



OceanTeacher Global Academy (OTGA) Regional Training Center-Tianjin 2018 Training Course

Regional Climate Change and Coastal Disaster Mitigation

17-20 September 2018

Tianjin, China



**National Marine Data and Information Service (NMDIS)
National Center of Ocean Standards and Metrology (NCOSM)**



Course Information

1. Organizer

The OceanTeacher Global Academy (OTGA) Training Course “Regional Climate Change and Coastal Disaster Mitigation” is jointly hosted by National Marine Data and Information Service (NMDIS) and National Center of Ocean Standards and Metrology (NCOSM) subordinate to Ministry of Natural Resources, China. Dr. XIANG Wenxi is the principle lecturer of the training course, and Dr. Yu Ting (Julia) is the Teaching Assistant.

2. Date and Venue:

The Training Course will be held from 17 to 20 September 2018 at the Tianjin Zhengxie Club Hotel, Tianjin, China, with the in-kind support by NMDIS of China and IODE through the Government of Flanders, Belgium.

Venue detail:

- **Meeting Room:** The Auditorium, 2nd Floor, No.1 Building (in Chinese: 1 号楼 2 层礼堂)
- **Dining Room:** Guanglu Coffee House, No.4 Building (in Chinese: 委员楼光陆咖啡厅)
- **Welcome Banquet:** Cafeteria Rose, 1st Floor, No.2 Building (in Chinese: 2 号楼 1 层玫瑰厅)

Note: Breakfast will be provided by the hotel at Cafeteria Rose, 1st Floor, No. 2 Building every day from 07:00 to 09:00 in the morning.

3. Liaison

Dr. Yu Ting (Julia) and Dr. Liu Qiulin are the liaisons for the training course. For detailed information about the training please contact them at:

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Course Agenda

16 September (Sunday)

All day **Registration**

DAY 1

17 September (Monday)

- 09:30-09:50 **Opening Ceremony**
- 09:50-10:00 **Group Photo and Coffee Break**
- 10:00-12:00 **Lecture 1: Regional Oceanography of Both the Tropical Indian Ocean and the South China Sea**
Lecturer: Prof. WANG Dongxiao, Chinese Academy of Sciences
- 12:00-14:00 **Lunch Break**
- 14:00-15:30 **Lecture 2: Development and Experience of Impacted-based Decision Support Service and Early Warning System in China**
Lecturer: Dr. PAN Jinjun, China Meteorological Administration
- 15:30-15:50 **Coffee Break**
- 15:50-17:00 **Lecture 2: Development and Experience of Impacted-based Decision Support Service and Early Warning System in China (Continue)**
Lecturer: Dr. PAN Jinjun, China Meteorological Administration
- 17:00-18:00 **Lecture 3: Risk Assessment of Coastal Disasters in China and Implication**
Lecturer: Dr. FANG Jiayi, East China Normal University
- 18:30-20:30 **Welcome Banquet Hosted by NMDIS**

DAY 2

18 September (Tuesday)

- 09:00-10:30 **Lecture 4: Ocean Observation & Ocean Modeling**
Lecturer: Dr. YU Huaming, Ocean University of China
- 10:30-10:45 **Coffee Break**
- 10:45-12:00 **Lecture 4: Ocean Observation & Ocean Modeling (Continue)**
Lecturer: Dr. YU Huaming, Ocean University of China
- 12:00-14:00 **Lunch Break**

- 14:00-14:30 **Lecture 5: The technology and experiences of RMIC/AP on the data accuracy and assurance for the moored buoys and its sensors**
Lecturer: Dr. YU Jianqing, National Center of Ocean Standards and Metrology
- 14:30-15:30 **Participant Presentations: Bangladesh**
- 15:30-15:50 **Coffee Break**
- 15:50-17:30 **Participant Presentations: India, Indonesia, Malaysia**

