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| WEATHER CLIMATE WATER | **World Meteorological Organization**  **EXECUTIVE COUNCIL**  **Seventy-Sixth Session** 27 February to 3 March 2023, Geneva | **EC-76/INF. 9(2)** |
| Submitted by: P/SERCOM and P/INFCOM  2.XII.2022 |

## STATUS OF RESOLUTIONS AND RECOMMENDATIONS OF THE PAST COMMISSION STRUCTURE

### Introduction

The review of the resolutions and recommendations of the past commission structure is undertaken according to the directions provided by the Council through [Resolution 8 (EC-75)](https://library.wmo.int/doc_num.php?explnum_id=11331#page=33) – Review of previous resolutions and decisions of the Executive Council, (adopted as Draft Resolution 8/1 (EC-75)).

Resolutions, decisions and recommendations in force adopted by Congress, Executive Council, regional associations and technical commissions are available for consultation in a searchable [online database](https://tools.wmo.int/wmo-resolutions/index.php).

### Status of resolutions and recommendations of past technical commissions

#### Commission for Aeronautical Meteorology (CAeM)

| Code | Title | Fully implemented, superseded (resolutions) or accepted (recommendations) | Fully or in part incorporated in a SERCOM or INFCOM instrument, or other instrument | Needs  to be addressed |
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| [Resolution 1 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=11) | Report by the president of the Commission for Aeronautical Meteorology (2018) | Sessional resolution, implemented |  |  |
| [Resolution 2 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=11) | Strategic planning considerations (2018) | Implemented |  |  |
| [Resolution 3 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=12) | 2018 Technical Conference of the Commission for Aeronautical Meteorology (2018) | Implemented |  |  |
| [Resolution 4 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=15) | Management Group of the Commission for Aeronautical Meteorology (2018) | Implemented |  |  |
| [Resolution 5 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=17) | Review of previous resolutions and recommendations of the Commission for Aeronautical Meteorology (2018) |  | *Addressed through this exercise and regular reviews of SERCOM and INFCOM resolutions and recommendations* |  |
| [Resolution 6 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=18) | Gender equality and empowerment of women (2018) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14), [Resolution 3 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=47) and [Decision 13 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=133) |  |
| [Recommendation 1 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=25) | Scientific and technological advancement in support of meteorological service for international air navigation (2018) | Accepted through [Resolution 27  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=107) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AVI |  |
| [Recommendation 2 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=25) | Cooperation with the International Civil Aviation Organization (2018) | Accepted through [Resolution 27  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=107) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AVI |  |
| [Recommendation 3 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=26) | Cooperation with other international organizations of relevance to the Commission for Aeronautical Meteorology (2018) | Accepted through [Resolution 27  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=107) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AVI |  |
| [Recommendation 4 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=27) | Long-term plan for the Aeronautical Meteorology Programme (2018) | Accepted through [Resolution 28  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=109) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AVI |  |
| [Recommendation 5 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=28) | World Meteorological Organization regulatory and guidance material addressing the provision of meteorological service for international air navigation (2018) | Accepted through [Resolution 27  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=107) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AVI |  |
| [Recommendation 6 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=29) | Priority themes and continuity of World Meteorological Organization activities in aeronautical meteorology (2018) | Accepted through [Resolution 27  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=107) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AVI |  |
| [Recommendation 7 (CAeM-16)](https://library.wmo.int/doc_num.php?explnum_id=5237#page=31) | Review of relevant resolutions and decisions of World Meteorological Organization governing bodies related to the Commission for Aeronautical Meteorology (2018) | Noted through [Resolution 27  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=107) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AVI |  |

#### Commission for Agricultural Meteorology (CAgM)

| Code | Title | Fully implemented, superseded (resolutions) or accepted (recommendations) | Fully or in part incorporated in a SERCOM or INFCOM instrument, or other instrument | Needs  to be addressed |
| --- | --- | --- | --- | --- |
| [Resolution 2 (CAgM-XV)](https://library.wmo.int/doc_num.php?explnum_id=7713#page=48) | Terms of reference of the Commission for Agricultural Meteorology (2010) | Superseded by [Resolution 7 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=41) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AGR |  |
| [Resolution 1 (CAgM-16)](https://library.wmo.int/doc_num.php?explnum_id=5490#page=42) | Integrated Drought Management Programme (2014) | [Resolution 17  (Cg-17)](https://library.wmo.int/doc_num.php?explnum_id=3138#page=279) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AGR |  |
| [Resolution 1 (CAgM-17)](https://library.wmo.int/doc_num.php?explnum_id=4627#page=10) | Outputs of the intersessional period (2014–2018) (2018) | Implemented |  |  |
| [Resolution 2 (CAgM-17)](https://library.wmo.int/doc_num.php?explnum_id=4627#page=13) | Gender equality and empowerment of women (2018) |  | Incorporated in [Resolution 3 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=47):  SC-AGR, [Decision 13 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=133) |  |
| [Resolution 3 (CAgM-17)](https://library.wmo.int/doc_num.php?explnum_id=4627#page=15) | Review of previous resolutions and recommendations of the Commission for Agricultural Meteorology (2018) | See [Resolution 2 (CAgM-XV)](https://library.wmo.int/doc_num.php?explnum_id=7713#page=48) and [Resolution 1  (CAgM-16)](https://library.wmo.int/doc_num.php?explnum_id=5490#page=42) | *Addressed through this exercise and regular reviews of SERCOM and INFCOM resolutions and recommendations* |  |
| [Resolution 4 (CAgM-17)](https://library.wmo.int/doc_num.php?explnum_id=4627#page=15) | Priorities (2018–2022) of the Commission for Agricultural Meteorology (2018) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AGR |  |
| [Resolution 5 (CAgM-17)](https://library.wmo.int/doc_num.php?explnum_id=4627#page=17) | Commission for Agricultural Meteorology contributions to other World Meteorological Organization activities (2018) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AGR | May be further developed in future revisions of the terms of reference |
| [Resolution 6 (CAgM-17)](https://library.wmo.int/doc_num.php?explnum_id=4627#page=19) | Focus areas (2018) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AGR |  |
| [Resolution 7 (CAgM-17)](https://library.wmo.int/doc_num.php?explnum_id=4627#page=21) | Commission for Agricultural Meteorology Management Group (2018) | Superseded by [Resolution 7 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=41) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AGR |  |
| [Resolution 8 (CAgM-17)](https://library.wmo.int/doc_num.php?explnum_id=4627#page=24) | Working structure of the Commission for Agricultural Meteorology (2018) | Superseded by [Resolution 7 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=41) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AGR |  |
| [Recommendation 1 (CAgM-17)](https://library.wmo.int/doc_num.php?explnum_id=4627#page=33) | Drought and desertification (2018) | Accepted through [Resolution 18  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AGR |  |
| [Recommendation 2 (CAgM-17)](https://library.wmo.int/doc_num.php?explnum_id=4627#page=36) | Status and progress made in agricultural meteorology (2018) | Accepted through [Resolution 18  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AGR |  |
| [Recommendation 3 (CAgM-17)](https://library.wmo.int/doc_num.php?explnum_id=4627#page=36) | Training and education in agricultural meteorology (2018) | Accepted through [Resolution 18  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AGR |  |
| [Recommendation 4 (CAgM-17)](https://library.wmo.int/doc_num.php?explnum_id=4627#page=39) | Review of relevant resolutions of the World Meteorological Organization governing bodies (2018) | Accepted through [Resolution 18  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AGR |  |
| [Recommendation 5 (CAgM-17)](https://library.wmo.int/doc_num.php?explnum_id=4627#page=39) | Continuation and strengthening of the work of the Commission for Agricultural Meteorology (2018) | Accepted through [Resolution 18  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=87) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AGR |  |

