Capacity Development Activities updated from SERCOM

(From September 2025 to September 2026)

SC-AVI

development of trainings:

The **2026 edition of the Aviation Meteorology Training Seminar** will be convened by the United Kingdom Met Office, in collaboration with WMO and the Turkish State Meteorological Service (TSMS) in Alanya, Türkiye from 11 to 15 May 2026. Members in Regional Associations I (Africa), II (Asia) and VI (Europe) are invited to nominate potential participants by 20 February 2026.

The SC-AVI Moodle training portal has recently undergone a major upgrade and now has a new name and new look: **the WMO Aviation Training Repository**. It's now easier than ever for aviation meteorologists, observers, and service providers to access high-quality training materials. All previously available resources remain accessible, but they've been reorganized into three streamlined categories: resources for Aeronautical Meteorological Forecasters (AMF), resources for Aeronautical Meteorological Observers (AMO), resources for Aeronautical Meteorological Service Providers. A new course on Artificial Intelligence (AI) and Meteorology has been added to the latter category very recently.

At the regional level, SC-AVI has also been supporting in the organization of workshops and webinars in several services for aviation-related topics (workshops led by regional associations through their ET-AVI – when available – or directly by Members through the VCP): aviation weather hazards forecasting, SIGMET harmonization, QMS implementation, competency assessment, etc.

In the past two years, there have been such events in RA IV (open to members of RA III and RA IV), RA II, RA I at least. For some, the collaboration of ICAO has been possible. To be added that CREWS or programs such as SWFP constitute frameworks under which (pending availability of budget, and when the planned event addresses QMS implementation for meteorological services) the services for aviation-related aspects are encompassed.

Amendments to the competency frameworks :

indeed, ongoing discussion for a new competency framework for volcanic ash forecasters. Presented at EC-CDP-12 under agenda item 7.1 and expecting a recommendation from EC-CDP to continue the process towards integration into an update to WMO-No. 1209. No modification planned to BIP-M, except a BIP-M compliance mapping exercise of VA forecasters , with the objective of

helping Aeronautical Meteorological Service Providers which host a VAAC to ensure VA forecasters have the right skills, qualifications and competencies. That mapping will be available on the Aviation Training Repository soon, under the AMSP category.

SC-DRR

- Development of guidance for the implementation of the new Technical Regulations on Early Warning Services

- Strengthening of Impact Based Forecast and Warning Systems ecosystem / service desk, and including of IBFWS competencies in the WMO competency frameworks (see agenda item 7.4)

- Implementation of CAP online course in some WMO official languages (French, Spanish), and development of CAP help desk

Tropical Cyclone Programme Trainings

Regional Trainings

- RA IV Workshop on Hurricane Forecasting and Warning (RSMC Miami, USA, 7, *20-24 April 2026*)

- Attachment training organized by RSMC New Delhi (14-25 July 2025)

- RA I Training Course on Tropical Cyclones (RSMC La Reunion, 22-26 September 2025)

- Attachment training (RSMC Tokyo, 13-22 January 2026)

International Trainings

- [24 March 2025 - WIPPS Webinar | World Meteorological Organization](#) 'Benefits and Consideration of AI-Based TC Track Products for Operational Forecasting' – PPTs, recordings (available in English, French and Spanish)

- The 11th International Workshop on Tropical Cyclones (IWTC-11) will be conducted from 16 to 20 November 2026 in Shanghai, China.

Tropical Cyclone Forecasting Competency Framework

Background:

1. Following the request made by the Sixteenth World Meteorological Congress ([paragraph 4.3.3, Cg-16, 2011](#)), each of the five Tropical Cyclone Programme (TCP) regional bodies developed a regional Tropical Cyclone Forecaster (TCF) Competency framework, each of which has then been approved by the respective Regional Association, where applicable.

2. The [Resolution 2 (EC-76) – Tropical Cyclone Forecasting Competency Framework](#), decided to add the five regional TCF competencies (one for each of the TCP regional bodies) to the Compendium of WMO Competency Frameworks (WMO-No. 1209).

3. EC-76 requested the Advisory Group on Tropical Cyclones (AG-TC), through its parent body, the Standing Committee on Disaster Risk Reduction and Public Services (SC-DRR), to consolidate the five regional TCF competency frameworks into a single framework to achieve a consistent approach with other WMO service areas, to also be added to the Compendium.

4. AG-TC, at its fifth meeting (12–14 December 2023), reviewed and agreed on the consolidated framework and recommended the combined document be added to the Compendium.

