



WMO OMM

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

Secrétariat

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Ref.: 14775/2022-16 MS/ETR

Our ref.: 14775/2022/MS/ETR/CRS-722

6 July 2022

Annexes: 2 (available in English only)

Subject: WMO Voluntary Cooperation Programme (VCP) Online Workshop on Light Detection and Ranging (LIDAR), Hong Kong Observatory, from 13 to 16 September 2022

Action required: For information and appropriate action, no later than **19 August 2022**

Dear Sir/Madam,

I have the pleasure to inform you that the Hong Kong Observatory (HKO) will host an online workshop on “Light Detection and Ranging (LIDAR)”, from 13 to 16 September 2022.

The workshop aims to advance the capacity building of the World Meteorological Organization (WMO) Members who are interested to upgrade their aviation weather services to meet aviation needs. Aviation forecasters and researchers are welcome to attend the online workshop. Preference will be given to Regional Association (RA) RA II and RA V Members whose air traffic is increasing rapidly. It is planned that approximately 40 participants in total will be accepted. The workshop will be conducted in English. A brief description of the workshop is given in [Annex 1](#).

Interested candidates are kindly requested to complete the attached Participants Nomination Form, [Annex 2](#), and send directly to Mr Terence Kung (email: tkung@hko.gov.hk or fax: +852 2375 2645), as soon as possible but not later than **19 August 2022**.

Yours faithfully,

Dr Wenjian Zhang
for the Secretary-General

To: Permanent Representatives of Members with WMO

cc: Hydrological Advisers

WMO VCP and ICAO Online Workshop on Light Detection and Ranging (LIDAR)

Hong Kong, China, 13–16 September 2022

Ref.: 14775/2022-1.6 MS/ETR

Objective

To introduce the Light Detection and Ranging (LIDAR) and its application in the detection of windshear and turbulence for WMO Members who are interested to upgrade their aviation weather services for future aviation needs.

Contents

1. A brief introduction in Light Detection and Ranging (LIDAR) System
2. Techniques for the configuration and processing of LIDAR data
3. Application of LIDAR in windshear detection and warning, and aerosol monitoring
4. Limitation of LIDAR and mitigation measures
5. Sharing of experience from WMO Members

Medium of instruction

English

Course date and time

0700 – 1000 UTC, 13 to 16 September 2022

Deadline for application

The completed WMO Participants Nomination Form should be returned to the Hong Kong Observatory with a copy to the WMO Secretariat by 19 August 2022.

Places offered

Around 40 participants in total. Preference will be given to qualified applicants from RA II and RA V Members whose air traffic is increasing rapidly.

Qualification and requirements of participants

- Participants should be proficient in English
- Participants should have knowledge and experience in aviation forecasting
- Participants are expected to have a role in developing windshear and turbulence detection at present or in the future
- All participants are required to provide the course organizer feedback on the usefulness of the knowledge and skills acquired within 6 months after participating in the workshop on how these knowledge and skills would be applied in their NMHSs
- All participants are encouraged to actively maintain technical exchange and communication with the organizer and among themselves after the workshop

Course delivery

Participants are expected to attend the workshop online through Zoom video conferencing in real-time mode, therefore a decent connection to the Internet should be in place to ensure a smooth streaming of video and sound, as well as a connection to remote servers to take part in practical sessions during the course.

Fellowship

Tuition fee will be waived.

Enquiries

Mr Terence Kung, Scientific Officer, Bong Kong Observatory, Hong Kong, China.
Email: tkung@hko.gov.hk, fax: (852) 2375 2645, tel: (852) 2926 8319.

PARTICIPANTS NOMINATION FORM

WMO VCP and ICAO Online Workshop on Light Detection and Ranging (LIDAR)

Hong Kong, China, 13–16 September 2022

Ref.: 14775/2022-16 MS/ETR

The Government of

nominates the following candidate as a participant of the above workshop.

1. Family name (in capitals) :

2. First name (in capitals) :

3. Address:

Tel:

Fax;

Email:

4. Date of birth:

Male

Female

Nationality:

5. Qualifications (certificates, diplomas or degrees):

6. Present position and brief description of duties:

7. What roles or tasks will your participant be required to undertake after this workshop to enable your service to make the most of the opportunity to develop new knowledge and skills?

8. Working language:

Note For applicants whose working language is not English, this nomination form must be accompanied by English proficiency certification.

Permanent Representative

(Signature)

(Name in capitals)

Date:

To be completed and sent to reach the following address on or before **19 August 2022**

Director of the Hong Kong Observatory
(Attn: Mr Terence Kung, Scientific Officer)
134 A, Nathan Road
Hong Kong, China

Tel: +852 2926 8319 Fax: +852 2375 2645

Email: tkung@hko.gov.hk
