

## 2023 Annual Report of Working Group 50

The WG 50 group meeting was held in the morning of Oct. 25 in the Olympics Room and was chaired by Yisen Zhong. 10 people participated including one online (*Endnote 1*).



### AGENDA ITEM 1

#### **Review article writing**

The participants discussed how to structure the review article and decided to divide the sections according to the physical dynamic processes instead of subregions, because submesoscale in the North Pacific is not vigorous and rich everywhere. The participants then discussed how to incorporate the interactions with biological and ecosystem processes. They suggested adding the bio-physical interaction in each dynamic process section with a summary at the end. They also agreed to invite more experts to contribute to the writing, particularly ecosystem scientists.

### AGENDA ITEM 2

#### **International collaboration**

Yisen Zhong introduced the collaboration project he leads with Annalisa. The project focused on the impacts of submesoscale processes on atmospheric carbon removal by sinking seaweed to the deep ocean. More international collaboration between members was strongly encouraged. Each member proposed their own scientific topics, some of which received a lot of attention from other participants. They also listed several international collaboration fundings that can be applied such as BRICS STI Framework Programme, China-Korea, US-China, China-Japan joint research projects, etc.

## Working Group 50 – 2023

### *Endnote 1*

### **Working Group 50 participation list**

#### Members

Yisen Zhong (China, Co-Chair)  
Bo Qiu (USA, Co-Chair)  
Tetjana Ross (Canada)  
Takeyoshi Nagai (Japan)  
Sung Yong Kim (Korea)  
Hajoon Song (Korea)  
Annalisa Bracco (USA)

#### Members unable to attend

Canada: Jody Klymak  
China: Fangli Qiao  
Japan: Yusuke Uchiyama  
Russia: Sergey Prants, Nikita Aleksandrovich  
Chikanov

#### Observers

Daisuke Hasegawa (Japan)  
Sung Hyun Nam (Korea)