

Joint CALMet XVI - CONECT 3

24 - 28 November 2025

Hybrid, hosted by WMO Regional Training Center,
Florence, Italy & CALMet Working Group

Second Announcement and Invitation to Submit Contributions

Inspire, Share and Collaborate

The Joint CALMet XVI – CONECT 3 Conference will bring together educators, trainers, and managers from universities, research institutions, and National Meteorological and Hydrological Services.

During the first three days, CALMet XVI will provide an environment for participants to share experiences, expectations, and innovative ideas for the application of new technologies and strategies in meteorology and hydrology education and training. In addition, we will explore regional training needs, identify current activities within our community, and see where support from the wider WMO Global Campus community is needed.

Subsequently, the Third meeting of the Consortium of WMO Education and Training Collaborating Partners - CONECT – 3, will serve as a platform to discuss all ideas aimed at improving collaboration in capacity development. The aim is to improve coordination and ensure sustainability of education and training efforts related to Earth systems, including weather, climate, water and related environmental fields, as CONECT partners strive to contribute to coordination efforts to achieve the goals of the WMO Global Campus initiative.

The Theme - Future-Proofing Meteorological Training: Bridging Collaboration, Experience, and Innovation

The theme of the conference, Future-Proofing Meteorological Training: Bridging Collaboration, Experience, and Innovation, highlights the vital role of collaboration in enhancing and sustaining meteorological and hydrological training worldwide. It emphasizes the importance of preserving and transferring essential expertise while embracing modern educational innovations and technological advancements. As technology, particularly artificial intelligence, continues to transform the field, it is crucial to equip trainers with the tools, knowledge, and collaborative networks necessary for effective workforce development. By fostering the exchange of best practices and lessons learned across institutions and countries, the Conference aims to promote a culture of continuous learning and mutual support. This collaborative spirit is vital to ensure that training remains relevant, inclusive and sustainable over time, enabling our community to continue preparing current and future professionals to address the evolving challenges of climate change and environmental uncertainty.

Aligned with the main theme of this year's conference, each of the first three days will focus on a core topic as outlined below:

Day 1: Collaboration

Topic: Strengthening Global Collaboration for Sustainable Training and Capacity Development

This day will focus on how partnerships and initiatives, such as the WMO Global Campus have supported and enhanced training and capacity development efforts across our community.

We invite participants to share experiences and stories that illustrate:

- successful collaborations in delivering training and education activities tailored to local or regional audiences
- lesson learned through the co-development and adaptation of shared training resources

In addition to these reflections, we aim to foster discussions around:

- the availability and re(use) of shared education and training (E&T) resources
- pressing training needs at the regional level

The insights gathered during these sessions will not only inspire the global community but also provide valuable input for further discussions at the CONECT 3 meeting later in the week.

Day 2: Experience

Topic: Bridging Knowledge and Practice: Strengthening Learning Through Observation and Experience

This day will explore how trainers can support learners in visualizing atmospheric processes, developing spatial thinking and learning from real-world experiences.

We invite you to share your experiences, lesson-learned and good practices in:

- helping your community to stay compliant with the requirements outlined in BIP-M, BIP-MT and the WMO Competency Frameworks
- Preserving local and institutional knowledge as experienced meteorologist retire
- Supporting on-the-job learning through cycles of action and reflection
- Designing authentic face-to-face and online training activities that promote active learning such as: shadowing experiences colleagues, using simulators, case-based learning, Jupiter notebooks or any other available tools or methods

We also want to explore:

- What is currently available in our training toolboxes to create meaningful and effective learning experiences?

Your stories, practical insights, and lessons learned will help others strengthen the bridge between theory and practice, contributing to learning that remains grounded, dynamic, and impactful.

Day 3: Innovation

Topic: Embracing AI and emerging technologies for learning and assessment

On this day, we explore how AI and other digital innovations can transform meteorological and hydrological training, enhancing both learning and assessment practices.

