



Royal Academy for  
Overseas Sciences 



中国科学院  
CHINESE ACADEMY OF SCIENCES

The Royal Academy for Overseas Sciences (RAOS) and the Chinese Academy of Sciences (CAS)  
are organizing a two-days activity

# MARINE DATA AND SDGs



BRUSSELS

4 & 5 JUNE 2024

# PROGRAMME

For information, please contact: [contactraos@kaowarsom.be](mailto:contactraos@kaowarsom.be)

The Royal Academy for Overseas Sciences (RAOS)  
and  
the Chinese Academy of Sciences (CAS)  
are organizing a two-days activity  
**Marine Data and SDGs**  
on 4<sup>th</sup> and 5<sup>th</sup> June in Brussels (Belgium).

**PROGRAMME OF JUNE 5<sup>TH</sup>** (provisional version)

**Venue:**

Royal Library of Belgium  
Mont des Arts 28  
1000 Brussels  
<https://www.kbr.be/en/about-kbr/>

- 08:30      *Registration*
- 09:00      Opening by the President of the Royal Academy for Overseas Sciences (RAOS) and the Vice-President of the Chinese Academy of Sciences (CAS)

**Session 1: Blue Economy**

Chair: Prof. Patrick SORGeloos

- 09:15      **Ecological Aquaculture**, by Professor Patrick SORGeloos, Ghent University and member of RAOS
- 09:30      **Behavioral plasticity and physiological adaptations of sea cucumber (*apostichopus japonicus*) during reproduction**, by Professor Libin ZHANG, IOCAS
- 09:45      **The diseases of sea cucumbers in aquaculture**, Professor Igor ECKHAUT, University of Mons
- 10:00      **The blue economy: developing solutions for ocean and human health?**, by Professor Jana ASSELMAN, Ghent University, Blue Growth Research Lab
- 10:15      **Measuring, modelling, managing: towards sustainable treatment of corrosion**, by Professor Geert POTTERS, Antwerp Maritime Academy
- 10:30      Q&A
- 10:45      *Coffee & tea break*

**Session 2: Coastal Ecosystems**

Chair: Prof. Farid DAHDOUH-GUEBAS

- 11:15      **Ecological insights from >3 decades of remote sensing on vegetation dynamics research in mangrove forests in Asia, Africa and the Americas**, by Professor Farid DAHDOUH-GUEBAS, Université Libre de Bruxelles (ULB), Free University Brussels (VUB) and member of RAOS
- 11:30      **A social-ecological systems perspective on mangroves and coasts: a snapshot of recent research**, by Professor Jean HUGÉ, Université Libre de Bruxelles (ULB) and Free University Brussels (VUB)

- 11:45 **Sand and Sustainability in the marine environment**, by Professor Vera VAN LANCKER, Royal Belgian Institute of Natural Sciences and Ghent University
- 12:00 Q&A
- 12:15 *Lunch break*

### Session 3: Ocean observing systems, ocean data and information

Chair: Andreea STRACHINESCU, Directorate-General for Maritime Affairs and Fisheries

- 13:15 **The project EMOD-PACE**, by Andreea STRACHINESCU, Directorate-General for Maritime Affairs and Fisheries
- 13:30 **Non-invasive sediment characterization using multiple remote systems**, by Professor Qunyan REN, IOA-CAS
- 13:45 **Earth Observation data as a governance tool for oceans**, by Gilles OLLIER
- 14:00 **Marine geological and geophysical research at the Renard Centre of Marine Geology, Ghent University**, by Marc DE BATIST, Ghent University
- 14:15 **Physics-based numerical modelling to generate time and space covering data on the behavior of the coastal and marine environment under influence of various stressors**, by Professor Erik TOORMAN, KULeuven and member of RAOS
- 14:30 **Application of AI technology for oceanic phenomena studies**, by Professor Xiaofeng LI, IOCAS
- 14:45 Q&A

### Session 4: Deep ocean and high seas

Chair: Prof. Chaolun LI

- 15:00 **Exploring the depths: Symbiosis-driven biodiversity in cold seep ecosystems**, by Professor Minxiao WANG, IOCAS
- 15:15 **Electronic sensor tags-based marine animal and environment observation technology**, by Professor Yang YANG & Haoxiang MA, IDSSE
- 15:30 **General reflections on the interaction between the BBNJ Agreement and the international deep sea mining regime**, by Professor Klaas WILLAERT, Ghent University
- 15:45 Q&A
- 16:00 *Coffee & tea Break*

### Session 5: Marine Ecosystem Health

Chair: Virginie C. TILOT

- 16:30 **The challenges of conserving marine biodiversity in a context of sustainable development. From exploratory assessments to ocean governance**, by Dr. Virginie C. TILOT, member of RAOS
- 16:45 **Characterization of Cartilage fish derived single-domain antibody**, by Professor Yunchen BI, IOCAS
- 17:00 **Ocean and human health: research at Flanders Marine Institute (VLIZ)**, by Dr. Ann-Katrien LESGRAUWAET, Flanders Marine Institute (VLIZ)
- 17:15 **Biodiversity in arid lands and its application in the ecological improvement of endorheic basins: Aral sea and Tetima lake as examples**, by Professor Yuanming ZHANG, XIEG
- 17:30 Q&A
- 17:45 *Conclusions*

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For registration: <https://www.kaowarsom.be/form/registration-for-the-event>