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| WEATHER CLIMATE WATER | **World Meteorological Organization****COMMISSION FOR WEATHER, CLIMATE, WATER AND RELATED ENVIRONMENTAL SERVICES AND APPLICATIONS****Second Session**17 to 21 October 2022, Geneva | **SERCOM-2/Doc. 7.1** |
| Submitted by:Chair20.X.2022**APPROVED** |

**AGENDA ITEM 7: WORK PROGRAMME AND SUBSIDIARY BODIES OF THE COMMISSION**

**AGENDA ITEM 7.1: Review of the work programme of the Commission**

# Review of the work programme of the commission

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# GENERAL CONSIDERATIONS

### Introduction

1. The first session of the Commission adopted, through [Resolution 3 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=47), a work programme (titled “workplan”)[[1]](#footnote-2) for the intersessional period, covering a period with reporting deadlines at the seventy-second session of the Executive Council (EC-72 (2020)), the extraordinary session of the World Meteorological Congress (Cg-Ext(2021)) the seventy-third session of the Executive Council (EC-73 (2021)) and the nineteenth session of the World Meteorological Congress (Cg-19 (2023)). The work programme was reviewed and updated, as of February 2021, through [Resolution 4 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=64) - Review of the work programme and subsidiary bodies of the commission.[[2]](#footnote-3) The same resolution tasked the Management Group “to maintain up to date, and to regularly review and reprioritize, the list of deliverables and responsibilities with the support of the Secretariat and to report on the status of implementation at the next session”.

2. This document, prepared by the Management Group, presents an update to the work programme previously adopted and reviewed by the Commission based on the status of implementation, as of 31 August 2022, and the new directives received from Cg-Ext(2021), EC-73 and EC-75. In the interest of clarity on the approach, the characteristics of the work programme are recalled in the next session.

### Characteristics of the work programme of the technical commissions

3. The terms of reference ([Resolution 7 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=41) - Establishment of WMO Technical Commissions for the eighteenth financial period) and [*Rules of Procedure for Technical Commissions*](https://library.wmo.int/?lvl=notice_display&id=21534#.YvEqR3ZBx3g) (WMO-No. 1240) provide guidance on the characteristics of the work programme.

Scope: adherence to the terms of reference

(a) Rule 2.4: Each commission, in deciding on its work programmes and activities, shall adhere to the general terms of reference and to its prescribed specific terms of reference.

Relations with WMO planning instruments

(b) Terms of Reference, Working Procedures: (c) […] work programme […] aligned with the WMO-wide Strategic and Operating Plans;

(c) Rules of Procedure, Rule 6.9.5: Work programmes should be prepared in coordination with the WMO Strategic and Operating Plans.

Consideration in session

(d) Rules of Procedure, Rule 6.10.1: The provisional agenda for an ordinary session of a commission should […] normally include: […] (j) Work programme and subsidiary bodies for the following intersessional period; […].

Key elements

(e) Terms of Reference, Working Procedures: The Commission shall: […] (c) Establish a work programme with concrete deliverables and timelines;

(f) Rules of Procedure, Rule 2.4: […] work programmes and activities […].

Temporal coverage

(g) Rules of Procedure, Rule 6.9.5: Each ordinary session of a commission should adopt a work programme for the period until the next session.

Execution through subsidiary bodies

(h) Rules of Procedure, Rule 5.1: Each commission may establish subsidiary bodies to carry out certain tasks of its work programme;

(i) Rules of Procedure, Rule 5.4.3(a): Expert teams may be established by a standing committee to work on a specific task from the standing committee’s work programme. The expert teams should have clearly defined deliverable(s) and should be time bound;

(j) Rules of Procedure, Rule 5.5: The president of a commission may, between sessions, establish any subsidiary body of the commission that may be deemed necessary for the accomplishment of the tasks in the work programme.

Coordination

(k) Rules of Procedure, Rule 5.4.5(d): The Management Group should coordinate all activities of the respective commission through a work programme adopted at the session of the commission with updates, as necessary, approved by the president.

Monitoring and reporting

(l) Terms of Reference, Working Procedures: (c) […] monitor progress regularly using appropriate performance indicators and targets for reporting to the Executive Council and Congress.

### Structure and format of the work programme

4. Based on the above guidance, the structure and format of the updates to the work programme presented in this document is as in the example below.

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| *Terms of reference* | *Long-Term Goal* | *Strategic Objective* | *Operating Plan Output* | *Directive* | *Activity area* | *Deliverable* | *Executing subsidiary body* | *Progress* | *Reporting* |
| EC-76 | Cg-19 |
|  |  |  |  |  |  |  |  |  |  |  |

### Expected action

5. The Commission is invited to adopt Draft Resolution 7.1/1 (SERCOM-2).

# DRAFT RESOLUTION

## Draft Resolution 7.1/1 (SERCOM-2)

## Review of the work programme of the Commission

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

**Recalling** [Resolution 3 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=47) – Workplan of the Commission for Weather, Climate, Water and Related Environmental Services and Applications (Services Commission) for the first intersessional period and [Resolution 4 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=64) – Review of the work programme and subsidiary bodies of the Commission,

**Having examined** documents [SERCOM-2/Doc. 4](https://meetings.wmo.int/SERCOM-2/_layouts/15/WopiFrame.aspx?sourcedoc=/SERCOM-2/English/1.%20DRAFTS%20FOR%20DISCUSSION/SERCOM-2-d04-REVIEW-OF-CG-EC-RESOLUTIONS-AND-DECISIONS-draft1_en.docx&action=default), [SERCOM-2/Doc. 7.1](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D), [SERCOM-2/Doc. 7.2](https://meetings.wmo.int/SERCOM-2/_layouts/15/WopiFrame.aspx?sourcedoc=/SERCOM-2/English/1.%20DRAFTS%20FOR%20DISCUSSION/SERCOM-2-d07-2-REVIEW-OF-SUBSIDIARY-BODIES-draft1_en.docx&action=default), and [SERCOM-2/Doc. 11.1](https://meetings.wmo.int/SERCOM-2/_layouts/15/WopiFrame.aspx?sourcedoc=/SERCOM-2/English/1.%20DRAFTS%20FOR%20DISCUSSION/SERCOM-2-d11-1-REVIEW-OF-RES-AND-REC-OF-PAST-COMMISSIONS-draft1_en.docx&action=default),

**Having considered**:

(1) The status of implementation of the work programme,

(2) The directives addressed to the Commission by Congress and the Executive Council since the first session,

(3) The actions that need to be taken by the Commission on relevant resolutions and recommendations of previous technical commissions,

(4) The amendments to the terms of reference of standing committees and study groups proposed by the respective chairs,

**Adopts** the revised work programme provided in the [annex](#annex);

**Notes** that the activities of the Joint Infrastructure Commission (INFCOM) – Services Commission (SERCOM) – Research Board Study Group on the Development of a WMO-coordinated Global Greenhouse Gas Monitoring Infrastructure will be considered by INFCOM, as the lead body, at its second session;

*[P/SERCOM]***Decides** to consider the establishment of a study group on services for land transportation as part of the overarching review of all SERCOM subsidiary bodies that will take place at its third session in 2024;

**Convinced** that observation-related activities, such as those related to long-term observing stations, would best be addressed by INFCOM as per its terms of reference,

**Requests** the president, in collaboration with the president of INFCOM, to facilitate the transfer of the activities related to long-term observing stations to INFCOM with the authorization of the Executive Council;

**Further requests** the Management Group to oversee the implementation of the work programme and to regularly review it, including prioritizing activities and deliverables, in light of progress, new directives from Congress and the Executive Council, adherence to the terms of reference and other relevant factors affecting it, and keep Members informed of the status;

**Also requests** the president to report on progress at the next session.

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[Annex: 1](#_Annex_to_draft_3)

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Note: This resolution replaces [Resolution 3 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=47) – Workplan of the Commission for Weather, Climate, Water and Related Environmental Services and Applications (Services Commission) for the first intersessional period, and [Resolution 4 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=64) - Review of the Work Programme and subsidiary bodies of the Commission, which are no longer in force.

