Short Database Report

FLOREM -- a floristic database on moutain ecosystems

Thomas Spiegelberger & Claude Bernard-Brunet

Abstract: FlorEM is a database restricted to the flora of the montane and subalpine zones of the French Alps and Pyrenees. More than 5000 line transects and plot data with the abundance of each species are inventoried since the 1970ies, of which a part is precisely geolocalized by GPS. The metadata of each relevés 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 2000 m, 1/4 between 1500 - 2000 m, and 1/4 below 1500 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 was sampled regularly in time. These plots constitute an asset of first importance of FlorEM allowing to follow the interactions between climate change and change of pastoral management.

GIVD Database ID: EU-FR-002		Last update: 2012	2-05-10	
FLOREM				
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Status: ongoing capture		Period: 1970-2012		
Database manager(s): Claude Bernard-B	runet (claude.bernard-brunet@irstea.fr)			
Owner: Irstea				
Web address: [NA]				
Availability: according to a specific agree	nent Online up	pload: no Online search: no		
Database format(s): MySQL	Export fo file	ormat(s): SQL, Excel, Open Document, PDF, CSV file, pla	ain tex	
Publication: [NA]				
Plot type(s): normal plots; time series	Plot-size	e range: 0.25-100 m²		
Non-overlapping plots: 2,000	Estimate of existing plots: 0	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 etc.): 40%; land use categories: 100%	e aspect: 100%; slope inclination: 100%;	; surface cover other than plants (open soil, litter, bare roo	ck	
Performance measure(s): cover: 100%; k	iomass: 40%			
Geographic localisation: GPS coordinate	s (precision 25 m or less): 20%; small gr	yrid (not coarser than 10 km): 80%		
Sampling periods: 1970-1979: 25.0%; 19	80-1989: 25.0%; 1990-1999: 8.0%; 2000	0-2009: 40.0%; 2010-2019: 2.0%		
Information as of 2012-07-10	: further details and future updates a	available from http://www.givd.info/ID/EU-FR-002		

Keywords: French Alps, French Pyrenees, subalpin, montane, high elevation

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