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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. 5.4** |
| Submitted by:Chair 17.X.2022**APPROVED** |

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

**AGENDA ITEM 5.4:** **Services for Aviation – Update to Guides in Aeronautical Meteorology**

# SERVICES FOR AVIATION – UPDATE TO WMO guides in aeronautical meteorology

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# GENERAL CONSIDERATIONS

*[The General Considerations will be included in Part II of the Summary Report]*

### Update to WMO guides in aeronautical meteorology

WMO-No. 732 addressing service delivery

1. The [*Guide to Practices for Meteorological Offices Serving Aviation*](https://library.wmo.int/index.php?lvl=notice_display&id=7644#.Yt-31HZBwuV) (WMO-No. 732) was last updated in 2003 (second edition). The Standing Committee on Services for Aviation (SC-AVI) acknowledged that much of the technical content of WMO-No. 732 was outdated or duplicated other existing publications. With the tremendous assistance of a WMO consultant, SC-AVI has prepared a major update to WMO-No. 732 in terms of its structure and its content as well as in its name where it is to be retitled as the *Guide to Services for Aviation*.

2. The proposed 2023 update (third edition) of WMO-No. 732 provides guidance to WMO Members and their service providers in the provision of aeronautical meteorological services across a range of topics such as governance and the production and delivery of observations, forecasts and other information. WMO-No. 732 complements other WMO guidance in aeronautical meteorology such as the [*Guide to Meteorological Observing and Information Distribution Systems for Aviation Weather Services*](https://library.wmo.int/?lvl=notice_display&id=7724#.Yt-3vHZBwuV) (WMO-No. 731) as well as guidance maintained by the International Civil Aviation Organization (ICAO).

3. Through [Recommendation 1 (SC-AVI-2)](https://community.wmo.int/activity-areas/aviation/reports/final-reports#sc-avi), the Standing Committee provided its endorsement of the major update to and retitling of WMO-No. 732 and formulated a draft recommendation for the Services Commission (SERCOM) and a draft resolution for the Executive Council (EC) in this regard. [The [Final Report of SC-AVI-2](https://community.wmo.int/activity-areas/aviation/reports/final-reports#sc-avi) refers.]

***WMO-No. 904 addressing cost recovery***

4. The [*Guide to Aeronautical Meteorological Services Cost Recovery: Principles and guidance*](https://library.wmo.int/?lvl=notice_display&id=7796#.Yt-3qnZBwuV) (WMO-No. 904) was last updated in 2007 (second edition). SC-AVI acknowledged that the technical content of WMO-No. 904 needed a thorough review and, where necessary, update taking into account the fact that aeronautical meteorological services have evolved and the methods and practices of determining, allocating and recovering costs have in some instances advanced over the past 15 years. Consequently, with the tremendous assistance of a WMO consultant, SC-AVI has prepared a major update to (but not a wholesale replacement of) WMO-No. 904.

5. The proposed 2023 update (third edition) of WMO-No. 904 provides guidance to WMO Members and their service providers in the cost recovery of aeronautical meteorological services across a range of topics such as governance, general principles and procedures for appropriately allocating costs for various meteorological facilities and services, and examples of cost recovery arrangements (national case studies). WMO-No. 904 complements, in particular, guidance maintained by ICAO such as Doc 9082, [*ICAO’s Policies on Charges for Airport and Air Navigation Services*](https://www.icao.int/publications/Documents/9082_8ed_en.pdf) and Doc 9161, [*Manual on Air Navigation Services Economics*](https://www.icao.int/publications/documents/9161_en.pdf).

6. Through [Recommendation 2 (SC-AVI-2)](https://community.wmo.int/activity-areas/aviation/reports/final-reports#sc-avi) the Standing Committee provided its endorsement of the update to WMO-No. 904 and formulated a draft recommendation for the SERCOM and a draft resolution for the EC in this regard. [The [Final Report of SC-AVI-2](https://community.wmo.int/activity-areas/aviation/reports/final-reports#sc-avi) refers.]

7. During the next WMO financial period (2024–2027), SC-AVI intends to keep publications such as WMO-Nos. 732 and 904 under periodic review and, where necessary, update to ensure that they remain of utmost utility.

# DRAFT RECOMMENDATIONS

## Draft Recommendation 5.4/1 (SERCOM-2)

### Update the [*Guide to Practices for Meteorological Offices Serving Aviation*](https://library.wmo.int/index.php?lvl=notice_display&id=7644#.Yt-31HZBwuV) (WMO‑No. 732)

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

**Recalls** 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;

**Notes** the importance of reliable, up-to-date guidance in the interest of supporting WMO Members and their aeronautical meteorological service providers in their implementation of international standards, recommended practices, procedures and policies;

**Acknowledges** that the [*Guide to Practices for Meteorological Offices Serving Aviation*](https://library.wmo.int/index.php?lvl=notice_display&id=7644#.Yt-31HZBwuV) (WMO‑No. 732) was last updated in 2003 and is therefore deemed outdated;

**Having considered** [Recommendation 1 (SC-AVI-2)](https://community.wmo.int/activity-areas/aviation/reports/final-reports#sc-avi) recommending to the Commission, for submission to the Executive Council, a proposed major update (new edition) of WMO-No. 732, to be retitled as the *Guide to Services for Aviation* (WMO-No. 732), [available here](https://community.wmo.int/activity-areas/aviation/resources/wmo-732-update),

**Having agreed** to [Recommendation 1 (SC-AVI-2)](https://community.wmo.int/activity-areas/aviation/reports/final-reports#sc-avi),

**Recommends** to the Executive Council draft Resolution ##/1 (EC-76), *Guide to Services for Aviation* (WMO-No. 732), as laid out in the [annex](#Annex_to_draft_Recommendation) to this present Recommendation.

