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Generalitat de Catalunya Forestal Catalana, SA



Generalitat de Catalunya

Departament d'Agricultura, Ramaderia,
Pesca, Alimentació i Medi Natural









LIFE LimnoPirineus LIFE13 NAT/ES/001210

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## OFICINA TÈCNICA LIFE+LIMNOPIRINEUS

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Aquatic continental systems are scarce environments that occupy only 2% of the Earth surface but, at a global scale, are highly threatened. These are environments with a very specific and sensitive fauna and flora where threatened species are abundant.

In the Pyrenees, these wetland ecosystems are generally considered very natural landscapes. Despite their remote location, anthropogenic perturbations have not been absent.

## Main threats

- The introduction and spread of alien species, especially various species of fish (salmonids and cyprinids), abundantly introduced in high mountain lakes and streams originally fishless.
- Changes caused by the hydroelectric water level fluctuations.
- The excessive presence of both livestock and people around springs or peat bogs crossed by tourist paths.
- The high degree of isolation of some species populations that are now in danger of extinction decimated by various anthropic actions, such as the floating water plantain (L. natans) and the Pyrenean sculpin (C. hispaniolensis).

As part of this project, conservation actions will be taken in the National Park Aigüestortes i Estany de Sant Maurici, the Natural Park of Alt Pirineu, and the Estanho of Vilac located in the Val d'Aran.

## Conservation actions

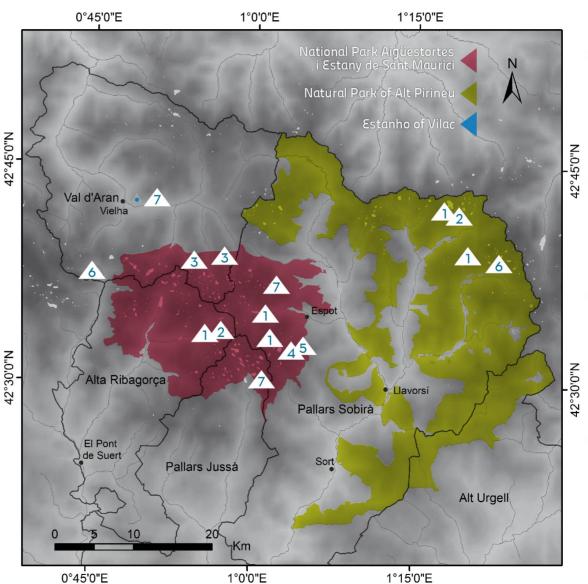
Restoring the natural state of some lakes through the elimination and control of alien fish species allowing the recovery of native species.

Restocking the common brown frog, the common midwife toad and the Pyrenean brook salamander by the translocation of individuals in some restored lakes.

Improving the Pyrenean sculpin populations through the translocation of individuals.

Restoring the natural flow in certain peat bogs affected by hydrological changes.







Restoring the degraded peat bogs by replanting species typical of these environments (Sphagnum mosses and clumps of Carex).

Improving the quality of peat bogs under heavy pressure from tourism by building elevated platforms.

Improving the condition of tufa-forming springs, natural eutrophic lakes and the aquatic water plantain (Luronium natans) building watering troughs to reduce livestock attendance.

Developing conservation plans and assessment protocols for the management of species and natural habitats of European Community interest.