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| WEATHER CLIMATE WATER | **World Meteorological Organization**  **COMMISSION FOR WEATHER, CLIMATE, WATER AND RELATED ENVIRONMENTAL SERVICES AND APPLICATIONS**  **Second Session** Geneva, 17 to 21 October 2022 | **SERCOM-2/Doc. 5.1(6)** |
| Submitted by: Chair  18.X.2022  **APPROVED** |

**AGENDA ITEM 5: TECHNICAL REGULATIONS AND OTHER TECHNICAL MATTERS**

**AGENDA ITEM 5.1: Recommended amendments to Technical Regulations (WMO-No. 49), including Manuals and Guides**

# PLAN OF ACTION FOR THE DISCONTINUATION OF THE TECHNICAL REGULATIONS (wmo-nO. 49), VOLUME ii, METEOROLOGICAL SERVICE FOR INTERNATIONAL AIR NAVIGATION

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# GENERAL CONSIDERATIONS

### Plan of action for the discontinuation of the *Technical Regulations* (WMO-No. 49), Volume II, *Meteorological Service for International Air Navigation*

1. In April 2017, the Secretary-General of WMO and the Secretary-General of the International Civil Aviation Organization (ICAO) convened a bilateral meeting. One of the discussion points pertained to measures to increase efficiency and avoid duplication of efforts within and across the sister agencies of the United Nations. Recognizing that the [*Technical Regulations*](https://library.wmo.int/?lvl=notice_display&id=21806#.YuEs43ZBwuU) (WMO-No. 49), Volume II, *Meteorological Service for International Air Navigation* represents, to a great extent, a reproduction of ICAO Annex 3 to the Convention on International Civil Aviation, it was proposed to consider discontinuing WMO-No. 49, Volume II while maintaining ICAO Annex 3 as the main regulatory publication for all providers and users. The reproduction of regulatory material that is already produced by another agency of the United Nations was deemed to be incompatible with quality management system principles, since the parallel, asynchronous approval processes and publication pathways often result in divergent or out-of-sequence international standards and recommended practices, to the detriment of providers and users of aeronautical meteorological services. Furthermore, the regular reproduction (typically once every 2 or 3 years) of ICAO Annex 3 as WMO-No. 49, Volume II is editorially time-consuming and costly for WMO.

2. In January 2018, the Management Group of the Commission for Aeronautical Meteorology ([CAeM-MG-2018](https://wmoomm.sharepoint.com/:b:/s/wmocpdb/Eflp3EZOHzROuTMYkU_dqOUBiS0dacNyu3L2SdoTScw5lA)) supported the proposed discontinuation of WMO-No. 49, Volume II. And, in July 2018, the Sixteenth Session of the Commission for Aeronautical Meteorology (CAeM‑16), through [Recommendation 5 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=28), called for the discontinuation of WMO-No. 49, Volume II with several enabling clauses to be actioned by WMO in coordination with ICAO. In June 2019, Recommendation 5 (CAeM-16) was endorsed at the Eighteenth World Meteorological Congress (Cg-18) through [Resolution 27 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=107).

3. With the assistance of a WMO consultant and the WMO and ICAO Secretariats, the Standing Committee on Services for Aviation (SC-AVI) has considered a wide range of issues and arrangements associated with the discontinuation of WMO-No. 49, Volume II, taking into account, for example, that Parts I and II of WMO-No. 49, Volume II reproduce ICAO Annex 3 while Parts III and IV of WMO-No. 49, Volume II are unique to the WMO publication. SC-AVI has determined that WMO-No. 49, Volume II should be discontinued in two stages as follows:

(1) Discontinue Part I, *International Standards and Recommended Practices: Core Standards and Recommended Practices* and Part II, *International Standards and Recommended Practices: Appendices and Attachments* of WMO-No. 49, Volume II with effect 31 December 2023;

(2) Discontinue Part III, *Aeronautical Climatology* and Part IV, *Format and Preparation of Flight Documentation* of WMO-No. 49, Volume II upon the incorporation of material of continuing relevance into the ICAO *Procedures for Air Navigation Services — Meteorology* (PANS-MET) (Doc 10157), preferably as part of Amendment 1 to PANS-MET (provisionally 2026).

