

The Guadalfeo Monitoring Network for snow in Sierra Nevada (Spain)

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Research /CEAMA



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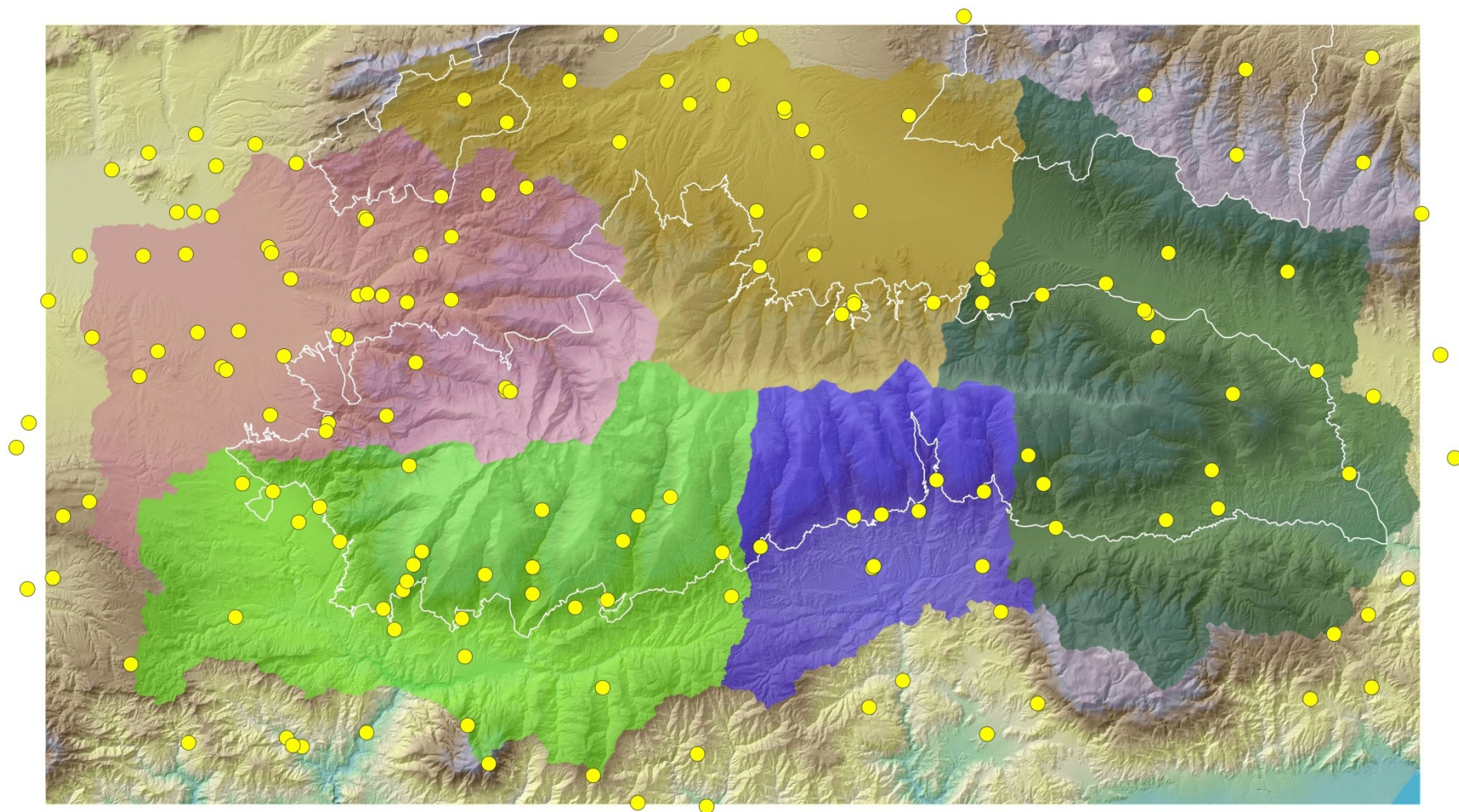


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