3rd OSS-2018

May 8-10, 2018, Qingdao, China

3rd Open Science Symposium

on Western Pacific Ocean Circulation and Climate

SECOND ANNOUNCEMENT

May 8-10, 2018, Qingdao, China

http://oss18.csp.escience.cn/dct/page/1

Abstract submission deadline: 15 February 2018
Acceptance notification: Early March 2018
Early bird registration: 15 March 2018

中国科学院海洋研究所
INSTITUTE OF OCEANOLOGY, CHINESE ACADEMY OF SCIENCES

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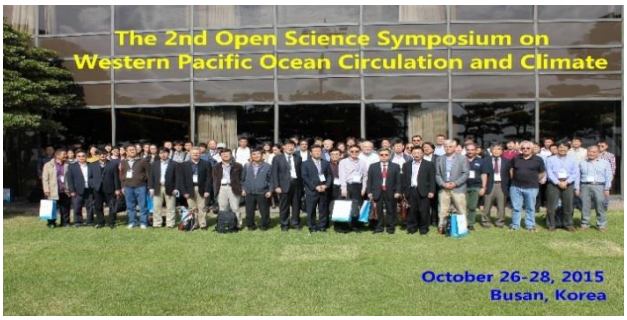
INTRODUCTION

The Western Pacific Ocean (WPO) features a complicated ocean circulation system with intensive multiscale interactions with the atmosphere and adjacent ocean basins. Understanding the dynamics of the WPO ocean circulation as well as its role in climate and biogeochemical processes is of crucial importance.



The first and second Open Science Symposium (OSS) on Western Pacific Ocean Circulation and Climate (WPOC) were successfully held in 2012 in Qingdao, China and 2015 in Busan, Korea. The WPOC OSS has been an important conference among the western Pacific Ocean circulation and climate research community and beyond.

The **3rd Open Science Symposium on Western Pacific Ocean Circulation and Climate (3rd OSS-2018)** will be held on May 8-10, 2018 in Qingdao, China. This will provide a forum for oceanographers, meteorologists and climate scientists to exchange recent progresses in their study of the WPO circulation and climate and its generality/difference with other oceans, marine biogeochemistry and ecosystem, their variability, changes and impacts, to explore opportunities for international scientific collaboration, and to promote inter-disciplinary study in the WPO. It will be an excellent opportunity for early career scientists and students to show-case their research and gain international exposure.

SESSIONS

Symposium topics will be presented in oral and poster formats. Topics include:

Session 1: Pacific Western Boundary Currents (WBCs) dynamics and variability

Chair: **QIU, Bo** University of Hawaii, USA
CHEN, Zhaohui OUC, China

(1) Characteristics and dynamics of multiscale variations of North Equatorial Current (NEC), Kuroshio Current at its origin and Mindanao Current (MC), and how the tropical and subtropical gyres interact near the western boundaries
(2) Origins, fates and variations of Mindanao Undercurrent, Luzon Undercurrent and their connections with other undercurrents and the upper ocean circulation.
(3) Processes determining variations of MC-NGCC/NGCUC (New Guinea Coastal Undercurrent) confluence and inter-hemisphere exchanges.
(4) Sources and sinks of zonal currents feeding and draining the western boundary: Equatorial Under Current, North Equatorial Counter Current, NEC and the northern Tsuchiya Jet.

Session 2: Interaction of WPO circulation with adjacent waters (e.g., the East and South China Seas, ITF, Indian Ocean, extra-tropical Pacific Ocean)

Chair: **SPRINTALL, Janet** Scripps IO, USA
YUAN, Dongliang IOCAS, China

(1) Characteristics and variations of water exchanges between the NWP and the South China Sea via Luzon Strait.
(2) Pathways of subtropical-tropical oceanic heat and freshwater exchanges, and their relative importance in low-frequency variability of the equatorial Pacific thermocline.
(3) Roles of the ITF in the NWP mass and heat balance, and in connecting interannual variations of the tropical Indo-Pacific system.
(4) The role of WBCs in the inter-ocean exchanges via ITF.

Session 3: Roles of WPO circulation variability in warm pool and ENSO variability

Chair: **KESSLER, William S.** NOAA, USA
FENG, Ming CSIRO, Australia

(1) Pathways and mechanisms of the low latitude WBCs in transporting mass, heat and salt into and out of the warm pool.
(2) Oceanic processes in the formation and evolution of thermohaline structure in the western tropical Pacific.
(3) Oceanic advection and ocean-atmosphere feedbacks responsible for the characteristics/variability of the warm pool.

