







Asia Hub and CIAERA Annual Meeting 2024

November 12-15, 2024 Centara Riverside Hotel, Chiang Mai, Thailand

IPB University:

Where Extensive Climate Research Meets Innovation!

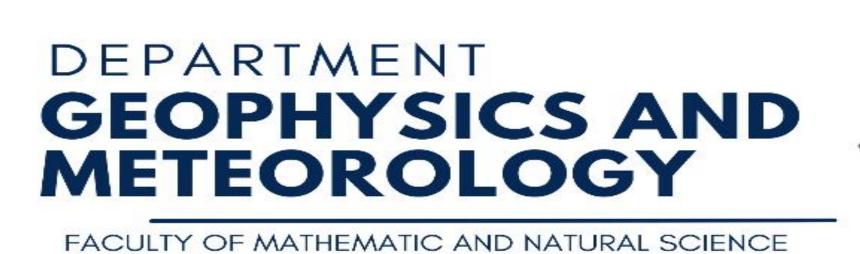
"IPB University is at the forefront of innovative climate research, housing the Center of Climate Risk and Opportunity Management in Southeast Asia and Pacific (CCROM-SEAP) and offering an Applied Meteorology for Undergraduate and an Applied Climatology for Postgraduate study program."

Join us in developing transformative solutions for climate resilience and sustainability to shape a better future for the world!













VISION

To become the leading Department of Geophysics and Meteorology in Indonesia and Southeast Asia with international standards of academic competence and research by 2025

MISSION

- Implementing an Applied Meteorology Undergraduate Program and an Applied Climatology Postgraduate Program with the highest competency standards for graduates in their respective fields.
- · Establishing the direction for the development of science and technological innovation in the utilization and management of natural resources and the environment, particularly concerning weather and climate and their interactions.
- Fostering public awareness of the importance of sustainable











More Information:

Departement of Geophysyc and Meteorology

Jln. Meranti, Gedung Fakultas Matematika dan Ilmu Pengetahuan Alam Wing 19 Level 4, Kampus IPB Dramaga, Bogor 16680

<u>O</u>

geomet@apps.ipb.ac.id gfmipb

Departemen Geofisika dan Meteorologi IPB geomet.ipb.ac.id

Contact Person

I Putu Santikayasa, Ph.D Coordinator of Applied Climatology Postgraduate Program Executive Secretary of CCROM SEAP IPB University Email: <u>ipsantika@apps.ipb.ac.id</u>

Internship and Exchanges

For questions related to internship and faculty exchanges, please Contact Us

Faculty

CCROM-SEAP welcomes motivated, open minded and self-directed students or young academic staffs for internship and faculty exchanges. These will provide an opportunity to gain experience through assignments based on CCROM-SEAP's current operational assignments could be project-based or daily operational activities.

The internship and faculty exchanges offer the chance to work with major international development agencies, work with experts and professionals on climate-related activities within Southeast Asia and Pacific and gain an understanding on development of a research

> Gedung Fisik dan Botani Lantai 2 Kampus IPB Baranangsiang Jl. Pajajaran Bogor 16143 Jawa Barat Indonesia

Tel: +62 251 8313709

Fax: +62 251 8310779 Email: ccromseap.ipb@gmail.com Web: ccromseap.ipb.ac.id

International Research Institute for Environment and Climate Change (IRIECC) **IPB University**



Center for Climate Risk and Opportunity Management in Southeast Asia and Pacific

Introduction and Background **Research Areas and Activities**

Center for climate risk and opportunity management in

Southeast Asia and Pacific (CCROM-SEAP) is a research center at Bogor Agricultural University, Indonesia. Our main focuses of research are to enhance the capacity of the society in Southeast Asia and Pacific to better undferstand the impact of climate variability and climate change on development, to better manage the risks and opportunities of climate change in order to improve human welfare and environment. We are working with the government agencies, development agencies, NGOs, other research agencies, and community. We bring the expertise in climate risk assessment and management to increase the adaptive capacity of community to current and future climate. Through the application of established and specific methodologies, as well as government and community best practices, we assist our clients in different economic sectors to cope with current and future climate. We develop, explore, and evaluate climate risk

We specialize our research in the following activities:

- Formulation of tools, methods, approaches for managing climate risks across spatial and temporal scales
- Generation of demand-driven biophysical (environmental, climatic and hydrological), socio-economic, and impact
- data, information and knowledge for climate risk
- management at various spatial scales • Increasing awareness, demand and uptake of climate risk

management strategies.

- management tools, methods and approaches by different end users
- Education and training to support increased climate risk management efforts Consultation services for government agencies (public
- increasing climate risks and to maximize the emerging opportunities of the changing climate Development and improvement of the network across the region to share the experiences and lessons in climate risk and opportunity management

Climate Impact: Water Resources

Supply and management of water resources is hig influenced by the seasonal climate variations. Flood and drought are the extreme events associated with the lack of knowledge on rainfall pattern, water supply management and maintenance of forest cover along the watershed. Water demand is also increasing as a consequence of population growth, urbanization, industrial development and agriculture. Climate-smart water management planning is required to deal with climate uncertainty, its risks and increasing water demand.

Climate Impact: Agriculture and Food Security Agricultural activities are highly influenced by the climate variability. Therefore climate information is important for agricultural development and food security. We conduct research, education and training in this sector in order to increase the capacity of decision makers and farming communities to tackle the challenges of climate risks, and strengthen the linkage and communication among the

scientific community, farmers/society and policy makers. Climate Impact: Human Health

Climate variability and climate change pose risks to the human health such as the increase of mosquito-borne infections i.e. malaria and dengue fever and other vector-borne infections i.e. diarrhea and cholera. It is therefore crucial to ensure the integration of climate considerations into the development of the health sector, as it will severely impede the achievement of goals in health sector.





Climate Impact: Livelihoods and Hydro-meteorological Shocks

Climate risk and opportunity management plays vital role to support many kinds of economic activity and livelihoods. Proactively managing hydro meteorological shocks will not only help stem losses, but also increase the developmental resiliency of communities and societies in the Southeast Asia and Pacific region.

Low Emission and Sustainable Development

Low emission development is particularly reflected as the transformation in trajectory of economic development to sustainable development. Currently a number of countries under the UNFCCC (United Nations Framework Convention for Climate Change) have submitted the commitment to reduce GHG emissions and the governments are seeking to reform the policies to meet low-emission economy objectives. University and academic environment play a pivotal role to provide best-available scientific basis and lay the foundations for policy reformation.

Climate Research

Climate risk assessments rely upon strong climate research background. Advance research on this area gives reliable foundations on the development of climate information based strategies for decision makers and users. The area of work that we had at the moment and will continue to be developed includes seasonal to multi-decadal climate analyses, statistical and dynamical climate modeling, shortand long-term climate predictions, and generation of climate information system that leads to improved management of climate risk in related sectors. Products of these activities will be tailored to specific sectoral analysis such as agriculture, water resources, and human health.