## Annex to draft Resolution 7.1/1 (SERCOM-2)

## Updates to the work programme of the Commission

### 1. Scope and structure of the updates to the work programme

1.1 The updates to the work programme of the Services Commission cover activities related to the implementation of its general and specific terms of reference, as guided by the WMO Strategic Plan 2020–2023 and further directed by Cg-Ext(2021), EC-73 and EC-75.

1.2 The work programme covers the period from the adoption of [Resolution 3 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=47) and [Resolution 4 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=64) until the end of the Financial Period 2020–2023 and is structured primarily around the four main lines of action defined by the specific terms of reference:

(a) Development and maintenance of WMO normative material related to service delivery, as specified in WMO Technical Regulations;

(b) Common service delivery attributes based on principles of globally consistent ‘good practices’;

(c) Assistance to Members to enhance service delivery capabilities and enable effective implementation and compliance;

(d) Establishment of improved cooperation mechanisms and partnerships.

1.3 For each main line of action, references are provided to the long-term goals and Strategic Objectives of the Strategic Plan 2020–2023, outputs of the Operating Plan 2020–2023, directives of Congress and the Executive Council, activity areas and deliverables, executing standing committee or study groups and related collaborations, and reporting requirements to sessions of Congress and the Executive Council. Key performance indicators and targets will be considered by the Management Group together with prioritization of activities and deliverables for the next review of the work programme.

### 2. Updates to the work programme according to the specific terms of reference of the Commission

**Note on the codes used in the tables.**

Specific terms of reference of the Services Commissions as per [Resolution 7 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=41): (a) Development and maintenance of WMO normative material related to service delivery, as specified in WMO Technical Regulations; (b) Common service delivery attributes; (c) Assistance to Members to enhance service delivery capabilities and enable effective implementation and compliance; (d) Cooperation and partnership, all with detailed specifications.

Long-Term Goals of the Strategic Plan 2020–2023 as per [Resolution 1 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=14): 1. Better serve societal needs: delivering authoritative, accessible, user-oriented and fit-for-purpose information and services.

Strategic Objectives of the Strategic Plan 2020–2023 as per [Resolution 1 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=14): 1.1 Strengthen national multi-hazard early warning/alert systems and extend reach to better enable effective response to the associated risks; 1.2 Broaden the provision of policy- and decision-supporting climate information and services; 1.3 Further develop services in support of sustainable water management; 1.4 Enhance the value and innovate the provision of decision-supporting weather information and services.

With regard to the reporting of deliverables: : to be reported (either to EC-76 or Cg-19 or both); n.d. (= no date): to be determined; no markings: will not be reported.

#### (a) Development and maintenance of WMO normative material related to service delivery, as specified in WMO Technical Regulations[[3]](#footnote-4)

| *No.* | *Specific Terms of Reference* | *Long-Term Goal* | *Strategic Objective* | *Operating Plan Output* | *Directive* | *Activity area* | *Deliverable* | *Executing subsidiary body* | *Progress as of 31 August 2022* | *Reporting* |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *EC-76* | *Cg-19* |
| 1.  | (a) (i) | 1 | 1.1 | *New* | [Decision 10 (EC-68)](https://library.wmo.int/doc_num.php?explnum_id=3166#page=81)[Resolution 16 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=84)  | Tropical cyclones | First guide on Tropical Cyclone forecasting and warnings | SC-DRR | Being presented as document [SERCOM-2/Doc. 5.6(7)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 2.  | (a) (ii) | 1 | 1.3 | 1.3.3 | [Resolution 18 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agricultural meteorology | [*Updated Guide on Agricultural Meteorological Practices*](https://library.wmo.int/index.php?lvl=notice_display&id=12113#.YwN0OnZBx3g) (WMO-No. 134) | SC-AGR | Being presented as document [SERCOM-2/Doc. 5.3(2)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 3.  | (a) (ii) | 1 | 1.4 | 1.4.5 | [Resolution 27 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=107) | Aviation services | Revision to WMO-No. 49, Volume II to align with Amendment 79 to ICAO Annex 3 | SC-AVI | A proposed amendment to [WMO-No. 49, Volume I](https://library.wmo.int/?lvl=notice_display&id=14073) addressing qualification and competency requirements is proposed through [SERCOM-2/Doc. 5.1(3)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D)A plan of action for the discontinuation of [WMO-No. 49, Volume II](https://library.wmo.int/?lvl=notice_display&id=21806) is proposed through [SERCOM-2/ Doc. 5.1(6)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 4.  | (a) (ii) | 1 | 1.4 | 1.4.5 | [Resolution 27 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=107) | Aviation services | Revision to WMO-Nos. 731, 732, 904, 930 and/or others concerned | SC-AVI | [WMO-No. 782](https://library.wmo.int/?lvl=notice_display&id=716) updates published in 2020 and 2022. Update to [WMO-No. 930](https://library.wmo.int/index.php?lvl=notice_display&id=7863) published in 2020.[WMO-No. 904](https://community.wmo.int/activity-areas/aviation/resources/wmo-904-update) and [WMO-No. 732](https://community.wmo.int/activity-areas/aviation/resources/wmo-732-update) updates proposed through [SERCOM-2/Doc. 5.4](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) for submission to EC-76.Preliminary review of [WMO-No. 731](https://library.wmo.int/?lvl=notice_display&id=7724) completed. No update required at present. Update deferred to 2024–2027 |  |  |
| 5.  | (a) (ii), (b) | 1 | 1.4 | 1.4.26 | [Resolution 81 (Cg-18),](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=259) [Resolution 4 (EC-72)](https://library.wmo.int/index.php?lvl=notice_display&id=21788#.YCFnouhKhPY) | Marine services | Manual on Marine Meteorological Services and complementary publications | SC-MMO | Amendments to [No. 558](https://library.wmo.int/index.php?lvl=notice_display&id=9784) presented as document as document [SERCOM-2/ Doc. 5.1(7)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| [*Sea-Ice Guide*](https://library.wmo.int/index.php?lvl=notice_display&id=7542#.YwOA-HZBx3g) (WMO-No. 574) published in 2021 and updates being presented, together with [471](https://library.wmo.int/?lvl=notice_display&id=7469), as document [SERCOM-2/ Doc. 5.1(7)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| Update of [*Guide to Storm Surge Forecasting*](https://library.wmo.int/index.php?lvl=notice_display&id=6648#.YwOB3HZBx3g)(WMO-No. 1076) in progressCIF EWS Guidelines approved at SERCOM MG (May 2022), to be launched at SERCOM-2, then published on WMO library |  |  |
| 6.  | (a) (ii) | 1 | 1.4 | 1.4.8 | [Resolution 29 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=110) | Marine services | Implementation and update of competency frameworks (Part V)  | SC-MMO | Being submitted as part of document [SERCOM-2/ Doc. 5.1(4)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D)See INF 5.1(4) for further information |  | n.d. |
| 7.  | (a) (ii) | 1 | 1.1 [Corr.: Secretariat] | *New* | Cg-16, summary report, [paragraph 4.3.3](https://library.wmo.int/doc_num.php?explnum_id=3429#page=92) | Tropical cyclones | Development and update of competency frameworks (Part V) | SC-DRR | Being submitted as part of document [SERCOM-2/ Doc. 5.1(4)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  | n.d. |
| 8.  | (a) (ii) | 2 | 2.3 | 2.3.3 | [Resolution 59 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=199) | Climate services | [*Contribution to updates to the Manual on GDPFS*](https://library.wmo.int/?lvl=notice_display&id=12793#.Ywc5iHZBw2w) (WMO-No. 485) | SC-CLI | Being presented as part of document [SERCOM-2/ Doc. 5.1(1)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 9.  | (a) (ii) | 2 | 2.3 | 2.3.3 | [Resolution 59 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=199) | Hydrological services | Contribution to updates to the [*Manual on GDPFS*](https://library.wmo.int/?lvl=notice_display&id=12793#.Ywc5iHZBw2w) (WMO-No. 485) | SC-HYD | Being presented as part of document [SERCOM-2/ Doc. 5.1(1)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 10.  | (a) (ii) | 1 | 1.3 | 1.3.10 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | [*New edition of the Guide to Hydrological Practices*](https://library.wmo.int/index.php?lvl=notice_display&id=21815) (Services part) (WMO-No. 168)  | SC-HYD | Preliminary discussions held with HCP and JET-HYDMON on the way forward for the review of WMO-No. 168 |  |  |
| 11.  | (a) (ii) | 2 | 2.3 | 2.3.3 | [Resolution 59 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=199) | Marine services | Contribution to updates to the [*Manual on GDPFS*](https://library.wmo.int/?lvl=notice_display&id=12793#.Ywc5iHZBw2w) (WMO-No. 485) | SC-MMO | Being presented as part of document [SERCOM-2/ Doc. 5.1(1)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 12.  | (a) (ii) | 2 | 2.3 | 2.3.3 | [Resolution 59 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=199) | Tropical cyclones | Contribution to updates to the [*Manual on GDPFS*](https://library.wmo.int/?lvl=notice_display&id=12793#.Ywc5iHZBw2w) (WMO-No. 485) | SC-DRR | Being presented as part of document [SERCOM-2/ Doc. 5.1(1)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 13.  | (a) (iv) | 1 | 1.3 | 1.3.1 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Concept note on the use of Satellite data for flood forecasting and product requirement | SC-HYD | First draft available, including contribution from INFCOM, to be presented at SERCOM-3 |  |  |
| 14.  | (a) (vi) | 3 | 3.3 | *New* | [Resolution 30 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=495) | Cryosphere-related services | Roadmap for science-to-services from the Polar Prediction Project of WWRP | EC-PHORS | See [INFCOM-2/ Doc. 6.6](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) |  |  |
| 15.  | (a) (vi) | 1 | *Proposed 1.5* | *New* | [Resolution 30 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=495) | Cryosphere-related services | Integrate in the work programme the relevant operational priorities and activities previously under the remit of EC-PHORS | EC-PHORS | See [SERCOM-2/INF. 4](https://meetings.wmo.int/SERCOM-2/InformationDocuments/Forms/AllItems.aspx) |  |  |
| 16.  | (a) (vi) | 1 | *New* | *New* | [Resolution 4 (EC-75)](https://meetings.wmo.int/EC-75/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-75/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-75-d04(3)-GLOBAL-GREENHOUSE-GAS-MONITORING-approved_en.docx&action=default) | Greenhouse gas monitoring related services | Concept for WMO-coordinated GHG-related activities | P/INFCOM with P/SERCOM and C/RB | See [SERCOM-2/INF. 4](https://meetings.wmo.int/SERCOM-2/InformationDocuments/Forms/AllItems.aspx) |  |  |
| 17.  | (a) (vi) | 1 | *New* | *New* | [Resolution 4 (EC-75)](https://meetings.wmo.int/EC-75/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-75/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-75-d04(3)-GLOBAL-GREENHOUSE-GAS-MONITORING-approved_en.docx&action=default) | Greenhouse gas monitoring related services | Final proposal for WMO-coordinated GHG-related activities | P/INFCOM with P/SERCOM and C/RB | See [SERCOM-2/INF. 4](https://meetings.wmo.int/SERCOM-2/InformationDocuments/Forms/AllItems.aspx) |  |  |
| 18.  | (a) (vi) | 1 | *New* | *New* | [Resolution 4 (EC-75)](https://meetings.wmo.int/EC-75/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-75/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-75-d04(3)-GLOBAL-GREENHOUSE-GAS-MONITORING-approved_en.docx&action=default) | Greenhouse gas monitoring related services | Terms of reference and establishment of a joint INFCOM-SERCOM-RB study group | P/INFCOM with P/SERCOM and C/RB | See [SERCOM-2/INF. 4](https://meetings.wmo.int/SERCOM-2/InformationDocuments/Forms/AllItems.aspx) |  |  |
| 19.  | (a) (vi) | 1 | 1.4 | 3.2.5 | [Resolution 32 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=114) | Integrated urban services | Summary and Recommendations of the workshop on integration of urban-related activities in WMO | P/INFCOM with P/SERCOM and C/RB | First draft available, to be presented at SERCOM-2 |  |  |

