|  |  |  |
| --- | --- | --- |
| WEATHER CLIMATE WATER | **World Meteorological Organization**  **WORLD METEOROLOGICAL CONGRESS**  **Nineteenth Session** 22 May to 2 June 2023, Geneva | **Cg-19/Doc. 4.1(5)** |
| Submitted by:  President of SERCOM, through EC  31.III.2023  **DRAFT 1** |

**AGENDA ITEM 4: TECHNICAL STRATEGIES SUPPORTING LONG-TERM GOALS**

**AGENDA ITEM 4.1: Services for societal needs**

# Review of BIP-M and BIP-MT (PART VI and Appendix A of VOL. I) of the *Technical Regulations* (WMO-No. 49)

|  |
| --- |
| **Summary** |
| **Document presented by:** President of the Services Commission, based on [Recommendation 3.1(3)/1 (EC-76)](https://meetings.wmo.int/EC-76/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-76/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-76-d03-1(3)-REVIEW-BIP-M-BIP-MT-TECH-REGULATIONS-approved_en.docx&action=default) – Review of BIP-M and BIP-MT (Part VI and Appendix A of Vol. I) of the *Technical Regulations* (WMO-No. 49), in response to [Resolution 32 (Cg-XVI)](https://library.wmo.int/doc_num.php?explnum_id=3429#page=251) – Definition of a Meteorologist and Meteorological Technician, and [Resolution 32 (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=109) – Review plan for the Basic Instructional Package for Meteorologists and the Basic Instructional Package for Meteorological Technicians  **Strategic objective 2020–2023:** 4.2 Develop and sustain core competencies and expertise.  **Financial and administrative implications:** Will be reflected in the Strategic and Operational Plans 2023–2027  **Key implementers:** WMO Members  **Time frame:** 2023–2027  **Action expected:** Approve the draft Resolution 4.1(5)/1 (Cg-19) |

# GENERAL CONSIDERATIONS

## Review of BIP-M and BIP-MT (Part VI and Appendix A of Vol. I) of the *Technical Regulations* (WMO-No. 49)

1. As per [Recommendation 5 (SERCOM-2)](https://library.wmo.int/doc_num.php?explnum_id=11528#page=151) – Review of the Basic Instruction Package for Meteorologists and the Basic Instruction Package for Meteorological Technicians (Part VI and Appendix A of the *Technical Regulations* (WMO-No. 49), Volume I), this document presents an update of the [*Guide to the Implementation of Education and Training Standards in Meteorology and Hydrology, Volume I – Meteorology*](https://library.wmo.int/index.php?lvl=notice_display&id=10770#.Y6Fx73bMI2x) (WMO-No. 1083).
2. Following [Resolution 32 (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=109) – Review plan for the Basic Instructional Package for Meteorologists and the Basic Instructional Package for Meteorological Technicians, (BIP-M and BIP-MT), a Review Team was established in 2018 and worked in close collaboration with the WMO Education and Training Office to coordinate the review process. The process, which included extensive consultation with Members, carefully considered the flexibility of the packages to meet future needs in a rapidly evolving world.
3. A key focus of this edition has been to update the Basic Instruction Package for Meteorological Technicians (BIP-MT). In previous editions, the Basic Instruction Package for Meteorologists (BIP-M) has received greater attention, probably owing to its complexity and sensitivity to external drivers. This edition focuses at least as much on BIP-MT as on BIP-M, based on the above-mentioned consultation and the unprecedented amount of feedback from the stakeholder groups.
4. The updated Guide was revised and recommended by the EC Capacity Development Panel (EC-CDP) in 2022, subsequently being presented to the WMO Technical Commissions, receiving their recommendations ([Recommendation 5 (SERCOM-2)](https://library.wmo.int/doc_num.php?explnum_id=11528#page=151) and [Decision 13 (INFCOM‑2)](https://library.wmo.int/doc_num.php?explnum_id=11575#page=231) – Review of the Basic Instruction Package for Meteorologists and the Basic Instruction Package for Meteorological Technicians and proposed amendments to Part VI and Appendix A of the *Technical Regulations* (WMO-No. 49), Volume I. The adoption of the Guide is recommended by the Executive Council in [Recommendation 3.1(3)/1 (EC-76)](https://meetings.wmo.int/EC-76/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-76/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-76-d03-1(3)-REVIEW-BIP-M-BIP-MT-TECH-REGULATIONS-approved_en.docx&action=default) – Review of BIP‑M and BIP-MT (Part VI and Appendix A of Vol. I) of the *Technical Regulations* (WMO‑No. 49).
5. The Guide presents the BIP-M and BIP-MT, establishing a common understanding of the qualifications required for individuals to be recognized as meteorologists or as meteorological technicians, as defined in the [*Technical Regulations, Volume I: General Meteorological Standards and Recommended Practices*](https://library.wmo.int/index.php?lvl=notice_display&id=14073#.Y6FxbXbMI2w) (WMO-No. 49). It also provides guidance to the National Meteorological and Hydrological Services (NMHSs) in establishing their personnel classifications and educational programmes to bring them in line with international standards.

