



DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
KAGAWARAN NG KAPALIGIRAN AT LIKAS YAMAN



MEMORANDUM

FOR : **The Directors**
Biodiversity Management Bureau
Environmental Management Bureau
Forest Management Bureau

FROM : **The OIC Director**
Policy and Planning Service

SUBJECT : **INVITATION TO ONLINE TRAINING ON FIRE DANGER RATING SYSTEM (FDRS) AND APPLIED FDRS FOR PEATLANDS ON 5-6 DECEMBER 2023**

DATE : **06 DEC 2023**

This refers to the invitation from Director General Muhammad Helmi Bin Abdullah of the Malaysia Meteorological Department to attend the online training on Fire Danger Rating System (FDRS) and applied FDRS for peatlands on 5-6 December 2023.

In line with this, may we request your bureaus to send representatives to the said online training and to register through the link below:
https://us02web.zoom.us/webinar/register/WN_bjIFCgLvQ86Y1080yhK6rw#/registration

You may also disseminate the said training to interested offices. Attached is the concept note for your perusal.

For your information and appropriate action, please.


CHERYL LOISE T. LEAL

MEMO NO. 2023 - 1048



To:

**National Focal point of COM
National Focal point of ATFP
National Monitoring Centre (NMC) of ASEAN Member States
ASEAN Peatland Programme Partners
ASEAN Centre
Academic and Research Institutions
International and Civil Society Organisations**

Copy to:

**ASEAN Secretariat
MAHFSA Programme**

23 November 2023

Dear Sir/Madam,

Subject: Invitation to Online Training: Fire Danger Rating System (FDRS) and Applied FDRS for Peatlands, 5 – 6 December 2023.

We wish to express our appreciation to ASEAN Member States and (AMS) and National Monitoring Centre (NMC) for your active cooperation.

2. The ASEAN Environment Ministers at the Eighteenth Meeting of The Committee Under the Conference of The Parties To ASEAN Agreement on Transboundary Haze Pollution (COM-18) 22 August 2023, Vientiane, Lao PDR noted the significant progress of SEA FDRS by MET Malaysia. To further equip and strengthen technical capacity of AMS's and NMC's to fully utilise the new FDRS features, MET Malaysia, in consultation with the ASEAN Secretariat and the support from MAHFSA¹ Programme, will organise an online training with details as below:

Training title : Fire Danger Rating System (FDRS) and Applied FDRS for Peatlands
Date : 5-6 December 2023 (Tuesday – Wednesday)
Platform : Via Zoom

We are pleased to invite you or your representative to participate in the Online Training by registering through the following link https://us02web.zoom.us/webinar/register/WN_bjIFCgLvQ86Y1080yhK6rw#/registration latest by 30 November 2023. Please refer to the enclosed Concept Note for detailed information of this Online Training.

¹ Measurable Action for Haze-Free Sustainable Land Management in Southeast Asia (MAHFSA)

Any enquiries, kindly contact Ms. Nurizana Amir Aziz (MET Malaysia) nurizana@met.gov.my or Mr. Wiraditma Prananta (ASEAN Secretariat) wiraditma.prananta@asean.org.

Thank you in advance for your consideration.

Yours sincerely,



Director General
MET Malaysia

MUHAMMAD HELMI BIN ABDULLAH
DIRECTOR GENERAL
MALAYSIAN METEOROLOGICAL DEPARTMENT



Global Environment
Centre



JIFAD
investing in rural people



Concept Note

Online Training: Fire Danger Rating System (FDRS) and Applied FDRS for Peatlands

Date: 5-6 December 2023

Via Video Conference

Background

The Southeast Asian (SEA) forest Fire Danger Rating System (FDRS) is a regional system for rating the risk of forest fires in SEA. FDRS are used to estimate the probability of fire starts, potential fire activity, and fire effects and they are often applied in a predictive fashion to prepare in advance of serious fire problems (de Groot 1988, 1989).

