

**WMO OMM**

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

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Annex: 1 (available in English only)

Subject: Distance Learning Course “Interoperable Data Exchange in Hydrology” (in Spanish) from 18 September to 27 October 2023

Dear Sir/Madam,

Considering the importance of international and transboundary hydrological data exchange among National Meteorological and Hydrological Services (NMHSs) and other institutions in supporting the implementation of the WMO Unified Data Policy ([Resolution 1 \(Cg-Ext\(2021\)\)](#)), the Global Hydrological Status and Outlook System (HydroSOS) and the Early Warning for All initiative, the implementation of the WMO Hydrological Observing System (WHOS), as the hydrological component of WIS 2.0, and its capacity-building activities remain key milestones of the [WMO Plan of Action for Hydrology 2022 - 2030](#).

Following the successful delivery of the Distance Learning Course “Interoperable Data Exchange in Hydrology” in 2022 (the final report is available [here](#)), and several requests received to have the course delivered in other UN languages, I am pleased to inform you that the second edition of the Distance Learning Course “Interoperable Data Exchange in Hydrology” will be carried out in Spanish from 18 September to 27 October 2023. The aim of the course (in Spanish only) is to (1) raise awareness of the importance of international exchange, use and reuse of hydrological data, (2) address gaps in the knowledge and technical expertise related to data sharing and access, and (3) introduce and describe the functionalities and implementation processes of the [WMO Hydrological Observing System \(WHOS\)](#).

Upon completion of the course, participants will be able to:

- Recognize the benefits of hydrological data exchange;
- Describe the roles of data providers and data users in data exchange (including data and metadata management, data publication, data discovery and access);
- Explain the basics of data interoperability and brokering approach;
- Describe the WHOS architecture, functionalities and implementation processes.

The course will be centred on [13 required distance learning lessons](#), and structured in 4 modules. Students will be required to complete an online quiz after completing each module.

To: Hydrological Advisers of Members with WMO

cc: Permanent Representatives of Members with WMO

The course will also include one optional live Webinar to be attended via Teams at the start of the course, as well as weekly online communications with course instructors and fellow students. The live session and online communications will allow students to ask questions, share their regional issues and experiences, and deepen their learning experience by discussing the course content with their peers and instructors.

In addition to mastering the course content, students will be required to complete a final assignment. Successfully completing the course assignment and the online quizzes for each module will earn students a certificate of completion.

It is estimated that the time needed to successfully complete this course is a total of 36 to 48 hours or an average of about 6 to 8 hours/week. Supervisors of participants should be encouraged to release them of work responsibilities during those hours.

Taking into account that the topic of the course and its lessons cover various areas of expertise (from hydrology to IT) as well as the importance of enhancing mutual understanding of data exchange aspects among hydrologists and IT experts, I would appreciate it if you could **nominate two candidates from the same institution** to participate in this course: one hydrologist (preferably with some experience in data sharing) and one IT expert (preferably with experience in hydrological data management). The two candidates will be expected to form a team and complete the course modules and final assignment jointly, supporting each other in understanding related content. Should you wish to nominate more than one team, you are welcome to do so indicating their order of priority.

I would be grateful if you could kindly send your nominations at your earliest convenience, but not later than 13 August 2023, to give us sufficient time to send the relevant course material to the accepted participants before the opening date. Please send the Nomination Form(s) (see annex) duly filled to:

Mr Igor Chernov (ichernov@wmo.int) with copy to: hydrology@wmo.int and wotieno@wmo.int

Accepted candidates will be contacted directly with additional instructions related to the course.

I am confident that you will find this activity extremely interesting in improving the hydrological data exchange skills of the hydrologists and IT experts from your Country.

Yours faithfully,



Dr Wenjian Zhang
for the Secretary-General



DISTANCE LEARNING COURSE “Interoperable Data Exchange in Hydrology”

from 18 September to 27 October 2023

PARTICIPANTS NOMINATION FORM

Instructions: Please (1) save this form on your computer (please do not fill the form online), (2) fill it in by typing information directly into the document, (3) save the completed form and (4) send it as an attachment to Mr Igor Chernov (ichernov@wmo.int) with copy to hydrology@wmo.int.

Should you encounter any issues in completing it, please contact ichernov@wmo.int.

The Permanent Representative / Hydrological Adviser of

with WMO nominates the following team to participate in the above course:

First candidate – Hydrologist (preferably with some experience in data sharing)

Family name:

First name:

Gender: Male ☐ Female ☐

Organization:

E-mail:

Telephone:

Second candidate – IT expert (preferably with the experience in hydrological data management)

Family name:

First name:

Gender: Male ☐ Female ☐

Organization:

E-mail:

Telephone: