



HTAPC Newsletter

Issue 1, January 2024

Expert Collaboration in Addressing Air Pollution and Climate Issues in Thailand



“HTAPC (Hub of Talents on Air Pollution and Climate - HTAPC)” has been established with the support of research funding from National Research Council of Thailand (NRCT). Dr.Supat Wangwongwatana, former Director-General of the Pollution Control Department and a full-time lecturer at the Faculty of Public Health, Thammasat University, is overseeing this project. The aim is to foster knowledge and experience exchange among networks of air pollution and climate experts, both nationally and internationally. This will be achieved through various activities with a developed online database system, which will include the biography and reputation of experts, along with a comprehensive database of research tools and equipment used in conducting research studies on air pollution and climate fields.

Our vision and goals include the establishment of Hub of Talents on Air Pollution and Climate. HTAPC is committed to being the center of knowledge and innovation in air pollution and climate

- Networking and connecting air pollution and climate experts at both the national and global levels to facilitate the exchange of knowledge and experiences
- Providing reliable scientific knowledge that is useful in supporting setting policies and measures grounded in valid scientific insights
- Developing and enhancing personnel competencies in air pollution and climate to a higher level comparable to international quality.

Highlight issues

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Stay tune with more update here



HTAPC

Accomplished Activities



Hybrid Conference on 'Together for Clean Air: Air Pollution and Climate Solutions in Southeast Asia.'



On September 8, 2023, HTAPC, in collaboration with UNESCAP, UNEP, Asia Pacific Clean Air Partnership (APCAP), the Ministry of Environment of the Republic of Korea, the Embassy of the Republic of Korea in Thailand, the German Institute for International Environmental Cooperation (GIZ), and the Climate and Clean Air Coalition (CCAC), launched a hybrid conference on the theme "Together for Clean Air: Air Pollution and Climate Solutions in Southeast Asia."

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A Seminar on "Addressing PM_{2.5} - Related Health Concerns through Research and Innovation"



On November 30th, 2023, HTAPC organized a seminar on "Addressing PM_{2.5}-Related Health Concerns through Research and Innovation". Dr. Supat Wangwongwatana, the Director of HTAPC, delivered a welcoming speech, joined by experts, academics, and professionals at Meeting Room 1, Health Impact Assessment Division, Department of Health. The event also included participants attending online via MS Teams and was broadcast live on Facebook.



Dr. Supat Wangwongwatana led the discussion with the aim of proposing guidelines for preparing a health response to PM_{2.5} through collaborative research and innovation. The goal is to provide information to the public for heightened awareness, guiding them on how to cope with situations when PM_{2.5} levels increase. This includes recommendation that appropriate for managing PM_{2.5}, ultimately addressing the issue effectively.

[>>> Read more](#)

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Knowledge Dissemination

Participating in the workshop on "The KECF Air Pollution Control: A Training Workshop"



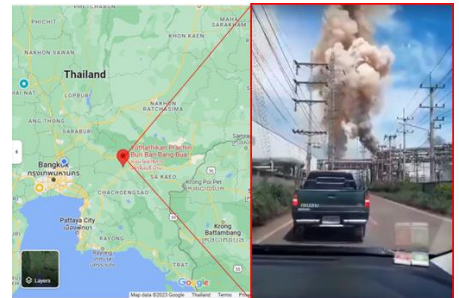
On November 27, 2023, Thailand Institute of Scientific and Technological Research (TISTR), in collaboration with the Asian and Pacific Center for Transfer of Technology (APCTT), UNESCAP, and HTAPC (with supporting from National Research Council of Thailand), organized "The KECF Air Pollution Control: A Training Workshop", with supporting from the Korea-ESCAP Cooperation Fund (KECF). The HTAPC played a significant role, delivering a technical lecture on applying mathematical models for monitoring and predicting air pollution. Furthermore, guidelines for addressing the PM_{2.5} issue were presented by "Dr.Supat Wangwongwatana", "Assoc.Prof.Dr.Ekboodin Winijkul", "Assoc.Prof.Dr.Sirima Panyametheekul", and research associate "Mr. Kantachai Pajiyotee", who collaboratively lectured and exchanged knowledge during the session.



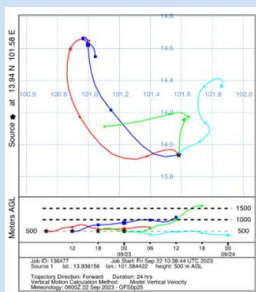
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Air mass trajectory analysis resulting from a transformer explosion and fire at a biomass power plant

On September 22, 2023, at 12:00 noon, local time in Thailand, a transformer exploded, causing a fire at a biomass power plant. The incident occurred at a biomass power plant with a production unit of 37.15 MW, situated approximately 100 kilometers from Bangkok. The smoke plume generated by the fire reached a height of about 100-250 meter.

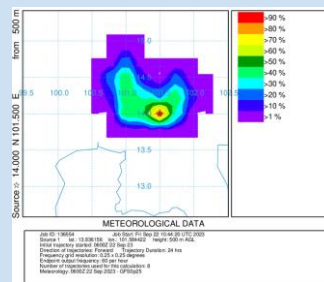


HYSPLIT Trajectory Model



By tracing the direction of air masses through the red line depicting the wind path at the time of the incident, which occurred at 02:00 PM on the 22nd, it was observed that the movement was directed toward the nearby northwest area, approximately 60 kilometers away.

HYSPLIT Dispersion Model



Predictions for the spread indicate that the rate of dispersion is predominantly toward the northwest, with a higher proportion compared to other directions. This pattern identifies clusters of contaminated air masses in Nakhon Nayok Province and partial areas of Pathum Thani, without extending to Bangkok.

We cordially invite you to join us

Hub of Talents on Air Pollution and Climate

HTAPC Membership Form for Experts



Official website of Hub of Talents on Air Pollution
and Climate (HTAPC)
<https://www.htapc.info>



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Monthly Newsletter

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