

# International Workshop on Marine and Atmospheric Climate Relevant Substances

Climate change and anthropogenic activities exert their impacts on marine biogeochemical cycle, resulting in changes of interface fluxes of climate relevant substances, such as trace gases, aerosols and their precursors, which in turn affect climate change.

As a side event of Xiamen World Ocean Week, this workshop aims to share recent research progress on these climate relevant species from tropical to polar marine environments, moreover, to seek common research interests among scientists from different countries, and to lay a foundation for further collaborations.

Meeting link: <https://uso2web.zoom.us/j/7038497710>



**Friday 11 November 2022**

**13:30 – 18:05 UTC+8**

Organiser: Third Institute of Oceanography,  
Ministry of Natural Resources, China

# Workshop Programme

(1330-1805 UTC+8, 11th November 2022)



## *Opening*

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1330-1345 **Liyang Zhan**  
Chairman, Third Institute of Oceanography, Ministry of Natural Resources, China

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1345-1355 **Group photo**

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***Section 1*** Moderator: Jinpei Yan (Third Institute of Oceanography, Ministry of Natural Resources, China)

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1355-1415 **Spatio-temporal variability and transformation of biogenic dimethylated sulfur compounds in the Yellow Sea and East China Sea**  
**Guipeng Yang**  
Ocean University of China, China

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1415-1435 **Distribution and air-sea fluxes of CH<sub>4</sub> and N<sub>2</sub>O in the Western Pacific**  
**Guiling Zhang**  
Ocean University of China, China



1435-1455 **Aquatic N<sub>2</sub>O emission dynamics: insights from the Pearl River Estuary**  
**Qixing Ji**  
The Hong Kong University of Science and Technology (Guangzhou), China

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1455-1515 **High resolution N<sub>2</sub>O distribution in the surface water of the Polar ocean**  
**Liyang Zhan**  
Third Institute of Oceanography, Ministry of Natural Resources, China

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1515-1535 **Subterranean estuary's biogeochemical processes and greenhouse gases emission**  
**Poh Seng Chee**  
Universiti Malaysia Terengganu, Malaysia

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1535-1555 **N<sub>2</sub>O production in the Northern and Southern Benguela upwelling system**  
**Sina Wallschuss**  
University of Cape Town, South Africa

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1555-1605 **Coffee Break**

**Section 2**

Moderator: Liyang Zhan (Third Institute of Oceanography, Ministry of Natural Resources, China)

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**Reactive chemicals from the sea surface - from coasts to the open ocean**

1605-1625

**Anoop Sharad Mahajan**

Indian Institute of Tropical Meteorology, India

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**Production and atmospheric transformation of marine aerosols**

1625-1645

**Lin Du**

Shandong University, China

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**Chemical characterization of organic compounds involved in iodine-initiated new particle formation from coastal macro-algal emission**

1645-1705

**Huan Yu**

China University of Geosciences, China

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**The critical role of Dimethylamine in the rapid formation of iodic acid particles in marine areas**

1705-1725

**Xiuhui Zhang**

Beijing Institute of Technology, China

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1725-1745

**Stable isotopes as a tracer of reactive nitrogen emissions and aerosol formation in the Southern Ocean**

**Katye Altieri**

University of Cape Town, South Africa

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1745-1805

**Assessment of dry deposition flux of land-sourced particulate nitrogen into the ocean**

**Shanshan Wang & Jinpei Yan**

Third Institute of Oceanography, Ministry of Natural Resources, China

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1805

**Summary and Closing**

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