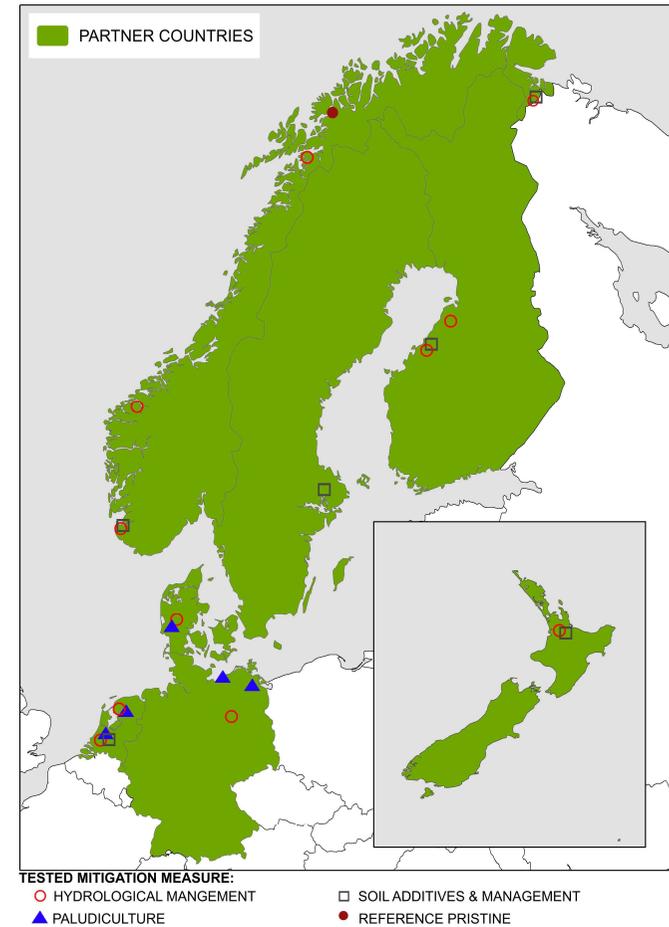




PEATWISE

Case studies, the Netherlands



Friesland, The Netherlands

Site type:

Grassland on organic soil

Mitigation measure tested:

WTL elevation during summer with submerged drains



Gersloot, Friesland, The Netherlands

Contact person: Christian Fritz (c.fritz@science.ru.nl)

Description, land use history: Intensive grassland on drained peat, No clay layer

Climate		Soil quality and agronomy		Hydrology and drainage	
Location	53° 1'37.13"N, 5°56'24.24"E	Peat depth	2m	Drainage started	2017
Mean annual precipitation (mm y⁻¹)	809	Underlying soil	Sand	Drain depth past (cm)	Ditch depth ± 100
Mean annual T (° C)	9,9	Crops	<i>Grass (Lolium perenne)</i>	Drain depth present (cm)	Average 70
PET	580 mm yr ⁻¹	Rotation	No rotation	Drain spacing (m)	115
Mean length of growing season	6 months	Fertilization Kg N ha y⁻¹	230 Manure; 100 Mineral		
		Harvests	1.1 kg DW m ⁻²		

Koufurderrige, Friesland, The Netherlands

Contact persons (site owner, land owner): Christian Fritz (c.fritz@science.ru.nl)

Description, land use history: Intensive grassland on drained peat, With 30-40 cm clay-layer

Climate		Soil quality and agronomy		Hydrology and drainage	
Location	52°56'57.60"N, 5°39'40.04"E	Peat depth	1,5m	Drainage started	2017
Mean annual precipitation (mm y ⁻¹)	809	Underlying soil	Sand	Drain depth past (cm)	Ditch depth ± 100
Mean annual T (° C)	9,9	Crops	<i>Grass (Lolium perenne)</i>	Drain depth present (cm)	Average 70
PET	580 mm yr ⁻¹	Rotation	No rotation	Drain spacing (m)	125
Mean length of growing season	6 months	Fertilization Kg N ha y ⁻¹	150		
		Harvests	1.2 kg DW m ⁻²		