#### Commission for Atmospheric Sciences (CAS)

| Code | Title | Fully implemented, superseded (resolutions) or accepted (recommendations) | Fully or in part incorporated in a SERCOM or INFCOM instrument, or other instrument | Needs  to be addressed |
| --- | --- | --- | --- | --- |
| [Decision 2  (CAS-17)](https://library.wmo.int/doc_num.php?explnum_id=4293#page=10) | Gender equality (2017) | Incorporated in [Resolution 82  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=262) |  |  |
| [Recommendation 1 (CAS-17)](https://library.wmo.int/doc_num.php?explnum_id=4293#page=11) | The role of science in serving society (2017) | Accepted through [Resolution 8  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=53), [Resolution 60  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=211) and [Resolution 61  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=214) |  |  |
| [Recommendation 2 (CAS-17)](https://library.wmo.int/doc_num.php?explnum_id=4293#page=14) | Seamless prediction systems (2017) | Accepted through [Resolution 8  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=53),  [Resolution 62  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=216) and [Resolution 63  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=217) |  |  |
| [Recommendation 3 (CAS-17)](https://library.wmo.int/doc_num.php?explnum_id=4293#Page=19) | Future infrastructures (2017) | Accepted through [Resolution 62  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=216) and [Resolution 63  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=217) |  |  |
| [Recommendation 4 (CAS-17)](https://library.wmo.int/doc_num.php?explnum_id=4293#page=21) | Strengthening Earth science national training and curricula (2017) |  |  | The Research Board will develop a relevant draft resolution for Cg-19 |
| [Recommendation 5 (CAS-17)](https://library.wmo.int/doc_num.php?explnum_id=4293#Page=22) | Creating an environment for innovation and its optimal resourcing (2017) | Accepted through [Resolution 64  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=218) |  |  |

