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| WEATHER CLIMATE WATER | **World Meteorological Organization**  **WORLD METEOROLOGICAL CONGRESS**  **Nineteenth Session** 22 May to 2 June 2023, Geneva | **Cg-19/Doc. 4.2(6)** |
| Submitted by: P/INFCOM  14.IV.2023  **DRAFT 1** |

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

**AGENDA ITEM 4.2: Earth system observations and predictions**

# WMO Integrated Processing and Prediction System (WIPPS)

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| **Summary** |
| **Document presented by:** President of the Commission for Observation, Infrastructure and Information Systems (INFCOM)  **Strategic objective 2020–2023:** 2.3 Enable access and use of numerical analysis and Earth system prediction products at all temporal and spatial scales from the WMO seamless Global Data-processing and Forecasting System  **Financial and administrative implications**: within the parameters of the Strategic and Operational Plans 2020–2023, will be reflected in the Strategic and Operational Plans  2024–2027.  **Key implementers:** INFCOM, in consultation with SERCOM, RB and RAs  **Time frame:** 2023–2027  **Action expected:** review and approve the proposed draft resolution |

# GENERAL CONSIDERATIONS

### Introduction

1. The World Meteorological Congress decided to initiate a process for the gradual establishment of a future enhanced integrated and seamless WMO Data-processing and Forecasting System (GDPFS) through [Resolution 11 (Cg-17)](https://library.wmo.int/doc_num.php?explnum_id=3138#page=269).
2. The seamless GDPFS has been developed according to the recommendation and key priority areas identified in the Seamless GDPFS Collaborative Framework ([Resolution 58 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=193)).

### WMO Integrated Processing and Prediction System (WIPPS) and its Roadmap

1. Responding to the request from the Executive Council (EC) ([Decision 40 (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=211)), the Commission for Observation, Infrastructure and Information Systems (INFCOM) decided to adopt “WMO Integrated Processing and Prediction System (WIPPS)” as the new name and acronym of the future GDPFS ([Recommendation 23 (INFCOM-2)](https://library.wmo.int/doc_num.php?explnum_id=11575#page=1027)) and replace S/GDPFS with WIPPS. The Seamless GDPFS Roadmap, presented as [INFCOM-2/INF. 6.4(1)](https://meetings.wmo.int/INFCOM-2/_layouts/15/WopiFrame.aspx?sourcedoc=/INFCOM-2/InformationDocuments/INFCOM-2-INF06-4(1)-SEAMLESS-GDPFS-ROADMAP_en.docx&action=default), was also associated with this decision, INFCOM proposed to rename the Seamless GDPFS Collaborative Framework with the WIPPS Collaborative Framework.
2. The [*Technical Regulations*](https://library.wmo.int/index.php?lvl=notice_display&id=14073#.ZCvx-HZBw2w) (WMO-No. 49), the [*Manual on the Global Data‑processing and Forecasting System*](https://library.wmo.int/index.php?lvl=notice_display&id=12793#.ZCvybHZBw2w) (WMO-No. 485) and the [*Guide on the Global Data‑processing System (GDPS)*](https://library.wmo.int/index.php?lvl=notice_display&id=6832#.ZCvy33ZBw2w) (WMO-No. 305) need to be amended to replace GDPFS with WIPPS accordingly, preferably by INFCOM-3 (2024). Meanwhile, one sentence can be added to the GENERAL part in the Introduction section of a new *Guide to the Global Data-processing and Forecasting System* (WMO-No. 305), which was approved by the Executive Council ([Resolution 3.2(12)/1 (EC-76)](https://meetings.wmo.int/EC-76/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-76-d03-2(12)-RENEWAL-GUIDE-GDPFS-approved_en.docx?Web=1)), to inform that WIPPS is adopted as the new name of the future GDPFS. The draft resolution adopted as the annex of [Recommendation 29 (INFCOM-2)](https://library.wmo.int/doc_num.php?explnum_id=11575#page=1101) was revised accordingly.
3. INFCOM developed the WIPPS Roadmap till 2026 to accelerate the evolution of WIPPS.

**Consolidation of relevant resolutions and decisions**

1. The seamless GDPFS has been discussed since 2015 (Cg-17) and several relevant resolutions, decisions and recommendations of Congress, EC and even the Commission for Basic Systems (CBS) remain open. Following the guidance from EC ([Resolution 8 (EC-75)](https://library.wmo.int/doc_num.php?explnum_id=11550#page=33)), those will be consolidated into a new resolution of Cg-19.

**Expected action**

1. Based on the above, the Congress may wish to adopt draft resolution 4.2(6)/1 (Cg‑19) along the following lines.

# DRAFT RESOLUTION

## Draft Resolution 4.2(6)/1 (Cg-19)

## WMO Integrated Processing and Prediction System (WIPPS)

THE WORLD METEOROLOGICAL CONGRESS,

**Recalling:**

1. [Resolution 11 (Cg-17)](https://library.wmo.int/doc_num.php?explnum_id=3138#page=269) – Towards a future enhanced integrated and seamless Data‑processing and Forecasting System,
2. [Resolution 17 (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=152) – Seamless Data‑processing and Forecasting System,
3. [Decision 40 (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=211) – Further development of a seamless Global Data-processing and Forecasting System Implementation Plan,
4. [Resolution 58 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827#page=193) – Future Integrated Seamless Global Data-processing and Forecasting System collaborative framework,
5. [Resolution 8 (EC-75)](https://library.wmo.int/doc_num.php?explnum_id=11550#page=33) – Review of previous resolutions and decisions of the Executive Council, requesting consolidation of relevant resolutions and decisions,
6. [Resolution 3.2(12)/1 (EC-76)](https://meetings.wmo.int/EC-76/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-76/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-76-d03-2(12)-RENEWAL-GUIDE-GDPFS-approved_en.docx&action=default) - Renewal of the *Guide on the* *Global Data-processing System* (WMO-No. 305),