DAY 3

19 September (Wednesday)

- 09:00-10:30 **Lecture 6: Sea Level Variation and Change: Regulation, Attribution and Prediction**
Lecturer: Prof. ZUO Juncheng, Zhejiang Ocean University
- 10:30-10:45 **Coffee Break**
- 10:45-12:00 **Lecture 7: Sea Level Change and Impacts on China Coast**
Lecturer: Prof. WANG Hui, National Marine Data and Information Service
- 12:00-14:00 **Lunch Break**
- 14:00-15:30 **Participant Presentations: Myanmar, Sri Lanka**
- 15:30-15:50 **Coffee Break**
- 15:50-17:30 **Participant Presentations: Sri Lanka, Vietnam, Thailand, Timor Leste**

DAY 4

20 September (Thursday)

- 09:00-10:45 **Lecture 8: Data Processing and Quality Control of Ocean Observations**
Lecturer: Dr. LIU Shouhua, National Marine Data and Information Service
- 10:45-11:00 **Coffee Break**
- 11:00-12:00 **Graduation Ceremony**
- Training Course Summary
 - Representative Statement
 - Closing Remarks
 - Certificate Award
- 12:00-14:00 **Lunch Break**
- 14:00-17:30 **Field trip: Tianjin Marine Environmental Monitoring Central Station**

Participants List

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Lecturers' Introduction

FANG Jiayi



Affiliation: East China Normal University

Title: Assistant Professor

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Dr. Fang Jiayi is a researcher at East China Normal University (Shanghai, China). She completed undergraduate study in Marine Science (Physical oceanography) from Ocean University of China (Qingdao, China), then completed PhD from Academy of Disaster Reduction and Emergency Management in Beijing Normal University. She had visited National Oceanography Centre at the Southampton University (UK) between January 2016 and July 2017, working with Prof. Robert Nicholls and Dr. Sally Brown. Before that, she participated in the Young Scientist Summer Program 2015 hosted by the International Institute for Applied Systems Analysis (IIASA), working as Research Assistant in the Risk, Policy and Vulnerability (RPV) group. She has multi-disciplinary background includes oceanography, meteorology, engineering, sociology and geography. Her research interests focus on natural disasters and risk in coastal areas, such as coastal risks under climate change, multi-hazards (compound events of storm surge and precipitation), vulnerability & resilience, adaptation and integrated coastal zone management and etc.

LIU Shouhua



Affiliation: National Marine Data & Information Service

Title: Associate Researcher

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Dr. Liu Shouhua, associate researcher of National Marine Data and Information Service. He received his Ph.D in physical oceanography from Ocean University of China in 2011. His research interests mainly focus on nonlinear ocean waves, numerical simulation of ocean waves, climate change, quality control of ocean observations, etc. As a principal investigator, he has completed 4 important scientific programs during the last 6 years, including the National Natural Science Foundation of China, the Natural Science Foundation of State Oceanic Administration, Open Fund of State Key Laboratory of Satellite Ocean Environment Dynamics, Open Fund of Key Laboratory of Ocean Circulation and Waves. In the past few years, he has published more than 15 research papers in the international journals.

PAN Jinjun



Affiliation: China Meteorological Administration

Title: Deputy Director

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Dr. Pan Jinjun is now serving as the deputy director of Public Meteorological Service Center (Nation Early Warning Center) of China Meteorological Administration (CMA). Previously, he worked in Inner Mongolia and Beijing Meteorological Bureau. His rich experience in meteorological disaster prevention and reduction included participation in the 2008 Beijing Olympics meteorological service, and in planning and designing a nation-wide meteorological service. He is also director of the Public Meteorological Service Committee of China Meteorological Society, and director of the Wind Energy Resource Monitoring Evaluation and Forecasting Subcommittee of the National Energy Industry Wind and Electricity Standardization Technical Committee. He currently leads CMA participation in and promotion of the Asia Regional Early Warning System within the WMO Global Multi-hazard Alert System (GMAS).

