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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/Doc. 6.1(9)** |
| Submitted by: Chair  28.X.2022  **APPROVED** |

**AGENDA ITEM 6: TECHNICAL REGULATIONS AND OTHER TECHNICAL DECISIONS**

**AGENDA ITEM 6.1: Standing Committee on Earth Observing Systems and Monitoring Networks (SC ON)**

# Initial Composition of the Global Basic Observing Network (GBON)



# GENERAL CONSIDERATIONS

1. Through [Resolution 2 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113/#page=29) – Amendments to the Technical Regulations related to the establishment of the Global Basic Observing Network, Congress decided on Technical Regulations for the Global Basic Observing Network (GBON) to come into force on 1 January 2023, and requested the Infrastructure Commission, *inter alia,* to develop the technical guidelines, processes and procedures needed to ensure the expedient and efficient implementation of GBON, and to prepare for the effective performance and compliance monitoring of GBON.

2. Shortly after Congress, the INFCOM president therefore decided to establish a Task Team on GBON implementation (TT-GBON) to coordinate and oversee the work needed to meet Congress request. The role of TT-GBON is essentially to oversee and coordinate a number of tasks grouped under the broad headlines listed below:

(a) Initial composition of GBON & GBON gap analysis;

(b) Members GBON compliance;

(c) Updated global GBON gap analysis;

(d) OSCAR/Surface and management of WIGOS metadata for GBON;

(e) WIGOS Data Quality Monitoring System (WDQMS);

(f) Tender specifications in support of the Systematic Observations Financing Facility (SOFF);

(g) Update to WIGOS Guide;

(h) Reporting practices for GBON hourly observations;

(i) Guidance for the SOFF peer advisors;

(j) GBON/SOFF prioritization (this is effectively outside the scope of TT-GBON and managed by the SOFF Secretariat);

(k) WIS 2.0 Technical Regulations.

3. Accordingly, an operating plan for TT-GBON was agreed upon and executed, resulting, *inter alia*, to this proposed draft Recommendation on the initial composition of GBON. This also followed the draft Circular letter to Members 18876/2022/I/WIGOS/ONM/GBON dated 15 August 2022 whereby Members were provided with guidance material prepared by TT-GBON and requested to undertake actions for their nomination of GBON stations no later than 15 November 2022.

4. According to the process proposed by TT-GBON, the draft initial GBON composition to be submitted to Cg-19 for its adoption will be published through the [dedicated webtool](https://community.wmo.int/global-basic-observing-network-gbon-station-designations-map) for its review by Members. In the draft Recommendation, it is proposed that INFCOM gives authority to its president to recommend the final list of GBON stations to Congress for its approval.

# DRAFT RECOMMENDATION

## Draft Recommendation 6.1(9)/1 (INFCOM-2)

### Initial GBON Composition

THE COMMISSION FOR OBSERVATION, INFRASTRUCTURE AND INFORMATION SYSTEMS,

**Recalling** [Resolution 9 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008/#page=35) – Plan for the WMO Integrated Global Observing System Initial Operational Phase (2020–2023); [Resolution 2 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113/#page=29) – Amendments to the Technical Regulations related to the establishment of the Global Basic Observing Network,

**Recalling further** the GBON requirements as listed in the *Manual on the WMO Integrated Global Observing System* (WMO-No. 1160), [section 3.2.2](https://library.wmo.int/doc_num.php?explnum_id=11157#page=77) Global Basic Observing Network,

**Recognizing** that the essential operational observing systems of a National Meteorological and Hydrological service can be adversely impacted during times of crisis, affecting their ability to meet GBON requirements, *[Ukraine]*

**Reaffirming** that Members can request emergency support from WMO to facilitate the return of observing networks to operation in a timely and effective manner for continuity of global observational data, *[Ukraine]*

**Noting** the recommendation by Chair of the Task Team on the Global Basic Observing Network (GBON) Implementation (TT-GBON),

**Having examined** the draft amendments to the [*Manual on the WMO Integrated Global Observing System*](https://library.wmo.int/index.php?lvl=notice_display&id=19223) (WMO-No. 1160), Appendix 3.1, provided in Annex to Draft Recommendation 6.1(3)/1 (INFCOM-2), and reproduced in [Annex](#AnnexToDraftResolution) to Draft Resolution ##/1 (Cg-19) for easy reference,

**Recommends** to the Congress the consideration of the Initial GBON composition,throughthe draft resolution provided in [Annex](#Annex_to_draft_Recommendation) to this Recommendation;