#### Commission for Basic Systems (CBS)

| Code | Title | Fully implemented, superseded (resolutions) or accepted (recommendations) | Fully or in part incorporated in a SERCOM or INFCOM instrument, or other instrument | Needs  to be addressed |
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| [Recommendation 10 (CBS-XIV)](https://library.wmo.int/doc_num.php?explnum_id=5514#Page=168/) | WMO Space Programme (2012) | [Resolution 6  (EC-LXI)](https://library.wmo.int/doc_num.php?explnum_id=5014#page=108) not in force |  |  |
| [Recommendation 4 (CBS-15)](https://library.wmo.int/doc_num.php?explnum_id=5502#page=101) | Actions towards avoiding gaps in essential space‑based observation (2014) | Accepted through [Resolution 11  (EC-65)](https://library.wmo.int/doc_num.php?explnum_id=5068#page=150) not in force |  |  |
| [Recommendation 3 (CBS-Ext.(2014))](https://library.wmo.int/doc_num.php?explnum_id=3048#page=102) | Introduction of the new *Manual on the Global Data-processing and Forecasting System* (WMO-No. 485) (2014) | Accepted through [Resolution 12  (Cg-17)](https://library.wmo.int/doc_num.php?explnum_id=3138#page=271) not in force |  |  |
| [Recommendation 8 (CBS-Ext.(2014))](https://library.wmo.int/doc_num.php?explnum_id=3048#page=112) | Migration to Table Driven Code Forms (2014) | Accepted through [Resolution 32  (Cg-17)](https://library.wmo.int/doc_num.php?explnum_id=3138#page=470) not in force |  |  |
| [Recommendation 14 (CBS-Ext.(2014))](https://library.wmo.int/doc_num.php?explnum_id=3048#page=472) | Preparation for new satellite systems (2014) | Accepted through [Resolution 37  (Cg-17)](https://library.wmo.int/doc_num.php?explnum_id=3138#page=478) and implemented |  | [Resolution 37 (Cg-17)](https://library.wmo.int/doc_num.php?explnum_id=3138#page=478) should be closed |
| [Recommendation 17 (CBS-Ext.(2014))](https://library.wmo.int/doc_num.php?explnum_id=3048#page=566) | Enhancement and expansion of aircraft-based observations (2014) | Accepted through [Resolution 24  (Cg-17)](https://library.wmo.int/doc_num.php?explnum_id=3138#page=293) and implemented |  |  |
| [Recommendation 22 (CBS-Ext.(2014))](https://library.wmo.int/doc_num.php?explnum_id=3048#page=630) | Provision of operational meteorological assistance to humanitarian agencies | Reflected in [Resolution 14  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=75) | Incorporated in [Resolution 1 (SERCOM-1):](https://library.wmo.int/doc_num.php?explnum_id=10767/#page=14)  SC-DRR | [Resolution 14 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=75) should be closed |
| [Recommendation 23 (CBS-Ext.(2014))](https://library.wmo.int/doc_num.php?explnum_id=3048#page=633) | Proposed mechanism to strengthen operational centres, built upon the lessons learned through the Severe Weather Forecasting Demonstration Project | Accepted through [Resolution 13  (Cg-17)](https://library.wmo.int/doc_num.php?explnum_id=3138#page=272) and reflected in [Resolution 15  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=80) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-DRR |  |
| [Resolution 1 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=12) | Commission for Basic Systems Management Group (2016) | Implemented; related to former CBS working structure |  |  |
| [Resolution 2 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=13) | Open programme area groups of the Commission for Basic Systems (2016) | Implemented; related to former CBS working structure |  |  |
| [Recommendation 1 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=177) | *Manual on the WMO Integrated Global Observing System* (WMO‑No. 1160), Section 2, Appendix 2.4 and attachment to Appendix 2.4 (The WIGOS Metadata Standard) (2016) | Accepted through [Resolution 10  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=138) not in force, [Resolution 1 (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=12) not in force and published |  |  |
| [Recommendation 2 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=293) | *Manual on the WMO Integrated Global Observing System* (WMO‑No. 1160), Section 8 (2016) | Accepted through [Resolution 1  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=12) not in force and published |  |  |
| [Recommendation 3 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=294) | Initial version of the *Guide to the WMO Integrated Global Observing System* (2016) | Accepted through [Resolution 2  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=127) not in force and published |  |  |
| [Recommendation 4 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=352) | Revised *Manual on the Global Observing System* (WMO-No. 544) and *Guide to the Global Observing System* (WMO‑No. 488) (2016) | Accepted through [Resolution 3  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=12#page=128) and [Resolution 5  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=129), and published |  |  |
| [Recommendation 5 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=463) | Satellite skills and knowledge for operational meteorologists (2016) | Accepted through [Resolution 4  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=129) and published as part of [Compendium of WMO Competency Frameworks](https://library.wmo.int/index.php?lvl=notice_display&id=21607) (WMO-No. 1209) |  |  |
| [Recommendation 6 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=471) | New *Guide to Aircraft-based Observations* (2016) | Accepted through [Resolution 5  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=129) and published |  |  |
| [Recommendation 7 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=619) | Amendments to code tables supporting WMO Integrated Global Observing System metadata (2016) | Accepted through [Resolution 10  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=138) and published |  |  |
| [Recommendation 8 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=726) | Recognition of TimeSeriesML for the representation of time series information (2016) | Accepted through [Resolution 9  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=135) and published |  |  |
| [Recommendation 9 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=727) | Amendment to the COLLECT-XML data representation (2016) | Accepted through [Resolution 9  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=135) and published |  |  |
| [Recommendation 10 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=728) | Ceasing maintenance of Traditional Alphanumeric Codes (2016) | Accepted through [Decision 38  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=234) and implemented |  |  |
| [Recommendation 11 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=729) | Amendments to METCE (*Modèle pour l’Echange des Informations sur le Temps, le Climat et l’Eau*) data representation (2016) | Accepted through [Resolution 9  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=135) and published |  |  |
| [Recommendation 12 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=744) | Data representations for hydrological information (2016) | Accepted through [Resolution 11  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=141) and published |  |  |
| [Recommendation 13 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=747) | Provisional operational implementation of data representation for information in support of international air navigation (2016) | Accepted through [Resolution 9  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=135) and published |  |  |
| [Recommendation 14 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=796) | Updates to the *Manual on the WMO Information System* (WMO-No. 1060) (2016) | Accepted through [Resolution 7  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=131) and published |  |  |
| [Recommendation 15 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=798) | Advice on metadata in the *Guide to the WMO Information System* (WMO-No. 1061) (2016) | Accepted through [Resolution 7  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=131) and [Resolution 12  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=142) and published |  |  |
| [Recommendation 16 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=850) | Information management practices (2016) | Accepted through [Resolution 7  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=131) not in force |  |  |
| [Recommendation 17 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=851) | Guide to the direct broadcast network (2016) | Accepted through [Resolution 7  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=131) not in force |  |  |
| [Recommendation 18 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=889) | Amendments to the *Manual on the Global Telecommunication System* (WMO-No. 386) and its attachments (2016) | Accepted through [Resolution 7  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=131) and published |  |  |
| [Recommendation 19 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=917) | Revised *Manual on the Global Data-processing and Forecasting System* (WMO-No. 485) (2016) | Accepted through [Resolution 18  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=154) and published |  |  |
| [Recommendation 20 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=977) | Introduction of new types of centre into the revised *Manual on the Global Data-processing and Forecasting System* (WMO-No. 485) (2016) | Accepted through [Resolution 18  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=154) and published |  |  |
| [Recommendation 21 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1002) | Mapping of existing Global Data-processing and Forecasting System Centres onto the corresponding designations described in the revised *Manual on the Global Data-processing and Forecasting System* (WMO-No. 485) (2016) | Accepted through [Resolution 18  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=154) and published |  |  |
| [Recommendation 22 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1003) | Designation of new Global Data-processing and Forecasting System Centres against the existing criteria/functions and their inclusion in the revised *Manual on the Global Data-processing and Forecasting System* (WMO-No. 485) (2016) | Accepted through [Resolution 18  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=154) and published |  |  |
| [Recommendation 23 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1005) | Proposed amendment to the WMO *Technical Regulations* (WMO‑No. 49), Volume I on data-processing and forecasting aspects (2016) | Accepted through [Resolution 18  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=154) and published |  |  |
| [Recommendation 24 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1011) | Impact of the revised *Manual on the Global Data-processing and Forecasting System* (WMO-No. 485) on other WMO Manuals and Guides (2016) | Accepted through [Resolution 18  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=154) and published |  |  |
| [Recommendation 25 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1014) | Review of technical regulations managed by the Commission for Basic Systems (2016) | Accepted through [Resolution 12  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=142) and implemented |  |  |
| [Recommendation 26 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1015) | Terms of reference for the Commission for Basic Systems (2016) | Obsolete, considered as part of the Terms of reference of the new Technical Commissions |  |  |
| [Recommendation 27 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1017) | World Weather Watch Programme, Public Weather Services Programme and WMO Space Programme (2016) |  |  | To be addressed in the “Programme” cluster |
| [Recommendation 28 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1025) | Submission and maintenance of WMO Integrated Global Observing System metadata in the Observing Systems Capability Analysis and Review tool by Members (2016) | Accepted through [Recommendation 11 (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=263) and [Resolution 41  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=146) | Incorporated into WIGOS Operating Plan 2020–2023 |  |
| [Recommendation 29 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1026) | Training on the surface-based observing systems component of the Observing Systems Capability Analysis and Review tool (2016) |  | Incorporated into WIGOS Operating Plan 2020–2023. |  |
| [Recommendation 30 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1028) | Standardization of observing systems installed on ships (2016) | Accepted as [Decision 23  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=213) |  |  |
| [Recommendation 31 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1029) | Impact assessment for observing system design and evolution (2016) | Accepted as [Decision 24  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=214) and the Seventh WMO Workshop on the Impact of Various Observing Systems on NWP organized. |  |  |
| [Recommendation 32 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1032) | Study to be undertaken to analyse options for optimization of the Upper-air Observations Programme of the Global Observing System (2016) | Accepted as [Decision 25  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=215) not in force |  |  |
| [Recommendation 33 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1037) | Establishment and designation of the WMO Global Data Centre for Aircraft-based Observations (2016) | Accepted as [Resolution 6  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=130) |  | The centre designation to be addressed |
| [Recommendation 34 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1038) | Definition of “space” (2016) | Implemented as part of UNTERM. |  |  |
| [Recommendation 35 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1039) | WMO Information System 2.0 Strategy (2016) | Superseded by [Resolution 8  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=133) | Incorporated in [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-IMT |  |
| [Recommendation 36 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1048) | Inter-commission Task Team on the WMO Information System (2016) | Superseded by [Resolution 8  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=133) | Incorporated in [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-IMT |  |
| [Recommendation 37 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1053) | Resources for the implementation of the seamless Data-processing and Forecasting System (2016) | Superseded by [Resolution 17  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=152) |  | To be consolidated as Cg-19 resolution |
| [Recommendation 38 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1054) | Steering Group on the Seamless Data-processing and Forecasting System – areas for consideration (2016) | Superseded by [Resolution 17  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=152) |  | To be consolidated as Cg-19 resolution |
| [Recommendation 39 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1055) | Implementation of the Competency Framework for Public Weather Services and development of public weather services provisions for *Technical Regulations* (WMO‑No. 49), Volume I | Incorporated in [WMO-No. 49](https://library.wmo.int/doc_num.php?explnum_id=10955) |  |  |
| [Recommendation 40 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1057) | Development of the Global Cryosphere Watch (2016) | Accepted through [Decision 45  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=250) | Incorporated in [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SG-Cryo |  |
| [Recommendation 41 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1058) | International exchange of snow data (2016) | Accepted through [Resolution 15  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=146) and included in GBON provisions. |  |  |
| [Recommendation 42 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1059) | Working with regional associations (2016) | Obsolete |  |  |
| [Recommendation 43 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1059) | Continuance of the work of the Executive Council Steering Group on the Seamless Data-processing and Forecasting System (2016) | Superseded by [Resolution 17  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=152) |  | To be consolidated as Cg-19 resolution |
| [Recommendation 44 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1061) | Responsibility for oversight of information about space weather and weather radar observing capabilities held in the Observing Systems Capability Analysis and Review tool (2016) | Accepted through [Decision 26  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=216) | Incorporated in [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-ON, SC-ESMP |  |
| [Recommendation 45 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505#page=1061) | Review of previous resolutions and decisions of the Executive Council and Congress relative to the Commission for basic systems (2016) |  | *Addressed through this exercise and regular reviews of SERCOM and INFCOM resolutions and recommendations* |  |

