

FLOREM – a floristic database on mountain ecosystems

Thomas Spiegelberger & Claude Bernard-Brunet

Abstract: FlorEM (GIVD ID EU-FR-002) is a database restricted to the flora of the montane and subalpine zones of the French Alps and Pyrenees. More than 5,000 line transects and plot data with the abundance of each species have been inventoried since the 1970s, of which a part is precisely geolocalized by GPS. The metadata of each relevé includes information on abiotic (exposition, altitude, etc.), biotic (bed rocks, physical-chemical soil analyses, etc.) and agronomic variables (productivity, type of cattle, stocking rates, etc.). The majority of the relevés are located in the Northern French Alps (27%, in particular in Vanoise, Beaufortin, Oisans and Maurienne), the Southern French Alps (50%, Vercors, Briançonnais) and in the Pyrenees (13%). Approximately half of the relevés are located above 2,000 m, 1/4 between 1,500 – 2,000 m, and 1/4 below 1,500 m. Two sites in the Department of Isere have been equipped with 12 paired plots, one grazed and the other not grazed for more than 20 years (Haut-Plateaux du Vercors) or 30 years (Alpe d'Huez). The vegetation has been sampled regularly through the study period. These plots constitute an asset of first importance of FlorEM allowing to follow the interactions between climate change and change of pastoral management.

Keywords: French Alps; French Pyrenees; high elevation; montane zone; subalpine zone.

GIVD Database ID: EU-FR-002		Last update: 2012-05-10	
FLOREM			
Scope: FlorEM is a database on the montane and subalpine flora of the French Alps and Pyrenees. More than 5,000 line transects and plot data with the abundance of each species have been inventoried there since the 1970s. The metadata of each relevé includes information on abiotic, biotic and agronomic variables. Ca. half of the relevés are located above 2,000 m, 1/4 between 1,500 – 2,000 m, and 1/4 below 1,500 m.			
Status: ongoing capture		Period: 1970-2012	
Database manager(s): Claude Bernard-Brunet (claude.bernard-brunet@irstea.fr)			
Owner: Irstea			
Web address: [NA]			
Availability: according to a specific agreement		Online upload: no	Online search: no
Database format(s): MySQL		Export format(s): SQL, Excel, Open Document, PDF, CSV file, plain text file	
Publication: [NA]			
Plot type(s): normal plots; time series		Plot-size range: 0.25-100 m ²	
Non-overlapping plots: 2,000	Estimate of existing plots: [NA]	Completeness: [NA]	
Total plot observations: 2,000	Number of sources: [NA]	Valid taxa: [NA]	
Countries: FR: 100.0%			
Forest: [NA] — Non-forest: [NA]			
Guilds: all vascular plants: 100%			
Environmental data: altitude: 100%; slope aspect: 100%; slope inclination: 100%; soil depth: 40%; other soil attributes: 100%			
Performance measure(s): cover: 100%; biomass: 40%			
Geographic localisation: GPS coordinates (precision 25 m or less): 20%; small grid (not coarser than 10 km): 80%			
Sampling periods: 1970-1979: 25.0%; 1980-1989: 25.0%; 1990-1999: 8.0%; 2000-2009: 40.0%; 2010-2019: 2.0%			
Information as of 2012-07-12; further details and future updates available from http://www.givd.info/ID/EU-FR-002			

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