



Our ref.: 15097/2023/I/ONM

20 July 2023

Subject: Implementation of GBON following adoption by the Nineteenth World Meteorological Congress of [Resolution 21 \(4.2\(2\)/1\) \(Cg-19\)](#)

Action required:

- (1) Monitor compliance at Member level and continue to designate GBON stations in OSCAR/Surface to fulfil GBON requirements (see the required targets by Members in our previous correspondence 18876/2022/I/WIGOS/ONM/GBON dated 15 August 2022)
- (2) Monitor compliance of individual GBON stations and take action to address non-compliance issues
- (3) Consider the GBON high density requirements for horizontal resolution and designate additional GBON stations where capability exists, if not already done.

Dear Sir/Madam,

I wish to refer to the implementation of the Global Basic Observing Network (GBON) according to the Manual on the WMO Integrated Global Observing System (WMO-No. 1160), [section 3.2.2 Global Basic Observing Network](#), that came into force on 1 January 2023 per [Resolution 2 \(Cg-Ext\(2021\)\)](#) - Amendments to the Technical Regulations related to the establishment of the Global Basic Observing Network, as well as to provide clarification on the required actions for Members, following adoption by the nineteenth World Meteorological Congress of [Resolution 21 \(4.2\(2\)/1\) \(Cg-19\)](#) on GBON Implementation.

While it was originally recommended that the Congress would approve the list of GBON stations for the initial GBON composition (please refer to [Recommendation 7 \(INFCOM-2\)\)](#) - Initial Global Basic Observing Network composition, it was eventually agreed that such approval was not necessary and Congress recalled that GBON consists of stations designated and operated by Members which share the data as defined in WMO-No.1160, paragraph 3.2.2 on GBON.

While Congress commended Members for their efforts in implementing GBON and ensuring wider availability of the data, the monitoring of GBON compliance at both station and Member level will be done according to the updated version of the Guide to GBON per [Resolution 20 \(EC-76\)](#) – *Guide to the Global Basic Observing Network*, and its [annex](#). In particular, compliance monitoring at station level is done through the WMO Integrated Global Observing System (WIGOS) Data Quality Monitoring System (WDQMS, <https://wdqms.wmo.int/>) web tool according to the agreed criteria, assisted by the Regional WIGOS Centres (RWCs) for incident management. Compliance monitoring and assessment at Member level will be done on a quarterly and yearly basis using data provided by the WDQMS web tool (the first quarterly report is currently planned for the third quarter of 2023, to be available in October 2023). It is recommended that Members will review these quarterly and yearly assessment reports and act if needed to further evolve their GBON network for improved compliance to the GBON Technical Regulations.

To: Permanent Representatives of Members with WMO

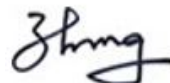
cc: Hydrological Advisers

Furthermore, Congress urged Members to pay particular attention to compliance with the GBON high density recommendations as per provisions [3.2.2.8](#) (for surface land observing networks platform a horizontal resolution of 100 km or higher) and [3.2.2.13](#) (for upper-air stations/platforms horizontal resolutions of 200 km or higher) of the Manual on the WMO Integrated Global Observing System (WMO-No. 1160), where capability exists. Members were urged to ensure that there will be no degradation of the existing international reporting and exchange of such station data with respect to their GBON January 2022 baseline.

Finally, please note that relevant WIGOS regulatory and guidance material, in particular, the [Manual on the WMO Integrated Global Observing System](#) (WMO-No. 1160) and the [Guide to the WMO Integrated Global Observing System](#) (WMO-No. 1165) are being updated to reflect the Congress resolution on GBON and will be submitted to the third session of the Infrastructure Commission (INFCOM-3, April 2024) for endorsement.

While inviting you to take the actions listed above, I would like to thank you for your commitment to WMO activities and for your contribution to the GBON implementation. Should you or your experts require additional information or clarification about this process, please do not hesitate to contact the WMO Secretariat through gbon@wmo.int or check relevant material available on the [WMO website](#).

Yours faithfully,



Dr Wenjian Zhang
for the Secretary-General