Site description Friesland



Clay layer of
around 30 cm

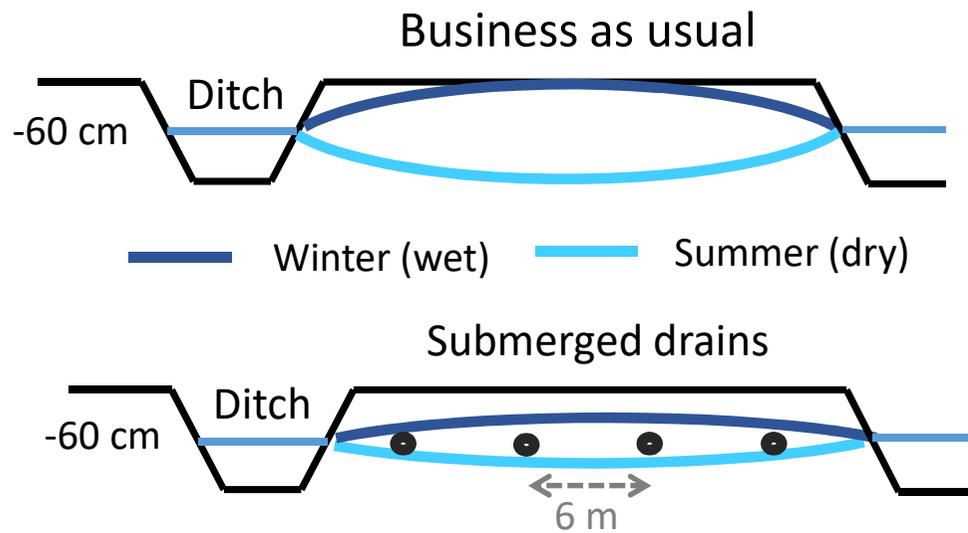
Layered,
unpenetrable peat



Pasture land,
mainly for milk
production.

Research set-up Friesland

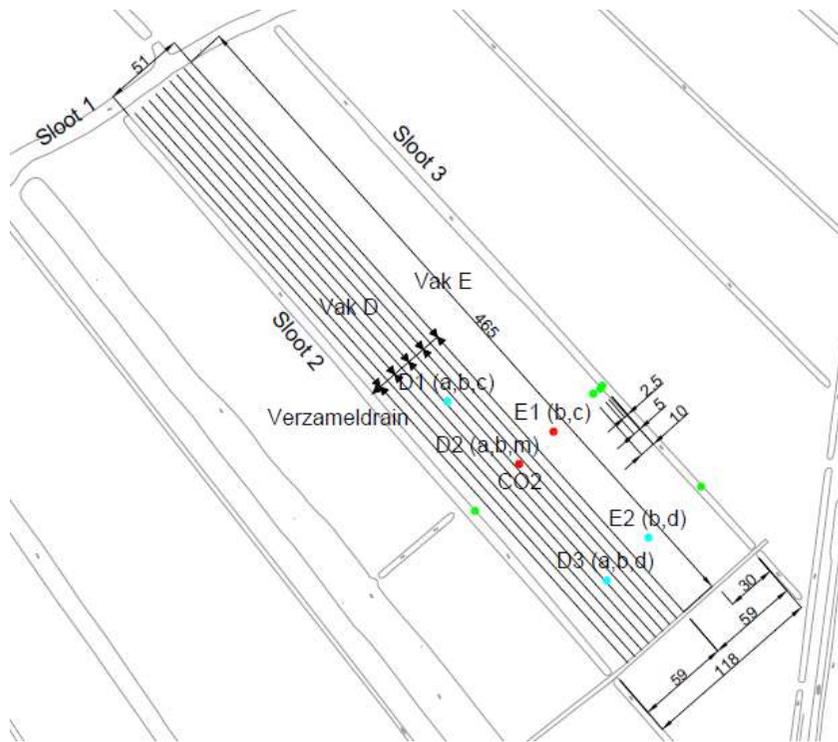
On 4 farms (2 included as case study site) 1 field with submerged drains and 1 control field.



