

Supplement of Numerical modelling of Mer de Glace glacier dynamics, French Alps: comparaison with past observations and near future evolution.

immediate

List of climatic simulations

The climatic models (GCM + RCM) are listed in the Table 1. For the Hindcast we use a simulation from the SAFRAN model (forced with ERA40 reanalysis).

Producteur	GCM	RCM	Initialisation	RCP 2.6	RCP 4.5	RCP 8.5
CLM-com	CNRM-CM5	CCLM4-8-17	1950		X	X
CLM-com	ICHEC-EC-EARTH	CCLM4-8-17	1950		X	X
CLM-com	MOHC-HadGEM2-ES	CCLM4-8-17	1981		X	X
CLM-com	MPI-ESM-LRC	CCLM4-8-17	1950		X	X
CNRM	CNRM-CM5	CNRM-ALADIN53	1950		X	X
IPSL	IPSL-IPSL-CM5A-MR	WRF331F	1951		X	X
KNMI	MOHC-HadGEM2-ES	RACMO22E	1981	X	X	X
CSC	MPI-ESM-LR	REMO019	1950	X	X	X
SMHI	CNRM-CM5	RCA4	1970		X	X
SMHI	ICHEC-EC-EARTH	RCA4	1970	X	X	X
SMHI	IPSL-IPSL-CM5A-MR	RCA4	1970		X	X
SMHI	MOHC-HadGEM2-ES	RCA4	1981		X	X
SMHI	MPI-ESM-LR	RCA4	1970		X	X

Table 1. List of climatic simulations

SMB measurement on the tongue

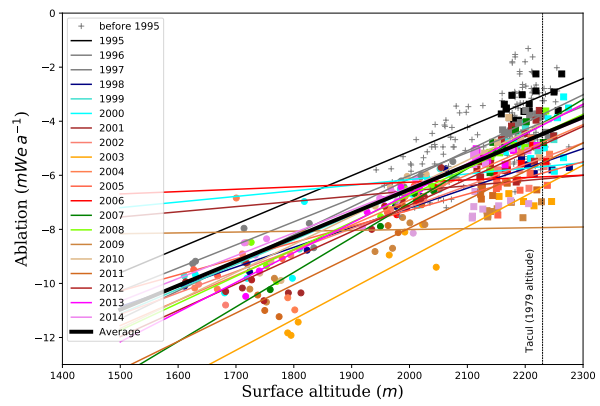


Figure 1. Surface mass balance (ablation) observed on the tongue of Mer de Glace. Linear regression is plotted for each year from 1995 to 2014. Average gradient for this period is plotted in thick black line.