5. SC-DRR, AG-TC's parent body, decided to approve the above-mentioned document during its seventh session (SC-DRR-7, 18–20 January 2024)

6. [Decision 6 (SERCOM-3)](#) decided to add it into the Compendium

Action:

Five TCF competencies AND the overarching framework to be added into the Compendium WMO-No.1209

Additionally, checking the RA IV TCF competency in the EC-76 Annex 4, there were no "must be able to" but " be able to". This must be corrected.

SC-HYD

In addition to the development of BIP-H and BIP-HT (see agenda item 7.2) and what already reported by the HCP representative (agenda item 3.4), the main objective is to translate the different autonomous courses developed last year in English into French and Spanish (Basic Hydrological Sciences; Topics in Hydrology, Modeling and Forecasting; Introduction to Rating Curves ; Introduction to Groundwater Monitoring).

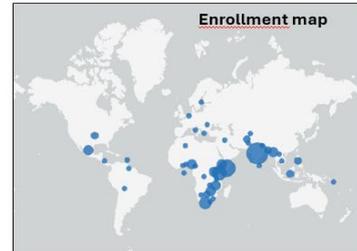Some additional trainings will be provided through XB projects (SWIO and Central Africa)

SC-AGR

Drought and AgMet Capacity Development

- Capacity building in regions and countries is largely funded through projects – FAO, Adaptation Fund, CREWS, UAE, European Commission and other donors and partners

- Projects allow for engagements in the countries and regions - workshops and trainings

- Some support also to enhance systems – e.g. Agromet monitoring and bulletins support in West and Central Africa under CREWS

- Lately turning to enhancing the portfolio of eLearning:

    - Course: Communicating agrometeorological information | ETRP Moodle Site

    - Course: Introducing crop calendars for climate adaptation | FAO elearning Academy

    - Integrated Drought Management: Monitoring and Early Warning - Cap-Net

    - Drought Risk and Impact Assessment | Water Knowledge Hub

    - Gender equality and social inclusion in drought management planning

- Upcoming

    - Pest and disease early warning in agriculture

    - Drought Management Pillar 3

    - French and Spanish translation of Agromet communications

    - Joint capacity building with Ras e.g. with South Asian Forum on Agriculture Meteorology & RAII Expert Team on Services for Agriculture

E-learning: Good example from the IDMP - 2024

CAP-NET UNDP VIRTUAL CAMPUS
ONLINE COURSE

INTRODUCTORY

INTEGRATED DROUGHT MANAGEMENT:
MONITORING AND EARLY WARNING

2024 EDITION

($) FREE
(⏱) SELF-PACED
(📄) CERTIFICATE

ENROLL NOW
VISIT: BIT.LY/DROUGHTMANAGEMENT

SCAN ME
FOR MORE DETAILS

Langauge	Total Outreach	Course Started	Certificates
English	769	440	210
French	67	34	14

Enrollment map

- The course will be re-opened.
- New course on Pillar 2 in collaboration with UNCCD - Launch planned for June 2025.

WMO   Home   Dashboard   My courses   Particip

Read me first - How to enroll a...

Welcome! This course is design...

∨ Course Overview

Objective This eLearning cours...

∨ Lesson 1: Introduction to Cli...

● Lesson 1: Introduction to clima...

∨ Lesson 2: Framing the challen...

● Lesson 2: Framing the challenge

Lesson 1
Introduction to Climate Services for the Agriculture Sector

WORLD METEOROLOGICAL ORGANIZATION

Continue

Communicating agrometeorological information

Instructions   Collapse all

📄 Read me first - How to enroll and how to get the badge? - Instructions

Welcome! This course is designed to show you how you can enhance agrometeorological communications. Effective communication is key to ensuring that agrometeorological information is used appropriately in the agricultural sector. Communication is not an add-on or negligible element of agrometeorological services, but rather it stands as an indispensable core. The deficiency of a robust communication strategy can lead to late information receipt, misunderstanding of received information, misinformation, inadequate information and ultimately limited use of available information.