#### (b) Common service delivery attributes[[4]](#footnote-5)

| *No.* | *Specific Terms of Reference* | *Long-Term Goal* | *Strategic Objective* | *Operating Plan Output* | *Directive* | *Activity area* | *Deliverable* | *Executing subsidiary body* | *Progress as of 31 August 2022* | *Reporting* |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *EC-76* | *Cg-19* |
| 20.  | (b) (i) | 1 | 1.1 | *New* | — | Multi-hazard early warning systems | Assess and demonstrate the socio-economic benefits of fire weather services delivery | SC-DRR | Being submitted as document [SERCOM-2 /Doc. 5.6(2)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) | n.d. | n.d. |
| 21.  | (b) (i) | 1 | 1.3 | 1.3.1 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Guidelines on Socio-Economic Benefit Analysis of flood forecasting services | SC-HYD | Task introduced through document [SERCOM-2/ Doc. 7.2](https://meetings.wmo.int/SERCOM-2/_layouts/15/WopiFrame.aspx?sourcedoc=/SERCOM-2/English/1.%20DRAFTS%20FOR%20DISCUSSION/SERCOM-2-d07-2-REVIEW-OF-SUBSIDIARY-BODIES-draft1_en.docx&action=default) | n.d. | n.d. |
| 22.  | (b) (ii) | 1 | 1.3 | 1.3.5 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Database of research needs from NHSs as a project topics repository for scientists, and inventory of research outputs for operational hydrology | SC-HYD | Activity included in the SC-HYD workplan and lead by the Research Board, responsibilities assigned to SC-HYD members to identify the relevant experts to contribute ([Doc. 5 SC-HYD 10, activity 11](https://filecloud.wmo.int/share/s/Sd565rUeRuqmVf3STd8kxg)). First call for research proposal launched |  |  |
| 23.  | (b) (ii) | 4 | 4.2 | 4.2.26  | [Decision 4 (EC-75)](https://meetings.wmo.int/EC-75/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-75/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-75-d03-1(3)-APPROACHES-TO-BUSINESS-CONTINUITY-PLAN-approved_en.docx&action=default) | Business continuity and contingency planning | Collection of various cases from different levels of capacity of the Members to develop guidance for Members | SC-DRR | See [SERCOM-2/ INF. 4](https://meetings.wmo.int/SERCOM-2/InformationDocuments/Forms/AllItems.aspx) |  |  |
| 24.  | (b) (ii) | 1 | 1.1 | *New* | — | Multi-hazard early warning systems | Review and potentially complement the list of antecedent WMO initiatives, resolutions, publications on fire weather services and assess how they translated -or not – into operational practices so far | SC-DRR | Being submitted as document [SERCOM-2/ Doc. 5.6(2)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) | n.d. | n.d. |
| 25.  | (b) (ii) | 1 | 1.1 | *New* | — | Multi-hazard early warning systems | Review user needs and requirements by NMHSs for WMO support related to fire weather services | SC-DRR | Being submitted as document [SERCOM-2/ Doc. 5.6(2)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) | n.d. | n.d. |
| 26.  | (b) (ii) | 1 | 1.1 | *New* | — | Multi-hazard early warning systems | Consolidate the good practices for strengthening the value chain on all aspects of fire weather services | SC-DRR | Being submitted as document [SERCOM-2/ Doc. 5.6(2)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) | n.d. | n.d. |
| 27.  | (b) (ii) | 1 | 1.2 | — | Cf. [Resolution 63 (Cg-17)](https://library.wmo.int/doc_num.php?explnum_id=3138#page=565), [Resolution 7 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=41) | Climate / energy services | Good practices for integrated weather and climate services in support to net zero energy transition | SG-ENE | Being submitted as document [SERCOM-2/ Doc. 5.9](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 28.  | (b) (ii) | 1, 2, 3 | 1.4, 2.3, 3.2 | 3.2.5 | [Resolution 32 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=114) | Integrated Urban Services | Good practices on high-resolution modelling for integrated urban services | SG-URB | Being submitted as [SERCOM-2/ Doc. 5.11](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 29.  | (b) (iii) | 1 | 1.4 | — | Cf. [Resolution 32 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=114), [Resolution 7 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=41) | Urban services  | Good practices on high-resolution modelling for Integrated Urban Services | SG-URB | Being submitted as document [SERCOM-2/ Doc. 5.11](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 30.  | (b) (iii) | 1 | 1.1 | 1.1.2 | [Decision 10 (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=164) | Multi-hazard early warning systems | [*WMO Guide for Service Delivery 2023–2033*](https://library.wmo.int/index.php?lvl=notice_display&id=16002#.Ywc5cHZBw2w) (WMO-No. 1129) | SC-DRR | Being submitted as document [SERCOM-2/ Doc. 5.2](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 31.  | (b) (iii) | 1 | 1.1 | 1.1.4 | [Resolution 15 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=80) | Multi-hazard early warning systems | Concept note for an interoperable MHEWS environment, incorporating sectoral initiatives (Severe Weather Forecasting Programme, Coastal Inundation Forecasting Initiative, Flash Flood Guidance System)  | SC-DRR (lead), with SC-HYD, SC-MMO and SC-ESMP | Being presented as document [SERCOM-2/ Doc. 5.6(6)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 32.  | (b) (iii) | 1 | 1.1 | 1.1.15  | [Resolution 33 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=115)[Resolution 8 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=34) | Integrated health services | Appropriate mechanisms for the implementation of Integrated Health Services, *now renamed* Implementation Plan for Advancing Integrated Climate And Health Science And Services 2023–2033  | SG-HEA | Being presented as document [SERCOM-2/ Doc. 5.10(4)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 33.  | (b) (iii) | 1 | 1.2 | 1.2.15  | [Resolution 1 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=9) | Climate services | Review of the emerging data requirements for risk- and impact-based warning and decision support systems | P/SERCOM, in coordination with P/INFCOM  | A document will be prepared for and submitted to EC-76 following the review of the Policy Advisory Committee |  |  |
| 34.  | (b) (iii) | 1 | 1.2 | *New*  | [Resolution 1 (EC-75)](https://meetings.wmo.int/EC-75/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-75/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-75-d03-1(1)-GFCS-STRATEGY-ENHANCED-IMPLEMENTATION-approved_en.docx&action=default) | Climate services | Updated GFCS exemplars on agriculture and food security, water resources, health, energy and DRR | SC-CLI with SC-AGR, SC-HYD, SG-HEA, SG-ENE, SC-DRR | See [SERCOM-2/ INF. 4](https://meetings.wmo.int/SERCOM-2/InformationDocuments/Forms/AllItems.aspx) |  |  |
| 35.  | (b) (iii) | 1 | 1.2 | *New* | [Resolution 1 (EC-75)](https://meetings.wmo.int/EC-75/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-75/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-75-d03-1(1)-GFCS-STRATEGY-ENHANCED-IMPLEMENTATION-approved_en.docx&action=default) | Climate services | Strategic documents to guiding development of climate services for urban, marine, aviation and national infrastructure applications | SC-CLI with SG-URB, SC-MMO, SC-AVI | See [SERCOM-2/ INF. 4](https://meetings.wmo.int/SERCOM-2/InformationDocuments/Forms/AllItems.aspx) |  |  |
| 36.  | (b) (iii) | 1 | 1.2 | *New* | [Resolution 1 (EC-75)](https://meetings.wmo.int/EC-75/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-75/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-75-d03-1(1)-GFCS-STRATEGY-ENHANCED-IMPLEMENTATION-approved_en.docx&action=default) | Climate services | Complementary guidance developed in collaboration with regional associations, partners and the private sector | SC-CLI with other subsidiary bodies as needed | See [SERCOM-2/ INF. 4](https://meetings.wmo.int/SERCOM-2/InformationDocuments/Forms/AllItems.aspx) |  |  |
| 37.  | (b) (iii) | 1 | 1.2 | 1.2.3 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate services | Guidance on climate services requirements for objective regional seasonal climate forecasts and related standard procedures | SC-CLI | Region-specific guidance has been developed for the production of objective seasonal forecasts in 9 subregions: 7 in Africa, Caribbean and Pacific (ACP RCOF regions), 1 MedCOF and 1 CSIS-R CoreSee document [SERCOM-2/ Doc. 5.5(3)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 38.  | (b) (iii) | 1 | 1.2 | 1.2.6 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate services | Guidance for producing tailored climate information, including examples of success stories | SC-CLI | Writeshop is planned for early 2023. But with move of the ET-CID co-chair to WMO Secretariat, the writeshop planning needs adjustment |  |  |
| 39.  | (b) (iii) | 1 | 1.2 | 1.2.6 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate services  | Guidance for communication and delivery of tailored products and services across all timescales for policy and decision-making processes | SC-CLI | Joint activity between SC-CLI and SC-AGR. Work is continuing |  |  |
| 40.  | (b) (iii) | 1 | 1.2 | 1.2.6 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate services | Guidance on good practices for National Climate Forums | SC-CLI | The guidance document for National Outlook Forums and National Climate Forums is under finalization |  |  |
| 41.  | (b) (iii) | 1 | 1.2 | 1.2.8 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate services | Guidance on technical specifications of Climate Services Toolkit data and tools | SC-CLI | Draft guidelines on climate watches have been completedWorkshop on advancing the climate service toolkit to be held from 1–3 November 2022 in USACST was deployed and customized in Bhutan to generate tailored climate products and services for national and sectoral context |  |  |