4. To assist WMO Members and others concerned in furthering their understanding of the discontinuation of WMO-No. 49, Volume II, SC-AVI has prepared a [communication package including ‘frequently asked questions’](https://community.wmo.int/activity-areas/aviation/resources/tech-regs-v2-discontinuation).

5. Through [Recommendation 5 (SC-AVI-2)](https://community.wmo.int/activity-areas/aviation/reports/final-reports#sc-avi), the Standing Committee provided its endorsement of the plan of action for the discontinuation of WMO-No. 49, Volume II and formulated a draft recommendation for the Services Commission (SERCOM) and a draft resolution for the World Meteorological Congress (Cg) in this regard. [The [Final Report of SC-AVI-2 and Addendum No. 1 to the Final Report of SC-AVI-2](https://community.wmo.int/activity-areas/aviation/reports/final-reports#sc-avi) refer.]

# DRAFT RECOMMENDATION

## Draft Recommendation 5.1(6)/1 (SERCOM-2)

### Plan of Action for the Discontinuation of the *Technical Regulations* (WMO-No. 49), Volume II, *Meteorological Service for International Air Navigation*

THE COMMISSION FOR WEATHER, CLIMATE, WATER AND RELATED ENVIRONMENTAL SERVICES AND APPLICATIONS,

**Takes note** that the Standing Committee on Services for Aviation (SC-AVI) is responsible for, inter alia, the development of new or updated WMO Technical Regulations and supporting guidance in aeronautical meteorology,

**Acknowledges** that the discontinuation of the [*Technical Regulations*](https://library.wmo.int/?lvl=notice_display&id=21806#.YuEs43ZBwuU) (WMO-No. 49), Volume II, *Meteorological Service for International Air Navigation* was requested through [Recommendation 5 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=28), *World Meteorological Organization regulatory and guidance material addressing the provision of meteorological service for international air navigation*, and [Resolution 27 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=107), *Report of the Sixteenth Session of the Commission for Aeronautical Meteorology*,

**Appreciates** the development by SC-AVI, with the assistance of a consultant and in consultation with the International Civil Aviation Organization (ICAO), of a plan of action for the discontinuation of WMO-No. 49, Volume II,

**Having been informed** of Recommendation 5 (SC-AVI-2) as it pertains to the endorsement by SC-AVI of the plan of action for the discontinuation of WMO-No. 49, Volume II,

**Recommends** to the World Meteorological Congress Draft Resolution ##/# (Cg-19), Plan of Action for the Discontinuation of the *Technical Regulations* (WMO-No. 49), Volume II, *Meteorological Service for International Air Navigation*, as laid out in the [annex](#Annex_to_draft_Recommendation) to this present recommendation.

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**Annex to draft Recommendation 5.1(6)/1 (SERCOM-2)**

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

**Plan of Action for the Discontinuation of the *Technical Regulations* (WMO-No. 49),   
Volume II, *Meteorological Service for International Air Navigation***

THE WORLD METEOROLOGICAL CONGRESS,

**Recalling** [Resolution 27 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=107), *Report of the Sixteenth Session of the Commission for Aeronautical Meteorology* that approved [Recommendation 5 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=28) on the discontinuation of the [*Technical Regulations*](https://library.wmo.int/?lvl=notice_display&id=21806#.YuEs43ZBwuU) (WMO-No. 49), Volume II, *Meteorological Service for International Air Navigation,*

**Recognizing** the importance of the working arrangements between the World Meteorological Organization (WMO) and the International Civil Aviation Organization (ICAO), *[Secretariat]*

**Having examined** Recommendation 5.1(6)/1 (SERCOM-2), *Plan of Action for the Discontinuation of the Technical Regulations (WMO-No. 49), Volume II, Meteorological Service for International Air Navigation*,

**Takes note** of a plan of action for the discontinuation of the WMO-No. 49, Volume II as contained in the [annex](#Annex_to_draft_Resolution) to this present resolution;