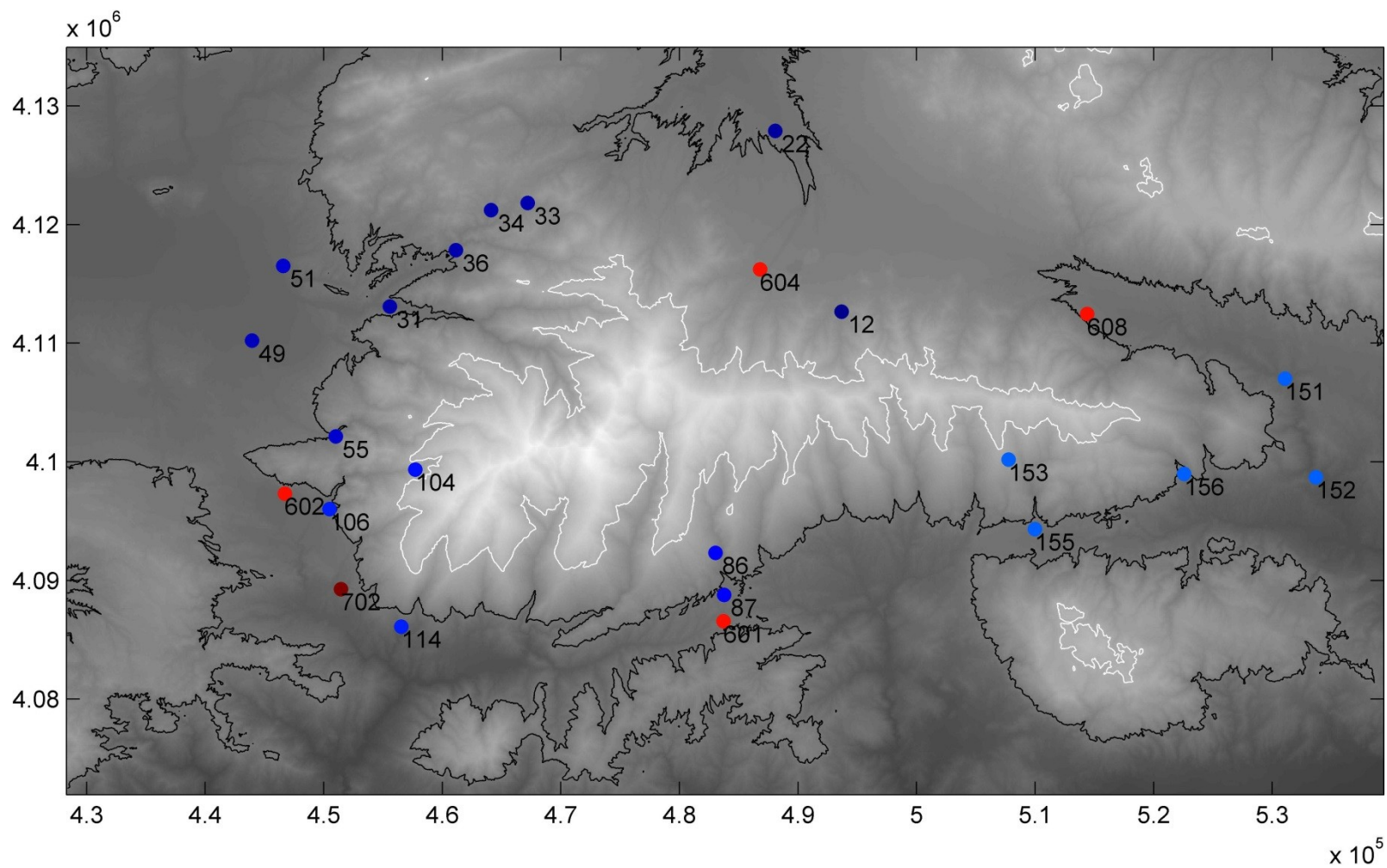


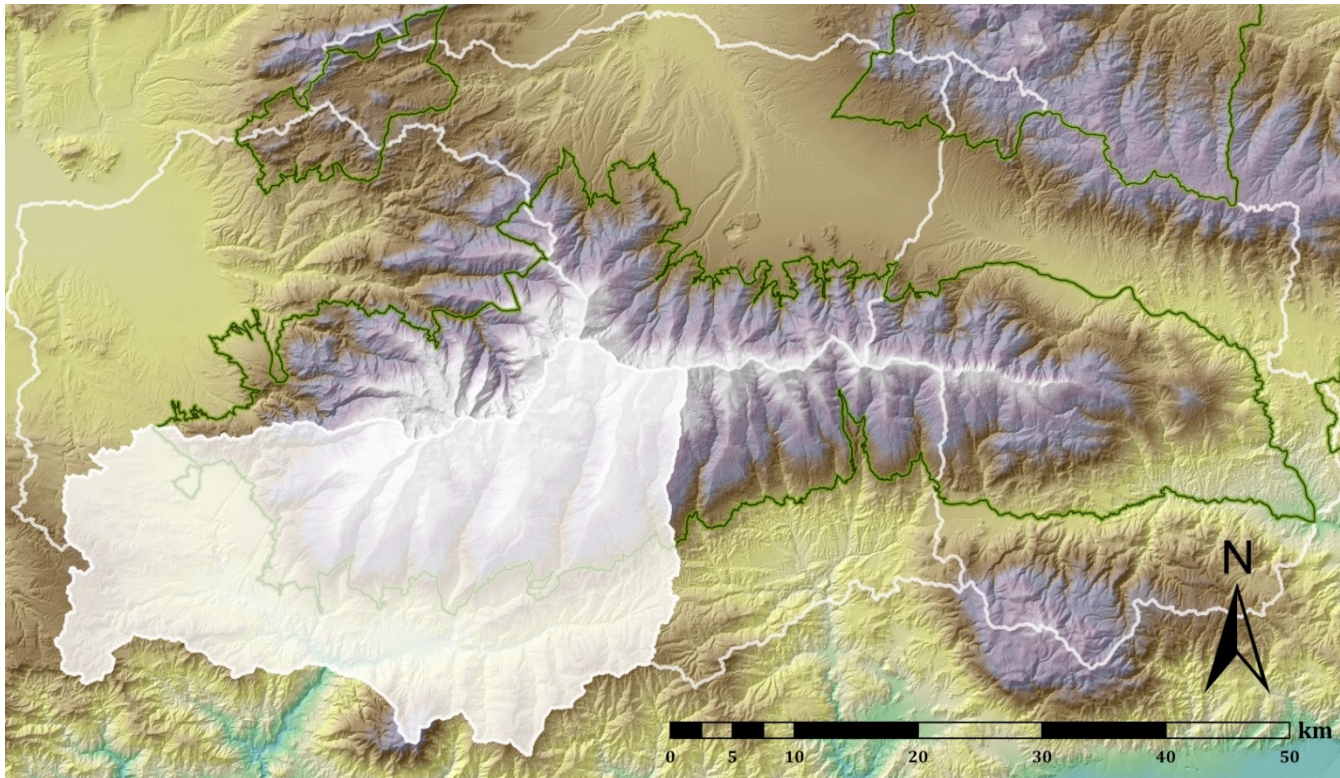