The SEA FDRS was developed with the support from Canadian Forest Service, has been computed in real-time and displayed on MET Malaysia website since 2003. The system is widely used in the ASEAN Standard Operating Procedure for Monitoring Assessment and Joint Emergency Response under the ASEAN Agreement on Transboundary Haze Pollution. Recently, in 2022, the SEA FDRS has been upgraded with additional features for SEA user.

Thus, in the 18th Meeting of the Committee Under the Conference of the Parties to ASEAN Agreement on Transboundary Haze Pollution (COM-18) held on 22 August 2023 in Vientiane, Lao PDR, an agreement was finalised for MET Malaysia to co-host the SEA FDRS Capacity Building to further equip and strengthen technical capacity of AMS's NMCs to fully utilise the new FDRS features.

Therefore, MET Malaysia and ASEAN Secretariat supported by MAHFSA Programme has agreed to collaborate in organizing a virtual regional training for relevant stakeholders from AMS's NMCs. The training details is below:

Training title : Fire Danger Rating System (FDRS) and Applied FDRS for
Peatlands

Date : 5-6 December 2023 (Tuesday – Wednesday)

Platform : Via Zoom

Objective

- i. Sharing the new features of SEA FDRS developed in 2022.
- ii. Strengthen technical capacity of AMS's and NMC's to utilize the new SEA FDRS.
- iii. Sharing best practices of sustainable peatland monitoring and management with the applied FDRS approaches combine with the Internet of Thing's (IoT) etc.

Expected Outputs

- i. Participants are able to use the new features of SEA FDRS and utilize it.
- ii. Participants will future promote the SEA FDRS to their colleagues.

- iii. Participants exposed to best practices in forest and peatland fire management by government agencies and communities' effort.
- iv. Participants exposed to the utilisation of Internet of Things (IoT) on fire management and monitoring system

Expected Participants

The event will expect participation of **two (2)** representatives from invited AMS and NMC.

Guide for the criteria of the participant nomination are essential to future communicate and collaborate among AMS and NMC. The technical terms will also be used during the training. Hence, below is the criteria list for nomination guidance:

- Familiar with technical aspects of the land and forest fire management and monitoring system, including peatland fire;
- Familiar with technology in fire monitoring and reporting system especially hotspot and Fire Danger Rating System (FDRS), as well as incident report;
- Able to facilitate with key relevant national/local stakeholders to establish/enhance national and/or localised data collection and result management systems after the training

List of Participants are in ANNEX 1

Registration

Participant registration is through the following link https://us02web.zoom.us/webinar/register/WN_bjIFCgLvQ86Y1080yhK6rw#/registration latest by **30 November 2023**. The meeting link will be generated following the registration.

TENTATIVE AGENDA/PROGRAMME

Day 1; 5th December 2023 (Tuesday): Fire Danger Rating System (FDRS) and Applied FDRS for Peatlands		
Time: Malaysia; UTC+8 (MYT)	Agenda	Speakers
09:30 – 10:00	Participants Registration	
10:00 – 10:20 (20 min)	<u>Dua' recitation</u> Opening Remarks: i) Head of Environment Division, ASEAN Secretariat ii) MET Malaysia Director General/DDG(S) Montage Video	
10:20 – 10:30 (10 min)	VIP and Speakers Group Picture Session	
10:30 – 11:00 (30 min)	ASEAN FDRS Update	Mr. Ambun (MET Malaysia)
11:00 – 11:30 (30 min)	Modelling FDRS for Malaysia and ASEAN	Mr. Ammar (MET Malaysia)
11:30 – 12:00 (30 min)	IoT ¹ and FDRS in Malaysia APT ² -NET-PEAT ³ project	Prof. Ir. Dr. Aduwati, (UPM), Malaysia
12:00 – 12:30 (30 min)	Development and Operation of Upper ASEAN Forecasting FDRS	Assoc. Prof. Dr. Kasemsan, And Mr. Narin, (DNP), Thailand
12:30 – 01:00	Discussion Session	
01:00	Participant Group Picture Session END of Day 1	
Day 2; 6th December 2023 (Wednesday): Fire Danger Rating System (FDRS) and Applied FDRS for Peatlands		
Time: Malaysia; UTC+8 (MYT)	Agenda	Speakers
09:50 – 10:00 (10 min)	VIP and Speakers Group Picture Session	
10:00 – 10:30 (30 min)	Weather and IoT Monitoring in Badas Peatland, Brunei	Dr. Wida, (UTB) Brunei
10:30 – 11:00 (30 min)	FDRS and Anthropogenic Analysis in Indonesia	Dr. Ati, (IPB) Indonesia
11:00 – 11:30 (30 min)	The Sustainable Management of Peatland Ecosystem in Malaysia (SMPEM)	Prof. Ahmad Ainuddin, JPSPM
11:30 – 12:00 (30 min)	FDRS in Peatland Monitoring and Alert at Community Level	Mr. Faizal Parish, GEC, MAHFSA, Malaysia
12:00 – 12:30 (30 min)	FDRS Adaptation, Web Map Service Development and Interpretation.	Mdm. Nurizana (MET Malaysia)
12:30 – 12:40 (10 min)	Discussion Session	
12:40 – 01:00 (20 min)	Closing Remarks: i) Representative of MET Malaysia (Mdm. Khazainani Bt. Salleh) ii) Representative of IFAD/MAHFSA (Sir/Mdm.)	

