UMS | FAKULTI PERHUTANAN TROPIKA
UNIVERSITI MALAYSIA SABAH | Faculty of Tropical Forestry

FORESTRY SEMINAR SERIES @FPT

TOPIC:
EXCHANGE KNOWLEDGE & EXPERIENCES IN PEATLAND RESEARCH

WEDNESDAY
22 July 2026

9:00 am

Seminar Room 1 (BS1), FPT



Dr Saritha Kittie Uda
Research Fellow
Asia Research Institute,
National University of Singapore
(ARI-NUS)

CGSEA
CARBON GOVERNANCE IN SOUTHEAST ASIA

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TRANSBOUNDARY PEATLAND GOVERNANCE IN BORNEO

INTRODUCTION



★ Palangka Raya,
Central Kalimantan, Indonesia

+ PEATLAND & BLACK WATER ECOSYSTEM

+ ORANG UTAN, RHINO

+ HEART OF BORNEO - LUNGS OF THE WORLD

+ “THOUSAND RIVERS”

- PEATLAND FIRES AND HAZE

- CO2 EMISSION SOURCE

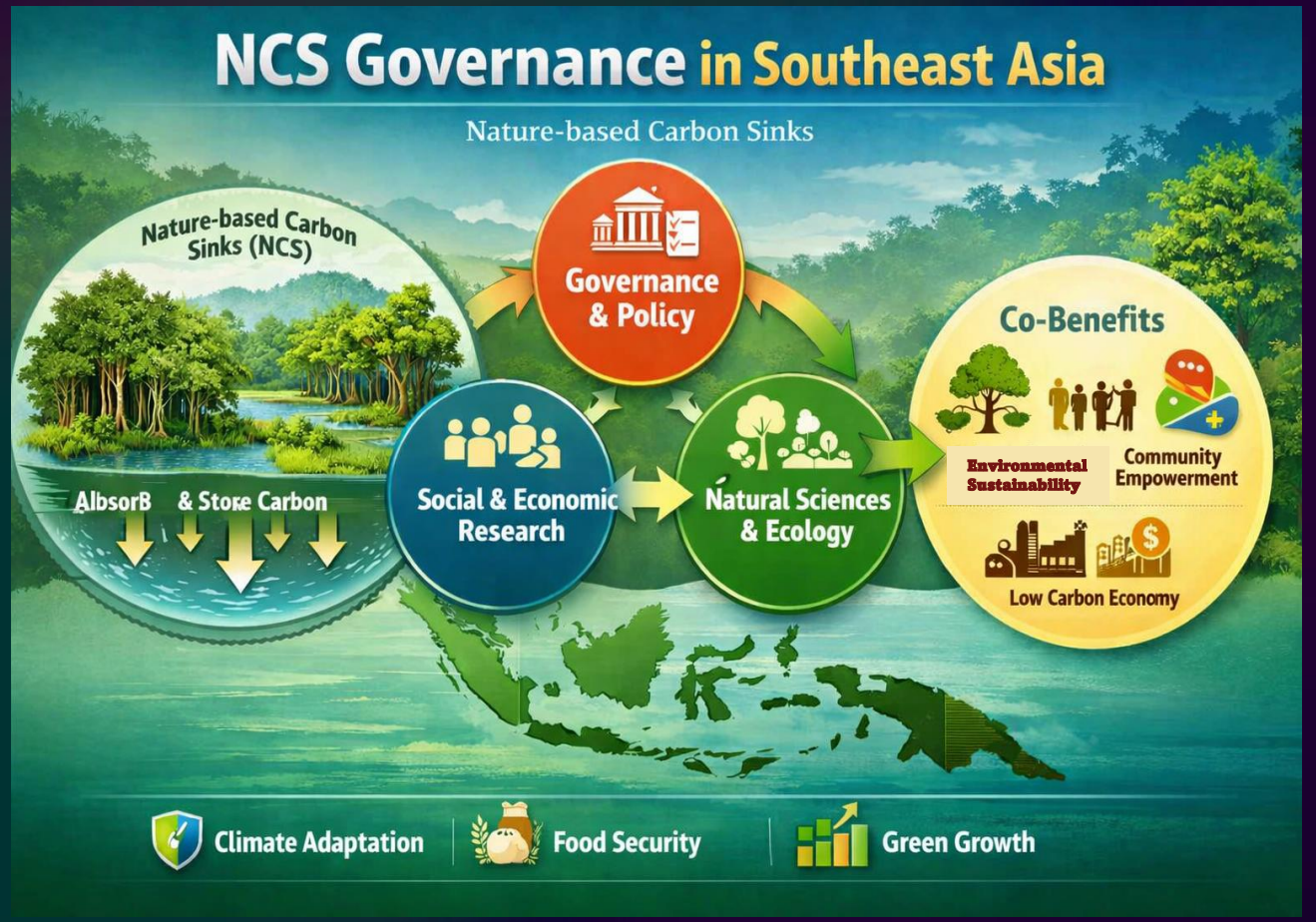
- RIVERS POLLUTED BY MERCURY FROM GOLD MINING