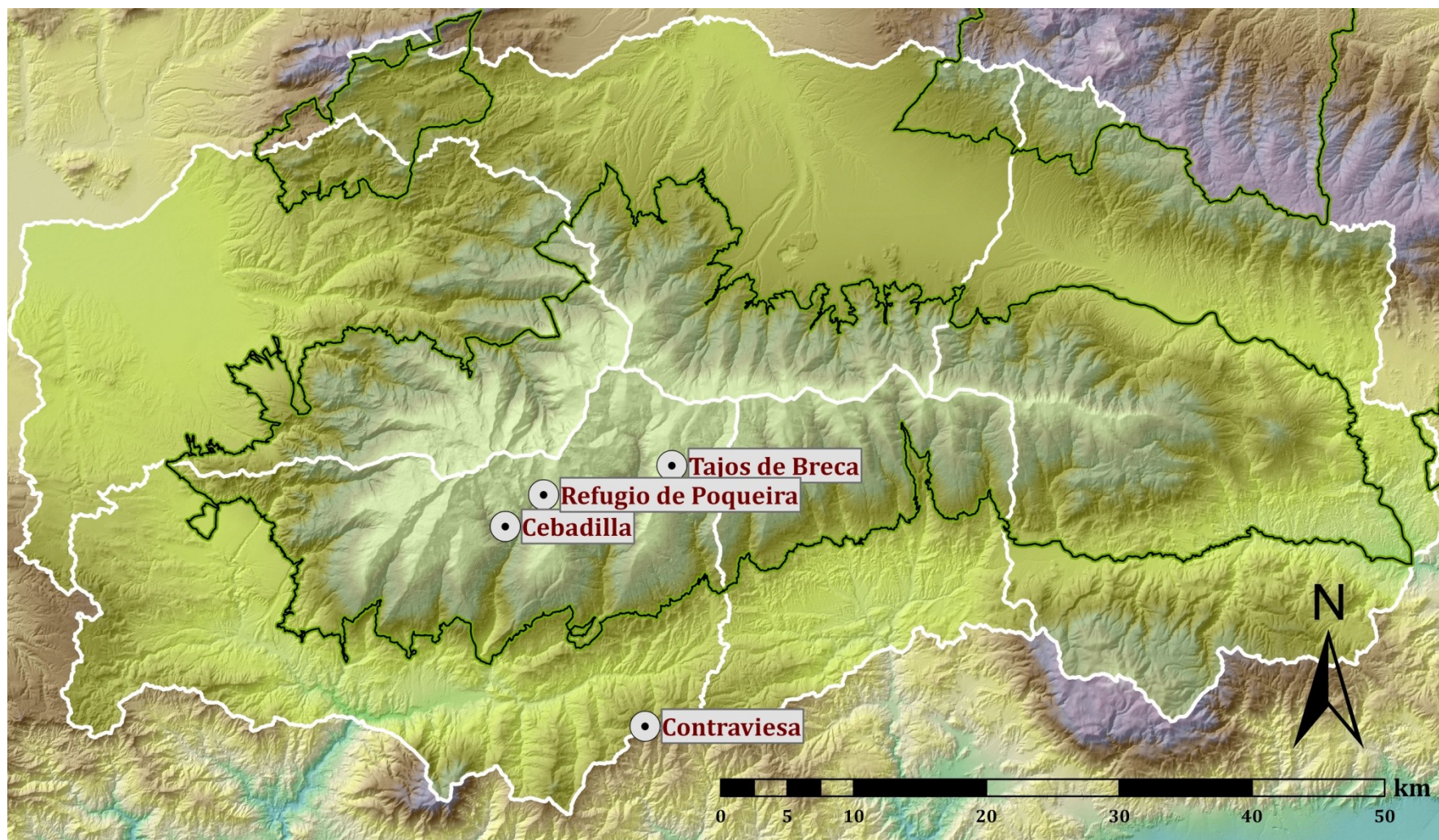
Meteorology

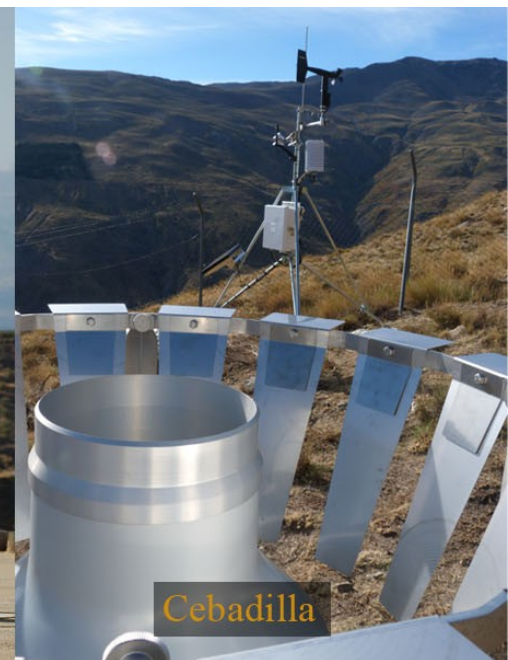


