

The "Groupement Forestier des montagnes particulières de Hèches": a case from the mountains of southwestern France

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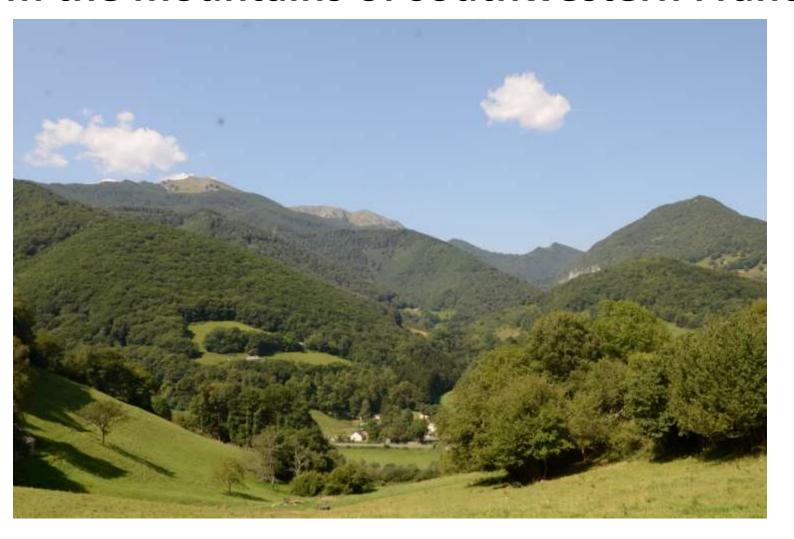
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Laurent Larrieu

