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ON AGRICULTURAL GREENHOUSE GASES

**CROPLANDS RESEARCH GROUP:
Peatland Management in the Tropics**

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Introduction

Despite being a vulnerable ecosystems, peatland has been used for various agricultural crops

The government of Indonesia has ban the issuance of new license for agro-industry on peatland

It's crucial to intensify management systems on existing agricultural land on peatland to increase yield and minimize environmental degradation

Activities/Accomplishment since last meeting

Initiating field activities of a 2020-2023 collaborative (ICRAF and Indonesian Soil Research Institute) project on “Improving the Management of Peatlands and the Capacities of Stakeholders in Indonesia (Peat-IMPACTS Indonesia)”

- Evaluating peat subsidence from forest, shrubland, plantation, and fire prone shrubland
- Measuring the effects of water table fluctuation on CO₂ flux from oil palm plantation. Raising water table for prolonging the lifespan of peatland and reducing CO₂ emissions from decomposition (and peat fire)
- The results of this research findings will be used for improving the national and sub-national GHG Inventory from peatland

Research and Capability Priorities

- Research Opportunities (mitigation co-benefits theme):

Tentative title	Funding source	Due
Oil palm land use and management systems on peatlands for improving environmental and economic indicators	Palm Oil Plantation Fund Distribution Agency (BPDPKS)	18 Feb 2022
Improving crop nutrient management on peatland: Crop yield increase and GHG emissions reduction	Research fund disbursement institute (LPDP).	?