2022 SCIENTIFIC AND TECHNICAL WORKSHOP OF THE DATA BUOY COOPERATION PANEL

Delivering Global Ocean Surface Data for Research, Operations and User Impact

Venue: WMO Headquarters

Geneva, Switzerland

Date: 1 November 2022

The Scientific and Technical (S&T) Workshop is a flagship event of the annual Data Buoy Cooperation Panel (DBCP) sessions, stimulating productive discussion among data buoy operators, system designers, manufacturers, scientists and other key data users.

This year's S&T Workshop takes place on Tuesday 1 November 2022 at the Thirty-eighth Session of the DBCP (DBCP-38), which is being hosted at the World Meteorological Organization (WMO), Geneva, Switzerland 1-4 November 2022. Full details of arrangements for DBCP-38 will be posted on the meeting website at www.goosocean.org/DBCP-38).

1. PURPOSE OF THE WORKSHOP

The DBCP Scientific and Technical Workshop presents an ideal opportunity for scientists, operators and manufacturers to showcase their work and in doing so share their experience, exchange knowledge, and learn from the innovations, developments and good practices of peers. The workshop shines a light on future scientific and technological enhancements that may ultimately lead to greater impact and value for our users - a foundational focus of the DBCP Strategy.

2. WORKSHOP THEME

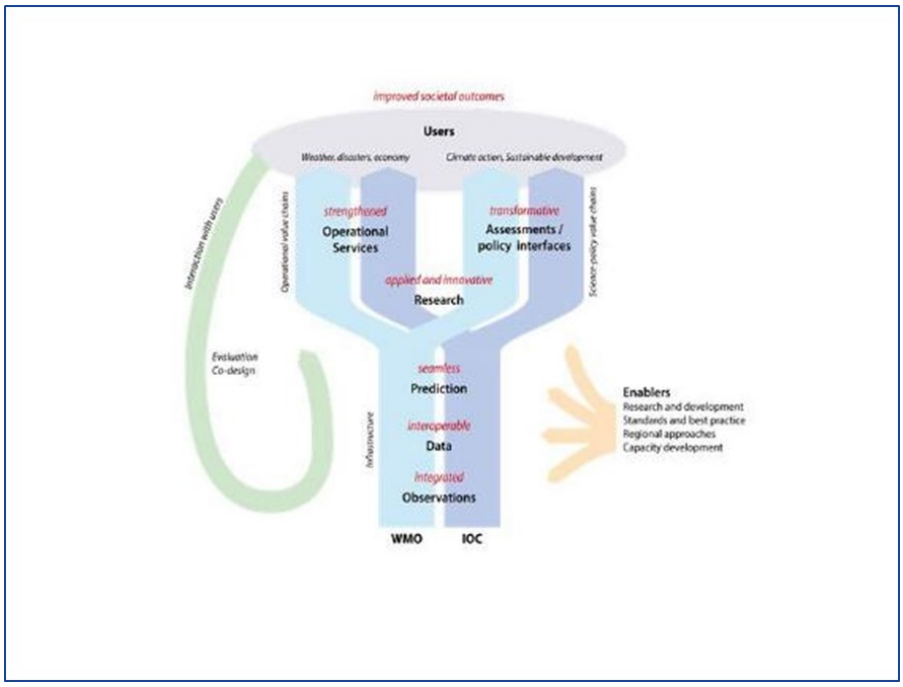
The theme of this year's S&T Workshop is ***Delivering Global Ocean Surface Data for Research, Operations and User Impact***.

The impact of the DBCP relies on its effectiveness to coordinate the delivery of fit for purpose data to its users. This year's workshop theme focuses on our ability to deliver critical data to help tackle some of our planet's grandest challenges[1].

[1]Including food and energy security for a growing population, climate variability/change, pollution, health risks, biodiversity conservation, access to resources, disaster risk reduction, safety of life at sea and in coastal regions.

For the purposes of this workshop, delivery encompasses all aspects of the *value-chain* of data from collection, ingestion and communication through to processing, analysis, storage and use. Delivery also includes technology development be it in equipment such as sensors and buoy designs as well as in the scientific analysis of data and phenomena. Researchers, operators of DBCP networks and end users rely on these practices to give them confidence to deliver a range of societal benefits including better understanding of the ocean environment and critical services such as forecasts and warnings across numerous time and spatial scales.