#### Commission for Climatology (CCl)

| Code | Title | Fully implemented, superseded (resolutions) or accepted (recommendations) | Fully or in part incorporated in a SERCOM or INFCOM instrument, or other instrument | Needs  to be addressed |
| --- | --- | --- | --- | --- |
| [Resolution 1 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=9) | Approval of the report of the president of the Commission for Climatology (2018) | Sessional resolution, implemented |  |  |
| [Resolution 2 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=13) | Strategic orientation of the Commission for Climatology (2018) | Superseded by [Resolution 7 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=41) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI |  |
| [Resolution 3 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=16) | Enhancing WMO Regional Climate Centre operations (2018) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI; [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-ESMP |  |
| [Resolution 4 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=16) | Climate data modernization (2018) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI; [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-IMT |  |
| [Resolution 5 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=18) | Systematic approach to climate service delivery (2018) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI; |  |
| [Resolution 6 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=19) | Contribution to WMO support for multi-hazard early warning systems (2018) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI |  |
| [Resolution 7 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=19) | Enhancing the WMO Statement on the State of the Global Climate (2018) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI |  |
| [Resolution 8 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=21) | Climate information for policy processes and decision support (2018) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI |  |
| [Resolution 9 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=21) | Tailored and seamless climate services (2018) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI |  |
| [Resolution 10 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=22) | Working structure of the Commission for Climatology (2018–2022) (2018) | Superseded by [Resolution 7 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=41) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AGR |  |
| [Resolution 11 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=36) | Review of previous resolutions and recommendations of the Commission for Climatology (2018) |  | *Addressed through this exercise and regular reviews of SERCOM and INFCOM resolutions and recommendations* |  |
| [Recommendation 1 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=40) | Review of Executive Council resolutions and decisions concerning the Commission for Climatology (2018) |  | See document [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) |  |
| [Recommendation 2 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=41) | Strengthening the integration and coordination of WMO contributions to the provision of policy- and decision-supporting climate information and services (2018) | Superseded by [Resolution 20  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Incorporated in [Resolution 4  (EC-71)](https://library.wmo.int/doc_num.php?explnum_id=10248#page=12): CCP |  |
| [Recommendation 3 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=43) | Continuation and strengthening of the work of the Commission for Climatology (2018) | Superseded by [Resolution 20  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI, [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-ON, SC-MINT, SC-IMT and  SC-ESMP, [Resolution 4  (EC-71)](https://library.wmo.int/doc_num.php?explnum_id=10248#page=12): CCP |  |
| [Recommendation 4 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=44) | Climate Services Information System technical reference (2018) | Superseded by [Resolution 20  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI |  |
| [Recommendation 5 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=45) | Trial phase for the international exchange of daily climate observations (2018) | Superseded by [Resolution 20  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Incorporated in [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-IMT |  |
| [Recommendation 6 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=46) | Good practices in the use and interpretation of climate change projections on regional and national scales (2018) | Superseded by [Resolution 20  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI |  |
| [Recommendation 7 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=47) | Enhancing operational climate monitoring using the WMO standard infrastructure and regulatory framework (2018) | Superseded by [Resolution 20  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI |  |
| [Recommendation 8 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=47) | Global Seasonal Climate Update operationalization (2018) | Superseded by [Resolution 20  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI, [Resolution 1 (INFCOM-1):](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18)  SC-ESMP |  |
| [Recommendation 9 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=48) | Integrated capacity development process for the Climate Services Information System (2018) | Superseded by [Resolution 20  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Incorporated in Resolution 1 (SERCOM-1):  SC-CLI, [Resolution 4  (EC-71)](https://library.wmo.int/doc_num.php?explnum_id=10248#page=12): CCP |  |
| [Recommendation 10 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=49) | Human resource development through implementation of competencies for provision of climate services (2018) | Superseded by [Resolution 20  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI, [Resolution 4  (EC-71)](https://library.wmo.int/doc_num.php?explnum_id=10248#page=12): CCP |  |
| [Recommendation 11 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=50) | Approval of the updated version of the third edition of the *Guide to Climatological Practices* (WMO-No. 100) (2018) | Superseded by [Resolution 20  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI |  |
| [Recommendation 12 (CCl-17)](https://library.wmo.int/doc_num.php?explnum_id=4611#page=50) | National focal points of the Climate Services Information System (2018) | Superseded by [Resolution 20  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=90) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-CLI |  |

