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**“Peatlands for Environment, Food,
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Bogor, 21-22 October 2021


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Supiandi Sabiham¹, Susan Page², Lulie Melling³, Hermann Behling⁴, Shinya Funakawa⁵, Darren Kidd⁶, Suwardi¹, Gusti Z. Anshari⁷, Surono⁸

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The increase of world population needs more food, feed, fuel, and fiber. Meanwhile, agricultural land supply is somewhat stationary or even decreasing. Ensuring food provision requires both intensification and expansion strategies. Considering internal circumstances, options may vary across countries. Indonesia, for instance, by population growth rate at 1.3 % year⁻¹ and increasing middle income families, the need of diversity and improved quality of food become prevalent. Nevertheless, irrigated agricultural production decreased considerably, being converted to non-agricultural uses. The deterioration of agricultural land resources has occurred due to mismanagement while climate change has worsened the conditions globally.

Narrowing yield gap in the existing agricultural land has been the primary efforts worldwide. Various farming systems have been established to minimize agro-inputs while generating high yields. The efforts differ across agro-ecosystems and being specific for each country. In Indonesia, the agro-ecosystems are divided into irrigated and rainfed agricultural lands, uplands (dry- and wet-climate agricultural lands), and wetlands (tidal and non-tidal agricultural lands, including peatlands). Each ecosystem requires specific land management which combines strategies and components previously studied.

Considering the potential of peatlands for agriculture, its role will be imperative for the future of agriculture in Indonesia. Technologies to map and optimize peatlands are available worldwide and ready to scale up. Such best practices could be documented as main reference for peatland development.

Peatland Society of Indonesia (HGI) aims to contribute on achieving several sustainable tropical-peatland-development goals, particularly SDG-1, zero hunger; SDG-2, poverty eradication; SDG-13, climate action; and SDG-17, partnership. The role of HGI and other stakeholders is vital to ensure in



achieving these SDGs, yet policies and regulations to warrant environmental services of peatlands should be ratified. Suitable approaches composing of landscape-based and agro-ecological concerns should be further developed to accomplish the goals. Therefore, HGI would synergize innovations with people and environment through capacity building and raising awareness to succeed sustainable development.

This proceeding is produced as an edited result of the reviewed papers presented in the International Seminar on Tropical Peatland: *Peatlands for Environment, Food, Fiber, Bio-energy, and People*, held in Bogor, Indonesia on October 21-23, 2021. In fact, this seminar was planned to commence on 25-26 October 25-26, 2020. Nonetheless, due to Covid-19 pandemic, it was postponed one year. The seminar aims to explore advancement and issues related to peatland in Indonesia and global context. We thank our sponsors and supporters, including Department of Soil Science and Land Resources, IPB University, Ministry of Agriculture, Ministry of Environment and Forestry, APRIL, APP and APHI.

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February 2022

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- **Type of peer review:** Double Anonymous
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- **Number of submissions sent for review:** 85
- **Number of submissions accepted:** 42
- **Acceptance Rate (Submissions Accepted / Submissions Received × 100):** 51.8
- **Average number of reviews per paper:** 3
- **Total number of reviewers involved:** 20
- **Contact person for queries:**
Name: Dr. Markus Anda
Email: markusandas@yahoo.com
Affiliation: Indonesian Centre for Agricultural Land Resource Research and Development



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Sri Suharti, Hesti L Tata and Diana Prameswari

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Stakeholder mapping for scaling up purun woven agroindustry as an alternative to strengthening livelihoods on peatlands

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Association among *Lepironia articulata* Cyperaceae, peat soil and people in Wanggate, Mappi, Papua

Nurhaidah I Sinaga, Obed N Lense, Hendry and Rudolf Tukayo

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Study of oil palm plantation on peatland under spatial policies in Jambi Province, Indonesia

Ernan Rustiadi, Setyardi P Mulya, Didit O Pribadi, Asmadi Saad, Supijatno, La Ode S Iman, Andrea E Pravitasari, Mia Ermyanyla and M Nurdin

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A study of sustainable peat cultivation implemented by the community of Tumbang Nusa Village, Central Kalimantan

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The potential of bacterial key species as a tool for monitoring peatland quality

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Land clearing area prioritization using GLAD alert data to prevent peat fires in South Sumatera, Indonesia

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Measuring peat motion and water table dynamics on tropical peatlands using high-resolution time-lapse camera in four different land cover types across South Sumatra and Central Kalimantan

Dede Sulaeman, Ihsan Hafiyyan, Hidayah Hamzah, Chris D Evans, A Jonay Jovani-Sancho and Adi Jaya

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012017

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H Munawaroh, A Rauf, Razali, Bintang and T Sabrina

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Evaluation on the determination of available phosphorus using blue molybdate in Organosols

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E Maftuah, Y Lestari, Y Sulaeman and H Sosiawan

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Litter production and leaf litter decomposition rate in secondary peat swamp forests in Central Kalimantan, Indonesia

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Variations in peat soil properties at the west coast of Sumatra Island

E Suryani, M M Pratamaningsih, R Q Muslim, Erwinda, D P Hati, P Kricella, E S Nugroho, R E Subandiono and M Anda

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Analysis of FTIR spectroscopic data to observe hydrophilic and hydrophobic levels of peat in hemic and sapric maturity

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