institution, one of the best oceanographic institute in the world. I had good discussions with researchers there, and got many positive feedback on my study.

After work, I explored and enjoyed New York city. I was impressed by the differences between U.S and Japan on culture and behaviors. Profs. Goes and Gomes also invited

me to have dinner at their home and join the party of their friends. With those great chances I made a lot of friends in U.S..

Outside of study, I think this visiting provided great opportunity to make connection with researchers from different countries. To join OCB workshop was my first time to have presentation out of Asia, by this great chance I got to know more famous scientists and learned how to develop my network with researchers around the world.

< Supervisor's name >

Ishizaka Joji



Fig.1. Group photo of Prof. Goes and Gomes Lab.



Fig.2. A & Q section during presentation on OCB workshop