

The 10th UNESCO/IOC-RTRC-ODC Training Course on Regional Application of Coupled Climate Models

13-22 July 2020
Qingdao, China

UNESCO/IOC-RTRC-ODC center aims to promote the international cooperation and enhance the research capacity and capability in WESTPAC region on ocean dynamics, air-sea interactions, climate change and numerical modeling.

The training course is designed to provide advanced training and education for young scientists, promote exchange among all the participants, and initiate cutting-edge research on regional climate system. The training covers various topics including the state-of-the-art coupled climate models, regional climate analysis and hand-on practices, as well as related frontier researches. World famous experts in the field of dynamics and modeling of climate system will serve as lecturers of this training course.

Contents

Workshop on Modeling the Ocean and Climate (13-14 July 2020)

- Ocean dynamics and air-sea interactions
- Global and regional ocean models
- Coupled climate system models

Training Course on Regional Application of Coupled Climate Models (15-22 July 2020)

- Introduction of global climate system model
- Development in regional climate system model
- Regional air-sea interactions
- Prediction and projection of regional climate

Grants: A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Deadline: 27 March 2020, 24:00 GMT+8

Online application: <http://odc.fio.com.cn/a/applicationonline/>

Local Organizers:

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Further information: <http://odc.fio.com.cn/>



中华人民共和国自然资源部
Ministry of Natural Resources of the People's Republic of China



CLIVAR– FIO Summer School on Ocean Macroturbulence and Its Role in Earth's Climate

6 - 11 July 2020
Qingdao China

The summer school is intended for early career scientists with research interests in ocean and climate. It will focus on the interactions of ocean meso- and sub-mesoscale motions with Earth's climate system, including the following topics:

- **Observations:** How are remote and in situ observations made on these scales, what new technologies (e.g. autonomous vehicles) are becoming available, and what are the challenges in analyzing and interpreting these data?
- **Dynamics:** What are the dynamical mechanisms that produce meso- and sub-mesoscale motions? How do they interact with larger-scale circulations?
- **Modeling:** How are meso- and submeso-scale motions represented in numerical models? What are the computational challenges to simulating these scales?
- **Role in climate:** How do meso- and submeso-scale motions influence air-sea interactions and fluxes of energy and nutrients between the near-surface and deeper ocean? How do they shape marine ecosystems? What is the importance of ocean macroturbulence for simulating and projecting climate change?

Director:

W. Robinson, N. Carolina State Univ., US

Lecturers:

E. Chassignet, Florida State Univ., US
A. Dellapenna, Univ. of Washington, US
G. Ewans, NOC, UK
X. Ma, Ocean Univ. of China
F. Qiao, FIO-MNR, China
W. Robinson, N. Carolina State Univ., US
S. Speich, IPSL, France
P. Zuidema, Univ. of Miami, US

Local Organisers

J. Santos, ICPO, icpo@clivar.org
J. Li, ICPO, jing.li@clivar.org

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Further information: <http://www.clivar.org/events/clivar-fio-summer-school-ocean-macroturbulence-and-its-role-earth%E2%80%99s-climate>



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