| 42.  | (b) (iii) | 1 | 1.2 | 1.2.13 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate services | Guidelines on Regional Climate Forums Operational Practices including expansion of RCOF product portfolio | SC-CLI | Not developed yet. It will start in 2023 |  |  |
| 43.  | (b) (iii) | 1 | 1.2 | 1.2.13 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate services | Guidance on use and interpretation of climate change projections | SC-CLI | The consultant has started. The deliverable is due in Dec. 2022 |  |  |
| 44.  | (b) (iii) | 1 | 1.2 | 1.2.13 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate services | Guidance on objective regional sub-seasonal climate forecasts | SC-CLI | Region-specific guidance has been issued for the production of objective seasonal forecasts in 10 subregions (see [WMO-No. 1246](https://library.wmo.int/doc_num.php?explnum_id=11073)) |  |  |
| 45.  | (b) (iii) | 1 | 1.2 | 1.2.6 | [Resolution 17 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agrometeorological services | Guidance material on weather and climate economic assessments and weather index insurance products for agriculture | SC-AGR | Consultant completed the draft report, which is now under review by SC-AGR |  |  |
| 46.  | (b) (iii) | 1 | 1.3 | 1.3.1 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Guidelines for the assessment of national capabilities and needs in end-to-end early warning systems for flood forecasting | SC-HYD with SC-DRR | Guidelines on Assessment of National Capabilities and needs in E2E EWS for Flood Forecasting endorsed by P/SERCOM and currently under linguistic editing |  |  |
| 47.  | (b) (iii) | 1 | 1.3 | 1.3.2 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Hydrological contribution to IDMP | SC-HYD | Hydrological contribution to IDMP is ensured through regular attendance of IDMP meetings by the relevant SC-HYD Focal Point. A joint SC-HYD/SC-AGR Concept note is being developed on the expansion of the Integrated Flood and Drought Management Helpdesks to cover informed decision-making on Integrated Water Resources Management and Public-Private Engagement |   |  |
| 48.  | (b) (iii) | 1 | 1.3 | 1.3.1 | [Resolution 15 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=80) | Hydrological services | Hydrological contribution to the Concept Document on Strengthening multi-hazard early warning services in areas prone to all flooding types and severe weather | SC-HYD with SC-DRR and SC-MMO | Hydrological contribution to the concept note on integration into MHEWS of FFGS/CIFI/SWFP provided, concept note to be presented through [SERCOM-2/ Doc. 5.6(6)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D)  |  |  |
| 49.  | (b) (iii) | 1 | 1.3 | 1.3.1 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Inventory of operational platforms and models for flood forecasting – in consultation with SC Data Processing for Applied Earth System Modelling and Prediction | SC-HYD | Being submitted through document [SERCOM-2/ Doc. 5.7](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 50.  | (b) (iii) | 1 | 1.3 | 1.3.1 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Guide on Flood Risk Mapping | SC-HYD | Manual, re-labelled as Guide on Flood Risk Mapping, undergoing final technical editing to address comments from reviewers |  |  |
| 51.  | (b) (iii) | 1 | 1.3 | 1.3.2 | [Resolution 17 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87), [Resolution 3 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=19) | Agrometeorological services | Further developed Concept Note | SG-AGR with SC-HYD and SC-CLI | Draft implementation plan of the GDCS being presented as document [SERCOM-2/ Doc. 5.3(1)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 52.  | (b) (iii) | 1 | 1.3 | 1.3.2 | [Resolution 18 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agrometeorological services | Updated [*Handbook of Drought Indicators and Indices*](https://library.wmo.int/?lvl=notice_display&id=19498#.YwOIeXZBx3g) (WMO-No. 1173) | SC-AGR with SC-HYD | Will be addressed at coming ET-DRG face-to-face meeting, proposed for Nov 2022 |  |  |
| 53.  | (b) (iii) | 1 | 1.3 | 1.3.1 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Guidelines on "Impact-Based Forecasting" in Hydrology | SC-HYD | Activity included in the SC-HYD workplan, responsibilities assigned to SC-HYD members to identify the relevant experts to contribute ([Doc. 5 SC-HYD 10, activity 10](https://filecloud.wmo.int/share/s/Sd565rUeRuqmVf3STd8kxg))First draft to be presented to SERCOM-3 |  |  |
| 54.  | (b) (iii) | 1 | 1.3 | 1.3.1 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Hydrological contribution to ET-GMAS and to ET-WCM | SC-HYD | Activity included in the SC-HYD workplan, responsibilities assigned to SC-HYD members to identify the relevant experts to contribute ([Doc. 5 SC-HYD 10, activity 10](https://filecloud.wmo.int/share/s/Sd565rUeRuqmVf3STd8kxg)) | n.d. | n.d. |
| 55.  | (b) (v) | 1 | 1.2 | 1.2.11 | [Resolution 1 (EC-75)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate services | Roadmap on the Implementation of QMS in Climate Services | SC-CLI | Being submitted as document [SERCOM-2/ Doc. 5.5(1)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D)  |  |  |
| 56.  | (b) (v) | 1 | 1.3 | 1.3.1, 1.3.9 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services  | Guidelines for Verification of Hydrological Forecasts | SC-HYD | First draft completed, peer-review to be initiated |  |  |
| 57.  | (b) (v) | 1 | 1.3 | 1.3.2 | [Resolution 17 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agrometeorological services | Report on the status of drought-monitoring systems, outlooks, impacts, assessment of possible agricultural losses and preparedness in the WMO regions | SC-AGR | Report is still being drafted by a consultant in conjunction with ET-DRG |  |  |
| 58.  | (b) (vi) | 1 | 1.4 | 1.4.26 | [Resolution 30 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=112) | Marine services | Options for advice to Members on costing models for marine services | SC-MMO | Being presented as document [SERCOM-2/ Doc. 5.8(2)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) and INF 5.8(2) |  |  |
| 59.  | (b) (vii) | 1 | 1.3 | 1.3.10 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services  | Guiding principles for the engagement of the private sector to support flood-related EWS and Flood risk management | SC-HYD | Activity included in the SC-HYD workplan, responsibilities assigned to SC-HYD members to identify the relevant experts to contribute ([Doc. 5 SC-HYD 10, activity 3](https://filecloud.wmo.int/share/s/Sd565rUeRuqmVf3STd8kxg)) |  |  |
| 60.  | (b) (viii) | 1 | 1.1 | 1.1.5 | [Resolution 14 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=75) | Multi-hazard early warning systems | WMO Coordination Mechanism Implementation Plan | SC-DRR | Being submitted through document [SERCOM-2/ Doc. 5.6(5)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 61.  | (b) (viii) | 1 | 1.3 | 1.3.1 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Community of practice on flood forecasting established maintained and online repository of material accessible to NMHSs enriched with additional interoperable models and platforms for flood forecasting and a repository of capacity building materials | SC-HYD | Community of practice is set up and populated with 20 members, and 5 models and platforms presented in the online repository |  |  |
| 62.  | (b) (viii) | 1 | 1.3 | 1.3.6 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Water Resources Assessment (WRA) guidance materials and tools: WMO webpage on WRA maintained and enriched with additional material; Community of Practice on WRA launched | SC-HYD | WRA guidance materials and tools have been uploaded on the WRA webpage, and are to be presented for endorsement and enrichment to SERCOM-2 |  |  |
| 63.  | (b) (viii) | 1 | 1.3 | 1.3.6 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Outlook component of HydroSOS operational | SC-HYD | Task introduced through document [SERCOM-2/ Doc. 7.2](https://meetings.wmo.int/SERCOM-2/_layouts/15/WopiFrame.aspx?sourcedoc=/SERCOM-2/English/1.%20DRAFTS%20FOR%20DISCUSSION/SERCOM-2-d07-2-REVIEW-OF-SUBSIDIARY-BODIES-draft1_en.docx&action=default) |  |  |
| 64.  | (b) (viii) | 1 | 1.3 | 1.3.10 | [Decision 5 (EC-75)](https://meetings.wmo.int/EC-75/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-75/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-75-d03-1(4)-WATER-AND-CLIMATE-COALITION-GUIDANCE-approved_en.docx&action=default) | Hydrological services | Mapping of proposed Water and Climate Coalition (WCC) activities to the WMO Plan of Action for Hydrology, and where there is alignment with the Plan of Action, to accelerate ongoing activities of technical commissions that support WCC objectives | SC-HYD | INF document in preparation by C/HCP and C/SC-HYD, for submission to SERCOM-2 or SERCOM MG ahead of EC-76 |  |  |
| 65.  | (b) (viii) | 1 | 1.3 | 1.3.10 | [Decision 5 (EC-75)](https://meetings.wmo.int/EC-75/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-75/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-75-d03-1(4)-WATER-AND-CLIMATE-COALITION-GUIDANCE-approved_en.docx&action=default) | Hydrological services | Proposal on how WMO should respond to other requirements from the Water and Climate Leaders call | SC-HYD | To be discussed by SERCOM MG and proposals to be submitted to EC-76 |  |  |
| 66.  | (b) (viii) | 1 | 1.3 | 1.3.1 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Guidelines on transboundary flood risk management | SC-HYD | Activity included in the SC-HYD workplan, responsibilities assigned to SC-HYD members to identify the relevant experts to contribute ([Doc. 5 SC-HYD 10, activity 7](https://filecloud.wmo.int/share/s/Sd565rUeRuqmVf3STd8kxg)) |  |  |