INRAE Dynafor CNPF-CRPF Occitanie



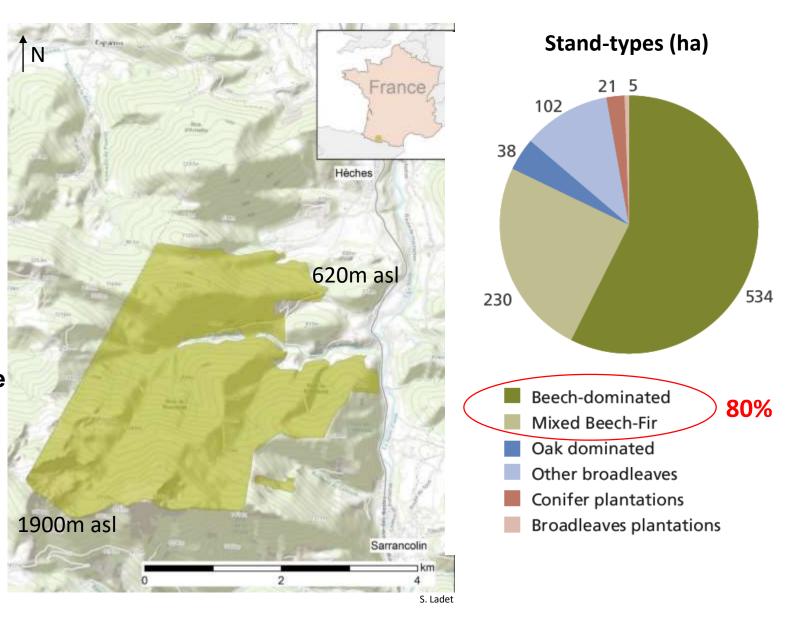




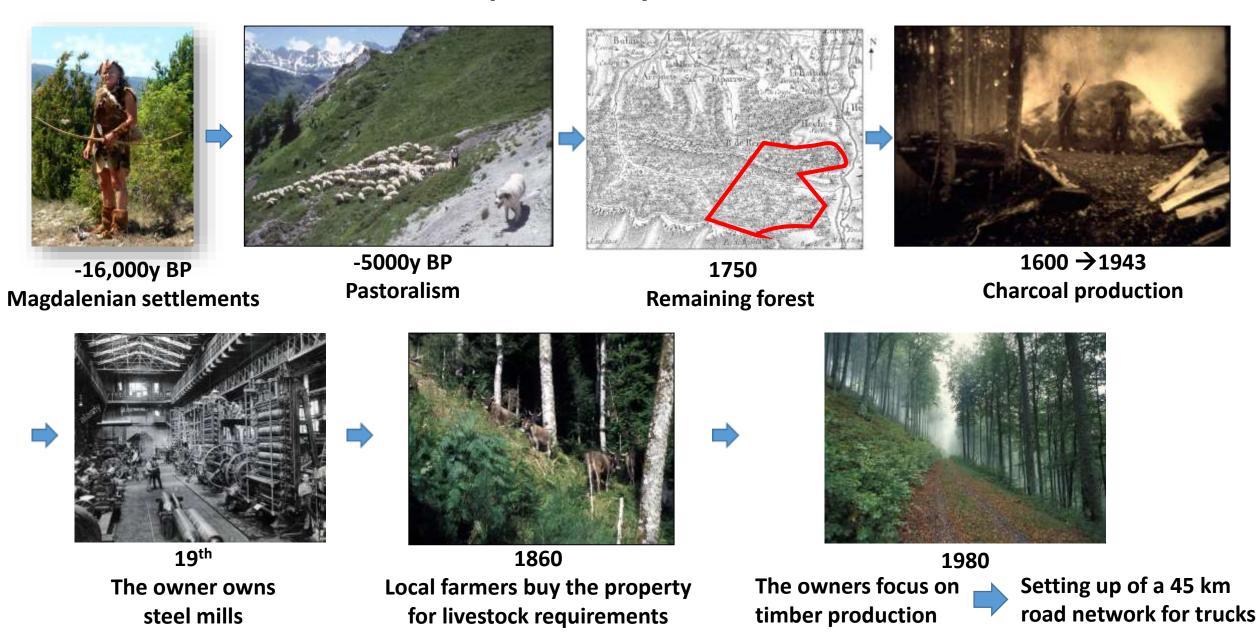
A montane beech- and beech-silver fir-dominated forest

- Total area 1202 ha
- 930 ha forest
- 272 ha subalpine meadows

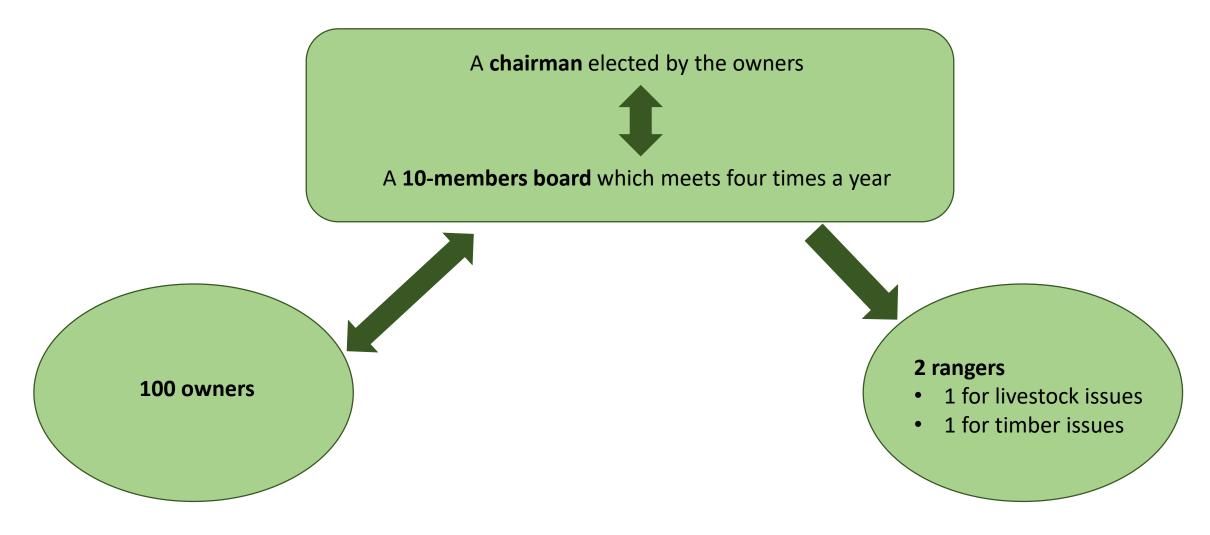
- > Atlantic-mountain macroclimate
- > 19 geological substrata