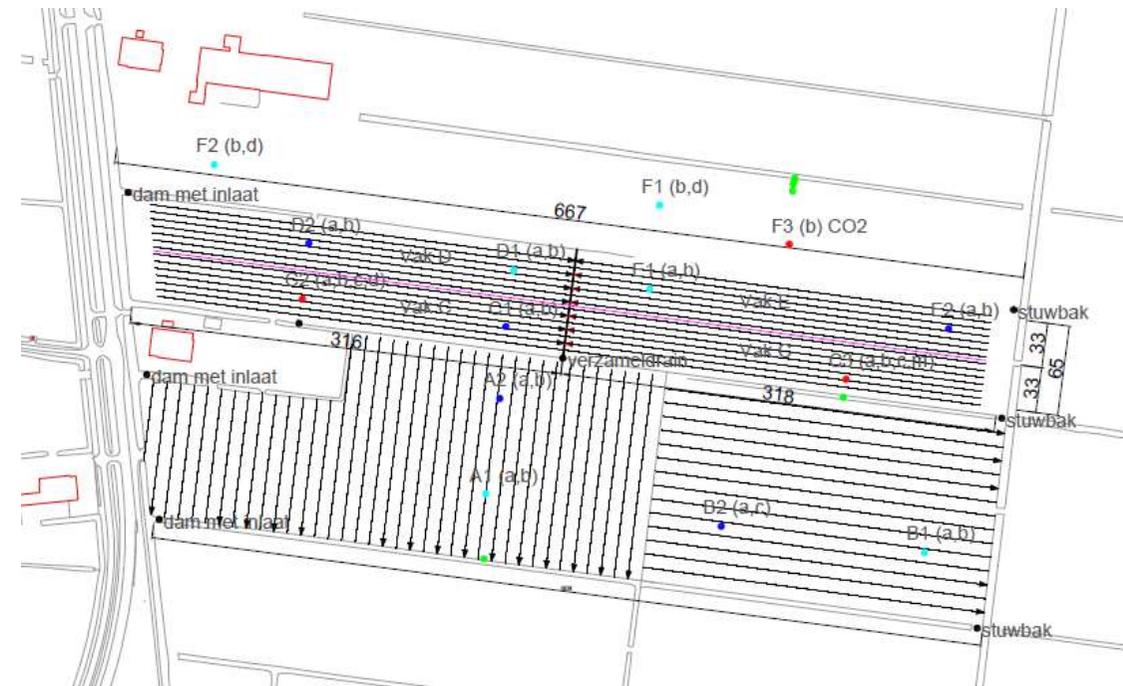
Measurements on all fields: CO₂ flux, CH₄ flux, water table, soil moisture, subsidence, ...and more.

