

SOLAS in Asia:
A Future SOLAS Symposium

26-28 October, 2016

Qingdao, China

(Final circular)

Organizer:

Ocean University of China

Sponsors:

National Nature Science Foundation of China (NSFC)

Qingdao National Laboratory for Marine Science and Technology, China

**Key Laboratory of Marine Environment and Ecology, Ministry of Education,
Ocean University of China**

**State Key Laboratory of Marine Environmental Sciences, Xiamen University,
China**

- **Objectives:**

The Surface Ocean - Lower Atmosphere Study (SOLAS) is an international interdisciplinary research initiative. Its primary objective is to achieve quantitative understanding of the key biogeochemical-physical interactions and feedbacks between the ocean and the atmosphere. The SOLAS community is very proud of the extraordinary accomplishment during the past decade. Challenges remain however, when we outlook the future of SOLAS, not only in coordination in cross-disciplinary basic research, but also in climate and ecosystem services. Asian countries have made considerable contributions to SOLAS in the broad context of international collaborations, especially in the fields of ocean carbon cycle, air-sea exchange and atmospheric deposition to oceans. Considering Asian countries acting as the world economic engines, SOLAS studies therein should strengthen internal collaborations and pioneer some international collaboration programs to better service future social-economic activities on the earth.

This future SOLAS symposium aims to foster the exchange of ideas and knowledge between Asian scientists as well as the communication with the international community and to promote collaborations within Asian countries for SOLAS research and activities over the next decade. During this symposium, most of the international SOLAS SSC members will be invited to give talks, and a number of scientists from Asian countries will present their studies.

- **Conference Venue**

Qingdao National Laboratory for Marine Science and Technology
1 Wenhai Road, Aoshanwei, Jimo, Qingdao, Shandong, China

- **Conference Language**

English

- **Abstract Submission:**

Participants need to submit their abstracts to the Contacts before Saturday, Sept. 10, 2016

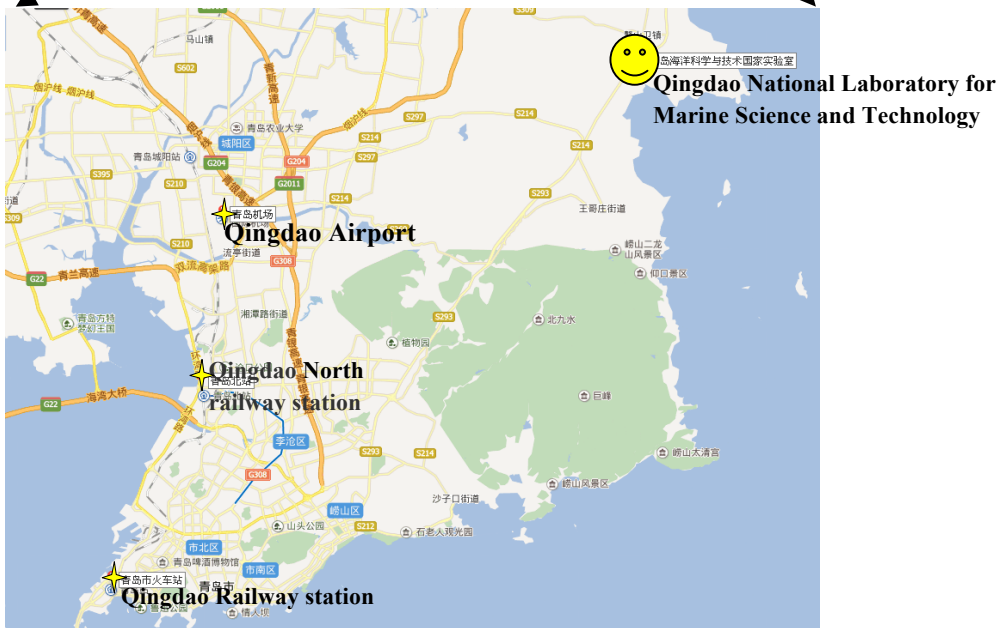
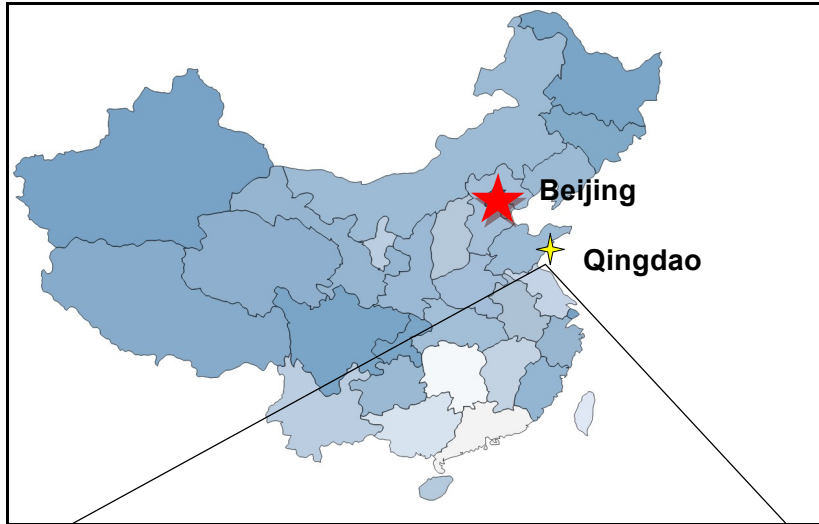
- **Date: 26 – 28 October, 2016**

26 October	Registration
27 October	Workshop (day 1)
28 October	Workshop (day 2)

- **Visa Requirement**

If you need invitation letter or other documents for visa application, please contact Miss Chi (chixin@ouc.edu.cn).