An ancient forest in a landscape used by humans for millennia

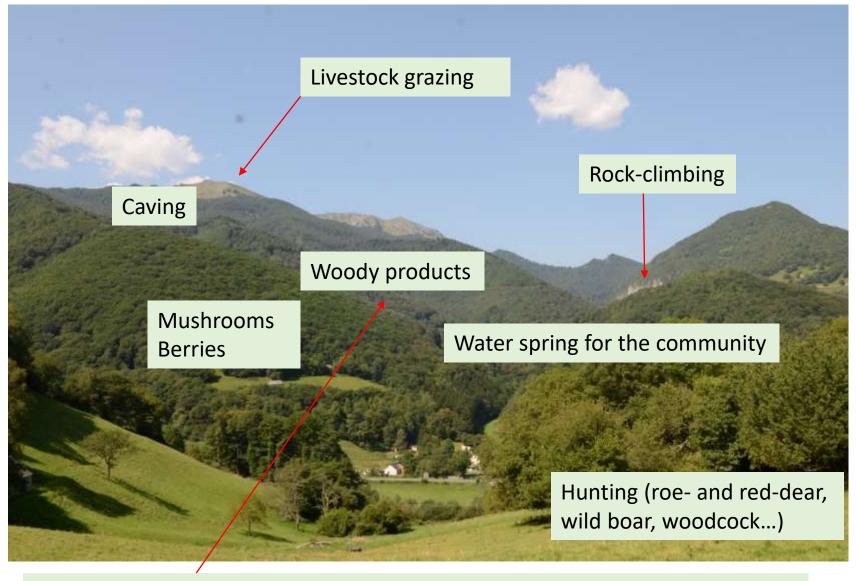


An property owned by 100 people and collectively managed



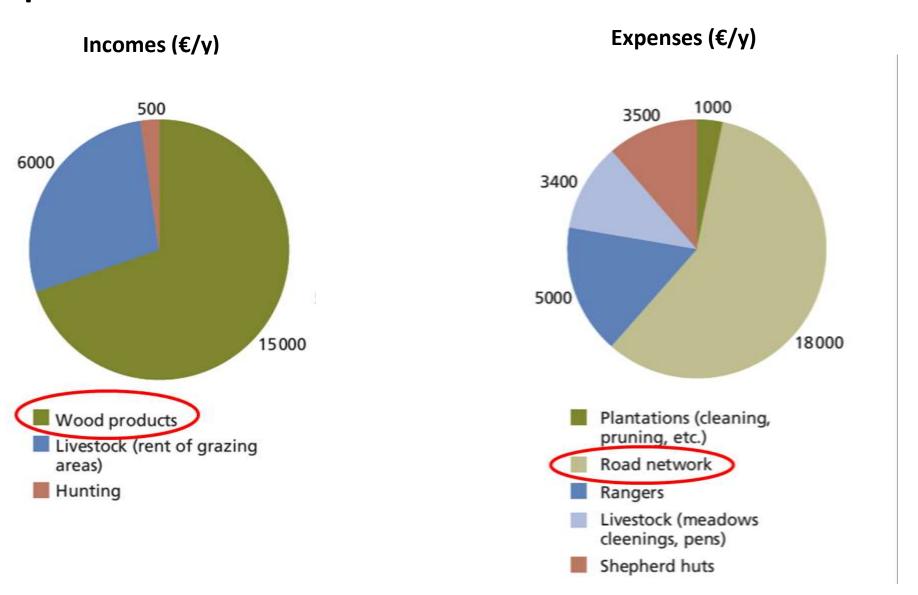
Once a year, a meeting gathers all the members of the ownership group and the main strategic guidelines are discussed and then approved.

A property managed with several purposes



About 6000 m3/y of timber harvested + 120 m3/y of fuelwood for the owners

Woody products are always the main income while road-network is currently the main expense



A study field since 2000: toward an adaptative management...

Studies focusing on the property

Bull. Soc. Linn. Bordeaux, Tome 145, (N.S.) n°38 (4) 2010 : 397-416.

Contribution à la connaissance des Coléoptères saproxyliques des forêts pyrénéennes (3^{ème} note : la forêt de Hèches, Hautes-Pyrénées)

Antoine BRIN, Hervé BRUSTEL, Lionel VALLADARES
Université de Toulouse, École d'Ingénieurs de Purpan,
75, voie du T.O.E.C., BP 57611, F-31076 TOULOUSE Cedex 3

rent LARRIEL

INRA, INPT/ENSAT, UMR1201 DYNAFOR, F-31326 Castanet-Tolosan, et CRPF de Midi-Pyrénées, F-65000 Tarbes

> Eur. J. Entowol. 112(4): 755-769, 2015 doi: 10.14411/eje.2015.083 ISSN 1210-5759 (print), 1802-8829 (online)

Hoverfly (Diptera: Syrphidae) richness and abundance vary with forest stand heterogeneity: Preliminary evidence from a montane beech fir forest

LAURENT LARRIEU1.2, ALAIN CABANETTES1 and Jean-Pierre SARTHOU1.4

LAURENT LARRIEU - CLAUDE NYS - BERNARD JABIOL

PRISE EN COMPTE
DE LA FRAGILITÉ CHIMIQUE DES SOLS FORESTIERS
DANS LES CONSEILS DE GESTION.
ILLUSTRATION POUR UNE SAPINIÈRE-HÊTRAIE MONTAGNARDE
SUR ROCHE ACIDE
(VALLÉE D'AURE, HAUTES-PYRÉNÉES)

