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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(3)** |
| Submitted by:Chair, SC-ON11.X.2022**DRAFT 2** |

*[Amendments have only been made in the Annex to this document.
This Draft 2 version has been generated for consistency purposes]*

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

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

# AMENDMENTS TO THE MANUAL ON THE WMO INTEGRATED GLOBAL OBSERVING SYSTEM (WMO-No. 1160)

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| **Summary** |
| **Document presented by:** the Chair of SC-ON and the Chair of TT-GBON (for the GBON relevant parts), to address [Resolution 9 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=34) – Plan for the WIGOS Initial Operational Phase (2020–2023), [Resolution 1 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=9) - WMO Unified Policy for the International Exchange of Earth System Data, [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, updating the [*Manual on the WMO Integrated Global Observing System*](https://library.wmo.int/index.php?lvl=notice_display&id=19223#.YFxAmEBFyUl) (WMO-No. 1160) accordingly;**Strategic objective 2020–2023:** 2.1, and its strategic outputs 2.1.1 and 2.1.2**Financial and administrative implications:** within the parameters of the Strategic and Operational Plans 2020–2023, and will be reflected in the Strategic and Operational Plans 2024–2027.**Key implementers:** INFCOM and Members**Time frame:** 2023–2027**Action expected:** Review and adopt the proposed draft recommendation to the Executive Council. |

# GENERAL CONSIDERATIONS

**Introduction**

1. The [*WMO Strategic Plan 2020–2023*](https://library.wmo.int/index.php?lvl=notice_display&id=21525) (WMO-No. 1225) requests optimized acquisition of Earth system observation data through the WMO Integrated Global Observing System (WIGOS), and increased compliance with regulations and standards.
2. The draft amendments compiled is the result of work done by INFCOM/SC-ON in accordance with [Resolution 3 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=43) - Workplan of the standing committees and study groups of the Commission for Observation, Infrastructure and Information Systems (Infrastructure Commission), and by the Global Basic Observing Network (GBON) Implementation Task Team (TT-GBON) in accordance with [Resolution 2 (Cg-Ext(2021)](https://library.wmo.int/doc_num.php?explnum_id=11113#page=29)) on GBON, and the resolutions listed above.
3. All changes are listed in the draft amendments to the [*Manual on the WMO Integrated Global Observing System*](https://library.wmo.int/index.php?lvl=notice_display&id=19223#.YFxAmEBFyUl) (WMO-No. 1160), Publication Revision Track Record *[see:* [*INFCOM-2-d06.1(3)-WIGOS-MANUAL-1160-ANNEX-draft1\_en.docx*](https://meetings.wmo.int/INFCOM-2/_layouts/15/WopiFrame.aspx?sourcedoc=/INFCOM-2/English/1.%20DRAFTS%20FOR%20DISCUSSION/INFCOM-2-d06-1(3)-AMENDMENT-WIGOS-MANUAL-1160-ANNEX-draft1_en.docx&action=default)*]*, from which a new provisions in 1.3.1 on Regional WIGOS Centres, an updated Appendix 2.3 The WMO Rolling Review of Requirements, and a new Appendix 3.1 designation process of GBON stations are the most important.

**Expected action**

1. Based on the above, the Commission may wish to adopt the proposed draft Recommendation 6.1(3)/1.

# DRAFT RECOMMENDATION

## Draft Recommendation 6.1(3)/1 (INFCOM-2)

### Amendments to the [*Manual on the WMO Integrated Global Observing System*](https://library.wmo.int/index.php?lvl=notice_display&id=19223#.YFxAmEBFyUl) (WMO‑No. 1160)

THE COMMISSION FOR OBSERVATION, INFRASTRUCTURE AND INFORMATION SYSTEMS,

**Recalling:**

1. [Resolution 9 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=34) – Plan for the WMO Integrated Global Observing System Initial Operational Phase (2020–2023),
2. [Resolution 1 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=9) – WMO Unified Policy for the International Exchange of Earth System Data,
3. [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** that the updated Rolling Review of Requirements (RRR) for observationsprocess developed by the Standing Committee on Earth Observing Systems and Monitoring Networks (SC-ON), is an evolution of the current process meant to facilitate its conduct and production of its outputs with consideration of the WMO Earth System approach,