¹ Internet of Things

² APT: Asia-Pacific Telecommunity

³ NET-Peat: Networked ASEAN Peat Swamp Forest Communities for Transboundary Haze Alert

List of Participants

ASEAN Member States

1. National Focal Points of the Committee to the ASEAN Agreement on Transboundary Haze Pollution (COM AATHP);
2. National Focal Points of the ASEAN Task Force on Peatland (ATFP);
3. Representative of National Monitoring Centres and/or additional national agencies of ASEAN Member States
 - i) Brunei Darussalam – Fire Rescue Department;
 - ii) Cambodia – Ministry of Water Resource and Meteorology;
 - iii) Indonesia – Directorate of Forest and Land Fire Management, Ministry of Environment and Forestry (MOEF), Peatland and Mangroves Agency (BRGM), Meteorology, Climatology, and Geophysical Agency (BMKG);
 - iv) Lao PDR – Meteorology and Hydrology Department, Climate Division;
 - v) Malaysia – Department of Environment, Malaysia Meteorological Department, Malaysian Space Agency; BOMBA, Forestry Department of Peninsular Malaysia, Sabah Forestry Department, Sarawak Forestry Corporation;
 - vi) Myanmar – Department of Meteorological and Hydrology, Agriculture Department, Fire Service Department;
 - vii) Philippines – The Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), Bureau Fire Protection;
 - viii) Singapore – Meteorological Service Singapore;
 - ix) Thailand – Geo-Informatics and Space Technology Development Agency;
 - x) Viet Nam – Centre for Environmental Monitoring (of VEA);

ASEAN peatland programme partners

1. Centre for International Forestry Research (CIFOR);
2. Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH;
3. Global Environment Centre (GEC);
4. International Funds for Agricultural Development (IFAD);
5. International Union for Conservation of Nature (IUCN);

ASEAN Centre

1. ASEAN Specialised Meteorological Centre (ASMC);

Academic and Research Institutions

1. IPB University;
2. Kasetsart University;
3. Networked ASEAN Peat Swamp Forest Communities;
4. Singapore-MIT Alliance for Research and Technology Centre;
5. University Brunei Darussalam;
6. Universitas Muhammadiyah Palangkaraya;
7. Universitas Sriwijaya;
8. Visayas State University;
9. Vietnam National University;
10. World Agroforestry Center;

11. Winrock International Indonesia;
12. University of Malaya
13. Universiti Putra Malaysia
14. Universiti Kebangsaan Malaysia
15. Universiti Teknologi Brunei

International and Civil Society Organisations

1. Fauna and Flora Myanmar;
2. International Institute of Rural Reconstruction;
3. RECOFTC – The Center for People and Forest;
4. United Nations Environment Program;
5. Wetlands International;

ASEAN Secretariat

1. Environment Division.