WANG Dongxiao



Affiliation: Chinese Academy of Sciences

Title: Professor/ Director of CSL-CER

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Wang Dongxiao graduated from Qingdao Ocean University (now Ocean University of China), with Ph.D. He has long been engaged in the study of physical oceanography and air-sea interaction, and has presided over projects such as the 973 Program and the 863 Program. He has published more than 150 SCI papers, which have been cited more than 2100 times. He is the academic leader of the Innovation Group of National Natural Science Foundation. He was awarded the honor of National Self-Improvement Model. He once served as the first director of the State Key Laboratory of Tropical Oceanography, director of the Key Laboratory of Tropical Marine Environmental Dynamic of the Chinese Academy of Sciences (CAS). He is currently the director of the China-Sri Lanka Joint Center for Education and Research (CSL-CER). He has won the second prize of the National Natural Science Award. He used to be the associate editor of JGR-oceans, the member of WCRP/CLIVAR Scientific Steering Committee, co-leader of WCRP Asian Monsoon Year Observation Coordinating Committee, and member of CLIVAR Pacific Scientific Committee. Currently he is a member of the CLIVAR/IOC-GOOS Indian Ocean Region Panel, a member of the SIMSEA Scientific Steering Committee of International Council for Science, and a vice chairman of the China Association of Science Expedition.

WANG Hui



Affiliation: National Marine Data and Information Service

Title: Deputy Division Chief / Researcher

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Wang Hui, researcher, deputy director of Marine Forecast and Disaster Mitigation Division in National Marine Data and Information Service (NMDIS), council member of Marine Forecast and Disaster Mitigation Branch, China Ocean Engineering Consulting Association. She has been devoted to the research and operational management on tide, sea level, climate change, impact assessment and adaption, etc. She has chaired more than 15 national and provincial projects as principle investigator, published more than 30 papers, compiled 7 national bulletins and 13 national planning and special reports, and been awarded 2 provincial technological rewards. Her research interests include sea level change analysis, projection, attribution, climate change analysis, tidal and current forecast, forecast and warning products verification and assessment, observation data uniformity, and so on.

YU Huaming



Affiliation: Ocean University of China

Title: Associate Professor

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Dr. Yu Huaming, associate professor serving in College of Oceanic and Atmospheric Sciences, Ocean University of China. He received his Ph.D. of Physical Oceanography in Ocean University of China, awarded with the Outstanding Doctoral Students in Shandong Province reward in 2010. His research interests include numerical and theoretical studies on tide and wave, numerical modeling of marine ecosystem and fishery resources, assessment of the marine renewable energy resources, ecosystem based management, operational oceanography and so on. As project manager, he has chaired several national programs, such as Natural Science Foundation of Shandong Province ‘Study on the effect of tide on ocean circulation in the Yellow Seas’, National Key Research and Development Program “The Development of Global High-Resolution Wave Reanalysis Product”, National Natural Science Foundation of China project “Global Ocean Tidal Flux and Dissipation”, etc. He also serves as the honorary professor at University of Liverpool, assistant researcher at Texas A&M University (Qatar), council member of China High - Tech Industry Research Association, council member of Qingdao Science and Technology Information Society, and expert of Guangdong Ocean Engineering Equipment Technology Institute.

YU Jianqing



Affiliation: National Center of Ocean Standards and Metrology

Title: Senior Metrology Engineer

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Dr. Yu Jianqing focuses on the research/application for the calibration of marine oceanographic and meteorological instruments. As a project leader, she researched and developed several Measurement Standards for marine instruments, and drafted several relevant calibration standards. These instruments especially include gravitational acceleration wave buoys, tide gauges, and marine anemometers. And these Measurement Standards have been acting as technical supporters to ensure the accuracy and reliability of data in national marine observation projects.