Estaciones Meteorológicas
AEMET

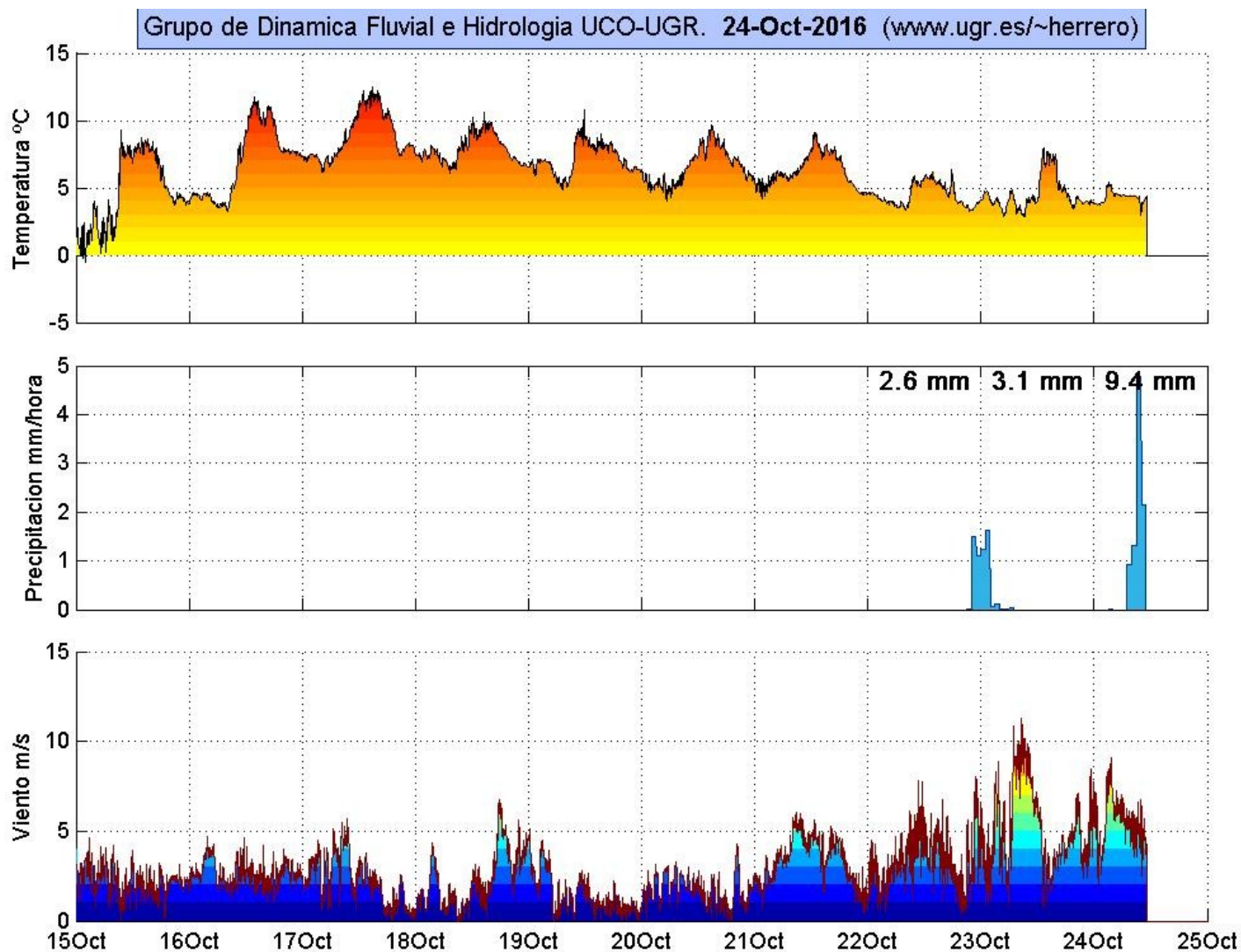




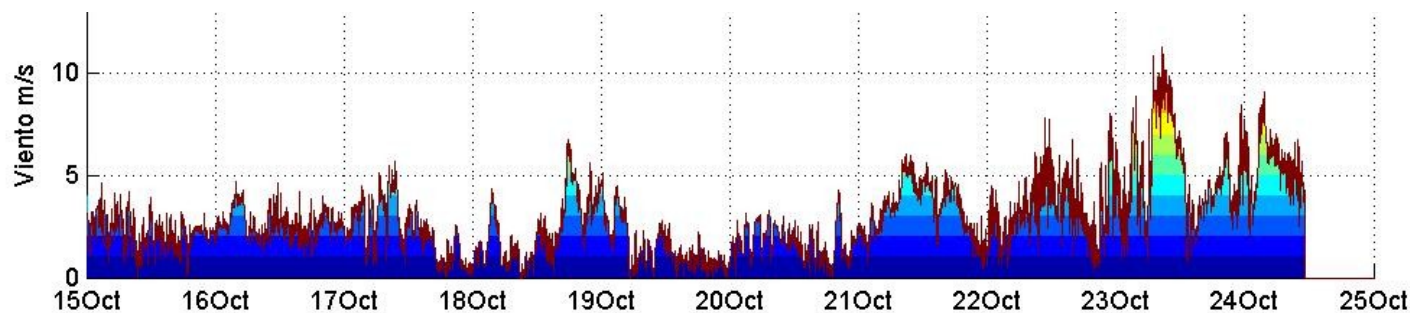