#### (c) Assistance to Members to enhance service delivery capabilities and enable effective implementation and compliance[[5]](#footnote-6)

| *No.* | *Specific Terms of Reference* | *Long-Term Goal* | *Strategic Objective* | *Operating Plan Output* | *Directive* | *Activity area* | *Deliverable* | *Executing subsidiary body* | *Progress as of 31 August 2022* | *Reporting* |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *EC-76* | *Cg-19* |
| 67.  | (c) (iii) | 1 | 1.1 | 1.1.12 | [Resolution 13 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=69) | Multi-hazard early warning systems | Global Multi-hazard Alert System (GMAS) Implementation Plan | SC-DRR | Being submitted through document [SERCOM-2/ Doc. 5.6(4)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 68.  | (c) (iii) | 1 | 1.1 | 1.1.6 | [Resolution 2 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=14) | Multi-hazard early warning systems | Full Implementation Plan for the Cataloguing of Hazardous Events (WMO-CHE) and associated consultations and collaborations | SC-DRR | Being submitted through document [SERCOM-2/ Doc. 5.6(3)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 69.  | (c) (iii) | 1 | 1.1 | *New* | [Resolution 3 (EC-75)](https://meetings.wmo.int/EC-75/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-75/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-75-d04(2)-UN-GLOBAL-EARLY-WARNING-ADAPTATION-INITIATIVE-approved_en.docx&action=default) | Multi-hazard early warning systems  | UN Global Early Warning / Adaptation Initiative: Initial Action Plan | SG-EWA | Being submitted through document [SERCOM-2/ Doc. 5.6(1)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 70.  | (c) (iii) | 1 | 1.1 | *New* | [Resolution 3 (EC-75)](https://meetings.wmo.int/EC-75/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-75/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-75-d04(2)-UN-GLOBAL-EARLY-WARNING-ADAPTATION-INITIATIVE-approved_en.docx&action=default) | Multi-hazard early warning systems  | UN Global Early Warning / Adaptation Initiative: guidance and supportive frameworks to cover gaps in hazards not currently addressed | SG-EWA | Being submitted through document [SERCOM-2/ Doc. 5.6(1)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 71.  | (c) (iii) | 1 | 1.1 | *New* | — | Multi-hazard early warning systems | Advise on the development and optimization of WMO fire weather services supportive frameworks for NMHSs | SC-DRR | Being submitted as document [SERCOM-2/ Doc. 5.6(2)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) | n.d. | n.d. |
| 72.  | (c) (iii) | 1 | 1.2 | 1.2.1 | [Resolution 20 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=361) | Climate services | Assessment of progress made by Members in benefiting from the Manual on High-Quality Global Data Management Framework for Climate (HQ-GDMFC) | SC-CLI | See [SERCOM-2/Doc. 5.5(6)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) and [INF. 4](https://meetings.wmo.int/SERCOM-2/InformationDocuments/Forms/AllItems.aspx) |  |  |
| 73.  | (c) (iii) | 1 | 1.2 | 1.2.6 | [Resolution 18 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agrometeorological services | Guidance material on animal/plant pest/disease applications modelling and early warning systems, crop calendars, irrigation scheduling, crop protection, and crop forecasting | SC-AGR | Delivery of the guidance is planned for end of summer 2023 |  |  |
| 74.  | (c) (iii) | 1 | 1.2 | 1.2.6 | [Resolution 18 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agrometeorological services | Guidance material on Roving Seminars and Climate Field Schools, and National Forums/Dialogues | SC-AGR | Manual on Roving Seminars completed and is being finalized for approval by SERCOM MG |  |  |
| 75.  | (c) (iii) | 1 | 1.2 | 1.2.10 | [Resolution 18 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agrometeorological services | Guidance material on coupling of weather/climate models with agricultural models and on developing complete agroclimatic data series and agrometeorological risk management | SC-AGR | Consultant completed draft report. Report is now under review by SC-AGR |  |  |
| 76.  | (c) (iii) | 1 | 1.2 | 1.2.16 | [Resolution 18 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agrometeorological services | Guidance material on applications of Weather Forecasts for Agriculture such as Numerical Weather Prediction (NWP) and on methodologies of using sub-seasonal to seasonal forecasts for applications in agriculture; | SC-AGR | Consultant completed draft report. Report is now under review by SC-AGR |  |  |
| 77.  | (c) (iii) | 1 | 1.2 | 1.2.16 | [Resolution 18 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agrometeorological services | Update publication on impact assessments of climate variability and change on agriculture (Increasing Climate Variability and Change: Reducing the vulnerability of agriculture and forestry. 2005. Reprinted from Climatic Change, Volume 70, Nos. 1–2, 2005) | SC-AGR | Consultant is being hired to start this task |  |  |
| 78.  | (c) (iii) | 1 | 1.2 | 1.2.18 | [Resolution 18 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agrometeorological services | Develop mechanisms and guidance material on incorporating alerts and warnings on extreme events/natural hazards on agriculture to regional and global multi-hazard alerting systems | SC-AGR | Consultant is being hired to start this task |  |  |
| 79.  | (c) (iii) | 1 | 1.2 | 1.3.2 | [Resolution 3 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=19) | Hydrological services | Implementation Plan for the Global Drought Classification System | SG-AGR with SC-HYD and SC-CLI | It was to be submitted through document SERCOM-2/Doc. 5.3(1) but it is delayed |  |  |
| 80.  | (c) (iii) | 1 | 1.3 | 1.3.3 | [Resolution 18 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agrometeorological services | Guidance and demonstration of soil moisture applications for agricultural services (and possibly for hydrological and climate services) | SC-AGR with SC-HYD and SC-CLI | Report is still being drafted by Consultant in conjunction with ET-ASC |  |  |
| 81.  | (c) (iii) | 1 | 1.3 | 1.3.3 | [Resolution 18 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agrometeorological services | Guidance material and database on agricultural mass/energy flux measurements | SC-AGR | Manual on Roving Seminars completed and is being finalized for approval by SERCOM MG |  |  |
