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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  26.V.2023  **DRAFT 2** |

**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), the [*Guide on the Global Data‑processing System (GDPS)*](https://library.wmo.int/index.php?lvl=notice_display&id=6832#.ZCvy33ZBw2w) (WMO-No. 305) and other WMO publications need to be amended to replace GDPFS with WIPPS as necessary to avoid the confusion of the parallel use of GDPFS and WIPPS. *[Japan]* 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;

*[Secretariat, Japan]*

(2) To change the title of the *[Manual on the Global Data-processing and Forecasting System](https://library.wmo.int/index.php?lvl=notice_display&id=12793)* (WMO-No. 485) to the *Manual on the WMO Integrated Processing and Prediction System*; and *[Secretariat, Japan]*

(3) To change the title of the *[Guide on the](https://library.wmo.int/index.php?lvl=notice_display&id=6832" \l ".ZCvy33ZBw2w)**[Global Data-processing System](https://library.wmo.int/index.php?lvl=notice_display&id=6832" \l ".ZCvy33ZBw2w)* (WMO-No. 305) to the *Guide to the WMO Integrated Processing and Prediction System; [Secretariat, Japan]*

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

*[Secretariat, Japan]*

*[Secretariat, Japan]*

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

**Authorizes** the Secretary-General, in consultation with the president of INFCOM, to replace GDPFS with WIPPS as necessary in WMO publications including the *[Technical Regulations](https://library.wmo.int/index.php?lvl=notice_display&id=14073" \l ".ZCvx-HZBw2w)* (WMO‑No. 49), Manuals and Guides; *[Secretariat, Japan]*

**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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*[Secretariat, Japan]*

*[Secretariat, Japan]*