

FIGURES AND TABLES

Table 1: Summary of key differences between SAFRAN and TopoSUB.

	<b>SAFRAN</b>	<b>TopoSUB</b>
Classification system	fixed classes	clustering algorithm and training routine
Sample centres	class interval mean	mean of sample members
Dimensions	3	not limited a priori
Spatialisation focus	forcing meteorology	simulation results
Application focus	CROCUS	any 1D LSM
Aggregation to coarse grid	no	yes
Drop insignificant clusters	no	yes

Table 2: TopoSUB and 'SAFRAN' statistics (R and RMSE) compared to distributed model simulation BASE.

	TopoSUB crisp		TopoSUB fuzzy		SAFRAN	
	R	RMSE	R	RMSE	R	RMSE
SWE	0.92	29.60	0.94	24.16	0.81	44.72
SWin	0.95	11.44	0.97	9.76	0.90	13.86
GST	0.95	0.95	0.97	0.81	0.93	1.20
Tair	0.96	0.80	0.98	0.56	0.98	0.59

SAFRAN

TopoSUB

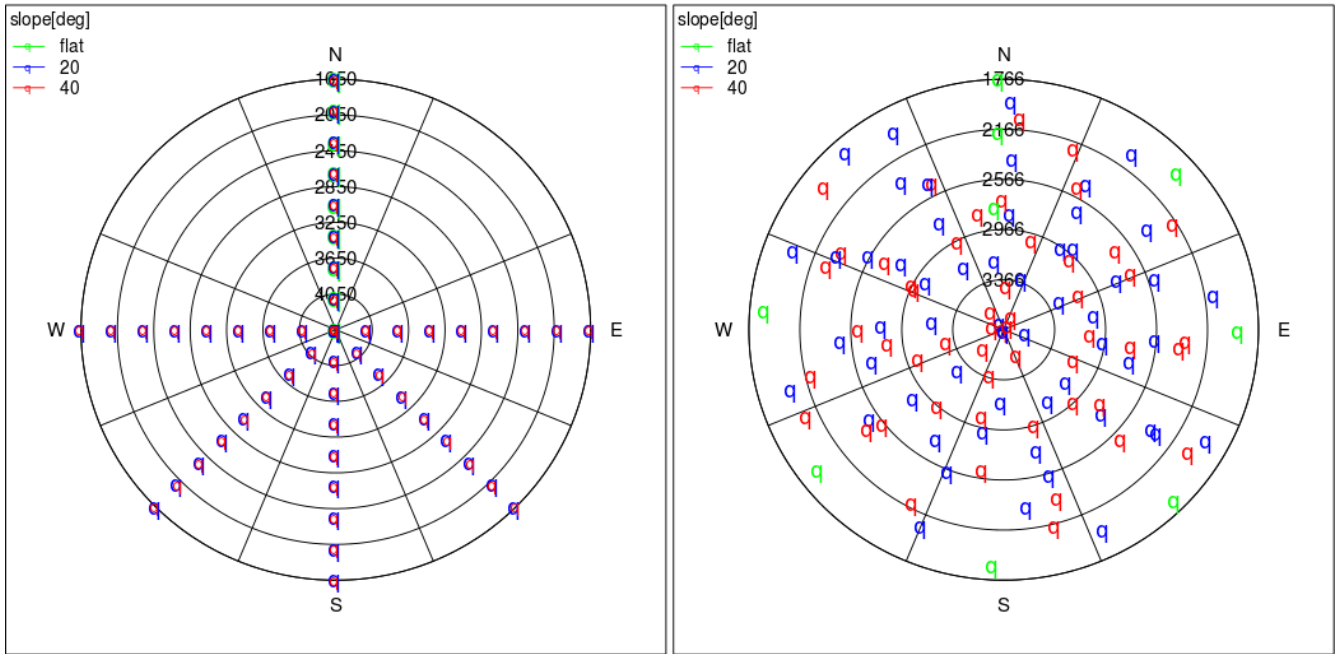


Figure 1: Sample distribution in attribute space as generated by TopoSUB and an arbitrary classification system such as SAFRAN.