**Noting** also [Draft Recommendation 6.1(4)/1 (INFCOM-2)](https://meetings.wmo.int/INFCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FINFCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000DFD47F9206CDD640A4FDFBAA2EB0EF6E&View=%7BDBBC48FA%2DBEE2%2D4A94%2D8905%2DFBE98B87E342%7D&InitialTabId=Ribbon%2ERead&VisibilityContext=WSSTabPersistence) – [*Guide to the WMO Integrated Global Observing System*](https://library.wmo.int/index.php?lvl=notice_display&id=20026#.YymFiXZBw2w) (WMO-No. 1165), [Draft Recommendation 6.1(12)/1 (INFCOM-2)](https://meetings.wmo.int/INFCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FINFCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000DFD47F9206CDD640A4FDFBAA2EB0EF6E&View=%7BDBBC48FA%2DBEE2%2D4A94%2D8905%2DFBE98B87E342%7D&InitialTabId=Ribbon%2ERead&VisibilityContext=WSSTabPersistence) – Guide to the Global Basic Observing Network, and [Draft Recommendation 6.1(9)/1 (INFCOM‑2)](https://meetings.wmo.int/INFCOM-2/_layouts/15/WopiFrame.aspx?sourcedoc=/INFCOM-2/English/1.%20DRAFTS%20FOR%20DISCUSSION/INFCOM-2-d06-1(9)-GBON-INITIAL-COMPOSITION-draft1_en.docx&action=default) - Initial Composition of the Global Basic Observing Network (GBON),

**Noting** that the draft amendments have been reviewed by the Standing Committee on Earth Observing Systems and Monitoring Networks (SC-ON), and the GBON related parts by the Task Team on 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#.YFxAmEBFyUl) (WMO-No. 1160) in the [annex](#_Annex_to_draft_1) to the present Recommendation,

**Recommends** to the Executive Council the adoption of the amendments to the [*Manual on the WMO Integrated Global Observing System*](https://library.wmo.int/index.php?lvl=notice_display&id=19223#.YFxAmEBFyUl) (WMO-No. 1160)throughthe draft resolution provided in the [annex](#_Annex_to_draft_1) to the present Recommendation.

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[Annex: 1](#_Annex_to_draft_1)

## Annex to draft Recommendation 6.1(3)/1 (INFCOM-2)

**Draft Resolution ##/1 (EC-76)**

**Amendments to the Manual on the
WMO Integrated Global Observing System (WMO-No. 1160)**

THE EXECUTIVE COUNCIL,

**Recalling:**

(1) [Articles 2 (a), 2 (c)](https://library.wmo.int/doc_num.php?explnum_id=11187#page=12) and [8 (d)](https://library.wmo.int/doc_num.php?explnum_id=11187#page=16) of the Convention of the World Meteorological Organization (*Basic Documents, No. 1* (WMO-No. 15)),

(2) The long-term goals and strategic objectives of the Organization as laid out in the [*WMO Strategic Plan 2020–2023*](https://library.wmo.int/index.php?lvl=notice_display&id=21525#.YGMgqkBuKUl)(WMO-No. 1225), and its long-term goal 2, Enhance Earth system observations and predictions: Strengthening the technical foundation for the future,

(3) [Resolution 9 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=34) – Plan for the WIGOS Initial Operational Phase (2020–2023),

(4) [Resolution 1 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=9) - WMO Unified Policy for the International Exchange of Earth System Data,

(5) [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,

(6) [Resolution 3 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=43) - Workplan of the standing committees and study groups of the Commission for Observation, Infrastructure and Information Systems (Infrastructure Commission),

**Noting** Recommendation 6.1(3)/1 (INFCOM-2) - Amendments to the *Manual on the WMO Integrated Global Observing System* (WMO-No. 1160),

**Noting** **also** [Recommendation 6.1(4)/1 (INFCOM-2)](https://meetings.wmo.int/INFCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FINFCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000DFD47F9206CDD640A4FDFBAA2EB0EF6E&View=%7BDBBC48FA%2DBEE2%2D4A94%2D8905%2DFBE98B87E342%7D&InitialTabId=Ribbon%2ERead&VisibilityContext=WSSTabPersistence) - *Guide to the WMO Integrated Global Observing System* (WMO-No. 1165), [Recommendation 6.1(12)/1 (INFCOM-2)](https://meetings.wmo.int/INFCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FINFCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000DFD47F9206CDD640A4FDFBAA2EB0EF6E&View=%7BDBBC48FA%2DBEE2%2D4A94%2D8905%2DFBE98B87E342%7D&InitialTabId=Ribbon%2ERead&VisibilityContext=WSSTabPersistence) – Guide to the Global Basic Observing Network, and [Recommendation 6.1(9)/1 (INFCOM-2)](https://meetings.wmo.int/INFCOM-2/_layouts/15/WopiFrame.aspx?sourcedoc=/INFCOM-2/English/1.%20DRAFTS%20FOR%20DISCUSSION/INFCOM-2-d06-1(9)-GBON-INITIAL-COMPOSITION-draft1_en.docx&action=default) - -Initial Composition of the Global Basic Observing Network (GBON),

