

## **Session Program**

**18-20 Jul 2023**



## **Meeting AMOC Observation Needs in a Changing Climate**

### **Roadmap for future AMOC observing**

UHH; Institute of Oceanography, Room 022/023  
Bundesstr. 53 20146 Hamburg

## Wednesday 19 July

09:10

### Roadmap for future AMOC observing: Oral session #1

**Session** | **Location:** UHH; Institute of Oceanography, Room 022/023, Bundesstr. 53 20146 Hamburg

09:10–09:25

#### Lessons learnt from Observing System reviews and perspectives on next steps

**Speaker**

Katy Hill

09:25–09:40

#### High resolution ocean circulation models to understand processes and guide observations

**Speaker**

Thomas Haine

09:40–09:55

#### Nature run for AMOC investigations: What are the minimum requirements?

**Speaker**

Eric Chassignet

09:55–10:10

#### Interannual variability of the subpolar MOC and OSNAP array reduction experiment

**Speaker**

Yao Fu

10:10–10:25

#### Western Boundary Overturning Estimation: Past and Future Studies

**Speaker**

Shane Elipot

10:25–10:40

#### Can we trust projections of AMOC weakening based on climate models that can't reproduce the past?

**Speaker**

Dr Gerard McCarthy

10:45

11:15

### Roadmap for future AMOC observing: Oral session #2

**Session** | **Location:** UHH; Institute of Oceanography, Room 022/023, Bundesstr. 53 20146 Hamburg

11:15–11:30

#### Simulation-based approaches for quantitative observing system design

**Speaker**

Patrick Heimbach

11:30–11:45

#### Deep Western Boundary Current variability in the Labrador Sea and its link with sea surface height variability

**Speaker**  
Jörg Fröhle

11:45–12:00

**Meridional Connectivity of a 25-year Observational AMOC Record at 47°N**

**Speaker**  
Simon Wett

12:00–12:15

**A tale of two perspectives on AMOC observing needs: historical gravity and altimetry satellite missions and future Earth system simulations**

**Speaker**  
Daniel Whitt

12:15–12:30

**Adjoint-based Assessment of Ocean Observing Network Design in the Subpolar North Atlantic**

**Speaker**  
Helen Pillar

12:30