MY RESEARCH @ARI NUS

- The Climate Governance of Nature-based Carbon Sinks in Southeast Asia project, focusing on the socio-ecological dynamics and sustainability of peatland management.
- Transboundary peatland governance in Borneo.
- Specific proposed location: Borneo peatlands [Indonesia (Kalimantan, Malaysia (Sabah & Sarawak) & Brunei].





Dr Saritha Kittie Uda

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SCIENCE, TECHNOLOGY AND SOCIETY

uda.sk@nus.edu.sg AS8, #07-20

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Peatlands and Agricultural Soils

https://cgsea.org/peatlands-and-agricultural-soils/



MY EXPERIENCES IN PEATLAND RESEARCH

MY EDUCATION

- **Doctor [Ph.D], Environmental Systems Analysis Chair Group, Environmental Sciences Department, Wageningen University & Research (WUR), the Netherlands.**
- **Master of Science (M.Sc.), Environmental Sciences Department, Wageningen University & Research (WUR), the Netherlands.**
- **Sarjana Sain (S.Si.), Biology Science [Biologi], Universitas Padjadjaran (UNPAD), Indonesia.**

Ph.D

SUSTAINABLE PEATLAND MANAGEMENT IN INDONESIA: TOWARDS BETTER UNDERSTANDING OF SOCIO-ECOLOGICAL DYNAMICS IN TROPICAL PEATLAND MANAGEMENT.

Scholarship: LPDP (The Indonesia Endowment Fund for Education), Ministry of Finance RI

M.Sc

INTEGRATED ASSESSMENT OF PEATLAND FIRES IN INDONESIA: A CASE STUDY IN CENTRAL KALIMANTAN, INDONESIA.

Scholarship: IIEF-Ford Foundation

B.Sc

BACTERIAL POPULATION IN INLAND PEAT SOIL IN CENTRAL KALIMANTAN AND SUSCEPTIBILITY TEST OF PATHOGENIC *Escherichia coli* AND *Klebsiella pneumoniae* TO ANTIBIOTICS.

WORK EXPERINCES

https://cgsea.org/peatlands-and-agricultural-soils/



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LECTURER & RESEARCHER

UNIVERSITY OF PALANGKA RAYA
[FKIP, CIMTROP, PPIIG, LPKM]

STUDY VISIT ASSISTANT

EU PARTNERS - MoEF RI

TEMPORARY STAFF

BAPPEDA KAL-TENG



SOCIAL EXPERINCES



Mentorship and training

COMMUNITY SERVICES

Leadership development

MATA GARUDA LPDP

LPDN DAYAK WOMEN ASSOSIATION

Advocacy and activism

INDONESIAN WAVE: YOUTH AND WATER



LEGACY

SARITHAKU Eco-Enzyme SOAP [2024]

SARITHA-APPS [2021]

Articles, Books, & Booklets

PEATLAND & PALUDICROP

BITIK [Bank of Trash in Campus]

HANDEP Cooperative Learning Model

[2023]

[2022]

SARITHA-Apps [2021]

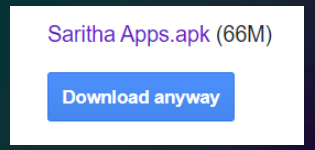


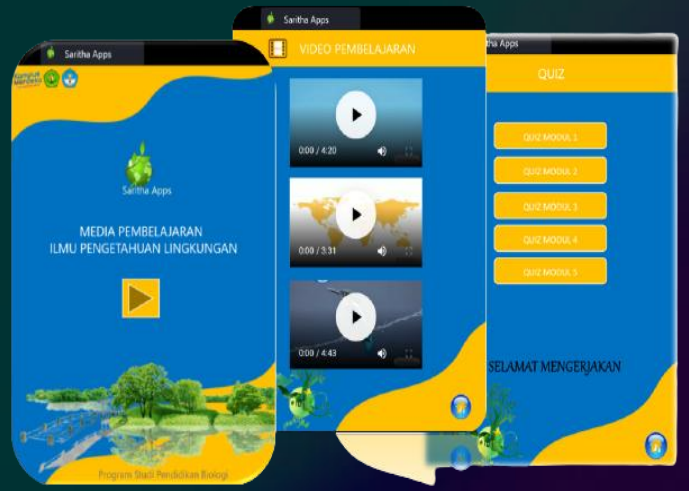
Indonesians average 5.7 hours of daily mobile phone use, the highest among users in the world.

