GLOBAL RESEARCH ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

CROPLANDS RESEARCH GROUP: Germany Country Update

CRG representative: Prof. Dr. Heinz Flessa (Thünen Institute of Climate-Smart Agriculture)

Activities/Accomplishment since last meeting



General political development in Germany:

- Revision of the federal climate change act 5/2021. More ambitious emission reduction targets. For agriculture emissions have to be reduced from 70 mio t CO2-Äq in 2020 to 56 mio t CO2-Äq in 2030.
- New government in Germany: Ministers from the green party in the Federal Ministry of Food and Agriculture and in the Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection. → joint transformation of agriculture production and human nutrition towards more sustainability



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- New project: <u>German peatland monitoring program for climate</u> protection (Thünen Institute, running until 2025, large project with a team of 15 persons).
- The Thünen Institute will be involved in projects related to (1) carbon farming (EJP-Soil: "<u>Road4Schemes</u>") and (2) Biochar as negative emission technology (contact: <u>Leonardo Amthauer</u> <u>Gallardo</u>)



- Recent research call supported by the German Federal Ministry of Food and Agriculture (7/2021): "Climate friendly nitrogen management in crop production" → The call is closed and the proposals and all applicants are waiting for the decision:
 - <u>Key topics</u>: i) reduction of NH₃ and N₂O emission in crop production, ii) effect of nitrification inhibitors on annual N2O emission and ecotoxicological effects of long-term application of inhibitors, iii) Reducing nitrogen losses by denitrification.
- German researchers have shown their interest to participate in the proposed GRA flagship project "Optimising the use of nitrogen fertiliser, more production and less environmental impact (N4R)"



- Submission deadline: 20 May 2022
- If you are interested, please contact the journal office (Ms. Miguel Zhou <miguel.zhou@mdpi.com>) to ensure that you will get the mentioned discount
- More information on the Special Issue: <u>https://www.mdpi.com/journal/agriculture/special_issues/agricultu</u> <u>re_greenhouse_gas_mitigation</u>