A sampling field site for wider purposes

Documents Mycologiques - Tome n°XXXIV - Fascicule n°135-136 - octobre 2008

Étude mycocoenologique de la hêtraie sèche à Sesleria caerulea (Cephalanthero-Fagion), des Pyrénées centrales.

par Gilles Corriol* et Laurent Larrieu**



beaux Conservation and Diversity (2020) doi: 10.1111/icad.12434

The use of sentinel logs to assess host shifts in early beetle colonisers of deadwood under climate- and forestry-induced tree species substitutions

CHRISTOPHE BOUGET, ¹ ANTOINE BRIN² and LAURENT LARRIEU^{2, 3} ¹DRAE, UR EFNO, Nogerit-sur-Vernisson, France ²Université de Titulouse, INRAE, UMR DYNAFOR, Castanet-Tolossan, France and ²CRPI Occitation, amounte de Tarbes, Trance

A wide range of habitats leads to a high biodiversity

374 species of beetles



104 species of hoverflies



17 species of bats



Several rare plants and mosses





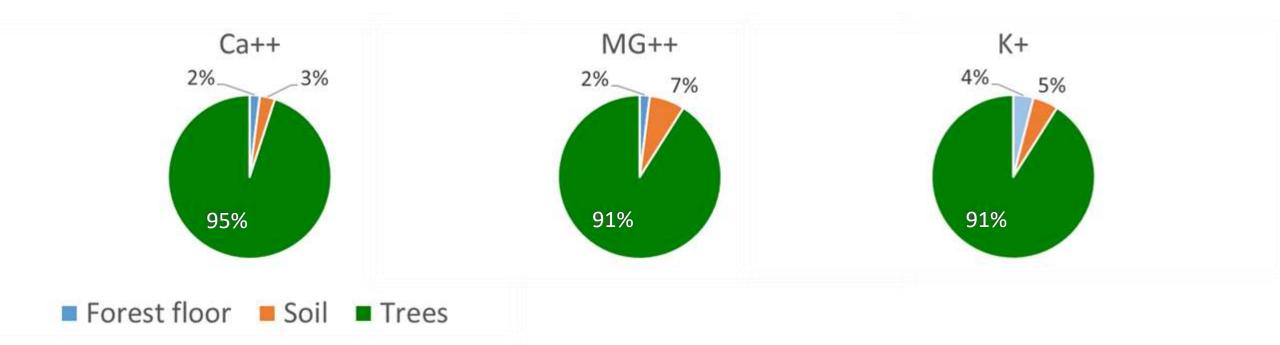
Pyrenean endemic spider



Pyrenean endemic bird



Highly acidic and nutrient-poor soils are a cause for concern



About 5% of the forest area

Podzosols & Alocrisols analyzed by REGESOL (Larrieu et al. 2006)

Four examples of integrated management measures applied

- Stopping logging when soils are very nutrient-poor
- Retention of whole unharvested crowns when far from the road
- Time-lagged of a harvesting operation while Accipiter gentilis nesting
- Retention of low-yielding oak-dominated stands





A key site for training

- > Local studies and references
- ➤ Wide range of substrata, habitats and soils
- Biodiversity issues
- > Multifunctional management



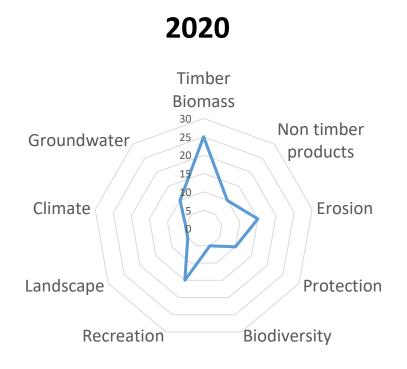
- Students
- Forest managers
- Private owners

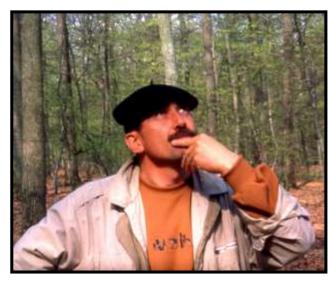


Toward an even more biodiversity-friendly management: setting up a marteloscope for training both board members and rangers



An ongoing strategy to take better account of biodiversity and climate change







Thanks for your attention!