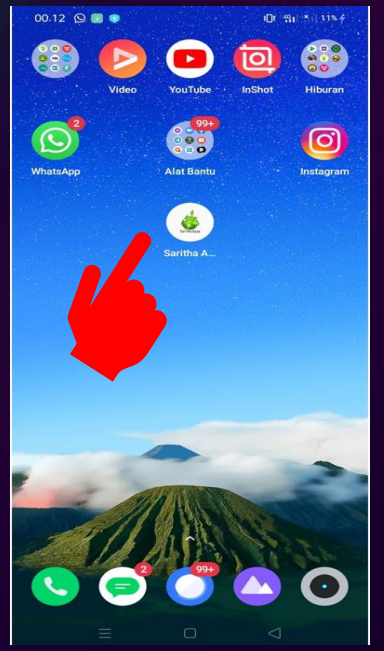
SARITHA-Apps

Sistem
Aplikasi
mobile-lea**R**ning
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penge**T**a**H**uan
lingkung**A**n

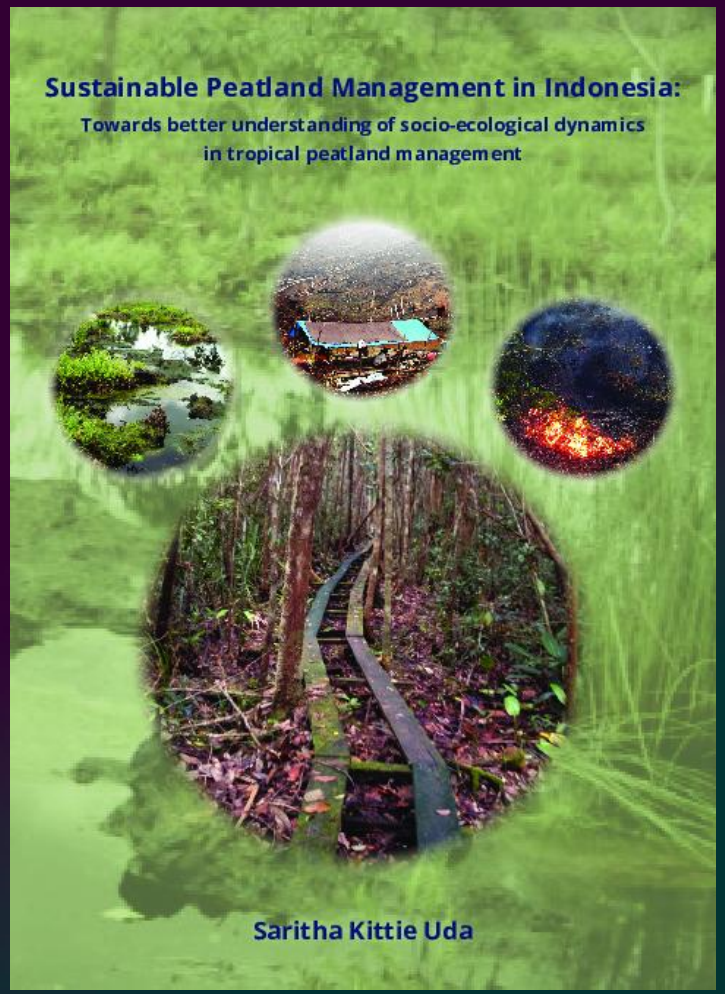


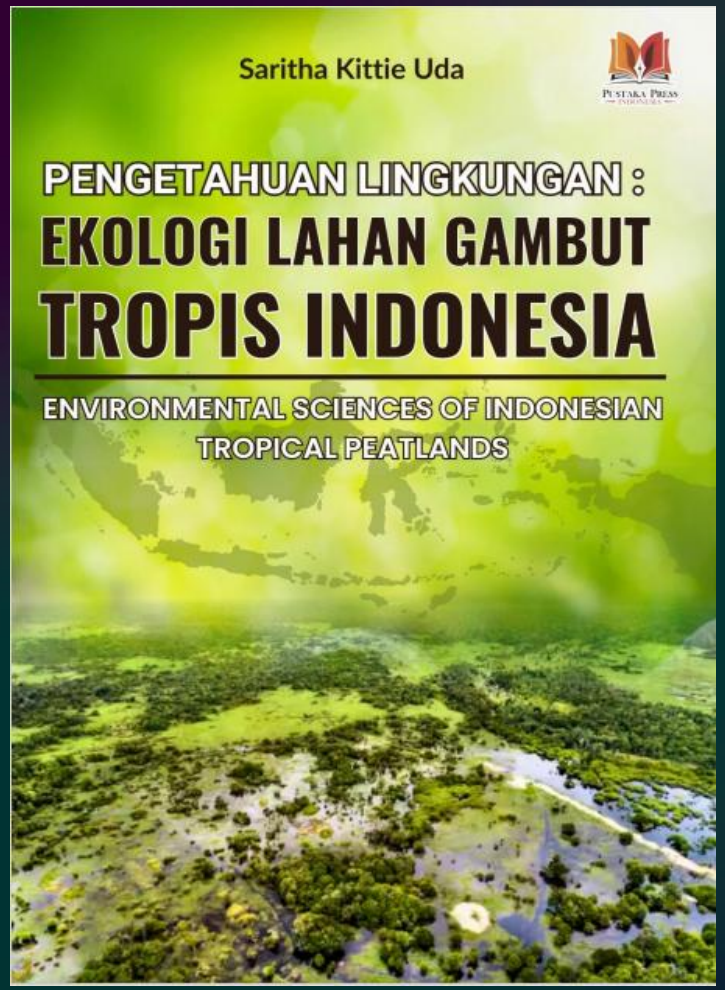


