

# CLIMAR-5

Fifth JCOMM Workshop on  
Advances in Marine Climatology

6-8 May 2019 Hamburg, Germany

In-situ Wind Workshop

9 May 2019 Hamburg, Germany

Hosted by  
Deutscher Wetterdienst  
(DWD)



## Dates and Themes

- 6–8 May** A three-day workshop organized by JCOMM (WMO-IOC Joint Technical Commission for Oceanography and Marine-Meteorology) introducing operational and scientific advances in marine climatology and the use of in situ oceanographic measurements in marine products and research
- 7 May** Training session on Marine Satellite Data (limited number of participants, registration required)
- 9 May** A one-day in-situ wind workshop organized by Florida State University and NOAA CPO/OOMD
- 10 May** Meeting of the JCOMM Expert Team on Marine Climatology (by invitation)

The CLIMAR-5 workshop will introduce the recently reorganized structure of WMO and IOC infrastructure in JCOMM as approved at its fifth session in Geneva in 2017 as well as a new data management system, the Marine Climate Data System (MCDS), devoted to making oceanographic and marine-meteorological data and metadata available and traceable.

Technical presentations and posters on marine climatology uses, products and services will be highlighted throughout the workshop.

## CLIMAR-5 Topics

### Session I Marine climatology – operational and scientific products and applications

Integrated products  
Generating multi-disciplinary products  
Energy fluxes | ocean heat content | global energy balances | wind waves | storm surges | marine temperatures | currents | salinity

### Session II From observations to climate services and safety at sea

Characteristics and future requirements of observing systems  
Integrating satellite data for marine applications  
Data recovery for longterm climatologies

### Session III Multisector use of marine data

Methods of data synthesis:  
models, reanalyses, assimilation, verification  
Novel ways to integrate interdisciplinary aspects  
Developing services for users

### Session IV The JCOMM MCDS

Integrated data-flow for the collection of marine-meteorological and oceanographic data and metadata from in situ ocean observation platforms

### Poster Session on Data Management

Data flows, formats and infrastructure needs

Format issues

Merging data management for real-time support and climate time-scales

Data homogeneity, harmonization

Quality control

## CLIMAR-5 Goals

- 1 Harmonize the flow of oceanographic and marine-meteorological data and metadata, from sensor to products
- 2 Review the needs of the community for marine climate data and integrated products
- 3 Recommend changes or enhancements to observing and data management practices that will benefit the marine climate community
- 4 Encourage submissions to the Dynamic Part of the *WMO Guide to the Applications of Marine Climatology (WMO-TD 871)*

The in-situ wind workshop (9 May) will focus on wind observations made on marine platforms (e.g., ships, moorings, rigs, autonomous vessels) and the variety of applications these measurements support in the marine climate community.

Outcomes of this workshop will include best practices for in-situ wind observation, including metadata requirements, and a set of priorities to meet user needs. These findings will be published in a Special Journal Issue.

## *In-situ Wind Workshop Topics*

- 1 The accuracy and quality of wind observations and inter-calibration between in-situ and other wind observations (e.g., satellite).
- 2 Wind indices on multiple time scales
- 3 Identifying gaps in characteristics of wind observations associated with various platforms (e.g., ship tracking, national observing practices)
- 4 Rescue of historical wind observations
- 5 Dataset development
- 6 Applications of wind observations in marine climatology

## *Logistics*

### **Venue:**

The CLIMAR-5 workshop will be held in the lecture hall of the *Museum fuer Hamburgische Geschichte*.

The in-situ wind workshop session will take place at the nearby *DWD Marine Meteorological Office*.



### **Registration and Abstract Submission:**

Please register online at: [www.dwd.de/climar-5](http://www.dwd.de/climar-5)

Deadlines:

Abstract submission: 15 February 2019

Registration: 31 March 2019

*Workshop attendance is free of charge and there are no registration fees.*

### **Contact:**

[climar-5@dwd.de](mailto:climar-5@dwd.de)

### **Financial Support**

This is primarily a self funded event, it is expected that the costs of participation will be borne by the institution or Government of the participants. If, however, it is not possible for the Government/institution to meet all of the expenses for his/her attendance, WMO is prepared to consider, upon request, through the WMO Permanent Representative nomination, to provide financial support to a limited number of participants from developing countries for this purpose which may consist of travel costs (most economic air fare according to the most direct route) and per diem. Please contact Ms Champika Gallage ([cgallage@wmo.int](mailto:cgallage@wmo.int)) at WMO Secretariat for further details.

