

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: Sweden, Country 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: Thomas Kätterer


Activities/Accomplishment since last meeting

- Participation in the Soil Carbon Sequestration (SCS) Network led by Denis Angers, Canada, and Claire Chenu, France.
- Participation in the Integrative Research Group Meeting, Paris, 17 January 2018
- Presentations at several national and international meetings about systematic reviews on soil carbon changes, financed by Sweden through the Mistra Council for evidence based environmental management :

Haddaway et al. *Environ Evid* (2015) 4:23
DOI 10.1186/s13750-015-0049-0

Environmental Evidence

SYSTEMATIC MAP **Open Access**

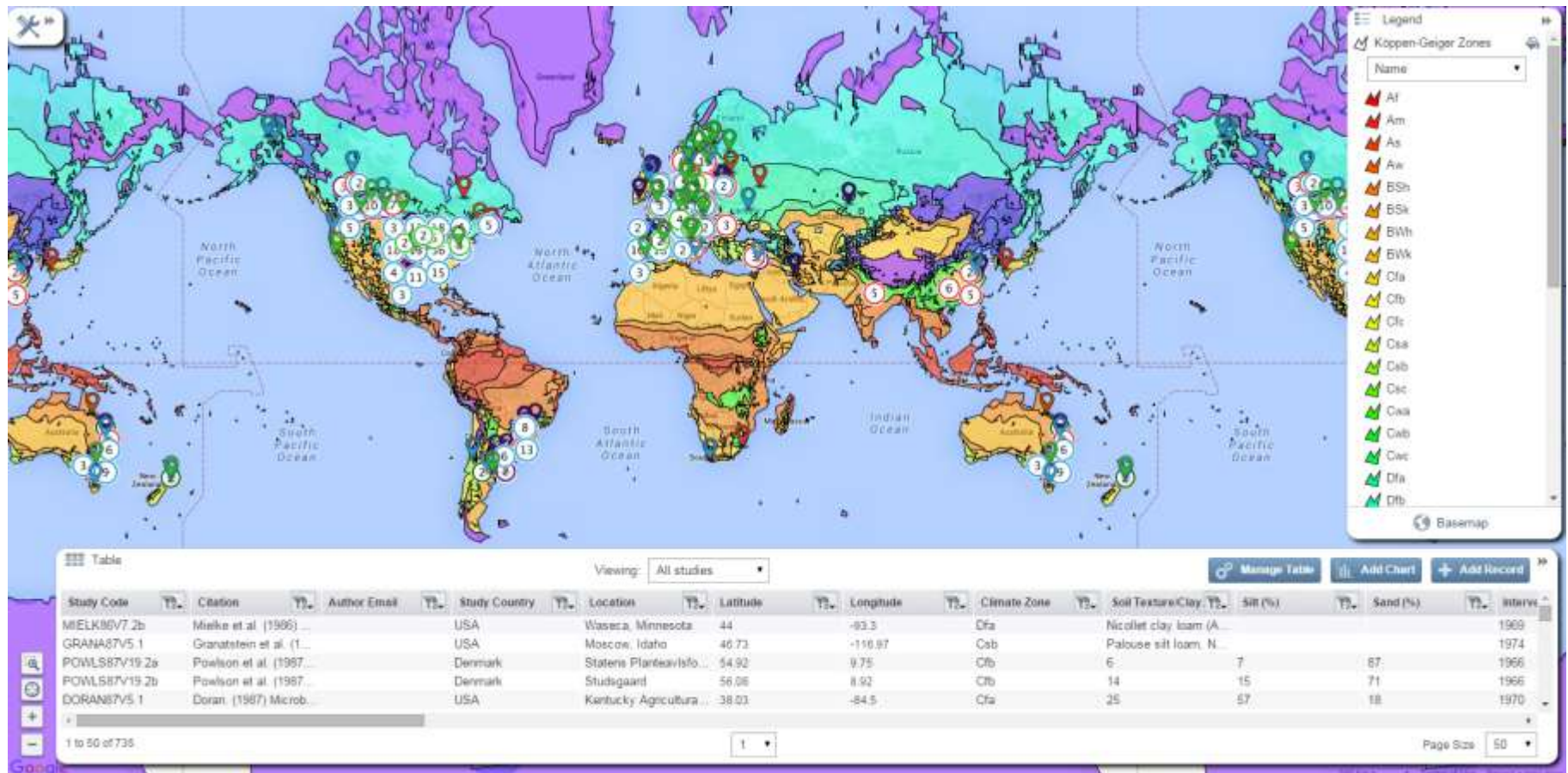
 CrossMark

What are the effects of agricultural management on soil organic carbon in boreo-temperate systems?

Neal R. Haddaway^{2*}, Katarina Hedlund², Louise E. Jackson³, Thomas Kätterer⁴, Emanuele Lugato⁵, Ingrid K. Thomsen⁶, Helene Bracht Jørgensen² and Bo Söderström¹

Activities/Accomplishment since last meeting

Systematic map, 735 long-term experiments (>10 years)



Opportunities and plans

Completed reviews on tillage:

- Haddaway et al. 2016. Environmental Evidence 5:1
- Meurer et al. 2018. Earth-Science Reviews 177: 613-622

Ongoing work:

- Selected crop rotations (perennial, legumes, monocultures)
- Time series
- Yields vs. SOC
- Fertilizers
- Organic amendments

Planned work within the Soil Carbon Sequestration Flagship and Soil Carbon Sequestration Network (Paris meeting 2018):

- Systematic global review of management practices on soil carbon
[Action: Sweden, UK, USA, Spain, Canada, France].