

Training Development Plan the Virtual Round Table Session on the importance of Satellite Data to Climate Change Studies and Research.

Overview

This session is meant to provide Meteorological Personnel with basic information and understanding of climate change and climate variability which can be easily communicated to their stakeholders whenever required. Since Meteorological Personnel are usually at the forefront of such questioning, it is important to ensure that they are equipped with the requisite knowledge. The session will focus on how satellite data can be used in climate change and climate variability research and monitoring. It will provide a recap of key terminology used in the field of climate studies and satellite meteorology and allow for the links to be explained. The advantages and disadvantages of using satellite data to monitor climate will also be discussed.

Audience

International Meteorological Service Personnel, Forecast Office Service Providers and Academic personnel with general interest in the subject area. Participants must possess at least a tertiary level education in Meteorology or a related science.

Organizational Needs

There will be a need to support the adaptation and delivery of the material in various languages including French, Spanish and Portuguese to ensure dissemination at an international level.

Performance/Learning Outcomes

- i. Adequate knowledge of Climate Change and Climate Variability and what this means the various organizations.
- ii. The use of satellite data/ observations in examining Climate Change and Climate Variability
- iii. Roles to be played in the continuous monitoring of Climate Change and Climate Variability

Content Scope

- i. Review climate related terminology including climate, climate variability and climate change
- ii. Review key atmospheric parameters and phenomena at the different scales which define climate trends
- iv. Explain the importance of monitoring Climate Change and Climate Variability and the roles of various organizations
- iii. Explain the role of satellites in monitoring and predicting these key parameters and phenomena
- iv. Identify the advantages and disadvantages of using satellites to monitor climate change and variability
- v. Obtain feedback and clarify any misconceptions related to the key concepts presented in the session.

Constraints

Risks

- i. With a number of other ongoing programmes, possible delays in the adaptation of the material and various time zones, scheduling challenges and conflicts may arise.
- ii. Persons participating in the session may not possess the pre-requisite knowledge and experience required for the successful implementation of the session.
- iii. Lack of availability of multimedia equipment and a stable internet connection among participants since the sessions will be primarily delivered using an online teleconference/video conference programme.
- iv. Lack of resources for the adequate development and the course materials.

Learning Solutions

The presentation will be interactive with a number of questions being posed to the audience for feedback. Participants will also be exposed to case studies and will be invited to share their respective best practices.

Learning Activities

The session will be delivered using an online teleconference/video conference programme and will be delivered by personnel of the World Meteorological Organization Centres of Excellence and Virtual Laboratory for Training and Education in Satellite Meteorology (VLab).

Resources

Human Resources

For the development and implementation of the session content experts, developers, reviewers and training support will be required. For the international audience translators will be required.

Content Resources

There will be a need for support for the translation of the materials to other languages and the development of the associated presentations. Some support will also be required for the formatting and graphic design of the presentation to ensure that the materials are reader friendly and visually pleasing.

Learning Resources and Tools

Voice Over Internet Protocol and an online teleconference/video conference programme such as Eluminate will be utilised for the initial delivery of the session in English. Other training resources and tools of the WMO and the Commission for Aeronautical Met Expert Team on Education and Training (CAeM ET/ET) will also be used.

Evaluation and Assessment

There will be no evaluation and assessment on this session however, a short feedback session will be hosted at the end of the presentation to clarify any misconceptions related to the key concepts presented in the session.

Milestones and Schedule

Two main milestones are:

1. Development and endorsement of final presentation, materials and learning activities by October 31st, 2014
2. Hosting of the VLab Online Session by November 28th, 2014.