#### Commission for Hydrology (CHy)

| Code | Title | Fully implemented, superseded (resolutions) or accepted (recommendations) | Fully or in part incorporated in a SERCOM or INFCOM instrument, or other instrument | Needs  to be addressed |
| --- | --- | --- | --- | --- |
| [Resolution 1 (CHy-XIII)](https://library.wmo.int/doc_num.php?explnum_id=4926#page=23) | WMO Quality Management Framework – Hydrology (2008) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-HYD; [Resolution 1 (INFCOM-1):](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18)  SC-ON |  |
| [Resolution 1 (CHy-14)](https://library.wmo.int/doc_num.php?explnum_id=5418#page=43) | Contribution of the Commission to the Global Framework for Climate Services (2012) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-HYD (Activities 6  and 7) |  |
| [Resolution 5 (CHy-14)](https://library.wmo.int/doc_num.php?explnum_id=5418#page=54) | Establishment of an Integrated Drought Management Programme (2012) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-HYD (Activity 8), SC-AGR,  SC-DRR |  |
| [Resolution 1 (CHy-15)](https://library.wmo.int/doc_num.php?explnum_id=3404#page=35) | Response of the Commission for Hydrology to decisions of Congress of relevance to hydrology and water resources management (2016) | Superseded by [Resolution 25  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=103) |  |  |
| [Resolution 2 (CHy-15)](https://library.wmo.int/doc_num.php?explnum_id=3404#page=36) | Further implementation of the Quality Management Framework – Hydrology and the Commission for Hydrology strategy on regulatory material (2016) |  | Recommendation 1.1 of HCP-1.  Quality Management Framework incorporated in [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-ON |  |
| [Resolution 3 (CHy-15)](https://library.wmo.int/doc_num.php?explnum_id=3404#page=38) | Project for the assessment of the performance of flow measurement instruments and techniques (2016) |  | New terms of reference of the project management group were adopted by [INFCOM MG-T11](https://wmoomm.sharepoint.com/:b:/r/sites/wmocpdb/eve_activityarea/Commission%20for%20Observation,%20Infrastructure%20and%20Information%20Systems%20(INFCOM)_645a2c7d-45c4-eb11-bacc-00224881ad65/Management%20Group/Reports/INFCOM-MG-T11-20211118-final.pdf?csf=1&web=1) in December 2021, *[Czechia]* Recommendation 2.1 of HCP-1 |  |
| [Resolution 4 (CHy-15)](https://library.wmo.int/doc_num.php?explnum_id=3404#page=40) | Governance of the Global Hydrometry Support Facility (2016) |  | Superseded by [Resolution 5  (Cg-Ext(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=155), *[Czechia]*, Recommendation 3.1 of HCP-1 |  |
| [Resolution 5 (CHy-15)](https://library.wmo.int/doc_num.php?explnum_id=3404#page=43) | Data operations and management (2016) |  | Recommendation 4.6 of HCP-1.  Data operation incorporated in WMO Action Plan for Hydrology through [Resolution 4  (Cg-Ext.(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) |  |
| [Resolution 6 (CHy-15)](https://library.wmo.int/doc_num.php?explnum_id=3404#page=45) | The Flood Forecasting Initiative and the contribution of the Commission for Hydrology to the Disaster Risk Management Programme (2016) |  | The terms of reference of the FFI-AG were renewed through [Resolution 3  (EC-72)](https://library.wmo.int/doc_num.php?explnum_id=10504#page=15) |  |
| [Resolution 7 (CHy-15)](https://library.wmo.int/doc_num.php?explnum_id=3404#page=46) | Contribution of the Commission for Hydrology to the future integrated and seamless WMO Data-processing and Forecasting System (2016) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-HYD (Activity 6) |  |
| [Resolution 8 (CHy-15)](https://library.wmo.int/doc_num.php?explnum_id=3404#page=47) | Development of a pilot WMO Global Hydrological Status and Outlook System (2016) |  | Recommendation 3.1 of HCP-1.  HydroSOS incorporated in WMO Action Plan for Hydrology through [Resolution 4  (Cg-Ext.(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) and [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-ESMP |  |
| [Resolution 9 (CHy-15)](https://library.wmo.int/doc_num.php?explnum_id=3404#page=49) | Capacity-building in hydrology and water resources management (2016) |  | Recommendation 7.1 of HCP-1.  Capacity Development incorporated in WMO Action Plan for Hydrology through [Resolution 4  (Cg-Ext.(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) and [Resolution 3 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=47) and [Resolution 3 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=43) |  |
| [Resolution 10 (CHy-15)](https://library.wmo.int/doc_num.php?explnum_id=3404#page=55) | Work programme and structure of the Commission for Hydrology (2016) | Implemented; related to former CHy working structure |  |  |
| [Resolution 11 (CHy-15)](https://library.wmo.int/doc_num.php?explnum_id=3404#page=61) | Review of previous resolutions and recommendations of the Commission for Hydrology (2016) | Superseded by [Resolution 25  (Cg 18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=103) and HCP-1 recommendations (Annex 5) | *Addressed through this exercise and regular reviews of SERCOM and INFCOM resolutions and recommendations* |  |
| [Recommendation 1 (CHy-15)](https://library.wmo.int/doc_num.php?explnum_id=3404#page=62) | Data representations for hydrological information (2016) | Accepted through [Resolution 11  (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=141) and published | Incorporated in [Resolution 24 (Cg-18):](https://library.wmo.int/doc_num.php?explnum_id=9827#page=98) Hydrological Assembly, [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-IMT |  |
| [Recommendation 2 (CHy-15)](https://library.wmo.int/doc_num.php?explnum_id=3404#page=66) | Contribution of the Commission for Hydrology to the formulation of the WMO Strategic Plan 2020‑2023 (2016) | Accepted through [Decision 49 (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=261); [Resolution 24  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=98) and superseded by [Resolution 4 ( Cg-Ext.(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) |  |  |
| [Recommendation 3 (CHy-15)](https://library.wmo.int/doc_num.php?explnum_id=3404#page=67) | Review of the resolutions of the Executive Council based on previous recommendations of the Commission for Hydrology (2016) | Accepted through [Decision 49 (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=261) | *Addressed through this exercise and regular reviews of SERCOM and INFCOM resolutions and recommendations* |  |
| [Recommendation 1 (CHy‑Ext.(2019))](https://library.wmo.int/doc_num.php?explnum_id=5834#page=10) | WMO vision and strategy for hydrology (2019) | Superseded by [Resolution 4  (Cg-Ext.(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=36) |  |  |
| [Recommendation 2  (CHy-Ext.(2019))](https://library.wmo.int/doc_num.php?explnum_id=5834#page=13) | Integration of hydrological activities into the new WMO structure (2019) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-HYD and [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-ON, SC-MINT, SC-IMT and  SC-ESMP |  |