- **Transportation**



Qingdao Located in eastern Shandong Province on the east coast of China. Qingdao Liuting International Airport operates many domestic flights to other cities in China, and international flights to Seoul, Tokyo, Osaka, San Francisco, Nagoya, Frankfurt, and Singapore. Experts could choose to transit these cities, such as Beijing, Shanghai and Jinan if there is no direct flight on arrival and departure days of this symposium.

- **Contacts:**

Xiaohuan Liu (liuxh1983@ouc.edu.cn)
Xin Chi (chixin@ouc.edu.cn)

Programme

26 October, Wednesday, Qingdao		
Arrival and Registration		
Morning, 27 October, Thursday		
09:00 Opening Ceremony Prof. Huiwang Gao & Prof. Guangyu Shi		
09:10-10:50 Chair: Huiwang Gao		
09:10-09:35	Véronique Garçon /CNRS, France	Linking ocean-atmosphere interactions with climate and people
09:35-10:00	Minhan Dai /XMU, China	Overview and outlook of China SOLAS Activities
10:00-10:25	Mitsuo Uematsu /UTokyo, Japan	Overview and outlook of Japan SOLAS Activities
10:25-10:50 Group photo		
10:50-12:05 Chair: Minhan Dai		
10:50-11:15	Maurice Levasseur /UL, Canada	Testing the sensitivity of ocean DMS dynamics to global change
11:15-11:40	Ilan Koren /WIS, Israel	On marine clouds and their response to changes in aerosol properties
11:40-12:05	Sarma VVSS /NIO, India	Land ocean and atmospheric interaction on Ocean ecosystem
12:05 Lunch		

Afternoon, 27 October, Thursday

14:00-15:50 Chair: Pinghe Cai

14:00-14:25	Yuko Onishi /RCFEA, Japan	Introduction to Regional Centre for Future Earth in Asia and its activities
14:25-14:50	Miller Lisa /IOS, Canada	Air-sea gas exchange in polar waters: New ideas in a changing world
14:50-15:15	Parv Suntharalingam /UEA, UK	On the current budget estimates and anthropogenic impacts on ocean N ₂ O
15:15-15:40	Brian Ward /NUI, Ireland	Upper ocean turbulence and its impact on air-sea fluxes

15:40-15:50 Coffee Break

15:50-17:10 Chair: Shuh-Ji Kao

15:50-16:10	Minhan Dai /XMU, China	Diagnosis of CO ₂ fluxes in ocean margins
16:10-16:30	Huiwang Gao /OUC, China	Contrasting effects of Asian dust and haze on dynamics of phytoplankton growth in the Northwest Pacific and Yellow Sea
16:30-16:50	Pinghe Cai /XMU, China	Export flux of particulate organic carbon from the upper Western Pacific
16:50-17:10	Guiling Zhang /OUC, China	Distribution and production of nitrous oxide in the East China Sea

17:30 Dinner

Morning, 28 October, Friday

9:00-11:10 Chair: Zhiwei Han

9:00-9:20	Tong Zhu /PKU, China	Air pollution in coastal mega cities and its climate effects
9:20-9:40	Daizhou Zhang /PUK, Japan	Asian Dust Particles Floating in Air and Settled to the Surface in Southwestern Japan
9:40-10:00	Guipeng Yang /OUC, China	Spatio-temporal variability of dimethylsulfide (DMS) and dimethylsulfoniopropionate (DMSP) in the East China Sea and its controlling factors
10:00-10:20	Zongbo Shi /Birmingham, UK	A new look at nutrient biogeochemistry in the atmosphere and surface ocean
10:20-10:40	Weijun Li /SDU, China	Air pollution-aerosol interactions produce more bioavailable iron for ocean ecosystems
10:40-11:00	Yan Zhang /FDU, China	Contribution of ship emission to atmospheric sulfur and inorganic nitrogen deposition into east China Sea

11:00-11:10 Coffee Break

11:10-11:50 Discussion on Collaboration within Asian Countries and elsewhere

Prof. Minhan Dai & Prof. Huiwang Gao

11:50 Closing Remarks

Prof. Mitsuo Uematsu & Prof. Guangyu Shi

12:00 Lunch

Appendix:

Abbreviation	Full name
Birmingham, UK	University of Birmingham
CNRS, France	National Centre for Scientific Research, France
FDU, China	Fudan University
IOS, Canada	Institute of Ocean Sciences
NIO, India	National Institute of Oceanography, India
NUI, Ireland	National University of Ireland
OUC, China	Ocean University of China
PKU, China	Peking University
PUK, Japan	Prefectural University of Kumamoto
RCFEA, Japan	Regional Centre for Future Earth in Asia, Japan
SDU, China	Shandong University
UEA, UK	University of East Anglia
UL, Canada	University Laval, Canada
UTokyo, Japan	The University of Tokyo
WIS, Israel	Weizmann Institute of Science
XMU, China	Xiamen University