| 82.  | (c) (iii) | 1 | 1.3 | 1.3.3 | [Resolution 18 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agrometeorological services | Guidance material on effective communication and dissemination development strategies and Information Communication Technologies addressing agrometeorological topics for WMO Members and projects; | SC-AGR | Report is still being drafted by Consultant in conjunction with ET-DRG |  |  |
| 83.  | (c) (iii) | 1 | 1.3 | 1.3.1 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Implementation Plan for FFGS/WGC | SC-HYD | Currently being developed by relevant experts under SC-HYD | n.d | n.d. |
| 84.  | (c) (iii) | 1 | 1.4 | 1.4.5 | [Resolution 28 (Cg-19)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=107) | Services for Aviation  | Revision to [*Long-term Plan for Aeronautical Meteorology*](https://library.wmo.int/doc_num.php?explnum_id=9809) (WMO AeM Series No. 5) | SC-AVI | Status of the update of the LTP-AeM being presented as document [SERCOM-2/ INF. 5.4](https://meetings.wmo.int/SERCOM-2/InformationDocuments/Forms/AllItems.aspx) |  |  |
| 85.  | (c) (iii) | 1 | 1.4 | — | [Decision 2 (EC-71)](https://library.wmo.int/doc_num.php?explnum_id=10248#page=71) | Integrated Urban Services | Implementation of Integrated Urban Hydro-Meteorological, Climate and Environmental Services | SG-URB | In preparation for SERCOM-3  |  |  |
| 86.  | (c) (iv) | 1 | 1.1 | *New* | — | Multi-hazard early warning systems | Advise on advocacy and capacity development activities needed support to WMO Members in operational fire weather services delivery | SC-DRR | Being submitted as document [SERCOM-2/ Doc. 5.6(2)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) | n.d. | n.d. |
| 87.  | (c) (iv) | 1 | 1.2 | 1.2.10 | [Resolution 18 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agrometeorological services | Complete and update the supplement to WMO-No. 1083 on agricultural meteorology | SC-AGR | Being drafted by Consultant in conjunction with ET-DRG |  |  |
| 88.  | (c) (iv) | 1 | 1.2 | 1.2.10 | [Resolution 18 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agrometeorological services  | Agrometeorological training modules for farmers and extension agents use in training events and WMO RTCs courses | SC-AGR | Consultant is being hired to start this task |  |  |
| 89.  | (c) (iv) | 1 | 1.3 | 1.3.1 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Capacity building material related to the Guidelines for the assessment of End-to-end Early Warning Systems for Flood Forecasting | SC-HYD | Development of a training module on the Assessment Guidelines ongoing with CDP |  |  |
| 90.  | (c) (iv) | 1 | 1.3 | 1.3.6 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Progress report of the HydroSOS development and implementation | SC-HYD | Task revised through document [SERCOM-2/ Doc. 7.2](https://meetings.wmo.int/SERCOM-2/_layouts/15/WopiFrame.aspx?sourcedoc=/SERCOM-2/English/1.%20DRAFTS%20FOR%20DISCUSSION/SERCOM-2-d07-2-REVIEW-OF-SUBSIDIARY-BODIES-draft1_en.docx&action=default) |  |  |
| 91.  | (c) (iv) | 1 | 1.4 | 1.4.8 | [Resolution 29 (Cg-18),](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=110) [Resolution 73 (Cg-18),](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=239) [Resolution 4 (EC-72)](https://library.wmo.int/doc_num.php?explnum_id=10504#page=17)  | Marine Services | Strengthen marine services, especially in developing countries and Small Island Developing States (SIDS)Assist with the requested training and capacity development for metocean professionals | SC-MMO | Being reported to SERCOM-2 through INFs 5.1(7) and 5.1(4) |  | n.d. |
| 92.  | (c) (v), (vi) | 1 | 1.3 | 1.3.1 | [Resolution 6 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=29) | Hydrological services | Finalized Sustainability Strategy for the Flash Flood Guidance System with Global Coverage (FFGS/WGC) | SC-HYD | [Sustainability strategy for FFGS](https://public.wmo.int/en/media/news/wmo-strengthens-flash-flood-guidance-system) published |  |  |
| 93.  | (c) (vi) | 1 | 1.2 | 1.2.10 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate services | Repository of training materials and sources for WMO Global Campus | SC-CLI | This action is completed. The repository is integrated into the ETRP calendar of events |  |  |
| 94.  | (c) (vi) | 1 | 1.2 | 1.2.11 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate services | Basic Instructional Package for climate services (BIP-CS) | SC-CLI | The consultant has been selected and the contract is in the approval process. He will start in the second half of September 2022 |  |  |
| 95.  | (c) (vi) | 1 | 1.2 | 1.2.11 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate services | Draft skeleton of the 4th Edition of the [*Guide to Climatological Practices*](https://public.wmo.int/en/resources/library/guide-climatological-practices-wmo-100) (WMO-No. 100) | SC-CLI | Being submitted through document [SERCOM-2/ Doc. 5.5(4)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 96.  | (c) (vi) | 1 | 1.2 | 1.2.13 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate services | Climate information communication strategy | SC-CLI | Guidance on Communication of Climate Science and Services has been completed and will be published before SERCOM-2 |  |  |
| 97.  | (c) (vi) | 1 | 1.2 | 1.2.20 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate services | Recommendation on making the Global Seasonal Climate Update (GSCU) operational | SC-CLI | The GSCU is operational |  |  |
| 98.  | (c) (vi) | 1 | 1.3 | 1.3.2 | [Resolution 18 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Agrometeorological services | Guidance material on how to clearly communicate the existing definitions of drought, drought triggers, the various components of the lifecycle of drought | SC-AGR | Ongoing Discussions with SC-AGR ET on Drought |  |  |
| 99.  | (c) (vi) | 1 | 1.3 | 1.3.1 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services | Guidelines on communication for hydrological information with priority to flood, forecasting results and related risks | SC-HYD | Activity included in the SC-HYD workplan, responsibilities assigned to SC-HYD members to identify the relevant experts to contribute ([Doc. 5 SC-HYD 10, activity 10](https://filecloud.wmo.int/share/s/Sd565rUeRuqmVf3STd8kxg)) |  |  |
| 100.  | (c) (vi) | 2 | 2.1 | 2.1.6 | [Resolution 50 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=173) | Cryosphere-related services | Bulletin on the state of the cryosphere, published yearly, from 2022, on | INFCOM Advisory Group on the Global Cryosphere Watch | See INFCOM-2/Doc. 6.6 |  |  |