ZUO Juncheng



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Title: Dean/Professor

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Zuo Juncheng was born in June 1965, Shandong Rizhao, member of the National Revolutionary Party, professor in career of physical oceanography and Ph.D. supervisor. He received doctoral degree of physical oceanography from Ocean University of China in 1992. Employed as a lecturer after the graduation, he was promoted to professor since 1997. At present he is the Dean of the College of Marine Science and Technology in Zhejiang Ocean University. Prof. Zuo has been engaged in the teaching, research and application work of tide and sea level changes. He first proposed the fact that seasonal and long-term changes in sea level have a significant impact on the tidal wave motion of the shelf. He delivers courses on tide and methods of analysis on marine environmental factors, and conducts researches on sea level change mechanism, projection of sea level change, impacts of sea level change on offshore and coastal zones, and adaptation technologies of climate changes. Prof. Zuo was the winner of the Ministry of Education's New Century Excellent Talent Support Program (NCET) in 2004. In 2016 he was also awarded as Qianjiang Scholar Distinguished Professor by education of Zhejiang Province.

Local Information

1. Accommodation and payment

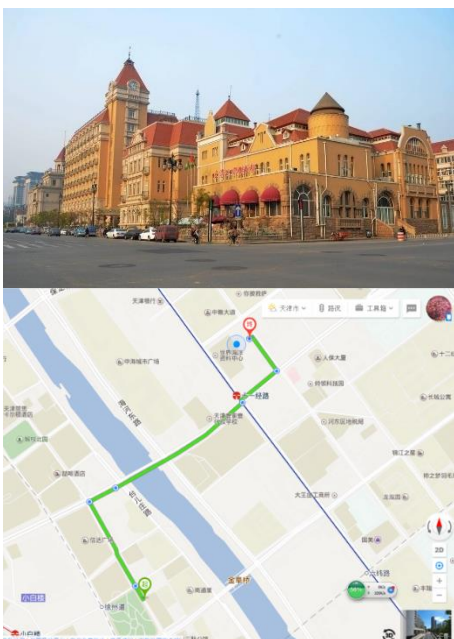
NMDIS offers to cover the hotel accommodation and catering for all the participants at Tianjin Zhengxie Club Hotel. Hotel location is shown in the figure below.

Address: No. 273 Jiefang Road, Hexi District, Tianjin 300141, China;

Tel: +86-22-23398666,

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Website: <http://www.tjzxhotel.com/english/>



Location and exterior appearance of Zhengxie Club Hotel

Free WiFi is available in-room and public areas of the hotel. Check-in time: 14:00 p.m.; Check-out time: 12:00 a.m.

Hotel accommodation will be paid directly by the NMDIS. Breakfast will be provided by the hotel at Cafeteria Rose, 1st Floor, No. 2 Building every day from 07:00 to 09:00 in the morning.

Note: any additional hotel expenses (i.e. minibar, laundry, additional meals and room service, telephone calls and use of fax machine) will be at the participants own expense and must be paid directly to the hotel by the participants at time of check-out.

2. Climate

Tianjin features a four season, monsoon-influenced climate, typical of East Asia, with cold, windy, very dry

winters reflecting the influence of the vast Siberian anticyclone, and hot, humid summers, due to the monsoon. The monthly 24-hour average temperature ranges from $-3.5\text{ }^{\circ}\text{C}$ ($25.7\text{ }^{\circ}\text{F}$) in January to $26.6\text{ }^{\circ}\text{C}$ ($79.9\text{ }^{\circ}\text{F}$) in July, with an annual mean of $12.66\text{ }^{\circ}\text{C}$ ($54.8\text{ }^{\circ}\text{F}$).

Average Weather in Tianjin for September

Average high $^{\circ}\text{C}$ ($^{\circ}\text{F}$) 26(87.8)

Average low $^{\circ}\text{C}$ ($^{\circ}\text{F}$) 17(73.4)


Average precipitation mm (inches) 44(6.772)

Average relative humidity (%) 71

Mean monthly sunshine hours 183

3. Currency Exchange

Chinese Yuan (also known as Renminbi, RMB for short) is the official and legal currency in circulation. Use of foreign currencies is generally not allowed. The official currency exchange rate of Chinese Yuan with other currencies can be found on the following website: <http://www.boc.cn/sourcedb/whpj/enindex.html> which is applied national wide.

