



WMO OMM

World Meteorological Organization
 Organisation météorologique mondiale
 Organización Meteorológica Mundial
 Всемирная метеорологическая организация
 المنظمة العالمية للأرصاد الجوية
 世界气象组织

Secrétariat

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Our ref.: 04097/2019/OBS/OSD/MAR/CLIMAR

20 February 2019

Annexes: 2 (in English only)

Subject: Fifth JCOMM Workshop on Advances in Marine Climatology, (CLIMAR-5), Hamburg, Germany, 6-9 May 2019

Actions required: (1) Participants to register for the event by 28 February 2019, with PR signature as approval
 (2) Submit abstracts for the event by 28 February 2019

Dear Sir/Madam,

You may recall that based on the success of the series of JCOMM workshops on Advances in Marine Climatology (CLIMAR) workshops in 1999, the Joint WMO/IOC Technical Commission for Oceanography and Marine Meteorology, at its fifth session (JCOMM-5), Geneva, Switzerland, October 2017 agreed to the proposal for a fifth such workshop, CLIMAR-5.

On behalf of the World Meteorological Organization (WMO) and the Intergovernmental Oceanographic Commission (IOC), I now have pleasure in informing you that, at the kind invitation of Deutscher Wetterdienst (DWD), Germany, CLIMAR-5 will be held at the Museum fuer Hamburgische Geschichte, Hamburg. Background information and major goals of the workshop are detailed in Annex I (English only). The preliminary registration form (English only) is included in Annex II. Additionally, more details about the workshop, and the registration forms of the workshop can be downloaded through the website (see link in Annex I), hosted by the DWD, Germany. Updated information regarding the workshop, including logistic information and timetable, will also be available on this website in due course. You are encouraged to visit the website (www.dwd.de/climar-5) for all further information concerning the workshop.

In addition to the main CLIMAR-5 workshop from 6 to 8 May 2019, there will be an additional day focusing on the wind observations made in-situ on marine platforms (Wind Workshop) on the Thursday 9 May 2019. The Wind Workshop will take place at DWD's Marine Meteorological Office in Seewetteramt, Hamburg.

As this is essentially a self-funded event, it is expected that the costs of participation of your expert will be borne by the Government of your country. If, however, it is not possible for the Government to meet all of the expenses for his/her attendance, WMO is prepared to consider, upon request, through the nomination form in Annex II, 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. However, in view of the limited funds available to support this meeting, I urge you to consider the possibility of meeting at least part of the costs involved.

To: Permanent Representatives of Members of WMO represented on JCOMM

Cc: IOC action addressees of Member States of IOC represented on JCOMM)
 Mr Albert Fischer, Director, GOOS Project Office)
 Mr Gerhard Adrian, Permanent Representative of Germany with WMO, for information)
 Mr Johan Stander and Ms Nadia Pinardi, Co-presidents, JCOMM)
 Mr Sergey Belov JCOMM Data Management Programme Area Coordinator)
 Members of the Organizing Committee)

In order to clarify WMO's insurance coverage for non-staff members, I should like to draw your attention to the following:

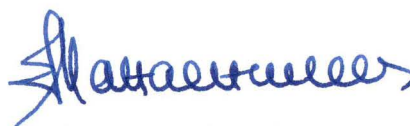
"The Organization accepts limited responsibility for compensation in the event of death, illness or injury attributable to the attendance at meetings or the performance of services, on behalf of the Organization, by non-staff members of the Organization who are authorized to travel at its expense and/or who are receiving a daily subsistence allowance. These persons are therefore fully responsible for any expenses incurred as a result of events which are not attributable to the attendance at meetings or the performance of services on behalf of the Organization and for arranging such life, health and other forms of insurance as they consider appropriate."

You are invited to arrange for the distribution of information concerning the workshop within your country, and in particular to:

- Arrange also for the submission for the preliminary registration form, by potential participants, to be submitted electronically via the workshop website or reach the WMO Secretariat (attention: Ms. Champika Gallage, (Scientific Officer, Marine) E-mail: CGallage@wmo.int) by 28 February 2019.
- Arrange for the submission of abstracts for presentations to be submitted electronically via the workshop website or reach the WMO Secretariat (attention: Ms. Champika Gallage, E-mail: CGallage@wmo.int) by 28 February 2019.

I look forward to a successful workshop and to the further development of these important JCOMM activities.

Yours faithfully,



(E. Manaenkova)
for the Secretary-General

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

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

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) at WMO Secretariat for further details.



NOMINATION / REGISTRATION FORM

CLIMAR-5 Fifth JCOMM Workshop on Advances in Marine Climatology

www.dwd.de/climar-5

6-9 May 2019
Hamburg, Germany

The Government of: _____

proposes the following nomination:

NOTE TO THE NOMINATED PARTICIPANT:
PLEASE COMPLETE ALL THE QUESTIONS IN THIS FORM. PLEASE WRITE CLEARLY, AND
SUBMIT IT, PREFERABLY, IN ELECTRONIC FORMAT.

Mr /Mrs /Dr /etc	Mr / Ms	Dr / Professor / Eng / etc.
Family name		
First name		
Job title		
Professional specialization		
Graduation degree(s)		
ADDRESS:		
Dept/Div.		
Street		
Suite/Office/etc		
City /postal codes		
State/Province/etc		
COUNTRY		
Tel. number(s)		
Fax number(s)		
Email(s) - <i>PLEASE WRITE YOUR E-MAIL(S) <u>VERY CLEARLY</u></i>		
E-mail (1)		
E-mail (2)		
Job responsibilities:		
Financial assistance is requested for: travel <input type="checkbox"/> per diem <input type="checkbox"/>		

QUESTIONS TO THE EXPERT NOMINATED FOR THE WORKSHOP

1 .	<p>Please mark if you are submitting a paper to a Session:</p> <p>1: <input type="checkbox"/> Marine climatology – operational and scientific products and applications</p> <p>2: <input type="checkbox"/> From observations to climate services and safety at sea</p> <p>3: <input type="checkbox"/> Multisector use of marine data</p> <p>4: <input type="checkbox"/> JCOMM MCDS</p> <p>5: <input type="checkbox"/> Wind Workshop</p> <p>6: <input type="checkbox"/> None</p> <p>Title(s): _____</p> <p>_____</p> <p>_____</p> <p>Audiovisual requirements: A laptop computer running MS Windows/PowerPoint, multimedia projector, overhead projector, and WiFi, will be available. If you have any other audio-visual requirements, please note these below:</p> <p>_____</p>
2 .	What do you expect from this Workshop?
3 .	In your view, what would make the Workshop successful?
4 .	Do you have any questions or comments?
5 .	Did you participate at previous CLIMAR or MARCDAT workshops (if yes, indicate which one(s))

PLEASE NOTE, ONLY NOMINATION/REGISTRATION FORMS, SIGNED BY THE PERMANENT REPRESENTATIVE (PR) OF YOUR COUNTRY WITH WMO OR THE IOC ACTION ADDRESSEE(S) OF YOUR COUNTRY, WILL BE CONSIDERED.

Name of PR with WMO or IOC Action Addressee:

Date: _____

(Signature of the Permanent Representative with WMO or IOC Action Addressee)

Please return the completed form **before 28 February 2019**, preferably by e-mail, to the attention of Ms. Champika Gallage, at cgallage@wmo.int, and/or to the WMO Secretariat, at:

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