**Approves** the discontinuation of [*Technical Regulations*](https://library.wmo.int/?lvl=notice_display&id=21806#.YuEs43ZBwuU) (WMO-No. 49), Volume II, *Meteorological Service for International Air Navigation* as follows:

(1) Part I, *International Standards and Recommended Practices: Core Standards and Recommended Practices* and Part II, *International Standards and Recommended Practices: Appendices and Attachment*s of WMO-No. 49, Volume II shall be discontinued with effect 31 December 2023;

(2) Part III, *Aeronautical Climatology* and Part IV, *Format and Preparation of Flight Documentation* of WMO-No. 49, Volume II shall be discontinued upon the incorporation of material of continuing relevance into the *Procedures for Air Navigation Services — Meteorology* (PANS-MET) (Doc 10157) of the International Civil Aviation Organization (ICAO), preferably as part of Amendment 1 to PANS-MET (provisionally 2026);

**Requests** the Secretary-General:

(1) To ensure the appropriate and necessary discontinuation of the publication of Parts I and II and thereafter Parts III and IV of the [*Technical Regulations*](https://library.wmo.int/?lvl=notice_display&id=21806#.YuEs43ZBwuU) (WMO-No. 49), Volume II, *Meteorological Service for International Air Navigation*, and

(2) To arrange for the consequential amendment to or update of any extant WMO publications that refer to the legacy *Technical Regulations* (WMO-No. 49), Volume II, *Meteorological Service for International Air Navigation*, Parts I and II and thereafter Parts III and IV upon their discontinuation;

**Requests** the president of SERCOM to ensure that Members, regional associations and ICAO are kept apprised of developments as needed in respect of the discontinuation of *Technical Regulations* (WMO-No. 49), Volume II, *Meteorological Service for International Air Navigation;*

**Urges** Members with responsibility to provide aeronautical meteorological services to gain free, online access to Annex 3 to the Convention on International Civil Aviation, *Meteorological Service for International Air Navigation* and, when available, the *Procedures for Air Navigation Services — Meteorology* (PANS-MET) via the electronic library (<https://elibrary.icao.int/>) kindly hosted by ICAO.

[Annex: 1](#Annex_to_draft_Resolution)

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

**Plan of Action for the Discontinuation of the *Technical Regulations* (WMO-No. 49), Volume II, *Meteorological Service for International Air Navigation***

List of acronyms and abbreviations used in the plan of action:

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| ANC | : | Air Navigation Commission [of ICAO] |
| Annex 3 | : | Annex 3 to the Convention on International ~~Air Navigation~~ Civil Aviation *[ICAO]*, *Meteorological Service for International Air Navigation* [of ICAO] |
| Cg | : | World Meteorological Congress |
| Cg-[n] | : | [n]th Session of the World Meteorological Congress |
| EC | : | Executive Council |
| EC-[nn] |  | [n]th Session of the Executive Council |
| ICAO | : | International Civil Aviation Organization |
| METP | : | Meteorology Panel [of ICAO] |
| METP/[n] | : | [n]th Meeting of the Meteorology Panel [of ICAO] |
| ~~METP MG~~ | ~~:~~ | ~~Meteorology Panel Management Group [of ICAO]~~ *[ICAO]* |
| ~~METP WG(s)~~ | ~~:~~ | ~~Meteorology Panel Working Group(s) [of ICAO]~~ *[ICAO]* |
| PANS-MET | : | *Procedures for Air Navigation Services — Meteorology* (Doc 10157) [of ICAO] |
| SC-AVI | : | Standing Committee on Services for Aviation |
| SC-AVI-[n] | : | [n]th Meeting of the Standing Committee on Services for Aviation |
| SERCOM | : | Commission for Weather, Climate, Water and Related Environmental Services and Applications |
| SERCOM-[n] | : | [n]th Session of the Commission for Weather, Climate, Water and Related Environmental Services and Applications |
| WMO-No. 49, Volume II | : | *Technical Regulations* (WMO-No. 49), Volume II, *Meteorological Service for International Air Navigation* |

Note: *Technical Regulations* (WMO-No. 49), Volume II, *Meteorological Service for International Air Navigation* comprises four parts as follows:

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| Part I | : | International Standards and Recommended Practices:  Core Standards and Recommended Practices |
| Part II | : | International Standards and Recommended Practices:  Appendices and Attachments |
| Part III | : | Aeronautical Climatology |
| Part IV | : | Format and Preparation of Flight Documentation |

On 1 January 2022, Parts I and II of WMO-No. 49, Volume II reproduce Parts I and II of ICAO Annex 3, *Meteorological Service for International Air Navigation*, while Parts III and IV of WMO-No. 49, Volume II are unique to the WMO publication.

