

Gregory Taff

Norwegian Institute of Bioeconomy
Research (NIBIO)
(formerly Norwegian Forest and Landscape Institute)

Effect of climatic changes on grassland growth, its water conditions and biomass

- Funding from Norway-Poland grant scheme: 973 106 EUR
- Project Promoter: Institute of Geodesy and Cartography in Warsaw (PI: Prof Dr. Hab. Katarzyna Dąbrowska-Zielińska)
- Polish partners
 - Institute of Technology and Life Sciences, Malopolska Research Centre in Krakow
 - Poznan University of Life Sciences, Department of Grassland and Natural Landscape Sciences
- Goals:
 - Develop methods to estimate cultivated grassland yield based on remote sensing data
 - Model cultivated grass growth with environmental variables under multiple growing conditions
 - Assess recent climatological and phenological changes/trends in study sites, and their effect on cultivated grassland growth

Invasive species (Giant Hogweed)

- Mapping giant hogweed
- Distribution modeling
- Landowner characteristics associated with control of giant hogweed
- Perceptions of Giant Hogweed
- Outreach/community education and PPGIS
- Future: study effectiveness of various control programs

NIBIO

Norwegian Institute for Bioeconomy Research

- Under Ministry of Agriculture
- Largest public research institute in Norway
 - ~700 employees, majority are researchers
- Divisions
 - Food Production and Society
 - Forest and Forest Resources (Includes National Forest Institute)
 - Biotechnology and Plant Health
 - Environment and Natural Resources
 - Geography and Statistics (includes Norway's vegetation mapping Department)
 - My department: Landscape Monitoring
 - We assess the effects of different types of landscape change, e.g. in relation to sustainability, as well as studying the driving forces behind the changes. To quantify and report on changes as accurately as possible, we also develop methods related to monitoring and documentation and we work with indicator development and testing
- NIBIO International Department

Other topics for collaboration

I/we have plenty of time to write/work on proposals!

- Plan to lead (most likely) a Horizon 2020 call on European grassland management:
ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/6052-sfs-27-2017.html
- Providing refugees with land for gardening/farming
- Ecological restoration
 - Develop framework to assess restoration level/success
 - Case studies
- Farmland abandonment – causes/consequences
- EEA/Norway grants – I can be the Norwegian partner
- Norwegian embassies have some money – particularly Georgia
- Examples of other topics at NIBIO I/we can collaborate on:
 - Norwegian Forest Dept housed here
 - Land cover classification
 - Ecosystem services
 - Urban/regional planning
 - Landscape ecology
 - International development – via agriculture, environment, tourism