#### Commission for Instruments and Methods of Observation (CIMO)

| Code | Title | Fully implemented, superseded (resolutions) or accepted (recommendations) | Fully or in part incorporated in a SERCOM or INFCOM instrument, or other instrument | Needs  to be addressed |
| --- | --- | --- | --- | --- |
| [Resolution 5 (CIMO-XV)](https://library.wmo.int/doc_num.php?explnum_id=4939#page=45) | Generic terms of reference of CIMO testbeds and lead centres (2010) | Superseded by [Resolution 10 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=152) |  |  |
| [Resolution 1 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=9) | Governance and traceability of atmospheric longwave irradiance (2018) | To be included in draft Recommendation 6.2(5)/1 (INFCOM-2) |  |  |
| [Resolution 2 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=10) | Establishment of a new Commission for Instruments and Methods of Observation Disaster Risk Reduction Focal Point (2018) | Implemented; related to former CIMO working structure |  |  |
| [Resolution 3 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=11) | Coordination of the WMO Global Campus Initiative with the Commission for Instruments and Methods of Observation activities (2018) | Implemented | Implemented in SC-MINT work |  |
| [Resolution 4 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=12) | Commission for Instruments and Methods of Observation contribution to the pre‑operational phase of the Global Cryosphere Watch (2018) | Implemented; related to former CIMO working structure |  |  |
| [Resolution 5 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=13) | Vision for the future of environmental measurements (2018) |  | Incorporated in [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-MINT, as working principles |  |
| [Resolution 6 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=15) | Working structure of the Commission for Instruments and Methods of Observation (2018) | Implemented; related to former CIMO working structure |  |  |
| [Resolution 7 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=27) | Commission for Instruments and Methods of Observation Management Group (2018) | Implemented; related to former CIMO working structure |  |  |
| [Resolution 8 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=30) | Gender equality and empowerment of women (2018) | Implemented; related to former CIMO working structure |  |  |
| [Resolution 9 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=31) | Review of previous resolutions and recommendations of the Commission for Instruments and Methods of Observation (2018) |  | *Addressed through this exercise and regular reviews of SERCOM and INFCOM resolutions and recommendations* |  |
| [Recommendation 13 (CIMO-XI)](https://library.wmo.int/doc_num.php?explnum_id=8753#page=46) | Intercomparisons of instruments (1994) |  | Incorporated in [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-MINT |  |
| [Recommendation 1 (CIMO-XII)](https://library.wmo.int/doc_num.php?explnum_id=8889#page=39) | Possible conflicts with external standardization organizations (1998) |  | Incorporated in [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-MINT |  |
| [Recommendation 5 (CIMO-XIV)](https://library.wmo.int/doc_num.php?explnum_id=4952#page=47) | Development of UV Calibration Centres (2006) | Implemented as the World Calibration Centre for UV  (WCC-UV) |  |  |
| [Recommendation 1 (CIMO-XV)](https://library.wmo.int/doc_num.php?explnum_id=4939#page=49) | Regional Instrument Centre capabilities and communication with Members (2010) | To be included in draft Recommendation 6.2(3)/1 (INFCOM-2) |  |  |
| [Recommendation 1 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=62) | Capitalizing on the WMO Solid Precipitation Intercomparison Experiment (2018) | Accepted through [Resolution 43  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=149) |  |  |
| [Recommendation 2 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=64) | Terms of reference for Regional Instrument Centres (2018) | Accepted through [Resolution 43  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=149) |  | To be incorporated in the Cg-19 cluster on RIC |
| [Recommendation 3 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=66) | Nomination process for Regional Instrument Centres (2018) | Accepted through [Resolution 43  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=149) and superseded by [Resolution 17  (EC-73)](https://library.wmo.int/doc_num.php?explnum_id=11008#page=335) |  |  |
| [Recommendation 4 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=68) | Title and structure of the *Guide to Meteorological Instruments and Methods of Observation* (WMO-No. 8) (2018) | Accepted through [Resolution 43  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=149) and implemented |  |  |
| [Recommendation 5 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=69) | Publication and translation of the *Guide to Instruments and Methods of Observation* (WMO-No. 8), 2018 Edition (2018) | Accepted through [Resolution 43  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=149) |  | To be published |
| [Recommendation 6 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=69) | Improvement of traceability of measurement and calibration results (2018) | Accepted through [Resolution 43  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=149) | Incorporated in [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-MINT |  |
| [Recommendation 7 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=70) | Development of e‑training tools utilizing the new web-based edition of the *International Cloud Atlas* (WMO-No. 407) (2018) | Accepted through [Resolution 43  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=149) and published |  |  |
| [Recommendation 8 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=70) | Approval of common World Meteorological Organization–International Organization for Standardization standards (2018) | Accepted through [Resolution 43  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=149) | To be addressed in SC-MINT work |  |
| [Recommendation 9 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=73) | Technical Conferences on Meteorological and Environmental Instruments and Methods of Observation (2018) | Accepted through [Resolution 43  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=149) | See draft decision 8/1 (INFCOM-2) |  |
| [Recommendation 10 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=74) | Upper-air instrument intercomparison (2018) | Accepted through [Resolution 43  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=149) | Incorporated in [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-MINT |  |
| [Recommendation 11 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=82) | Continuity of WMO activities related to instruments and methods of observation (2018) | Accepted through [Resolution 43  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=149) | Incorporated in [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-MINT |  |
| [Recommendation 12 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=83) | Continuation of the Inter-programme Expert Team on Operational Weather Radars and the Inter-programme Expert Team on Aircraft-based Observations (2018) | Accepted through [Resolution 43  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=149) | Incorporated in [Resolution 1 (INFCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18):  SC-MINT and  SC-ON |  |
| [Recommendation 13 (CIMO-17)](https://library.wmo.int/doc_num.php?explnum_id=5683#page=84) | Review of resolutions of the Executive Council related to the Commission for Instruments and Methods of Observation (2018) | Accepted through [Resolution 43  (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=149) | *Addressed through this exercise and regular reviews of SERCOM and INFCOM resolutions and recommendations* |  |

