WEATHER CLIMATE WATER
TEMPS CLIMAT EAU

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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Annexes: 2 (available in English only)

Subject: Fifth Weather-AI Bootcamp, AI Training Facility, Regional Training Centre Seoul, Republic of Korea, 3–14 August 2026

Action required: For information and appropriate action before **19 June 2026**

Dear Sir/Madam,

I have the pleasure to inform you that the fifth Weather-Artificial Intelligence (AI) Bootcamp will be jointly organized by the Korea Meteorological Administration (KMA), through the National Institute of Meteorological Sciences, and the Regional Training Centre Seoul, together with WMO in the Republic of Korea from 3 to 14 August 2026.

The bootcamp is designed to strengthen the capacity of National Meteorological and Hydrological Services (NMHSs), particularly in Regional Association II, to understand, evaluate and apply AI-based approaches in meteorological operations, with a particular focus on AI applications for nowcasting. The programme will provide practical hands-on training, covering the full workflow from data preparation to the operation and visualization of forecasting models. A detailed description of the Bootcamp is provided in Annex I.

The bootcamp aims to support the capacity development needs of WMO Members and contribute to relevant WMO initiatives, including the Early Warnings for All initiative. The training will accommodate approximately 10 participants, with priority given to nominees from developing countries within RA II.

The organizers in KMA will provide accommodation, meals, local transportation and training materials for selected participants. Participants or their respective Services will normally be responsible for international travel, visa arrangements and incidental expenses. However, in cases where participants still require travel support, WMO may provide limited financial assistance for international travel to selected applicants attending the Weather-Al Bootcamp, subject to the availability of funds and budget constraints.

Members wishing to nominate suitable candidates are kindly requested to complete the attached Participant Nomination Form (Annex II) and return it to the organizers in KMA (john@wordcat.co.kr and weatherman@korea.kr) with a copy to the WMO Secretariat (tra@wmo.int) as soon as possible, but no later than **19 June 2026**.

To: Permanent Representatives of Members of RA II with WMO

cc: Hydrological Advisers of Members of RA II with WMO

The Secretariat would appreciate your assistance in bringing this training opportunity to the attention of appropriate candidates in your Service and in facilitating the nomination process.

Yours faithfully,

Prof. Celeste Saulo
Secretary-General

COURSE INFORMATION

5th Weather-AI Bootcamp
3–14 August 2026
RTC-Seoul, Republic of Korea

1- Objectives:

(a) To strengthen the capacity of National Meteorological and Hydrological Services (NMHSs), particularly in Regional Association II, to understand, evaluate and apply AI-based approaches in meteorological operations.
(b) To provide participants with practical knowledge and hands-on experience in the application of Artificial Intelligence (AI) technologies in operational meteorology, with a particular focus on **AI-based nowcasting**.
(c) To facilitate knowledge exchange and collaboration among NMHSs in the development and adaptation of AI tools to national and regional contexts.

2- Contents:

(a) Overview of global trends in Weather-AI and nowcasting concepts.
(b) Python programming and meteorological data analysis (basic to intermediate).
(c) Data transformation, visualization, and exploratory analysis.
(d) AI model pipelines for nowcasting applications.
(e) Data preparation, model experimentation, adaptation and evaluation.
(f) Use of alternative datasets for AI model training and validation.
(g) Team-based project development and prototype application design.
(h) Final presentations, knowledge exchange and discussion.

3- Course Language:

The course will be conducted in **English**.

4- Medium of Instruction:

The programme will be delivered in a **hybrid format** during the first week and **in-person only** during the second week:

- **Week 1 (3–8 August 2026):** Fundamentals (Hybrid)
- **Week 2 (10–14 August 2026):** Advanced Applications (In-person only)

5- Course Date:

The 5th Weather-AI Bootcamp will be held between **3–14 August 2026**.

6- Course Venue:

AI Training Facility, RTC Seoul, Republic of Korea.

7- Deadline for Application:

The completed **Participant Nomination Form** should be returned to the Korea Meteorological Administration (KMA) no later than **19 June 2026**.

8- Places Offered:

Approximately **10 participants** will be selected from **five Members**, with up to two participants selected from each Member. Preference will be given to qualified applicants from Members of RA II, particularly from developing countries. Acceptance of applicants from other Regions will be subject to availability of places.

Note: *To support a robust selection process, Members are encouraged to nominate at least two qualified candidates, Additional nominations may also be submitted, where appropriate, to ensure that sufficient eligible candiates are available for consideration.*

9- Qualifications and Requirements of Participants:

Applicants should:

- Be meteorological professionals from WMO Members, primarily within RA II;
- Be operational forecasters, researchers, or technical staff involved in meteorological services;
- Have relevant experience in forecasting, meteorological data analysis, or technical service delivery;
- Have basic knowledge of programming, preferably in Python;
- Have an interest in AI applications in meteorology and the institutional capacity to apply the acquired knowledge;
- Be proficient in English;
- Be committed to sharing the acquired knowledge within their NMHS after the training.

