

ReSurveyEurope

Project Metadata Form

When contributing data to ReSurveyEurope, please fill in this form for each resurvey project and send it to Ilona Knollová (ikuzel@sci.muni.cz) together with the database. A resurvey project is understood as repeated sampling of a certain type of vegetation in a certain study area using specific methods.

- PROJECT NAME (identical with the Resurvey Project name given in the database):

Cattle Exclusion on Pyrenean mires.

- FULL PROJECT NAME (use if the full project name is longer than used in the database):

Resurveying North-Eastern Iberian Peninsula.

- REFERENCE (publication or URL or DOI of the dataset if published online):

Not published

- DATA OWNER: person(s), institution(s):

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- METHODS (description of sampling design and methods):

On *Cattle Exclusion on Pyrenean mires*, we aim at recording the vegetation dynamics on passive restoration from overgrazing in the Pyrenees. We set 136 permanent plots distributed along 10 localities in the subalpine belt (from 1600 to 2200m a.s.l.) with 10-19 plots per locality, half of them inside a permanent fence, half on control conditions. All the localities are grazed by domestic herds (mostly bovine but also equine or ovine), and a fence protects a part of the mire from grazing since 2018, the first year of sampling. From 2018 to 2020, we sampled once a year, between July and August, and we registered all the vascular plants and its abundances using Domin scale (from 1 to 10) and other ecological and environmental variables from each plot (see below). Every plot is 1 × 1 m size and is marked by stakes, so the same area is studied between sampling years. We preview to include other ecosystems to the dataset in the coming years.

- ENVIRONMENTAL DATA (list of environmental data measured):

On *Cattle Exclusion on Pyrenean mires*, we recorded some ecological data related to the groundwater, the physical situation for each plot, the cattle pressure, or vegetation itself.

- Almost every plot in almost every sampling period (at least one value per plot): Groundwater level (cm); electrical conductivity of the groundwater ($\mu\text{S}/\text{cm}$); pH of the groundwater; orientation and slope (grades).
- All the plots on 2020 and 2019 (and sometimes on 2018): number of dejections by cattle; bare soil (%); bryophyte cover (%); *Sphagnum* cover (%); not *Sphagnum* bryophytes cover (%); herbaceous cover (%).
- Almost every plot on 2020: trampling and grazing (qualitative scale).

- MANIPULATED PLOTS (description of the treatment if the plots were manipulated, e.g. mowing twice a year, fertilizing by NPK once a year, post-fire succession)

On *Cattle Exclusion on Pyrenean mires*, we constructed a fence on each location to protect the half of the mire from cattle, and those manipulated plots are located inside the fence since the beginning of the project (summer 2018). Some fences are electrified (plots containing Er, TdO, Est, Mr locality codes) and others have steel grilles from the soil to 1m high (Gue, Bo, Bg, Bd, Pl, Rub). Not manipulated plots are outside the fences, and cope with mid to high grazing pressure.

Barcelona, 31th January 2021

Eulàlia Pladevall-Izard

A handwritten signature in black ink, appearing to read 'Eulàlia', enclosed within a circular scribble.