- Collaborating between FAO and WMO on collection of crop calendar information to feed into FAO Crop Calendar

- Online e-learning also being developed on Crop calendars jointly between WMO and FAO

SC-CLI

- Workshop on strengthening climate prediction capabilities within RCCs and focus countries in the Africa-Caribbean-Pacific region, January 2026, Nairobi, Kenya

- Workshop on the operationalization of objective seasonal forecasts and sectoral products on sub-regional scales, April 2026, Casablanca, Morocco

- Publication of the [Guidelines for Implementing a Regional Framework for Climate Services](#)

- Publication of the [Guidelines for Implementiong a National Framework for Climate Services](#)

- Publication of the [Capacity Development for Climate Services: Guidelines for National Meteorological and Hydrological Services](#)

- The Expert Team on Capacity Development (ET-CDC) strengthened WMO's competency-based training framework, transitioned the Climate Services Checklist to electronic format, delivered regional and national training, and advanced work on a Climate Services Capacity Scorecard

- SC-CLI to undertake a review of the ToRs and activities of the ET-CDC to determine or redefine the requirement for the ET-CDC to be retained as a standalone body

- Organization of the Fourth WMO International Workshop on Operational Climate Prediction (OCP-4), scheduled for 29 June–3 July 2026 in Arusha, Tanzania. This event is part of the ongoing series of International Workshops on Operational Climate Prediction, initiated by WMO in 2015, which aim to foster collaboration between the research and operational communities. OCP-4 will be jointly organized by SC-CLI, the WMO Infrastructure Commission, and the Research Board, and will be hosted by the Tanzania Meteorological Authority.

SC-MMO

Marine Services Course

Purpose: Build capacity of NMHSs to deliver high-quality, impact-based marine meteorological and oceanographic services to assist meeting International Convention on Safety of Life At Sea (SOLAS) obligations and strengthen forecaster competencies.

Organization: CD and MAR Secretariat

Structure:

- **Phase I** – Online: Foundational training with large Service Delivery Context Analysis assignment.

- **Phase II** – Blended: Pre-course self-learning + in-person sessions focusing on forecasting, communication, CAP, and regionalcoordination.

Achievements (2020–2025):

- Conducted in 5 of 6 WMO Regions, reaching 80 Members (50%).

- 208 participants, 68% completion rate for online Phase I.

- Supported by ET-CCD, regional experts, and partner institutions (NOAA, AEMET, BMKG, Maroc Météo, etc.).

Recent completed and pending Courses:

- Phase I – Southeast Asia (Online, April to August 2025)

- Phase II – French-speaking RA I (Casablanca, Nov 2025)

- Phase II – Arabic and SE Asia (TBD)

- Phase I – RA VI Eastern Europe - requested

Challenges and way forward: Limited Secretariat resources (funding and human) and volunteer capacity; seeking XB funding and regional-led training

Question to CDP: appropriate language for strengthening implementation of the marine competencies?

SC-MMO Objectives

- Transform the ET-Competency & Capacity Development (ET-CCD) into a Focal Point in SC-MMO

- Marine Services Competency

- Reviewing marine services competency framework for differentiating the coastal DRR and the maritimeservices skillsets

- Supporting regional initiatives on MSI training e.g. RA III

- Ice Forecaster Competency

- Importance of publishing the ice competency framework ASAP since approved by EC-76 in 2023

- Completed two Ice workshops by IICWG in 2024 and 2025 for advancing the Ice competency framework andplanning a third in December 2026

SG-RENE

Two in-person trainings in Q4 2025:

- Climate-Informed Long-Term Energy Planning in Mozambique (funded by GIZ)

- Meteorological and Climate services for the Energy Sector in Central and South America (funded by Adaptation Fund)

One on-line Course published in Q3 2025:

- Powering the Future: weather, water and climate services for the Energy Transition

Energy and Meteorology Portal (since 2024):

- Repository of Knowledge products and practical tools

- **Mozambique training (October)**

Climate-informed long-term energy planning training delivered with GIZ & partners.

- **Chile training with ENANDES+ (November)**

Training Workshop on Meteorological and Climate Services for the Energy Sector and the Water–Energy–Food–Ecosystem Nexus in Central and South America

24–28 November 2025, Asunción, Paraguay
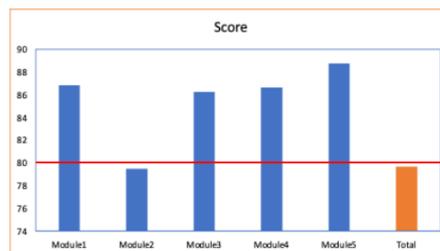
WMO Energy Course Now Online

- **110** participants *(As of 3 Sep)*
- 16 learners completed modules and received the badge
- Positive feedback and comments by learners
- Available on: WMO ETRP, Energy portal
- Populated in: WMO Regional Offices, WMO official website, WMO official social media, WMO internal HUB

https://etrp.wmo.int/course/view.php?id=388

https://etrp.wmo.int/course/view.php?id=388

- New, streamlined structure to enhance accessibility and visibility.
- Publications integrated and updated.
- New homepage!
- **Members are invited to share energy-related updates with secretariat**.