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| WEATHER CLIMATE WATER | **World Meteorological Organization****COMMISSION FOR OBSERVATION, INFRASTRUCTURE AND INFORMATION SYSTEMS****Second Session**24 to 28 October 2022, Geneva | **INFCOM-2/INF. 6.2** |
| Submitted by:Chair of SC-MINT25.X.2022 |

## The 2022 WMO Technical Conference on Meteorological and Environmental Instruments and Methods of Observation (TECO-2022)

## *“Sustainable fit-for-purpose measurements – a foundation of theWMO Earth System approach”*

### Introduction

TECO-2022 was held in Paris, France, from 10 to 13 October 2022, in conjunction with the Meteorological Technology World Expo (MTWE) at [Paris Expo Porte de Versailles](https://www.viparis.com/en/site/paris-expo-porte-de-versailles). The conference had originally been planned for 2020 but had to be postponed twice because of COVID-19 restrictions. Other events were also held in parallel, such as the International Forum of Users of Satellite Data Telecommunications (Satcom Forum 2022) and the meeting of the Global Atmospheric Watch Expert Team on Atmospheric Composition Measurement Quality.

### Goal of TECO-2022

The overall goal of TECO-2022 was to strengthen the WIGOS measurement community by enhancing knowledge of environmental measurement techniques, methodologies and related quality procedures, and to foster collaboration among WIGOS stakeholders, including manufacturers, research institutions and academia.

In particular, the conference also:

* Enabled exchange of experiences and achievements in operational measurement practices, and the sharing of the latest developments in instrumentation, observing systems and methods, and related services;
* Provided opportunities for direct interaction between the WIGOS community, manufacturers of meteorological and other environmental instruments and systems, and related industries and organizations;
* Supported the transition of the latest technologies and techniques from research projects to operational practices thereby enhancing the information value chain;
* Contributed to and foster knowledge transfer, training and capacity development, particularly for participants from less-favoured countries, including in the implementation of GBON;
* Developed proposals for future activities to be undertaken by the WIGOS measurement community in relation to environmental measurement.

### Format of TECO-2022

The conference was held in a hybrid format. More than 400 participants had registered to the conference. The conference was well attended. Around 130 participants were present in person in the conference room on the first day of the conference, while the attendance on the following days went above 200 participants. The conference was not only web-streamed, but also enabled remote presentations, questions, and interactions. Remote attendance varied depending on the topics of the sessions and ranged from 60 to 180 remote participants with an average of 95 participants.

Overall, the conference included 60 oral presentations and 89 posters. Each poster author was also given the opportunity to make a brief two minute oral presentation of his/her poster during the relevant session.

Three discussion sessions were held on the topics of:

* Optimizing costs of stations and accessing more measurements for GBON;
* OSCAR Future plan – How could OSCAR better support your needs?
* Environmental Sustainability of observing systems.

INFCOM/SC-MINT will use the outcome of these discussion sessions to identify needed support activities, and in reviewing and prioritizing activities of the SC-MINT expert teams.

Finally, the award ceremonies for the 2020 and 2022 grantings of the Professor Dr Vilho Väisälä Award for an Outstanding Research Paper on Instruments and Methods of Observation and the Professor Dr Vilho Väisälä Award for the Development and Implementation of Instruments and Methods of Observation were also held during the conference.

### A successful on-going partnership

TECO-2022 was successfully organized in partnership with UKi Media and Events Ltd, the company organizing MTWE, as had been done for previous editions of this conference. Both parties strongly welcome this partnership that is beneficial both to TECO, as well as to MTWE. Furthermore, experts attending the conference also welcome these arrangements that enable them to attend the conference and meet with key manufacturers during the same mission.

At the opening of TECO, the CEO of UKi Media and Events Ltd, clearly indicated the wish to continue this partnership for the years to come.

It is expected that the next joint event will take place in 2024.

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