Key questions for discussion include:

- How can AI and emerging technologies enrich (digital) training through interactive and immersive experiences?
- What AI tools are currently available to support the development of authentic, engaging face-to-face and online training activities?
- Which AI tools are already being used within our community and what are your experiences with them? What is working well and where are the limitations?

We will also take a critical look at the challenges of implementing AI responsibly in our training environments, including:

- data quality and bias
- privacy and data protection
- transparency and accountability
- ethical considerations
- technical limitations and reliability
- security and risk of misuse
- lack of human oversight and verification
- regulation and compliance

We invite you to share your experiences, insights, and lessons learned as we collectively navigate how to harness innovation while safeguarding the integrity and trust of our training practices.

How the Joint CALMet XVI-CONNECT-3 Conference will work

To maximise participation across the global meteorological and hydrological education and training community the CALMet XVI - CONNECT-3 Conference will offer a mix of online and in-person activities, with inclusive access as a key priority.

During the first three days, the Conference will feature online sessions across three time zones – Eastern, Central European and Western – making it easier for practitioners worldwide to engage in the CALMet experience.

Each time zone will host a 2-hour programme per day, consisting of:

- A keynote presentation
- An interactive workshop focused on the day's theme, designed to encourage active exchange and collaboration

Online sessions will be recorded and shared, so participants can catch up on sessions from other regions and stay connected with the broader conversation.

As this will be a hybrid event, additional in-person sessions and workshops will be held in Florence, complementing and expanding the online programme.

Poster contributions will be available online throughout the entire week, offering authors and attendees the opportunity to explore, question, and discuss the challenges and opportunities facing by the community. Those attending the Conference in Florence will also have the chance to present their posters in person.

A short summary of all that happened during these first three days will be presented during the CONECT-3 meeting held on Days 4 and 5.

These final two days will feature a hybrid synchronous programme developed by the CONECT Management Group, providing a space for the community to come together, reflect, and collaborate on ways to strengthen the coordination and ensure the long-term sustainability of our education and training efforts.

Although the conference will be held in English, and translation is not provided, there will be opportunities to form regional discussion groups in your own local languages.

Types of Contributions

Participants are invited to submit proposals for the CALMet XVI part of the Joint CALMet XVI - CONECT-3 Conference. Two main types of contributions are accepted:

1. Poster contributions

Poster contributions should be self-contained and concise resources that are valuable independently of any live presentation. They should be developed in alignment with the Conference Theme: “Future-Proofing Meteorological Training: Bridging Collaboration, Experience, and Innovation”.

All posters will be displayed using an online platform, which will remain accessible throughout the conference week and for a period afterward. Although there will be no formal online oral presentations of posters during the Conference, authors will have multiple opportunities to engage with participants, including the use of both live chat and asynchronous discussion forums, as well as use of recorded video presentations, based on the preferences and availability of authors.

In addition to online access, authors attending the conference in person in Florence will be invited to display a printed version of their posters and discuss their work during scheduled poster sessions. By submitting a poster proposal, you agree to make your final resource available online at least one week prior to the start of the Conference.

2. Keynote/Workshop contributions

You may also propose a keynote presentation or interactive workshop to be featured in one of the daily synchronous online sessions. These sessions are scheduled to take place across three time zones (mentioned above) and align with the conference's core topics: Collaboration, Experience or Innovation.

Your proposal should include a clear description of the session proposed and its relevance to one or more of the core topics. If you are proposing a workshop, please also include the intended learning outcomes and describe the interactive activities or methods you plan to use to engage participants.

Accepted contributions will be incorporated into the live programme. Keynote presentations will be recorded and made available after the event to support broader community learning and sharing.

Submitting your contribution

All proposals must be **submitted by 29 August 2025** via the following link:
<https://forms.office.com/e/AQN3xFmfLN>

More information regarding the Conference registration and the detailed programme will follow in due time.

For more information, please contact: organizers@calmet.org

Conference Organizing Committee:

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