**Authorizes** its President to submit to Congress in 2023, on behalf of the Commission, the initial GBON composition.

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Annex: 1

## Annex to draft Recommendation 6.1(9)/1 (INFCOM-2)

**Draft Resolution ##/1 (Cg-19)**

**Initial GBON Composition**

THE WORLD METEOROLOGICAL CONGRESS,

**Recalling:**

(1) [Resolution 9 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008/#page=35) – Plan for the WMO Integrated Global Observing System Initial Operational Phase (2020–2023), and

(2) [Resolution 2 (Cg-Ext(2021)](https://library.wmo.int/doc_num.php?explnum_id=11113/#page=29)) – Amendments to the Technical Regulations related to the establishment of the Global Basic Observing Network,

**Noting** Resolution ##/1 (EC-76) – Amendments to the *Manual on the WMO Integrated Global Observing System* (WMO-No. 1160), namely Appendix 3.1,

**Having considered** the [*Manual on the WMO Integrated Global Observing System*](https://library.wmo.int/index.php?lvl=notice_display&id=19223)   
(WMO-No. 1160), Appendix 3.1, reproduced in [Annex](#AnnexToDraftResolution) to this Resolution for easy reference,

**Adopts** the initial GBON composition referred in the [WMO web tool](https://community.wmo.int/global-basic-observing-network-gbon-station-designations-map);

**Authorizes** the Commission for Observation, Infrastructure and Information Systems to make subsequent decisions on the maintenance of the GBON composition in accordance with the *Manual on the WMO Integrated Global Observing System* (WMO-No. 1160), [section 3.2.2](https://library.wmo.int/doc_num.php?explnum_id=11157#page=77) and Appendix 3.1;

**Authorizes** the Secretary-General to make any subsequent purely editorial amendments;

**Requests** the Secretary-General:

(1) To publish the initial GBON composition in OSCAR/Surface,

(2) To bring the present resolution to the attention of all concerned,

**Requests** the Commission for Observation, Infrastructure and Information Systems to identify gaps between the GBON requirements and its initial composition and closely monitor compliance of GBON to regularly report progress in the GBON implementation to seek guidance by the Executive Council as appropriate, to plan for its further evolution and maintenance; *[Japan]*

**Requests** the Executive Council to provide guidance to INFCOM on how to fill the identified gaps, in cooperation with relevant stakeholders inclusive of development partners; [Japan]

**Urges:**

(1) Members to collaborate with INFCOM and contribute to the GBON composition,

(2) Members to *[Chair RA-VI WG/I]* continue to keep GBON composition under review and update GBON composition as needed.

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Annex:1

**Annex to draft Resolution ##/1 (Cg-19)**

### Appendix 3.1 designation process of GBON stations

(Identical to Annex to draft Resolution ##/1 (EC-76) – AMENDMENTS TO THE *MANUAL ON THE WMO INTEGRATED GLOBAL OBSERVING SYSTEM* (WMO-No. 1160), Appendix 3.1)

**Designation process of GBON stations as specified in this Appendix shall be followed by all stakeholders.**

Note: In accordance with Resolution XX (Cg-19) - Initial composition of GBON, maintenance of the composition of GBON is delegated by Congress to INFCOM.

1. The list of GBON stations/platforms is drawn from the list of all available stations/platforms in WIGOS as registered in [OSCAR/Surface](https://oscar.wmo.int/surface/#/) by the Members, and monitored by the WDQMS for data quality.

2. The identification of the subset to be proposed by Members for GBON designation is based on the specification of GBON listed below.

3. The list of GBON stations/platforms is elaborated in collaboration between the Members and INFCOM.

4. INFCOM undertakes an initial GBON implementation analysis that provides, for each Member, the number of surface stations and the number of upper air stations that are required for the Member to meet their obligations under 3.2.2.7–3.2.2.10 and 3.2.2.12–3.2.2.15.

5. For each Member, INFCOM reviews their designated contribution as per 3.2.2.21 and assess whether it meets the requirements specified in 3.2.2.7–3.2.2.10 and 3.2.2.12–3.2.2.15, and informs the Member in writing of its findings.

6. For the maintenance of GBON, the designation or removal of GBON stations by Members is made and recorded in OSCAR/Surface by their National Focal Points for OSCAR/Surface.

7. INFCOM, assisted by the Secretariat, reviews the designations and prepares the draft Resolution to INFCOM on the updated GBON composition.

8. The updated GBON composition is made available through a [dedicated WMO website tool](https://community.wmo.int/global-basic-observing-network-gbon-station-designations-map) to all Members three months before INFCOM Session.

9. Based on the feedback provided by Members, a final version of the updated GBON composition is submitted to INFCOM on the basis of information in the [dedicated WMO website tool](https://community.wmo.int/global-basic-observing-network-gbon-station-designations-map).

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