#### Joint WMO–IOC Technical Commission for Oceanography and Marine Meteorology (JCOMM)

| Code | Title | Fully implemented, superseded (resolutions) or accepted (recommendations) | Fully or in part incorporated in a SERCOM or INFCOM instrument, or other instrument | Needs  to be addressed |
| --- | --- | --- | --- | --- |
| [Resolution 1 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528#page=12) | Review of previous resolutions and recommendations of the Joint WMO–IOC Technical Commission for Oceanography and Marine Meteorology (2017) |  | *Addressed through this exercise and regular reviews of SERCOM and INFCOM resolutions and recommendations* |  |
| [Resolution 2 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528#page=12) | Continuation of Joint WMO–IOC Commission for Oceanography and Marine Meteorology and Commission for Agricultural Meteorology Joint Task Team on Weather, Climate and Fisheries (2017) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-AGR (lead) supported by  SC-MMO, SC-CLI, WCRP and GOOS |  |
| [Resolution 3 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=14) | Gender equality and empowerment of women (2017) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14), [Resolution 3 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=47) and [Decision 13 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=133) |  |
| [Resolution 4 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=15) | The Joint WMO–IOC Commission for Oceanography and Marine Meteorology 10‑year Vision (2017) | Superseded by [Resolution 7 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=41) | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-MMO; [Resolution 1 (INFCOM-1):  SG-OOIS](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18) |  |
| [Resolution 5 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=16) | Management Committee of the Joint WMO–IOC Technical Commission for Oceanography and Marine Meteorology (2017) | Implemented; related to former JCOMM working structure |  |  |
| [Resolution 6 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=19) | Observations Programme Area (2017) |  | Incorporated in the working structure of the Global Ocean Observing System (GOOS) and in Draft Recommendation 5.2 (INFCOM-2): AG-Ocean | To ensure Observations Coordination Group (OCG) is taken care of by IOC-UNESCO |
| [Resolution 7 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528#page=25) | Data Management Programme Area (2017) |  | Incorporated in [Resolution 1 (INFCOM-1):](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18)  SC-IMT |  |
| [Resolution 8 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528#page=32) | Services and Forecasting Systems Programme Area (2017) |  | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-MMO (services); [Resolution 1 (INFCOM-1):](https://library.wmo.int/doc_num.php?explnum_id=11197#page=18)  SC-ESMP (forecasting) |  |
| [Resolution 9 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528#page=43) | Other coordinators of the Commission (2017) | Implemented; related to former JCOMM working structure |  |  |
| [Recommendation 1 (CMM-XI)](https://library.wmo.int/doc_num.php?explnum_id=8738/#page=42) | Marine Meteorological Services Monitoring Programme (1993) | Accepted through [Resolution 10  (EC-XLV)](https://library.wmo.int/doc_num.php?explnum_id=6037#page=65), no longer in force |  |  |
| [Recommendation 12 (CMM-XI)](https://library.wmo.int/doc_num.php?explnum_id=8738/#page=81) | Use of Beaufort equivalent scale of wind force (1993) | Accepted through [Resolution 10  (EC-XLV)](https://library.wmo.int/doc_num.php?explnum_id=6037#page=65), no longer in force |  |  |
| [Recommendation 4 (CMM-XII)](https://library.wmo.int/doc_num.php?explnum_id=8856/#page=71) | Wave forecast verification scheme (1997) | Accepted through [Resolution 8  (EC-XLIX)](https://library.wmo.int/doc_num.php?explnum_id=5908#page=67), no longer in force | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-MMO |  |
| [Recommendation 6 (CMM-XII)](https://library.wmo.int/doc_num.php?explnum_id=8856/#page=76) | Data buoys in support of meteorological and oceanographic operations and research (1997) | Accepted through [Resolution 8  (EC-XLIX)](https://library.wmo.int/doc_num.php?explnum_id=5908#page=67), no longer in force |  |  |
| [Recommendation 2 (JCOMM-I)](https://library.wmo.int/doc_num.php?explnum_id=8974/#page=105) | Resources for ship‑based observations (2001) | Accepted through [Resolution 7  (EC-LIV)](https://library.wmo.int/doc_num.php?explnum_id=5865#page=92), no longer in force |  |  |
| [Recommendation 5 (JCOMM-I)](https://library.wmo.int/doc_num.php?explnum_id=8974/#page=107) | The Global Sea-level Observing System (GLOSS) (2001) | Accepted through [Resolution 7  (EC-LIV)](https://library.wmo.int/doc_num.php?explnum_id=5865#page=92), no longer in force |  |  |
| [Recommendation 12 (JCOMM-I)](https://library.wmo.int/doc_num.php?explnum_id=8974/#page=131) | Working arrangements between WMO and the International Mobile Satellite Organization (IMSO) (2001) | Accepted through [Resolution 7  (EC-LIV)](https://library.wmo.int/doc_num.php?explnum_id=5865#page=92), no longer in force |  |  |
| [Recommendation 3 (JCOMM-II)](https://library.wmo.int/doc_num.php?explnum_id=9081/#page=101) | Consumables for  ship-based observations (2005) | Accepted through [Resolution 6  (EC-LVIII)](https://library.wmo.int/doc_num.php?explnum_id=4964#page=127), no longer in force |  |  |
| [Recommendation 5 (JCOMM-II)](https://library.wmo.int/doc_num.php?explnum_id=9081/#page=103) | IOC Project Office for IODE (2005) | Accepted through [Resolution 6  (EC-LVIII)](https://library.wmo.int/doc_num.php?explnum_id=4964#page=127), no longer in force |  |  |
| [Recommendation 12 (JCOMM-II)](https://library.wmo.int/doc_num.php?explnum_id=9081/#page=127) | JCOMM support for marine multi-hazard warning systems, including tsunamis (2005) | Accepted through [Resolution 6  (EC-LVIII)](https://library.wmo.int/doc_num.php?explnum_id=4964#page=127) no longer in force | SC-MMO leads the marine MHEWS at WMO, with support from SC-HYD and SC-DRR and formal links to the IOC tsunami activities |  |
| [Recommendation 13 (JCOMM-II)](https://library.wmo.int/doc_num.php?explnum_id=9081/#page=128) | The Global Earth Observation System of Systems (2005) | Accepted through [Resolution 6  (EC-LVIII)](https://library.wmo.int/doc_num.php?explnum_id=4964#page=127), no longer in force |  |  |
| [Recommendation 1 (JCOMM-III)](https://library.wmo.int/doc_num.php?explnum_id=5598/#page=112) | Establishment of WMO/IOC Regional Marine Instrument Centres (2009) | Accepted through [Resolution 4  (EC-LXII)](https://library.wmo.int/doc_num.php?explnum_id=4989#page=121), no longer in force |  |  |
| [Recommendation 2 (JCOMM-III)](https://library.wmo.int/doc_num.php?explnum_id=5598/#page=115) | New terms of reference for an expanded Joint WMO/IOC Technical Commission for Oceanography and Marine Meteorology In Situ Observations Programme Support Centre (2009) | Accepted through [Resolution 4  (EC-LXII)](https://library.wmo.int/doc_num.php?explnum_id=4989#page=121), no longer in force |  |  |
| [Recommendation 4 (JCOMM-III)](https://library.wmo.int/doc_num.php?explnum_id=5598/#page=119) | Development of data management standards (2009) | Accepted through [Resolution 4  (EC-LXII)](https://library.wmo.int/doc_num.php?explnum_id=4989#page=121), no longer in force |  |  |
