GLOBAL RESEARCH ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

CROPLANDS RESEARCH GROUP: Peatland Management Network

Co-chairs: Hanna Silvennoinen (Simon Weldon?), Fahmuddin Agus

Membership:...?

For GRA meeting on Jan. 17 and 18, 2023 in Seville Spain and online

Assumed Membership



Member Countries with Boreal and Temperate Peatland	Member countries with Tropical Peatland
Norway	Indonesia
UK	Malaysia
Ireland	Brazil
Finland	Peru
USA	Costa Rica
Canada	Argentina
Sweden	Chile
?	Congo

- Please confirm that your country is a member or would like to be a member
- We need to choose who will be the co-chairs; perhaps one from the boreal/temperate area and the other from the tropical area?
- The co-chairs may need to plan a meeting to discuss activity priorities and possible joint proposal

- Exchange of emails between Indonesia and the new representative of Norway (Dr. Simon Weldon)
- "Slowing-down" our research activities (on GHG Inventory Improvement) due to a major reorganization in Indonesia

Research (funding) Opportunities:

Research Topics	Potential funding source
Improving nutrient (especially K, Ca, Mg, B) management by using stonemeal: Economic feasibility and GHG intensity reduction	BPDPKS (agency for managing palm oil export levy)
Enhancing carbon stock using biochar	??
Water table management for reconciling oil yield and GHG emissions	??
???	??

Barriers / Opportunities to achieving C neutrality in cropping systems



Facts about peat emissions

- Drained peat continue to emit CO₂ through heterotrophic decomposition
- Drained peat is prone to fire
- The emission rate may decrease with time since the drainage commences, but unlikely stop as long as the peat is drained
- CO₂ removal by plants is much lower than that of emission by decomposition.

Barriers / Opportunities to achieving C neutrality in cropping systems



Barriers:

- Current high economic-value, and high market demand crops are cultivated under drained peat condition, rather than under undrained condition (paludiculture)
- In some countries agricultural areas under drained peatland are relatively large, and it contribute to a high emission source

Opportunities:

- There are regulations in many countries on peatland protection
- Emission reduction from peatland is an important part of NDC among parties to the UNFCCC