

**WMO OMM**

World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация
المنظمة العالمية للأرصاد الجوية
世界气象组织

Secrétariat

7 bis, avenue de la Paix – Case postale 2300
CH 1211 Genève 2 – Suisse
Tél.: +41 (0) 22 730 81 11
Fax: +41 (0) 22 730 81 81
wmo@wmo.int – public.wmo.int

Ref.: 14182/2024-14 DIM

Our ref.: 14182/2024/I/DIM/SG-FIT

5 September 2024

Subject: Study Group on Future Data Infrastructure (SG-FIT) Online Workshop

Dear Sir/Madam,

I have the pleasure to inform you that WMO is organizing an online workshop from 23 to 25 September 2024 to explore the future technologies of data sharing and their practical implications for public weather services in the context of real-time international exchange of Earth system data. These explorations focus on the challenges faced by WMO Members in utilizing the increasing volumes of data provided by the WMO Integrated Processing and Prediction System (WIPPS) Centres, globally and regionally, World Meteorological Centres (WMCs), satellite operators, and the communities they serve.

The workshop will review the current user needs and how users are projecting to work in the future, and discuss various approaches to overcome challenges associated with Big Earth system data through the following themes:

- (1) *Moving less data*: e.g. use of compression algorithms and/or discrete sampling/extraction of essential information
- (2) *Moving the postprocessing/product creation to where big data resides*: e.g. data proximate compute
- (3) *Moving where the modelling happens*: e.g. locally generated data such as AI models
- (4) Lowering the barriers for implementation and federation of the systems through *standards and interoperability*

The workshop will be divided into two parts: presentation sessions from 9h to 13h UTC and interactive discussion sessions (90 minutes before or immediately after the presentation sessions). Each discussion session to further explore the presented topics is offered twice to accommodate participants from different time zones. Both presentation and discussion sessions are open to any registered participants.

The outcome of the workshop will contribute to the work plan of the Study Group on Future Data Infrastructure (SG-FIT), established by the Commission for Observation, Infrastructure and Information Systems (INFCOM) of WMO.

I kindly invite you to encourage interested experts from your country/territory, including those of national meteorological and hydrological services, satellite operators and the research community, to promptly complete the online registration form on the [workshop website](#) with an up-to-date agenda. Registered participants will receive a pre-workshop survey to begin reflecting on the session topics and share their perspectives.

To: Permanent Representatives of Members with WMO

cc: Hydrological Advisers

Thank you for your support and I look forward to your experts' participation.

Yours faithfully,

A handwritten signature in black ink, appearing to read "Ko Barrett", with a long horizontal flourish extending to the right.

Ms Ko Barrett
for the Secretary-General