Session 4: Influences of WPO on regional (e.g., monsoon, typhoon, extreme climatic events) and global climate systems and their predictability

Chair: **LI, Jianping** BNU, China
YU, Jin-Yi University of California, USA

(1) Responses and feedbacks of upper ocean to typhoon at different stages, and parameterization of surface fluxes and vertical mixing.
(2) Interactions between the MJO and underlying SST and oceanic processes in low-frequency modulations of the ISV over the NWP.
(3) Role of air-sea coupling over the NWP in Monsoon-TBO-ENSO interaction.
(4) Extratropical-tropical interaction in decadal modulation of the ENSO and tropical western Pacific warming.

Session 5: WPO's role in and impacts on carbon cycle, biogeochemical process, acidification, ecosystem, paleo-oceanography, and so on

Chair: **DAI, Minhan** Xiamen University, China
CHAI, Fei SIO, SOA, China

(1) The biogeochemical and ecosystem processes notably carbon cycling and its coupling with ocean circulation in the NWP.
(2) The coupled physical-biogeochemical processes to better constrain the feedbacks of the NWP to regional/global climate changes.
(3) Perspectives on multidisciplinary observation and researches through better international networking and collaborations are also welcome.

Session 6: Characteristics, dynamics and impact of WBCs in other oceans

Chair: **SPEICH, Sabrina** LMD, France
KRUG, Marjolaine CSIR, South Africa

(1) Commonalities of global WBCs in terms of their characteristics, impacts (e.g., on storm tracks), and response to greenhouse warming.
(2) The climatic role of global WBCs, particularly the southern hemisphere super-gyre, which connects the subtropical gyres of the South Pacific, South Atlantic and South Indian Ocean, and feed into the global conveyor, influencing the global thermohaline circulation.

KEYNOTES

(1) WU, Lixin topic: Ocean circulation and climate

(2) GORDON, Arnold topic: ITF dynamics

(3) XIE, Shang-Ping topic: Warm pool & ENSO variability

(4) WIJFFELS, Susan topic: Argo observations

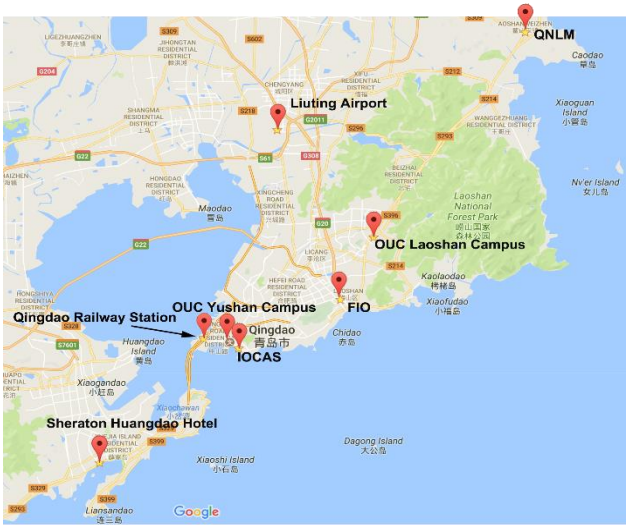
(5) RHINES, Peter topic: Eddy dynamics

(6) BOYLE, Edward topic: Marine biogeochemistry

CONFERENCE VENUE

Sheraton Huangdao Hotel

No.1 Taihangshan Road, Huangdao District, Qingdao.



ABSTRACT SUBMISSION

Abstract submission is now **open**. All abstracts must be prepared in English with no more than 350 words.

Website:

http://oss18.csp.escience.cn/dct/page/1

Abstract submission fee:

150 RMB

Deadline:

15 February 2018

Acceptance notification:

Early March 2018

REGISTRATION & FEE

Registration is now **open**.

	Valid until **15 March**	16 March until **20 April**	April 21 until **8 May**
regular	RMB 2000	RMB 3000	RMB 3500
Student*	RMB 1000	RMB 1500	RMB 2000

**Students shall provide a supporting document stating their current enrollment.*

All registration fees will cover admission to all oral and poster sessions, coffee breaks, meals and meeting documents. Only registered participants will be provided with meal vouchers. Cash reward for the best poster presentation will be up to **5000 RMB** (include tax).