**SUMMARY OF THE PLAN OF ACTION**

The two-stage discontinuation of WMO-No. 49, Volume II is as follows:

Stage 1: Discontinue Parts I and II on 31 December 2023.

Stage 2: Discontinue Parts III and IV upon the applicability of an amendment to ICAO *Procedures for Air Navigation Services — Meteorology* (PANS-MET) (ICAO Doc 10157) (provisionally November 2026).

**DETAILED PLAN OF ACTION**

**2022 and 2023**

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| **Activity (down) | Milestone (across)** | **2022** | | | | **2023** | | | | **Responsibility, Meeting or Session** |
| Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
| Development of plan of action for two-stage discontinuation of WMO-No. 49, Volume II | X | X |  |  |  |  |  |  | Secretariat [WMO] |
| Development of proposed transposition of WMO-No. 49, Volume II, Parts III and IV into ICAO PANS-MET, Chapters 7 and 8 |  | X |  |  |  |  |  |  | Secretariat assisted by SC-AVI [WMO] |
| Endorsement of plan of action for two-stage discontinuation of WMO-No. 49, Volume II |  | X |  |  |  |  |  |  | SC-AVI-2 [WMO] |
| Consultation on the proposed transposition of WMO-No. 49, Volume II, Parts III and IV into ICAO PANS-MET, Chapters 7 and 8 |  | X | X |  |  |  |  |  | Secretariat [WMO] with METP ~~MG~~ [ICAO]  *[ICAO]* |
| Development of communication material to support awareness campaign on the discontinuation of WMO-No. 49, Volume II |  | X | X |  |  |  |  |  | Secretariat [WMO] |
| Endorsement of plan of action for two-stage discontinuation of WMO-No. 49, Volume II |  |  |  | X |  |  |  |  | SERCOM-2 [WMO] |
| Availability of communication material to support awareness campaign on the discontinuation of WMO-No. 49, Volume II |  |  |  | X |  |  |  |  | Secretariat [WMO] |
| Awareness campaign associated with the discontinuation of WMO-No. 49, Volume II |  |  |  | X | X | X | X | X | Secretariat and SC-AVI with Members [WMO] |
| Finalization of proposed transposition of WMO-No. 49, Volume II, Parts III and IV into ICAO PANS-MET, Chapters 7 and 8 |  |  |  | X | X | X |  |  | Secretariat [WMO] with METP ~~WG(s)~~ [ICAO]  *[ICAO]* |
| Approval of the two-stage discontinuation of WMO-No. 49, Volume II |  |  |  |  |  | X |  |  | Cg-19 [WMO] |
| Development of amendments/updates to extant WMO publications that refer to legacy WMO-No. 49, Volume II, Parts I and II |  |  |  |  |  |  | X | X | Secretariat [WMO] |
| Progress report on the two-stage discontinuation of WMO-No. 49, Volume II |  |  |  |  |  |  | X |  | SC-AVI-3 [WMO] |
| Access to ICAO Annex 3 and revision, if required, of national regulations |  |  |  |  |  |  | X | X | Members [WMO] |
| ~~Endorsement of proposed transposition of WMO-No. 49, Volume II, Parts III and IV into ICAO PANS-MET, Chapters 7 and 8~~ |  |  |  |  |  |  |  | ~~X~~ | ~~METP/6 [ICAO]~~ *[ICAO and Italy]* |
| Discontinuation of WMO-No. 49, Volume II, Parts I and II only on 31 December 2023 |  |  |  |  |  |  |  | X | Secretariat [WMO] |