| [Recommendation 5 (JCOMM-III)](https://library.wmo.int/doc_num.php?explnum_id=5598/#page=120) | Guide to Operational Ocean Forecasting Systems (2009) |  | The responsibility for this sits within GOOS, and managed by the IOC. SERCOM (SC-MMO) and INFCOM are expected to support the IOC in the drafting |  |
| [Recommendation 6 (JCOMM-III)](https://library.wmo.int/doc_num.php?explnum_id=5598/#page=122) | Integrated Storm Surge Watch Scheme | Accepted through [Resolution 4  (EC-LXII)](https://library.wmo.int/doc_num.php?explnum_id=4989#page=121), no longer in force | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-MMO |  |
| [Recommendation 15 (JCOMM-III)](https://library.wmo.int/doc_num.php?explnum_id=5598/#page=177) | Terms of reference for an end-to-end external review of the Joint WMO/IOC Technical Commission for Oceanography and Marine Meteorology (2009) | Accepted through [Resolution 4  (EC-LXII)](https://library.wmo.int/doc_num.php?explnum_id=4989#page=121), no longer in force (obsolete after [Resolution 7 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=41)) |  |  |
| [Recommendation 1 (JCOMM-IV)](https://library.wmo.int/doc_num.php?explnum_id=7777/#page=81) | Provision of Ocean Instrument/Platform Metadata (2012) | Accepted through [Resolution 2  (EC-64)](https://library.wmo.int/doc_num.php?explnum_id=5103#page=90), no longer in force |  |  |
| [Recommendation 2 (JCOMM-IV)](https://library.wmo.int/doc_num.php?explnum_id=7777/#page=82) | Marine Climate Data System (MCDS) (2012) | Accepted through [Resolution 2  (EC-64)](https://library.wmo.int/doc_num.php?explnum_id=5103#page=90), no longer in force |  |  |
| [Recommendation 3 (JCOMM-IV)](https://library.wmo.int/doc_num.php?explnum_id=7777/#page=89) | The IODE Ocean Data Portal (IODE ODP) (2012) | Accepted through [Resolution 2  (EC-64)](https://library.wmo.int/doc_num.php?explnum_id=5103#page=90), no longer in force |  |  |
| [Recommendation 4 (JCOMM-IV)](https://library.wmo.int/doc_num.php?explnum_id=7777/#page=90) | Enhancement of Capability for Marine Environmental Emergencies (2012) | Accepted through [Resolution 2  (EC-64)](https://library.wmo.int/doc_num.php?explnum_id=5103#page=90), no longer in force | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-MMO |  |
| [Recommendation 5 (JCOMM-IV)](https://library.wmo.int/doc_num.php?explnum_id=7777/#page=94) | Quality Management Implementation for JCOMM (2012) | Accepted through [Resolution 2  (EC-64)](https://library.wmo.int/doc_num.php?explnum_id=5103#page=90), no longer in force | Overall guidance provided by [Resolution 7  (Cg-17)](https://library.wmo.int/doc_num.php?explnum_id=3138#page=261) |  |
| [Recommendation 1 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=109) | Review of relevant resolutions of the governing bodies of the World Meteorological Organization and the Intergovernmental Oceanographic Commission (2017) | Accepted through [Resolution 10  (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=35), no longer in force | *Addressed through this exercise and regular reviews of SERCOM and INFCOM resolutions and recommendations* |  |
| [Recommendation 2 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=109) | The Intergovernmental Oceanographic Commission Ocean Data and Information System (2017) | Accepted through [Decision 21 (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=188) |  |  |
| [Recommendation 3 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=110) | Ocean data standards and best practices (2017) | Accepted through [Decision 22 (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=188) |  |  |
| [Recommendation 4 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=111) | Establishment of Data Acquisition Centres, Data Assembly Centres and Centres for Marine Meteorological and Oceanographic Climate Data within the new Marine Climate Data System (2017) | Accepted through [Decision 23  (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=188), no longer in force; designation is completed |  |  |
| [Recommendation 5 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=113) | Education and outreach strategy for data buoy vandalism (2017) | Accepted through [Decision 28 (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=193) |  |  |
| [Recommendation 6 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=114) | Management of the Joint WMO–IOC Technical Commission for Oceanography and Marine Meteorology In Situ Observations Programme Support Centre (2017) | Accepted through [Decision 29 (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=194), no longer in force |  |  |
| [Recommendation 7 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=120) | Long-term ship observing stations (2017) | Accepted through [Decision 30 (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=194) |  |  |
| [Recommendation 8 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=121) | Changes to ship masking schemes (2017) | Accepted through [Resolution 25  (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=85) |  |  |
| [Recommendation 9 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=122) | Reducing the number of voluntary observing ship classifications (2017) | Accepted through [Decision 31 (EC-70),](https://library.wmo.int/doc_num.php?explnum_id=4981#page=195) no longer in force |  |  |
| [Recommendation 10 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=123) | Freezing the *International List of Selected, Supplementary and Auxiliary Ships (*WMO‑No. 47) and moving to WMO Integrated Global Observing System metadata structures (2017) | Accepted through [Decision 32 (EC-70),](https://library.wmo.int/doc_num.php?explnum_id=4981#page=195) no longer in force |  |  |
| [Recommendation 11 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=124) | Negotiation of satellite communications tariffs (2017) | Accepted through [Decision 24 (EC-70),](https://library.wmo.int/doc_num.php?explnum_id=4981#page=189) no longer in force |  |  |
| [Recommendation 12 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=125) | Revised *Manual on Marine Meteorological Services*  (WMO-No. 558), Volume I – Global Aspects (2017) | Accepted through [Resolution 10  (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=35), no longer in force |  |  |
| [Recommendation 13 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=127) | Revised *Guide to Marine Meteorological Services* (WMO-No. 471) (2017) | Accepted through [Resolution 10  (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=35), no longer in force | Incorporated in [Resolution 1 (SERCOM-1)](https://library.wmo.int/doc_num.php?explnum_id=10767#page=14):  SC-MMO |  |
| [Recommendation 14 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=129) | Criteria for, and designation of, marine-related Global Data-processing and Forecasting System centres (2017) | Accepted through [Resolution 26  (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=86), no longer in force |  |  |
| [Recommendation 15 (JCOMM-5)](https://library.wmo.int/doc_num.php?explnum_id=4528/#page=133) | Update of the *Manual on Sea-level Measurement and Interpretation*, Volume V – Radar Gauges (IOC Manuals and Guides No. 14, Volume V; JCOMM Technical Report No. 89; 2016) (2017) | Accepted through [Resolution 10  (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=35), no longer in force |  |  |

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