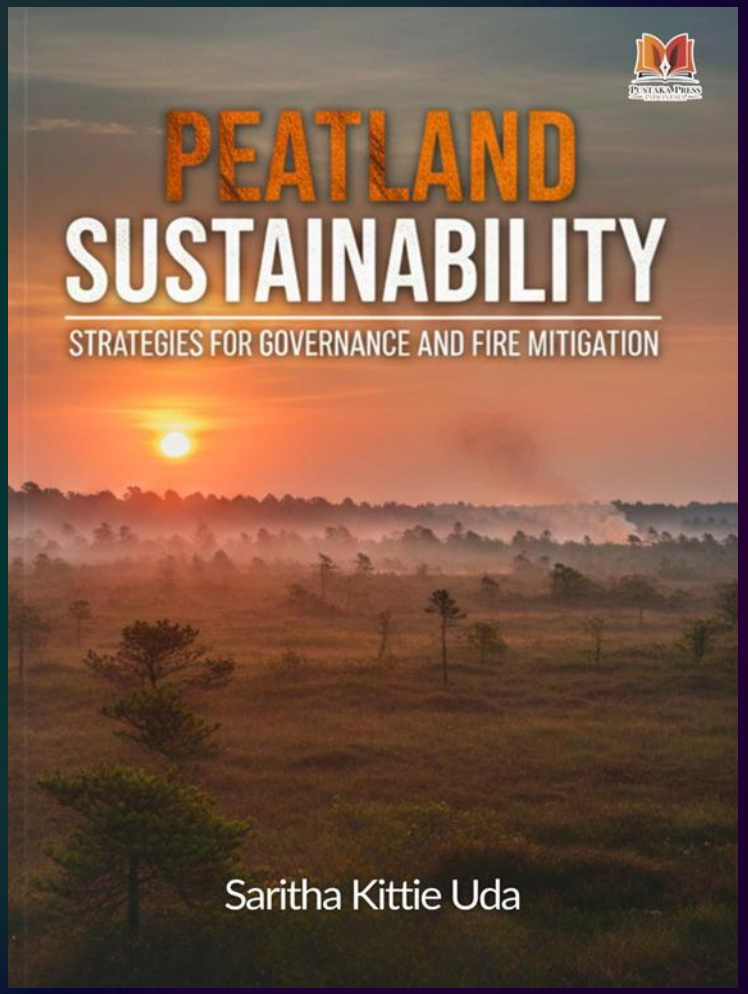




Articles, Books, & Booklets

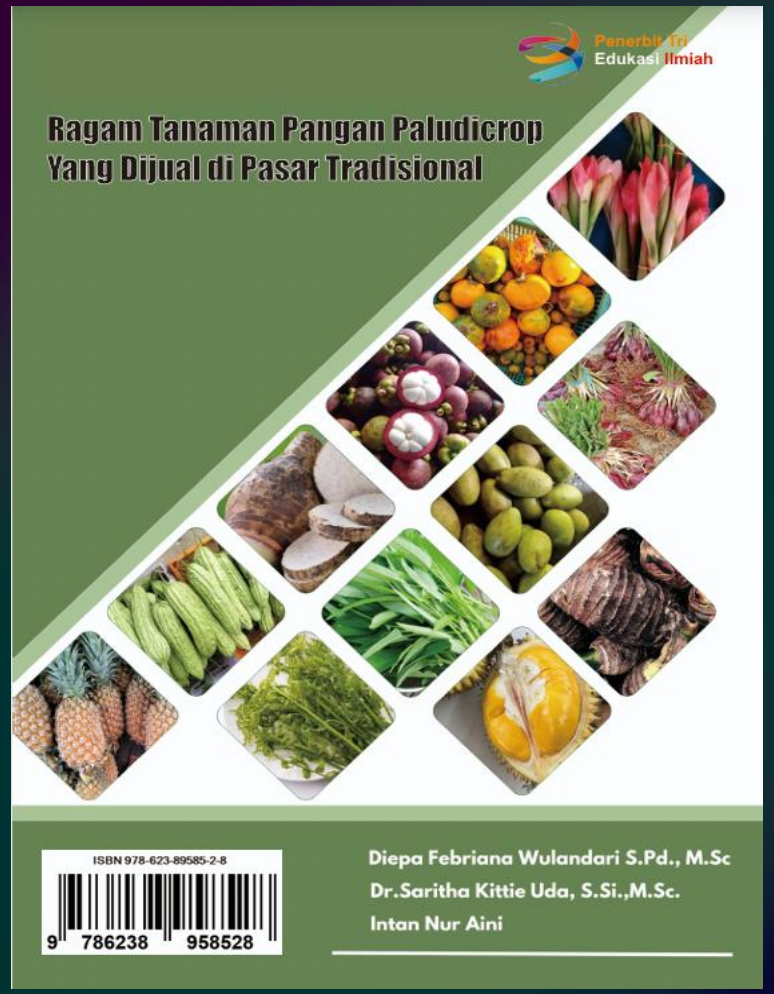


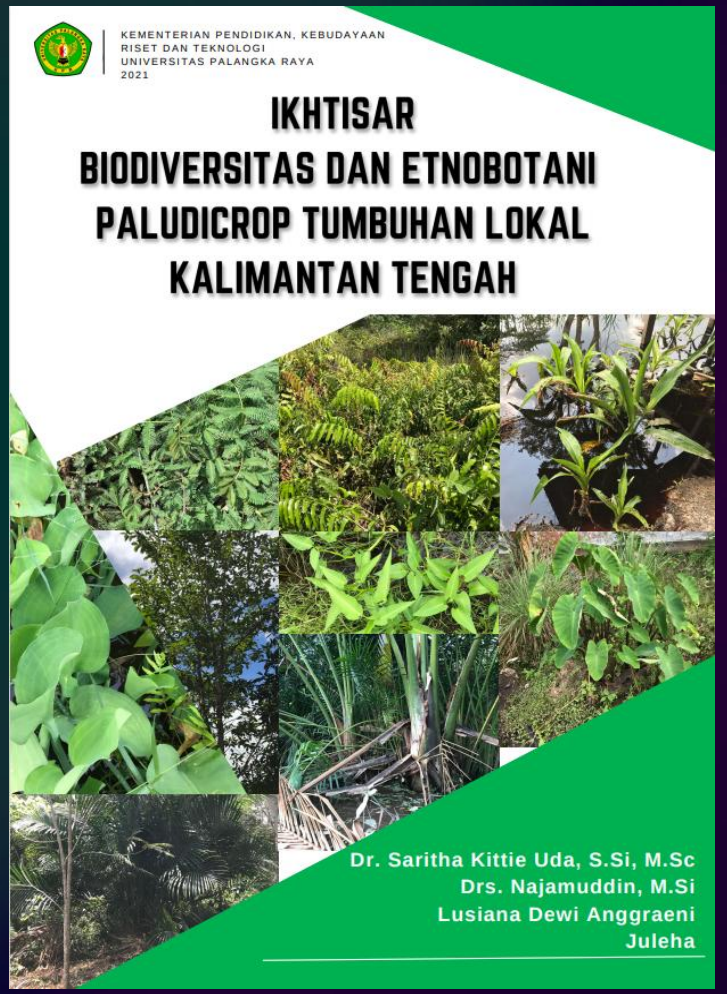




Articles, Books, & Booklets







PEATLAND FIRES AND HAZE ISSUE



DISCUSSION

1) Could you briefly share your research or activities related to peatland issues?
2) What are the main challenges for cooperation in peatland governance?
3) What cross-border collaboration opportunities seem most effective?

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