*Note — Reference in the foregoing table to the ‘*proposed transposition of WMO-No. 49, Volume II, Parts III and IV into ICAO PANS-MET*’ pertains only to material of continuing relevance.*

**2024 and 2025**

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| **Activity (down) | Milestone (across)** | **2024** | | | | **2025** | | | | **Responsibility, Meeting or Session** |
| Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
| Publication of amendments/updates to extant WMO publications that refer to legacy WMO-No. 49, Volume II, Parts I and II | X | X | X | X |  |  |  |  | Secretariat [WMO] |
| Progress report on the two-stage discontinuation of WMO-No. 49, Volume II | X |  |  |  |  |  |  |  | SERCOM-3 [WMO] |
| Endorsement of proposed transposition of WMO-No. 49, Volume II, Parts III and IV into ICAO PANS-MET, Chapters 7 and 8 |  | X |  |  |  |  |  |  | METP/6 [ICAO] *[ICAO and Italy]* |
| Progress report on the two-stage discontinuation of WMO-No. 49, Volume II |  | X |  |  |  |  |  |  | EC-nn [WMO] (‘nn’ is to be determined)  *[Secretariat]* |
| Preliminary review of proposed amendment to ICAO PANS-MET that incorporates WMO‑No. 49, Volume II, Parts III and IV |  | ~~X~~ | ~~X~~ | X |  |  |  |  | ANC [ICAO]  *[Secretariat]* |
| ~~Progress report on the two-stage discontinuation of WMO-No. 49, Volume II~~ |  | ~~X~~ |  |  |  |  |  |  | ~~EC-nn [WMO] (‘nn’ is to be determined)~~  *[Secretariat]* |
| Consultation on the proposed amendment to ICAO PANS-MET that incorporates WMO‑No. 49, Volume II, Parts III and IV |  |  |  | ~~X~~ | X | X |  |  | States and concerned international organizations [ICAO] *[ICAO]* |
| Progress report on the two-stage discontinuation of WMO-No. 49, Volume II |  |  |  |  |  |  | X |  | SC-AVI-4 [WMO] |
| Final review of proposed amendment to ICAO PANS-MET that incorporates WMO‑No. 49, Volume II, Parts III and IV |  |  |  |  |  |  | X | X | ANC [ICAO] |

**2026 and 2027**

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| **Activity (down) | Milestone (across)** | **2026** | | | | **2027** | | | | **Responsibility, Meeting or Session** |
| Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |
| Approval of proposed amendment to ICAO PANS-MET that incorporates WMO-No. 49, Volume II, Parts III and IV | X | X |  |  |  |  |  |  | ANC [ICAO] |
| Progress report on the two-stage discontinuation of WMO-No. 49, Volume II | X |  |  |  |  |  |  |  | SERCOM-4 [WMO] |
| Progress report on the two-stage discontinuation of WMO-No. 49, Volume II |  | X |  |  |  |  |  |  | EC-nn [WMO] (‘nn’ is to be determined) |
| Awareness campaign associated with the discontinuation of WMO-No. 49, Volume II | X | X | X | X |  |  |  |  | Secretariat and SC-AVI with Members [WMO] |
| Applicability and publication of amendment to ICAO PANS-MET that incorporates WMO-No. 49, Volume II, Parts III and IV |  |  | X | X |  |  |  |  | Secretariat [ICAO] |
| Development of amendments/updates to extant WMO publications that refer to legacy WMO-No. 49, Volume II, Parts III and IV |  |  | X | X |  |  |  |  | Secretariat [WMO] |
| Access to ICAO PANS-MET and revision, if required, of national regulations |  |  | X | X |  |  |  |  | Members [WMO] |
| Discontinuation of WMO-No. 49, Volume II, Parts III and IV upon the applicability of the amendment to ICAO PANS-MET (provisionally November 2026) |  |  |  | X |  |  |  |  | Secretariat [WMO] |
| Publication of amendments/updates to extant WMO publications that refer to legacy WMO-No. 49, Volume II, Parts III and IV |  |  |  |  | X | X | X | X | Secretariat [WMO] |

Last updated: ~~26 May 2022~~ 18 October 2022 *[Secretariat]*

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