#### (d) Cooperation and partnerships[[6]](#footnote-7)

| *No.* | *Specific Terms of Reference* | *Long-Term Goal* | *Strategic Objective* | *Operating Plan Output* | *Directive* | *Activity area* | *Deliverable* | *Executing subsidiary body* | *Progress as of 31 August 2022* | *Reporting* |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *EC-76* | *Cg-19* |
| 101.  | (d) (i) | 1 | 1.4 | 1.4.5 | [Resolution 27 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=107) | Aviation services | Revision to WMO-No. 60, Chapter II concerning WMO working arrangements with ICAO | SC-AVI | Updated working arrangement (MOU and Schedules) under development. Expected to be signed by WMO Secretary-General and ICAO Secretary-General in late-2022 or 2023. |  |  |
| 102.  | (d) (i) | 1 | 1.4 | 1.4.5 | [Resolution 27 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=107) | Aviation services | Revision to or introduction of working arrangements (or similar) with other international organizations addressing aeronautical meteorology | SC-AVI | SC-AVI Advisory Group on Volcanic Science for Applications established by WMO in 2022 in partnership with IUGG (International Union of Geodesy and Geophysics).Engagement between WMO and CTBTO (Comprehensive Nuclear Test-ban Treaty Organization) remains ongoing (update to existing working arrangement not required).Informal engagement started in 2021 with ACI (Airports Council International) and EASA (European Union Aviation Safety Agency) on the impacts of climate change on aviation, among others. |  |  |
| 103.  | (d) (i), (iii) | 1 | 1.4 | — | [Resolution 32 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=114) | Integrated Urban Services | MOU WMO-UN-HABITAT cooperation framework for Integrated Urban Services | WMO Secretariat, UN-HABITAT, SG-URB | Updated working arrangement (MOU) under development. Expected to be signed by WMO Deputy Secretary-General and UN-HABITAT Director. |  |  |
| 104.  | (d) (i), (iii) | 1 | 1.4 | — | [Resolution 32 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=114) | Integrated Urban Services | MOU WMO-Government of Milan for implementation of Integrated Urban hydro-meteorological, climate and air quality services | WMO Secretariat, City of Milano, SG-URB | MOU signed. Seeking further engagement |  |  |
| 105.  | (d) (ii) | 1 | 1.1 | — | [Resolution 3 (EC-75)](https://meetings.wmo.int/EC-75/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-75/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-75-d04(2)-UN-GLOBAL-EARLY-WARNING-ADAPTATION-INITIATIVE-approved_en.docx&action=default) | Multi-hazard early warning systems | Develop collaborative partnerships for the UN Global Early Warning / Adaptation Initiative | SG-EWA | Being submitted through document [SERCOM-2/ Doc. 5.6(1)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 106.  | (d) (ii) | 1 | 1.2 | 1.2.15 | [Resolution 1 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=9) | Climate services | Engagement of concerned partners on the further application and implementation of WMO’s unified data policy | P/SERCOM, in coordination with P/INFCOM  | See document [SERCOM-2/INF. 2](https://meetings.wmo.int/SERCOM-2/InformationDocuments/Forms/AllItems.aspx) |  |  |
| 107.  | (d) (iii) | 1 | 1.1 | *New* | — | Multi-hazard early warning systems | Mobilize external expertise in developing an integrated approach to fire weather services delivery, as needed, leveraging existing partnerships, notably the WMO-UNDRR Centre of Excellence for climate and disaster resilience | SC-DRR | Being submitted as document [SERCOM-2/ Doc. 5.6(2)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) | n.d. | n.d. |
| 108.  | (d) (iii) | 2 | 2.3 | 2.3.9 | [Resolution 4 (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) | Hydrological services  | Review of the evolving role of existing hydrological data centres under the lead of SC Data Processing for Applied Earth System Modelling and Prediction | SC-HYD | This review is being carried out under the lead of INFCOM. A first draft of the review has been circulated to the relevant experts under JET-HYDMON. This activity being almost completed, it has been removed from SC-HYD ToRs. |  |  |