**Expected action**

1. Based on the above, Congress may wish to adopt draft Resolution 4.1(5)/1 (Cg‑19).

## DRAFT RESOLUTION

## Draft Resolution 4.1(5)/1 (Cg-19)

## Review of BIP-M and BIP-MT (Part VI and Appendix A of Vol. I) of the *Technical Regulations* (WMO-No. 49)

THE WORLD METEOROLOGICAL CONGRESS,

**Recalling:**

1. [Resolution 32 (Cg-XVI)](https://library.wmo.int/doc_num.php?explnum_id=3429#page=251) – Definition of a Meteorologist and Meteorological Technician,
2. [Resolution 32 (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=109) – Review plan for the Basic Instructional Package for Meteorologists and the Basic Instructional Package for Meteorological Technicians,

**Having considered** [Recommendation 5 (SERCOM-2)](https://library.wmo.int/doc_num.php?explnum_id=11528#page=151) – Review of the Basic Instruction Package for Meteorologists and the Basic Instruction Package for Meteorological Technicians (Part VI and Appendix A of the *Technical Regulations* (WMO-No. 49), Volume I), and [Decision 13 (INFCOM-2)](https://library.wmo.int/doc_num.php?explnum_id=11575#page=231) – Review of the Basic Instruction Package for Meteorologists and the Basic Instruction Package for Meteorological Technicians and proposed amendments to Part VI and Appendix A of the *Technical Regulations* (WMO-No. 49), Volume I,

**Having agreed** [Recommendation 3.1(3)/1 (EC-76)](https://meetings.wmo.int/EC-76/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-76/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-76-d03-1(3)-REVIEW-BIP-M-BIP-MT-TECH-REGULATIONS-approved_en.docx&action=default) – Review of BIP-M and BIP-MT (Part VI and Appendix A of Vol. I) of the *Technical Regulations* (WMO-No. 49),

**Approves** the amendments of the Basic Instruction Packages for Meteorologists and Meteorological Technicians (BIP-M and BIP-MT) [*Technical Regulations, Volume I: General Meteorological Standards and Recommended Practices*](https://library.wmo.int/index.php?lvl=notice_display&id=14073#.Y6FxbXbMI2w) (WMO-No. 49) (Part VI and Appendix A) as provided in the annex to the present draft resolution.

\_\_\_\_\_\_\_\_\_\_

[Annex: 1](#_Annex_to_draft)

## Annex to draft Resolution 4.1(5)/1 (Cg-19)

## Amendments to *Technical Regulations, Volume I: General Meteorological Standards and Recommended Practices* (WMO-No. 49) Part VI and Appendix A

(Document [Cg-19-d04-1(5)-REVIEW-OF-BIP-M-AND-BIP-MT-ANNEX-draft1\_en](https://meetings.wmo.int/Cg-19/_layouts/15/WopiFrame.aspx?sourcedoc=/Cg-19/English/1.%20DRAFTS%20FOR%20DISCUSSION/Cg-19-d04-1(5)-REVIEW-OF-BIP-M-AND-BIP-MT-ANNEX-draft1_en.docx&action=default))

\_\_\_\_\_\_\_\_\_\_