TRAVEL SUPPORT

Financial travel support for up to **15** students or early career scientists is available and now **open** for application. This is sponsored by Qingdao National Laboratory for Marine Science and Technology (QNLM). The organizer reserves the right to select the participants to be supported. For application, please email your CV and submitted abstract to npoce@qdio.ac.cn before **15 February 2018.**

VISA

An invitation letter will be sent to your email once your abstract submission is completed. For any further enquiries, please contact the local secretariat.

ACCOMODATION

Sheraton Huangdao Hotel

No.1 Taihangshan Road, Huangdao District Qingdao. Website:

http://www.starwoodhotels.com/sheraton/property/overview/index.html?propertyID=3672

Other hotels nearby:

There are many hotels around the conference venue, including express inns, which can be booked via booking.com or ctrip.com. Two of them are listed below:

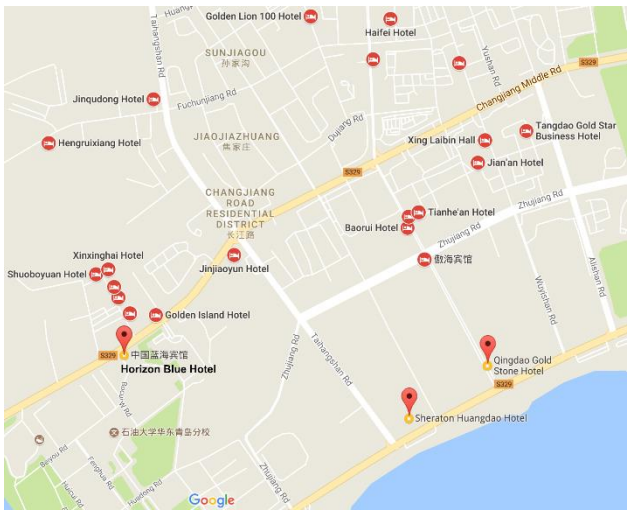
Blue Horizon Hotel

No.66 Changjiangxi Road, Huangdao District, Qingdao. Website:

http://www.lanhai.cn/fHotel/initHomePage?id=11217

Qingdao Gold Stone International Hotel

No.157 Jinggangshan Road, Huangdao District, Qingdao. Website: http://www.kingrandhotel.com/



QINGDAO

Qingdao, located in the southeast part of Shandong Province, is a famous seaside city. It is an important center for marine science research and technology in China and home to several national ocean research institutions, including: Institute of Oceanology, Chinese Academy of Sciences; Ocean University of China; Qingdao Institute of Marine Geology, China Geological Survey; First Institute of Oceanography, State Oceanic Administration; Yellow Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences and Qingdao National Laboratory for Marine Science and Technology.

Huangdao district is a city area of Qingdao, which is also the Ninth National New District of People's Republic of China. As a fast-developing district, Huangdao is the clusters of international high-level marine industry, show-casing international marine economic cooperation, the international shipping hub, and the pilot area of Shandong blue economy.

In addition to the cleaner air, bathing beach, mellow Tsingtao Beer and delicious seafood that are well known as the characteristics of Qingdao, Huangdao has even more wonderful sea views. The 'Best Asian Beach' is located here, with the name of 'Golden Beach'.

USEFUL INFORMATION

Weather

May is in the spring and it is a mild month, but temperature differences during the day and night are significant with average daytime/nighttime temperatures (15°C/7°C).

Time Zone

GMT+0800

Currency & ATM

The official currency of China is RMB. Visa, MasterCard, American Express, JCB, Diners Club, Discover and other major international credit cards are accepted at most larger establishments or can be used to withdraw cash in local currency from ATMs throughout the city.

Electricity & Electrical Outlet

Voltage is 220 and most outlets accept US and European style plugs.

Tipping

In China, it is not customary to tip restaurant waiters and taxi drivers.

Transportation to/from airport

Taxis: A taxi ride from the airport to the Conference venue costs about 150 RMB. The taxi stand at the airport is in the basement and is clearly indicated – just follow the signs.

Shuttle Buses: There are five shuttle bus lines (http://www.travelchinaguide.com/cityguides/shandong/qingdao/getting-around.htm), transferring passengers between the airport and downtown Qingdao.

Emergency calls

Police: 110; Fire: 119; First Aid: 120

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