Set-up submerged drain fields

1. Gersloot



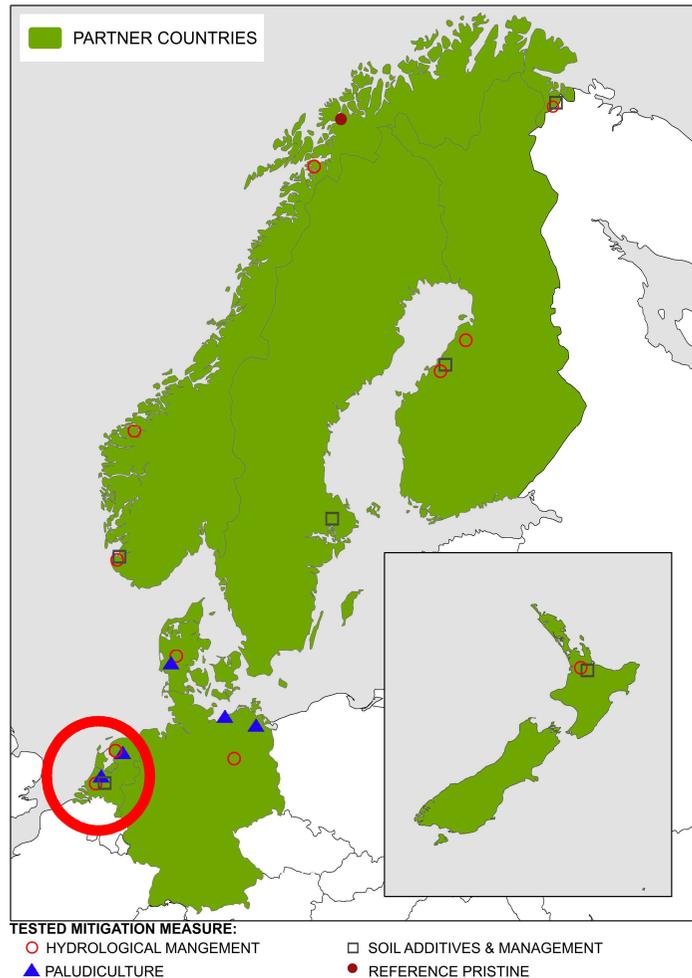
2. Koufurderrige



Zegveld, The Netherlands

Site type:
Paludiculture

Mitigation measure tested:
Crop (*Typha*) production on rewetted peatland



Zegveld , The Netherlands

Contact person: Christian Fritz (c.fritz@science.ru.nl)

Description, land use history: An experimental field with Typha

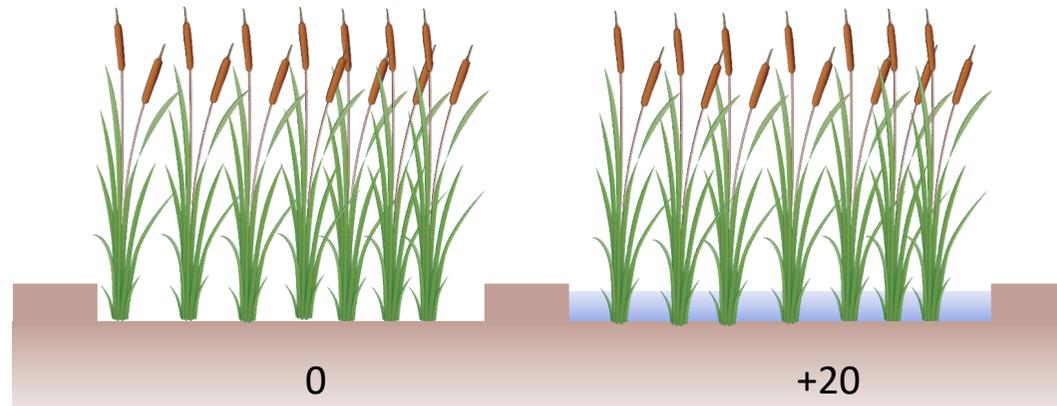
Climate		Soil quality and agronomy		Hydrology and drainage	
Location	52° 8'21.27"N, 4°50'19.58"E	Peat depth	3-6m	Rewetting started	2015
Mean annual precipitation (mm y ⁻¹)	831	Underlying soil	Sand	Drain depth past (cm)	-60(?)
Mean annual T (° C)	10,7	Crops	<i>Typha latifolia</i>	Drain depth present (cm)	No drains
Mean length of growing season	6 months	Rotation	No rotation	Drain spacing (m)	No drains
		Fertilization Kg N ha y ⁻¹	No fertilization or 150 kg N ha ⁻¹		
		Harvests	0.5-1.0 kg DW m ⁻²		

Site description Zegveld



Research set-up Zegveld

+ 150 kg N ha⁻¹



Control