#### (e) Additional activities and deliverables, including transferred from the previous commission structure

| *No.* | *Specific Terms of Reference* | *Long-Term Goal* | *Strategic Objective* | *Operating Plan Output* | *Directive* | *Activity area* | *Deliverable* | *Executing subsidiary body* | *Progress as of 31 August 2022* | *Reporting* |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *EC-76* | *Cg-19* |
| 109.  |  | 1 | 1.2 | 1.2.19, 1.2.20 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate data | Establishment of WMO Global Centres on El Nino/La Nina Southern Oscillation and seasonal climate information | SC-CLI | Being submitted through document [SERCOM-2/ Doc. 5.5(3)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 110.  |  | 1 | 1.2 | 1.2.18 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate data | WMO evaluation process for world records of weather and climate extremes | SC-CLI | Guidelines on the evaluation process have been completed and reviewed. Formal WMO publication to be published by end of 2022 |  |  |
| 111.  |  | 1 | 1.2 | 1.2.1 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate data | Ensuring timely collection and exchange of critical climate datasets (CLIMAT and DAYCLI reports, Climatological Standard Normals, National Climate Monitoring Products) and data on high-impact events underpinning climate monitoring and climate watch activities) | SC-CLI | Being submitted to SERCOM and INFCOM, [Doc. 5.5(5)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) and INF 5.5(5) on CLINO collection status |  |  |
| 112.  |  | 1 | 1.2 | 1.2.18 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate monitoring  | Modernization of the WMO State of the Climate monitoring | SC-CLI | Being submitted as document [SERCOM-2/ Doc. 5.5(2)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 113.  |  | 1 | 1.2 | 1.2.1 | [Resolution 22 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=95) | Climate data | Produce four-year status report on International Data Rescue (I-DARE) implementation as guidance for climate policy and resource mobilization | SC-CLI | As part of a new development, DARE guidelines, tools and portals from COPERNICUS and WMO are currently merged, thereby also covering marine and hydrological DARE. Status report suggested to be submitted in 2024 |  |  |
| 114.  |  | 1 | 1.2 | 1.2.17 | [Resolution 23 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=97)[Resolution 4 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=21) | Climate observations | Updated mechanism and criteria for long-term observing stations (including also marine and hydrological stations) | SC-CLI | Being submitted through document [SERCOM-2/ Doc. 5.5(6)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D)*Activity being recommended to be transferred to INFCOM* |  |  |
| 115.  |  | 1 | 1.2 | 1.2.17 | [Resolution 23 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=97)[Resolution 5 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=25) | Climate observations | Endorsement of a new list of candidate long-term observing stationsIssue another call for the nomination of candidate stations in 2022 | SC-CLI | New call for candidate stations to be issued in December 2022*Activity being recommended to be transferred to INFCOM* |  |  |
| 116.  |  | 1 | 1.2 | 1.2.17 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate data | Catalogue of climate data sets and indicators extended to regional and national levels | SC-CLI | Extension to regional and national has started. The catalogue has been updated |  |  |
| 117.  |  | 1 | 1.2 | 1.2.17  | [Decision 7 (EC-75)](https://meetings.wmo.int/EC-75/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-75/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-75-d03-2(2)-CLIMATOLOGICAL-STANDARD-NORMALS-approved_en.docx&action=default) | Climate data | Concept promoted and the urgency of the collection highlighted  | P/SERCOM | 1991–2020 CLINO collection assessment report to be submitted to Cg-19 |  |  |
| 118.  |  | 1 | 1.2 | 1.2.17  | [Decision 7 (EC-75)](https://meetings.wmo.int/EC-75/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-75/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-75-d03-2(2)-CLIMATOLOGICAL-STANDARD-NORMALS-approved_en.docx&action=default) | Climate data | Assessment of the WMO 1991–2020 CLINO collection effort | P/SERCOM | Being submitted through document [SERCOM-2/ Doc. 5.5(5)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D)CLINO collection assessment report to be submitted to Cg-19 (see row above) |  |  |
| 119.  |  | 1 | 1.2 | 1.2.17 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate reports | Publication of the decadal climate report 2011–2020, in 2022 | SC-CLI | Work ongoing, data collection in progress, team organized, and lead author appointed |  |  |
| 120.  |  | 1 | 1.2 | 1.2.18 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate reports | Issuance of the WMO Statement on the State of the Global Climate in 2022 and 2023 | SC-CLI | Work ongoing, provisional State of the climate 2021 will be released at COP27 |  |  |
| 121.  |  | 1 | 1.2 | 1.2.18 | [Resolution 20 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Climate data | Evaluation of new World Records | SC-CLI | [Two megaflash lightning record evaluations](https://public.wmo.int/en/media/press-release/wmo-certifies-two-megaflash-lightning-records) have been completed and released |  |  |
| 122.  |  | 1 | 1.1 | 1.1.15 | [Resolution 33 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=115)[Resolution 8 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=34) | Integrated health services | Global Heat Health Information Network (GHHIN), *now renamed* WMO activities on extreme heat and health | SC-HEA | Being submitted as document [SERCOM-2/ 5.10(1)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 123.  |  | 1 | 1.1 | 1.1.15 | [Resolution 33 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=115)[Resolution 8 (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=34) | Integrated health services | Addressing Infectious Disease Research and Products | SC-HEA | Being submitted as document [SERCOM-2/ 5.10(2)](https://meetings.wmo.int/SERCOM-2/English/Forms/AllItems.aspx?RootFolder=%2FSERCOM%2D2%2FEnglish%2F1%2E%20DRAFTS%20FOR%20DISCUSSION&FolderCTID=0x012000A60A2C5B5006AA41980F5F2A7BA92166&View=%7B1EB384EC%2D8FE1%2D4B79%2DB8F9%2DA0AEB19C9F87%7D) |  |  |
| 124.  |  | 2 | 2.1 | 2.1.6 | [Resolution 50 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=173) | Cryosphere-related services | Recommended methodologies on the development of assessments and indicators on the state of the cryosphere, published together with relevant users and for inclusion in the WMO Statement on the State of the Global Climate, progressively from 2021 | SC-CLI | See INFCOM-2/ Doc. 6.6 |  |  |

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1. A variety of terms is used by different guidance documents about the subject of the present document: (a) [*General Regulations*](https://library.wmo.int/index.php?lvl=notice_display&id=14206#.YvEqMHZBx3g) (WMO-No. 15), Annex III: “operating plan”; (b) [Resolution 7 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=41), establishing the technical commissions and adopting their terms of reference, [*Rules of Procedure for the Technical Commission*](https://library.wmo.int/?lvl=notice_display&id=21534#.YvEqR3ZBx3g) (WMO-No. 1240), throughout, and [Resolution 4 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=64): “work programme”; (c) [Resolution 3 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=47): “workplan”. Even if the *General Regulations* prevail on the *Rules of Procedure*, given the term “work programme” is used in the resolution establishing the Commission and throughout the rules of procedure it can be assumed that this is the correct term. [↑](#footnote-ref-2)
2. The first session of the Commission was held in two segments: by correspondence in March–May 2020, adopting [Resolution 3 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=47) and virtually from 22 to 26 February 2021, adopting [Resolution 4 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=64). [↑](#footnote-ref-3)
3. (i) Coordinate the development of new service-oriented regulatory material in all application areas of its scope based on identified needs of Members; (ii) Keep the regulatory material up to date through regular amendments, as necessary; (iii) Ensure the consistency of new and amended regulatory material across the application areas; (iv) Enhance capacity for prediction and service delivery; (v) Consider relevant scientific and technological developments to ensure the currency of the regulatory material; (vi) Together with the Infrastructure Commission and the Research Board, coordinate linking science, infrastructure and services interactively; (vii) Accompany each recommendation for new and amended regulatory material with its own impact, cost–benefit, and risk analysis. [↑](#footnote-ref-4)
4. (i) Promote a service-oriented culture in all relevant application areas including customer focus and quality management, as well as an understanding of the value and socio-economic benefits; (ii) Share best practices and develop harmonized methodologies for user engagement including the identification of requirements and the establishment of feedback mechanisms with users necessary for the continuous improvement of services; (iii) Develop methodologies for impact-based products and services in all application areas, innovative service delivery methods and integrated platforms; (iv) Ensure the harmonization of requirements for the competencies and qualifications of personnel involved in service delivery; (v) Develop a common methodology for the verification and validation of information and service delivery as part of quality management; (vi) Build, through appropriate studies and projects, a better understanding of the economics of service delivery, cost-recovery mechanisms, commercial and market elements, and develop respective guidance for Members; (vii) Seek the engagement of service providers from the private sector and academia; (viii) Promote global and regional partnerships, including building upon existing partnerships and networks among communities of practice among the service areas, which are beneficial for WMO Members. [↑](#footnote-ref-5)
5. (i) Consult with regional associations and Members to identify needs for new and improved services and analyse related capabilities, and best practices; (ii) Consult with regional associations to identify experts who can participate in technical commission teams, to facilitate the implementation and uptake of evolving services and applications, standards and regulations at national and regional levels; (iii) Facilitate implementation by developing guidance material aligned with the promulgation of new and amended regulatory material; (iv) In consultation with the regional associations, identify Members’ needs for assistance in improving their capabilities and providing relevant guidance and capacity development activities, including training; (v) Propose pilot and demonstration projects as necessary; (vi) Facilitate the transfer of knowledge and best practices by supporting relevant events and through communication and outreach activities. [↑](#footnote-ref-6)
6. (i) Establish close coordination and efficient working mechanisms with relevant international organizations such as the International Civil Aviation Organization, the International Maritime Organization and the Food and Agriculture Organization of the United Nations, in the area of service delivery; (ii) Establish consultative mechanisms with user organizations to receive feedback and advice on services; (iii) Consider opportunities for leveraging resources through the establishment of joint, including inter-agency, bodies and/or projects addressing common areas of service delivery. [↑](#footnote-ref-7)