**Noting further** that the draft amendments to the *[Manual on the WMO Integrated Global Observing System](https://library.wmo.int/index.php?lvl=notice_display&id=19223" \l ".YFxAmEBFyUl)*(WMO‑No. 1160), were circulated to all Members and their comments were incorporated accordingly,

**Having considered** the amendments to the [*Manual on the WMO Integrated Global Observing System*](https://library.wmo.int/index.php?lvl=notice_display&id=19223#.YFxAmEBFyUl) (WMO-No. 1160) as provided in the [annex](#Annex_to_Resolution) to the present resolution,

**Adopts** the amendments to the [*Manual on the WMO Integrated Global Observing System*](https://library.wmo.int/index.php?lvl=notice_display&id=19223#.YFxAmEBFyUl) (WMO‑No. 1160), as provided in the [annex](#Annex_to_Resolution) to the present resolution, with effect from 1 February 2024;

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

**Requests** the Secretary-General:

(1) To publish the [*Manual on the WMO Integrated Global Observing System*](https://library.wmo.int/index.php?lvl=notice_display&id=19223#.YFxAmEBFyUl) (WMO-No. 1160), in all WMO official languages;

(2) To ensure the editorial consistency of the relevant documents;

(3) To bring the present resolution to the attention of all concerned;

**Requests** the Commission for Observation, Infrastructure and Information Systems:

(1) To further develop and enhance the [*Technical Regulations, Volume I - General Meteorological Standards and Recommended Practices,*](https://library.wmo.int/index.php?lvl=notice_display&id=14073#.YFxA70BFyUl) (WMO-No. 49) Part I –WMO Integrated Global Observing System, and the [*Manual on the WMO Integrated Global Observing System*](https://library.wmo.int/index.php?lvl=notice_display&id=19223#.YFxAmEBFyUl) (WMO-No. 1160) according to [Resolution 9 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=34) – Plan for the WIGOS Initial Operational Phase (2020–2023); and

(2) To develop, in collaboration and consultation with the Commission for Weather, Climate, Water and Related Environmental Services and Applications (SERCOM) and the Research Board as appropriate, a transition plan for the evolved RRR process, and to consider its further evolutions on the basis of lessons learned;

**Requests** also the president of SERCOM, the Chair of the Research Board, and the presidents of regional associations to facilitate the implementation of the evolved RRR process by respectively:

(1) Ensuring the passing of observational user requirements and information on the impact of observations on WMO Application Areas to INFCOM;

(2) Promoting studies on the impact of observations on WMO Application Areas, and providing the results from such studies to INFCOM together with information on relevant technological innovations;

(3) Ensuring the provision of regional observational requirements into the RRR process through the WMO Application Area Points of Contact;

**Urges** Members to collaborate with INFCOM and contribute to the evolved RRR process by providing expertise on observational user requirements, observing system capabilities and by conducting studies on the impact of observations on WMO Application Areas and providing the results from such studies to INFCOM.

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Note: This resolution replaces [Resolution 36 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=125) -Amendments to the Technical Regulations (WMO-No. 49), Volume I, Part I – WMO Integrated Global Observing System, to the Manual on the WMO Integrated Global Observing System (WMO-No. 1160), and to the WIGOS Metadata Standard (WMO-No. 1192), which is no longer in force.

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[Annex: 1](#Annex_to_Resolution)

**Annex to draft Resolution ##/1 (EC-76)**

**AMENDMENTS TO THE**[***MANUAL ON THE WMO INTEGRATED GLOBAL OBSERVING SYSTEM***](https://library.wmo.int/index.php?lvl=notice_display&id=19223#.YFxAmEBFyUl) **(WMO-No. 1160)**

(Document: [INFCOM-2/Doc. 6.1(3) WIGOS MANUAL 1160 ANNEX draft 2\_en](https://meetings.wmo.int/INFCOM-2/_layouts/15/WopiFrame.aspx?sourcedoc=/INFCOM-2/English/1.%20DRAFTS%20FOR%20DISCUSSION/INFCOM-2-d06-1(3)-AMENDMENT-WIGOS-MANUAL-1160-ANNEX-draft2_en.docx&action=default))

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