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[Annex: 1](#Annex_to_draft_Recommendation)

## Annex to draft Recommendation 5.4/1 (SERCOM-2)

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

[***Guide to Practices for Meteorological Offices Serving Aviation***](https://library.wmo.int/index.php?lvl=notice_display&id=7644#.Yt-31HZBwuV) **(WMO‑No. 732)**

THE EXECUTIVE COUNCIL,

**Having considered** Recommendation 5.4/1 (SERCOM-2), Update to the[*Guide to Practices for Meteorological Offices Serving Aviation*](https://library.wmo.int/index.php?lvl=notice_display&id=7644) (WMO-No. 732);

**Having examined** the proposed new edition of WMO-No. 732, to be retitled as the *Guide to Services for Aviation* (WMO-No. 732), [available here](https://community.wmo.int/activity-areas/aviation/resources/wmo-732-update);

**Having considered further** the recommendation of the Technical Coordination Committee in this connection, as contained in document EC-76/INF. XX

**Requests** the Secretary-General:

(1) To arrange for the expeditious publication of the *Guide to Services for Aviation* (WMO‑No. 732);

(2) To arrange for the updating of any current WMO publications that may refer to the legacy title of WMO-No. 732, necessarily replacing with the new title where applicable;

**Requests** the president of the Commission for Weather, Climate, Water and Related Environmental Services and Applications (SERCOM), with the assistance of the president of the Commission for Observation, Infrastructure and Information Systems (INFCOM) and Chair of the Research Board (RB) and in consultation with the ICAO as necessary, to continue to ensure that the *Guide to Services for Aviation* (WMO-No. 732) is periodically reviewed and updated as necessary in accordance with established procedures.

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**Draft Recommendation 5.4/2 (SERCOM-2)**

**Update the** [***Guide to Aeronautical Meteorological Services Cost Recovery:
Principles and guidance***](https://library.wmo.int/index.php?lvl=notice_display&id=7796) **(WMO-No. 904)**

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

**Recalls** that the Standing Committee on Services for Aviation (SC-AVI) is responsible for, inter alia, the development of new or updated models of good practice on the cost recovery of aeronautical meteorological service provision, including in respect of regional and global service;

**Notes** the importance of reliable, up-to-date guidance in the interest of supporting WMO Members and their aeronautical meteorological service providers in their implementation of international standards, recommended practices, procedures and policies;

**Acknowledges** that the [*Guide to Aeronautical Meteorological Services Cost Recovery: Principles and guidance*](https://library.wmo.int/?lvl=notice_display&id=7796#.Yt_mfHZBwuW)(WMO-No. 904)was last updated in 2007 and is therefore deemed outdated;

**Having considered** [Recommendation 2 (SC-AVI-2)](https://community.wmo.int/activity-areas/aviation/reports/final-reports#sc-avi) recommending to the Commission, for submission to the Executive Council, a proposed major update (new edition) of WMO-No. 904, [available here](https://community.wmo.int/activity-areas/aviation/resources/wmo-904-update),

**Having agreed** to [Recommendation 2 (SC-AVI-2)](https://community.wmo.int/activity-areas/aviation/reports/final-reports#sc-avi),

**Recommends** to the Executive Council draft Resolution ##/2 (EC-76), *Guide to Aeronautical Meteorological Services Cost Recovery: Principles and guidance* (WMO-No. 904), as laid out in the [annex](#Annex_to_draft_Recommendation542) to this present recommendation.

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[Annex: 1](#Annex_to_draft_Recommendation542)

**Annex to draft Recommendation 5.4/2 (SERCOM-2)**

**Draft Resolution ##/2 (EC-76)**

[***Guide to Aeronautical Meteorological Services Cost Recovery:
Principles and guidance***](https://library.wmo.int/?lvl=notice_display&id=7796#.Yt_mfHZBwuW) **(WMO-No. 904)**

THE EXECUTIVE COUNCIL,

**Having considered** Recommendation 5.4/2 (SERCOM-2), Update the[*Guide to Aeronautical Meteorological Services Cost Recovery: Principles and guidance*](https://library.wmo.int/?lvl=notice_display&id=7796#.Yt_mfHZBwuW)(WMO-No. 904);

**Having examined** the proposed new edition of WMO-No. 904, [available here](https://community.wmo.int/activity-areas/aviation/resources/wmo-904-update);

**Having considered further** the recommendation of the Technical Coordination Committee in this connection, as contained in document EC-76/INF. XX,

**Approves** the publication of the update to the[*Guide to Aeronautical Meteorological Services Cost Recovery: Principles and guidance*](https://library.wmo.int/?lvl=notice_display&id=7796#.Yt_mfHZBwuW)(WMO-No. 904);

**Requests** the Secretary-General to arrange for the expeditious publication of the *Guide to Aeronautical Meteorological Services Cost Recovery: Principles and guidance* (WMO-No. 904);

**Requests** the president of the Commission for Weather, Climate, Water and Related Environmental Services and Applications (SERCOM), in consultation with the ICAO as necessary, to continue to ensure that the *Guide to Aeronautical Meteorological Services Cost Recovery: Principles and guidance* (WMO-No. 904) is periodically reviewed and updated as necessary in accordance with established procedures.

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