

The logo for the Global Research Alliance, featuring a stylized globe composed of a grid of blue circles on a dark blue background.

GLOBAL
RESEARCH
ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

CROPLANDS RESEARCH GROUP: Denmark Update

A close-up photograph of a field of golden wheat stalks, with the stalks in the foreground slightly out of focus and the background more sharp.

CRG representatives:
Lars J. Munkholm

Activities/Accomplishment since last meeting

- Søren O. Petersen is involved in a planned revision of the “Nitrous Oxide Chamber Methodology Guidelines” (ed. De Klein and Harvey, 2015). A closed workshop on criteria for flux calculation method will be held in Denmark in September 2018 as part of this work.
- Participation in the European research infrastructure project Analysis and Experimentation on Ecosystems (AnaEE). Investment in new technologies to study effects of climate change.
- Initiator of and participant in the iClimate interdisciplinary thematic centre at Aarhus University (Agriculture and Climate a main pillar.
- Participating in the Conservation ag. network under the Cropland group

Activities/Accomplishment since last meeting

New projects:

- Effects of DMPP on N₂O emissions and N leaching from sandy soil with maize after grass-clover –lysimeter and laboratory experiments, LCA
- Carbon storage in conservation agriculture on organic and conventional farms (CarbonFarm) – includes activity to document N₂O emissions after legume crop incorporation

Opportunities and plans

- Dept. Agroecology has initiated a collaboration with USDA about nutrient use efficiency in organic cropping systems. A symposium, “Soil Nutrient Dynamics, Cycling, and Availability in Organic Systems”, will take place as part of the ASA meetings in Baltimore (5 Nov 2018).