**Recalling also:**

1. [Decision 27 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505/#page=141/) – Implementation Plan of the future seamless Data‑processing and Forecasting System,
2. [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,
3. [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,
4. [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,

**Having examined** [Recommendation 23 (INFCOM-2)](https://library.wmo.int/doc_num.php?explnum_id=11575#page=1027) – Seamless Global Data-processing and Forecasting System Roadmap with the new name of the Global Data-processing and Forecasting System,

**Welcomes** the progress of implementation of Seamless GDPFS following the Seamless GDPFS Collaborative Framework (Annex of [Resolution 58 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=194));

**Takes note of:**

(1) The decision by the Commission for Observation, Infrastructure and Information Systems (INFCOM) to adopt WIPPS as the new name of the future GDPFS;

(2) The development of the WIPPS Roadmap (2022–2026) as provided in [Cg-19/INF. 4.2(6)](https://meetings.wmo.int/Cg-19/_layouts/15/WopiFrame.aspx?sourcedoc=/Cg-19/InformationDocuments/Cg-19-INF04-2(6)-WIPPS-ROADMAP_en.docx&action=default);

**Decides:**

(1) To rename the Seamless GDPFS Collaborative Framework (Annex of [Resolution 58 (Cg‑18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=194)) as the WIPPS Collaborative Framework;

(2) To amend the *Guide to the Global Data-processing and Forecasting System* (WMO‑No. 305) as provided in [annex](#_Annex_1_to) to the present resolution;

**Encourages** INFCOM to accelerate the evolution of WIPPS following the WIPPS Roadmap and WIPPS Collaborative Framework;

**Requests** INFCOM to prepare the draft amendment to the [*Technical Regulations*](https://library.wmo.int/index.php?lvl=notice_display&id=14073#.ZCvx-HZBw2w) (WMO‑No. 49), the [*Manual on the Global Data-processing and Forecasting System*](https://library.wmo.int/index.php?lvl=notice_display&id=12793#.ZCvybHZBw2w) (WMO‑No. 485) and the *Guide to GDPFS* (WMO-No. 305) to replace GDPFS with WIPPS;

**Affirms** the authority of the Executive Council to adopt the new revised Technical Regulations, Manual and Guide as they will be completed after the time of Cg-19 and before Cg-20, noting that the revised Technical Regulations, Manual and Guide would not compromise the operation and development of the WIPPS;

**Requests** the Executive Council to continue to oversee the implementation of WIPPS and report on progress;

**Urges** Members to develop pilot projects identified in the WIPPS Collaborative Framework and the Roadmap.

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Note: This resolution replaces [Resolution 11 (Cg-17)](https://library.wmo.int/doc_num.php?explnum_id=3138#page=269) – Towards a future enhanced integrated and seamless Data‑processing and Forecasting System, [Resolution 17 (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=152) – Seamless Data-processing and Forecasting System, [Decision 40 (EC-70)](https://library.wmo.int/doc_num.php?explnum_id=4981#page=211) – Further development of a seamless Global Data‑processing and Forecasting System Implementation Plan, [Resolution 58 (Cg-18)](https://library.wmo.int/doc_num.php?explnum_id=9827/#page=193) – Future Integrated Seamless Global Data-processing and Forecasting System collaborative framework, [Decision 27 (CBS-16)](https://library.wmo.int/doc_num.php?explnum_id=3505/#page=141/) – Implementation Plan of the future seamless Data-processing and Forecasting System, [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, [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, and [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, which are no longer in force.

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[Annex: 1](#_Annex_1_to)

## Annex  to draft Resolution 4.2(6)/1 (Cg-19)

**GENERAL**

This *Guide to the Global Data-processing and Forecasting System* (*Guide to the GDPFS*) is the new edition of the [*Guide on the Global Data-processing System*](https://library.wmo.int/index.php?lvl=notice_display&id=6832#.ZCvy33ZBw2w)(WMO-No. 305). This new edition of the *Guide to the GDPFS* was developed following the request of the sixty-ninth session of the Executive Council, in its [Resolution 18 (EC-69)](https://library.wmo.int/doc_num.php?explnum_id=3645#page=154), to facilitate the use of the revised [*Manual on the Global Data-processing and Forecasting System*](https://library.wmo.int/index.php?lvl=notice_display&id=12793#.ZCvybHZBw2w) (WMO-No. 485). In 2022, the Commission for Observation, Infrastructure and Information Systems (INFCOM) decided to adopt WMO Integrated Processing and Prediction System and WIPPS as the new name and acronym of the future GDPFS (Recommendation 23 (INFCOM-2)). The process of changing GDPFS to WIPPS references in WMO technical documents including this Guide, the Manual on GDPFS and the *Technical Regulations* (WMO-No. 49), and in other related information, will occur progressively as updates occur.