We are also living at a time of increasing demand for ocean observations, which is noticeably reflected in the growth of the commercial sector, not only in manufacturing (of sensors and equipment et cetera) but also in data-as-a-service (DAAS), for both observational and modelling domains. In response to this, both the WMO and the IOC (through GOOS) have been developing new approaches for greater engagement between the public, private and academic sectors in the global weather and ocean enterprise. By encouraging greater public-private partnerships, there is much excitement in the prospect of evolving observing systems for enhanced societal benefit through leveraging activities such as network co-design[2] which also bring the observing and modelling communities more closely together.



Intergovernmental Oceanographic Commission (IOC)
Global Ocean Observing System (GOOS) Co-Design Concept

[2] e.g. the GOOS Ocean Observing Co-Design Programme, endorsed by the UN Ocean Decade of Ocean Science for Sustainable Development.

With all of this in mind, and to be responsive to both the IOC and WMO recent developments, the DBCP seeks to showcase scientific and technical contributions that directly address the delivery of data in the following areas:

- Ocean Observing Networks involving Public-Private Partnerships,
- Observing network Co-Design considerations across the data value chain for specific exemplars such as ocean heat waves, tropical cyclones, coastal inundation, tsunamis and storm surge,
- Return-on-Investment of Ocean Observations based on economic benefits for specific sectors such as agriculture, health, emergency services, transportation,
- Impact of ocean observing network based on metrics such as improved NWP skill scores, increased lead-time and accuracy of forecasts and warnings, number of research papers cited, etc.,
- Technological Advances - buoy hulls, instrumentation, moorings, new ocean surface parameters, innovative deployment techniques, sensors, etc.,
- Research applications of data from DBCP platforms,
- Capacity building efforts especially for Small Island Developing States (SIDS) and Least Developed Countries (LDCs).

Material presented at the Workshop may be sourced from any part of the globe, but should reflect DBCP programmes and priorities. Preference will be given to presentations which provide examples of the impact and value to the user community (research, operations, and end users).

3. WORKSHOP FORMAT

The timing of the S&T workshop is yet to be finalized however will begin in the morning (local time) and continue for most of the rest of the day. We will notify you of the actual start and end times for the workshop at the time of finalizing the presentation schedule.

The Workshop will host both oral presentations and posters.

Oral presentations

Each presentation will be allocated fifteen minutes, which **includes** five minutes for questions and discussions. Any presenter requesting any change to this format should do so at the time of submitting the abstract. Presentations can be given virtually as well as in person. DBCP staff will advance slides to save time.

A laptop PC with internet connection and a projector will be provided. Special audio-visual requirements will need to be communicated to the Workshop Coordinators when the abstract is submitted.

For those people presenting virtually, we will be using Microsoft Teams.

Poster presentations

Poster size of A0 is preferred and that is the maximum size. The following are important pieces of information, which should be included on your poster:

- Your Name
- Title of Submission
- Objectives (list no more than three)
- Methods (How did you achieve your objectives)
- Results (list them or use visuals -- graphs, pictures)
- Conclusions/Recommendations

You are invited to include in your poster the DBCP logo, which you will find here: https://www.ocean-ops.org/share/OceanOPS/ReportCard/dbcp/

4. SUBMISSION OF ABSTRACTS

Abstract submission deadline is **31 August 2022**. Thereafter, the Workshop Coordinators will notify presenters of their acceptance. Please note that all presenters will be required to submit their final presentations (e.g. PowerPoint presentations or posters) by **14 October 2022**, to assist with the efficient delivery of the science and technology workshop. The presentations will be made available on the DBCP website, unless authors state otherwise at the time of final submission.

As a guide, abstracts should be no more than 200 words in length, indicating the nature of the presentation or poster, and its key findings or significance. An abstract of all presentations is required for inclusion in the programme.

These are the contact details of the Workshop Coordinators for directly submitting your abstracts:

Dr. Sidney Thurston Global Ocean Monitoring and Observing Program Manager National Oceanic & Atmospheric Administration (NOAA), USA Email: sidney.thurston@noaa.gov	Dr. Nelly Florida Riama Director of Education and Training Center Agency for Meteorology, Climatology, and Geophysics of Republic of Indonesia (BMKG) Email : nelly.florida@bmkg.go.id

The Workshop Coordinators will notify presenters well in advance of the meeting of any variations to the presenter schedule or time allocation.

5. DETAILS OF VENUE HOTELS AND TRANSPORTATION

Details regarding the venue, hotels, transportation, etc., are available on the Local Information document posted at the GOOS web site at:

www.goosocean.org/DBCP-38

All S&T Workshop participants are warmly welcomed to participate in the subsequent session of DBCP-38.