

**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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15 July 2021

Annex: 1

Subject: Online Workshop on Methods in Aviation Meteorology, RTC Bet Dagan,
Israel, 15-25 November 2021

Action required: For information and appropriate action, as necessary

Dear Sir/Madam,

I am pleased to inform you that the Regional Training Centre (RTC) of Bet-Dagan, Israel, in cooperation with Israel's Agency for International Development Cooperation (MASHAV), and experts from Romania and South Africa, will hold an online workshop on Methods in Aviation Meteorology from 15 to 25 November 2021.

The workshop is aimed towards Aviation forecasters with one to five years' experience. The objectives of the workshop are to strengthen skills of aviation forecasters by discussing the possible effects of various weather events on aviation; demonstrating modern techniques for issuing weather information for aviation, their dissemination and verification; and discussing ways to improve the collaboration between the key partners in aviation meteorology. Other objectives are to introduce competency methods for aviation meteorological forecasters and to promote modern decision making, based on meteorological information.

The topics of this workshop are in accordance with competency framework for Aeronautical Meteorological Forecaster (WMO-No. 1209). The workshop will be conducted online, in the English language and the detailed workshop information is given in the annex to this letter.

Interested candidates are requested to submit the online Participant Application Form available at <https://forms.gle/Pb1du8tW8nYQwLG7A> no later than **28 September 2021**.

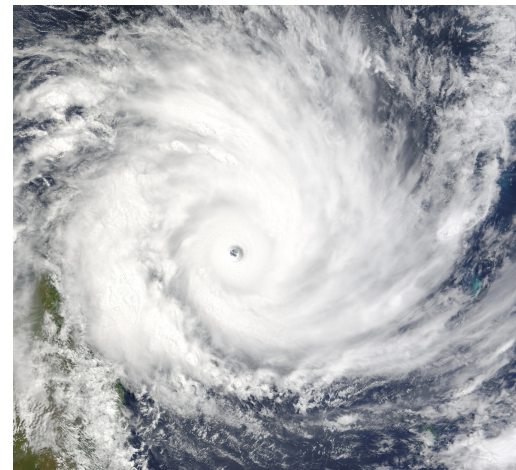
If you require further details about this workshop, please contact the RTC at levl@ims.gov.il.

I would like to express my appreciation for your continued support in promoting the activities of WMO.

Yours faithfully,

Dr Wenjian Zhang
for the Secretary-General

To: WMO Regional Training Centres
Education and Training focal points



ON-LINE WORKSHOP ON METHODS IN AVIATION METEOROLOGY

REFRESHER COURSE

DATES OF COURSE

mondays-thursdays
0900-1300 cest
15-25 NOVEMBER 2021

TARGET AUDIENCE AND QUALIFICATIONS

Aviation forecasters with 1-5 years' experience.

COURSE OBJECTIVES

To Strengthen skills of aviation forecasters by:

- Discussing the possible effects of various weather events on aviation;
- Demonstrating modern techniques for issuing weather information for aviation, their dissemination and verification;
- Discussing ways to improve the collaboration between the key partners in aviation meteorology;
- To introduce competency methods for aviation meteorological forecasters;
- To promote modern decision making, based on meteorological information;

COURSE FORMAT

Synchronous lectures, case studies, practical exercises, distance learning modes and self-learning. Mainly through Zoom & Moodle.

EXPECTED LEARNING OUTCOMES

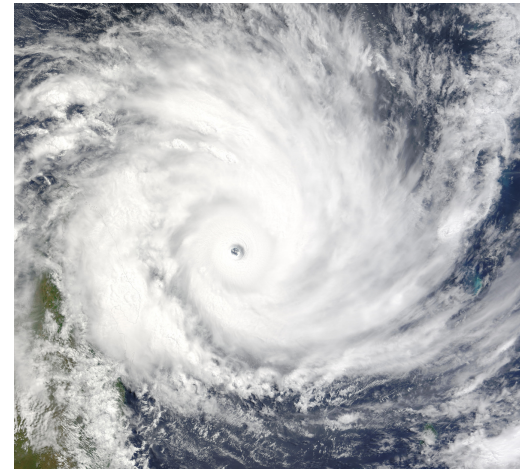
- Understand the concept of competency and the need of competency assessment
- Asses different approaches in analyzing and forecasting meteorological information for aviation;
- Use modern techniques of dissemination of aviation meteorological data;
- Verify and validate meteorological products for aviation using various methods;
- Understand possible impacts of various weather phenomena and the information needed by key partners in aviation in order to prepare and in order to react properly to the forecasted event;
- Realize the abilities and limitations of modern aviation meteorological tools and the information that can be disseminated to key players in aviation, before and during weather events;
- Realize the importance of cross-border coordination between meteorological units before and during an high impact weather event
- Apply some techniques of NWP's and remote-sensing integration in development of aviation MET products

STUDENT ASSESSMENT

- A minimum of 90% attendance is required.
- The participants should have all technical accessories, including stable internet connection, camera and microphone, for a complete and active participation throughout the course.
- The participants will have mandatory and non-mandatory assignments.
- Self-studying pre-course is also required.
- A final project will be conducted.

LANGUAGE USED

The workshop will be held in English. A working knowledge of English is mandatory. All candidates will be online interviewed prior to the course.



ON-LINE WORKSHOP ON METHODS IN AVIATION METEOROLOGY

REFRESHER COURSE

COURSE CONTENT

The Meteorological point of view

- Competency, the need of competencies assessments
- Aviation Safety and meteorology, Meteorological Hazards in aviation forecaster point of view, the role of forecaster in the new environment
- Introduction to modern meteorological equipment (aviation oriented)
- Working with satellite images, MSG, MTG
- Meteorological Models– Global, Local, Abilities, Limitations, implication for Early Warnings, Modern forecasting tools - ensemble products to assess the probabilities of dangerous scenarios.
- Nowcasting and its importance in operational setting, Nowcasting with remote sensing tools, INCA Nowcasting system use for supporting management of aviation Clients

The interface between Meteorologists and Operations

- Reminder of meteorological codes (TAF, METAR, AIRMET/SIGMET, Advisories), Essential structure of meteorological messages –
- Introduction to IWXXM (ICAO Meteorological Information Exchange Model)
- Introducing the IMS warning system, TAF system, dissemination
- Information needed for stakeholders before and during event, Local aviation thresholds and tailoring product services to Clients
- Building coordination with air traffic control services, collaboration between the different aviation meteorology service providers: Meteorological products without borders (collaboration between the neighbor FIR)

Product verification

The impact of climate change on aviation

Aviation and Space weather

DEADLINE FOR APPLICATION

28 September 2021

COSTS

No costs are requested for the course.

CONTACT DETAILS

For further information, please contact levl@ims.gov.il