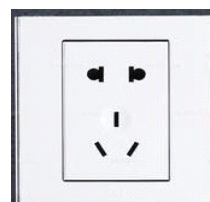
There are currency exchange services at Tianjin Airport and top-end (Normally 4 stars to 5 stars) hotels. All branches of Bank of China and other large banks offer currency exchange services. Look for a sign  when you walk into a bank outlet.

4. Medical and Travel Insurance

Please be sure to arrange your own travel and health care insurances before entering China. The Local Organizer is not responsible for any health problems, hospitalization, accidents, theft or damage to properties that may occur during your participation at the meeting.

5. Electricity and Mobile phone

China uses 220V, 50HZ, AC. Please bring a suitable adaptor for your own convenience.



The standard for Chinese plugs and sockets is set out in GB 2099.1–2008 and GB 1002–2008. A standard socket in China has two pins on the upper part and earthed three pins on the lower part.

Mobile phone should work here without difficulty. If not, you are welcome to use the landline services at the hotel.

6. Cuisine

Tianjin cuisine places a heavy focus on seafood, due to Tianjin's proximity to the sea. It can be further classified into several varieties. Prominent menus include the Eight Great Bowls (Chinese: 八大碗; pinyin: Bādà wǎn), a combination of eight mainly meat dishes.



Guifaxiang fried twisted dough



Go Believe Steamed Stuffed Bun



Erduooyan fried stuffed bun



Tianjin traditional Pancake

The three delicacies of Tianjin include Guifaxiang fried twisted dough (Chinese: 十八街麻花; pinyin: shí bājiē

máhuā), Erduoyan fried stuffed bun (Chinese: 耳朵眼炸糕; pinyin: ěr duoyǎn zhà gāo) and Go Believe steamed stuffed bun (Chinese: 狗不理包子; pinyin: gǒu bùlǐ bāozi). Well-known foods include Tianjin Pancake (Chinese: 煎饼果子; pinyin: jiān bǐ-ngguǒzi), Shou Li Gao, Bengdou Zhang, Nut Zhang, Gaogan of Yangcun, and Xiaobao chestnut. These famous snacks are available in Nanshi Food Street, which was a famous calling-card of Tianjin in the aspect of cuisine.

7. Getting around

Taxis in Tianjin are very inexpensive and abundant. Rates start at 8 RMB for the first 3 kilometers or higher for some fancier taxis; rates are slightly higher after 11pm. Note that you are asked for 1 RMB fuel surcharge for each trip. You can hail a taxi in the street-if the box in the middle of the front windshield red, the taxi is available for hire. The hotel can also arrange for taxis. Tianjin has an extensive bus service-fares starts at 2 RMB, but the schedules are all in Chinese.

A note of caution when crossing the street: Tianjin drivers often run lights, and also, most often, will not stop for pedestrians in the cross walk. Hence be very alert when crossing and look both ways before stepping out on the street.

8. Landmarks and attractions

Drum Tower: Gulou East Street, Nankai District, Tianjin

Five Main Avenues :Central downtown of Tianjin, including Chengdu Avenue, Chongqing Avenue, Dali Avenue, Munan Avenue, and Machang Avenue.

Tianjin Italian Style Town: No. 25 Ziyou Street, Hebei District, Tianjin

Memorial Hall to Zhou Enlai and Deng Yingchao: No. 1 Shuishangongyuan North Road, Nankai District, Tianjin

Nanshi Cuisine Street: No. 1 Shuishang Park North Road, Nankai District, Tianjin

Tianjin Ancient Culture Street: Shuigeda Street, Nankai District, Tianjin

Tianjin Eye: Yongle Bridge, Hongqiao District, Tianjin

Tianjin Radio and Television Tower: Niegong Bridge South, Hexi District, Tianjin