Note: *In cases where multiple candidates are nominated by the same Member, each nominee should meet the above qualifications and requirements.*

10- Financial Support:

The organizers in the Republic of Korea will provide selected participants with:

- Full accommodation, including meals;
- Local transportation between the airport and the training venue;

- Training materials.

Participants or their respective Services will normally be responsible for:

- International travel costs;
- Visa arrangements and related costs;
- Daily subsistence or incidental expenses, unless otherwise notified.

11- Enquiries:

Mr. Wanju Kim
Team Manager / Weather-AI Bootcamp Operation Team
E-mail: john@wordcat.co.kr
Tel: +82-10-3492-5289

Dr. Byunghwan Lim
Senior Researcher / AI Meteorological Research Division, KMA
E-mail: weatherman@korea.kr
Tel: +82-64-780-6769

PARTICIPANT NOMINATION FORM

5th Weather-AI Bootcamp
RTC Seoul, Republic of Korea
3–14 August 2026

The Government of _____ nominates the following candidate as a participant in the above Bootcamp.

1. Personal Information:

Given name: _____
FAMILY NAME: _____
Gender: Male ☐ Female ☐ Other ☐
Date of birth: _____
Nationality: _____

2. Contact Information:

Official address: _____
_____

Tel: _____ **Fax:** _____
E-mail: _____

3. Educational Qualifications:

(Please list certificates, diplomas, or degrees relevant to meteorology, computer science, AI, data science, or related fields.)

_____
_____
_____

4. Present Position and Duties:

Current position/title: _____
Organization / NMHS: _____
Brief description of duties and responsibilities:

_____
_____
_____
_____

5. Experience Relevant to the Bootcamp:

Please briefly describe your experience in the following areas:

a) Operational forecasting / nowcasting: _____

_____

b) Meteorological data analysis / visualization: _____

_____

c) Programming experience (e.g. Python, R, C/C++): _____

_____

d) Experience with AI / Machine Learning / Deep Learning tools or frameworks (e.g. PyTorch, TensorFlow, Scikit-learn): _____

_____

6. Prior Knowledge Recommended for the Bootcamp:

Please indicate which of the following items you understand.

Note: *The information provided in this section is intended solely to help the organizer prepare appropriate pre-training materials. It will not be used as a condition for participation in the Bootcamp.*

[Math]

a) Mathematical Functions and Their Properties: ☐
(exponential, logarithmic, trigonometric functions, …)

b) Differentiation: ☐
(derivatives, partial derivatives, gradients, …)

[Programming]

c) Basic Python Syntax: ☐
(data structures, loops, conditionals, function, class, …)

d) Data Manipulation with Python: ☐
(tensor indexing, slicing, broadcasting, …)

e) Data Visualization with Python: ☐
(line plots, scatter plots, histograms, …)

[Deep Learning]

f) Gradient Descent Algorithm: ☐

g) Gradient-based Linear and Logistic Regression: ☐

h) Artificial Neurons: ☐

i) Multilayer Perceptrons: ☐

j) Regularization Methods: ☐

k) Data Preprocessing Methods: ☐

l) Data Augmentation Methods: ☐

7. Motivation and Expected Application:

a) Why do you wish to participate in this Bootcamp?

_____

_____

_____

b) How do you plan to apply the knowledge and skills gained in your NMHS or institution after the Bootcamp?

_____

_____

_____

8. Institutional Impact:

What roles or tasks will the participant be expected to undertake after the Bootcamp to enable the Service to make the most of this opportunity and support the implementation of AI applications in operational meteorology?

_____

_____

_____

9. English Proficiency:

Working language: _____

(For applicants whose working language is not English, evidence of English proficiency may be requested.)

10. Emergency Contact:

Name: _____

Relationship: _____

Address: _____

Tel: _____

E-mail: _____

11. Financial Assistance Required:

Financial assistance for international air passage required:

Yes ☐ No ☐

12. Declaration by the Candidate:

I certify that the information provided above is true and complete to the best of my knowledge. I fully understand that the organizers do not hold any responsibility for compensation in the event of death, illness, injury, or loss of property during the period of the Bootcamp or related travel.

Candidate's signature: _____

Date: _____

13. Endorsement by Permanent Representative:

I hereby nominate the above candidate and certify that, if selected, he/she will be released from regular duties for the duration of the Bootcamp and will be supported in applying the acquired knowledge and skills upon return.

Permanent Representative: _____ (Signature)

Name (Block letters): _____

Date: _____

To be completed and sent to reach the following address **on or before 19 June 2026**:

Mr. Wanju Kim
Team Manager / Weather-AI Bootcamp Operation Team
E-mail: john@wordcat.co.kr
Tel: +82-10-3492-5289

Dr. Byunghwan Lim
Senior Researcher / AI Meteorological Research Division, KMA
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