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2026 年 5 月 26 日

附件: 2 (仅以英文提供)

主题: 第五届天气-AI 训练营 (2026 年 8 月 3 至 14 日, 韩国首尔区域培训中心 AI 培训基地)

要求采取的行动: 供参考并于 **2026 年 6 月 19 日**前采取适当行动

尊敬的先生/女士,

我谨通知您, 第五届天气-人工智能 (AI) 训练营将于 2026 年 8 月 3 至 14 日由韩国气象厅 (KMA) 与 WMO 通过国家气象科学研究所和首尔区域培训中心在大韩民国联合举办。

该训练营旨在加强国家气象水文部门 (NMHS) 的能力, 特别是在第二区域协会, 以理解、评估并应用气象业务中基于 AI 的方法, 特别关注 AI 在临近预报中的应用。该计划将提供实用的实操培训, 涵盖从数据准备到预报模式的操作和可视化的整个工作流程。训练营的详细说明见附件 I。

训练营旨在支持 WMO 会员的能力发展需求, 促进 WMO 相关活动, 包括全民预警倡议。此次培训共招约 10 名学员, 优先考虑来自二区协发展中国家的被提名者。

KMA 组织方将为入选学员提供食宿、当地交通和培训材料。通常, 学员或其各单位负责国际旅行、签证安排和杂费。不过, 若学员仍需旅行支持, WMO 可根据现有资金和预算限制, 向参加天气-AI 训练营的入选申请人提供有限的国际旅行资助。

敬请希望提名合适候选人的会员填写随附的学员提名表 (附件 II), 并于 **2026 年 6 月 19 日**前尽快将其交回 KMA (john@wordcat.co.kr 和 weatherman@korea.kr) 组织方, 并抄送 WMO 秘书处 (tra@wmo.int)。

秘书处感谢您能协助将这一培训机会告知贵部门合适候选人, 并协助提名过程。

谨上

席列斯特·绍罗教授
秘书长

致: WMO 二区协会会员常任代表

抄送: WMO 二区协会会员水文顾问

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 candidates 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. Wanjung 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