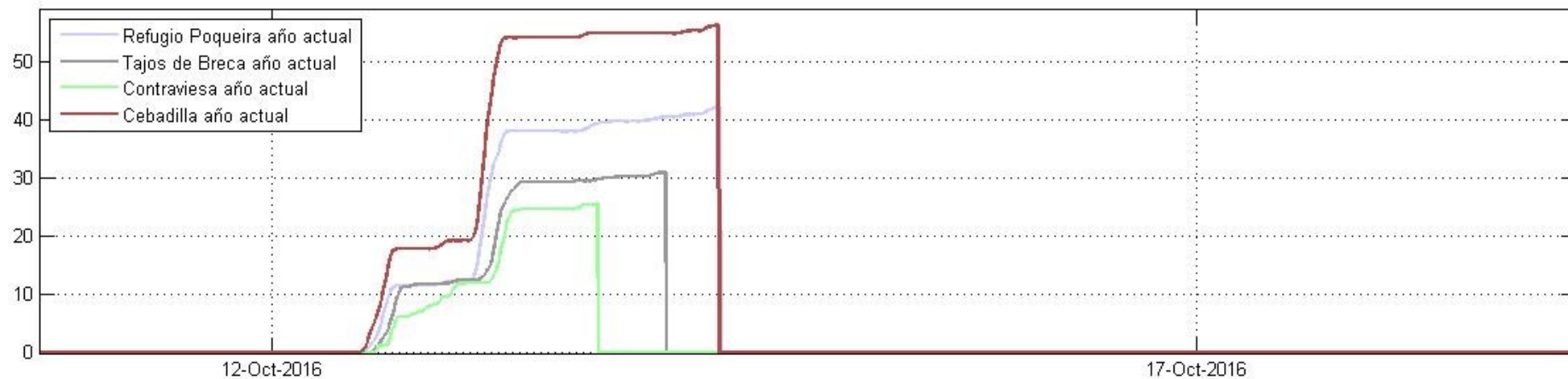


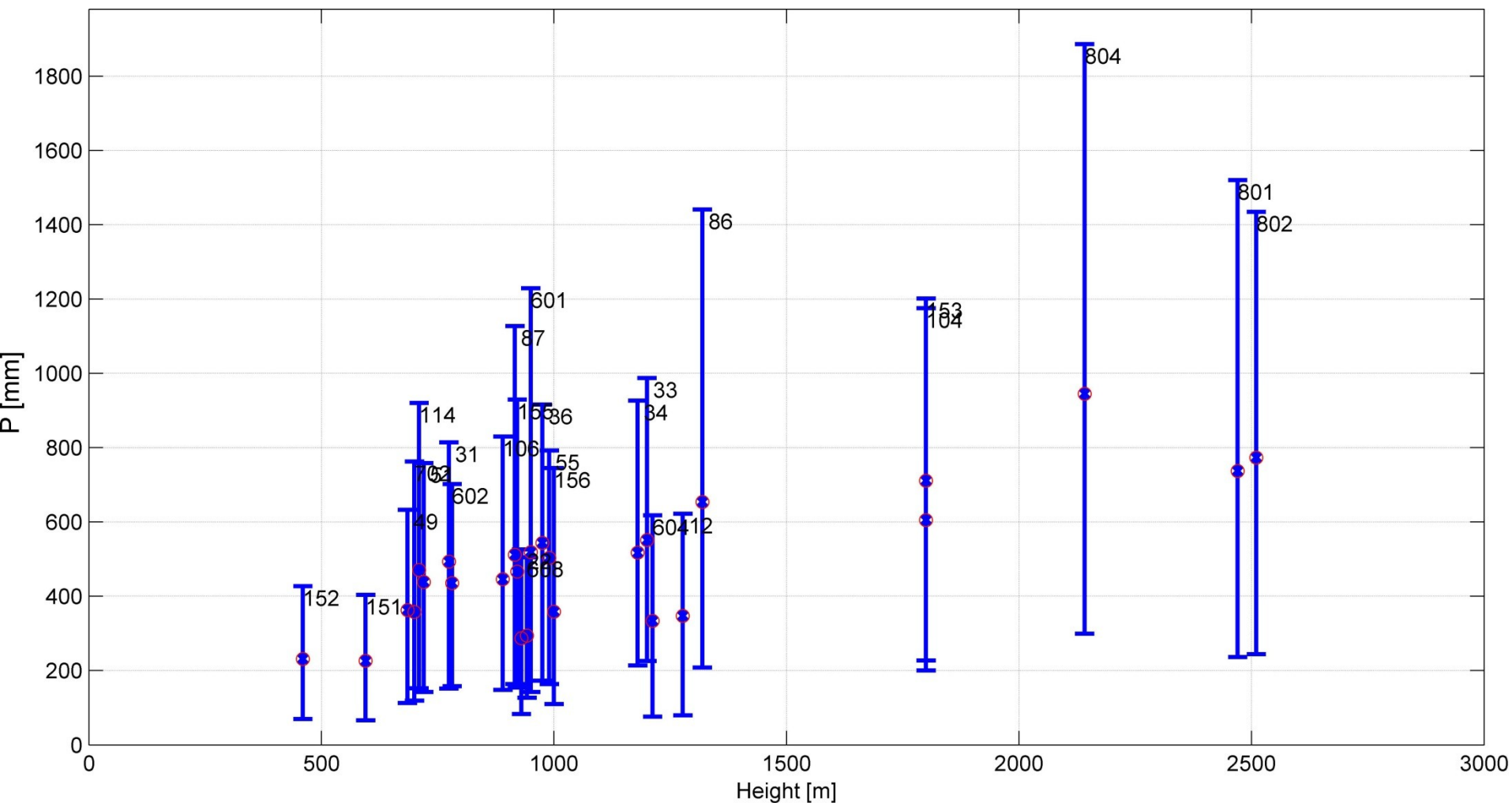


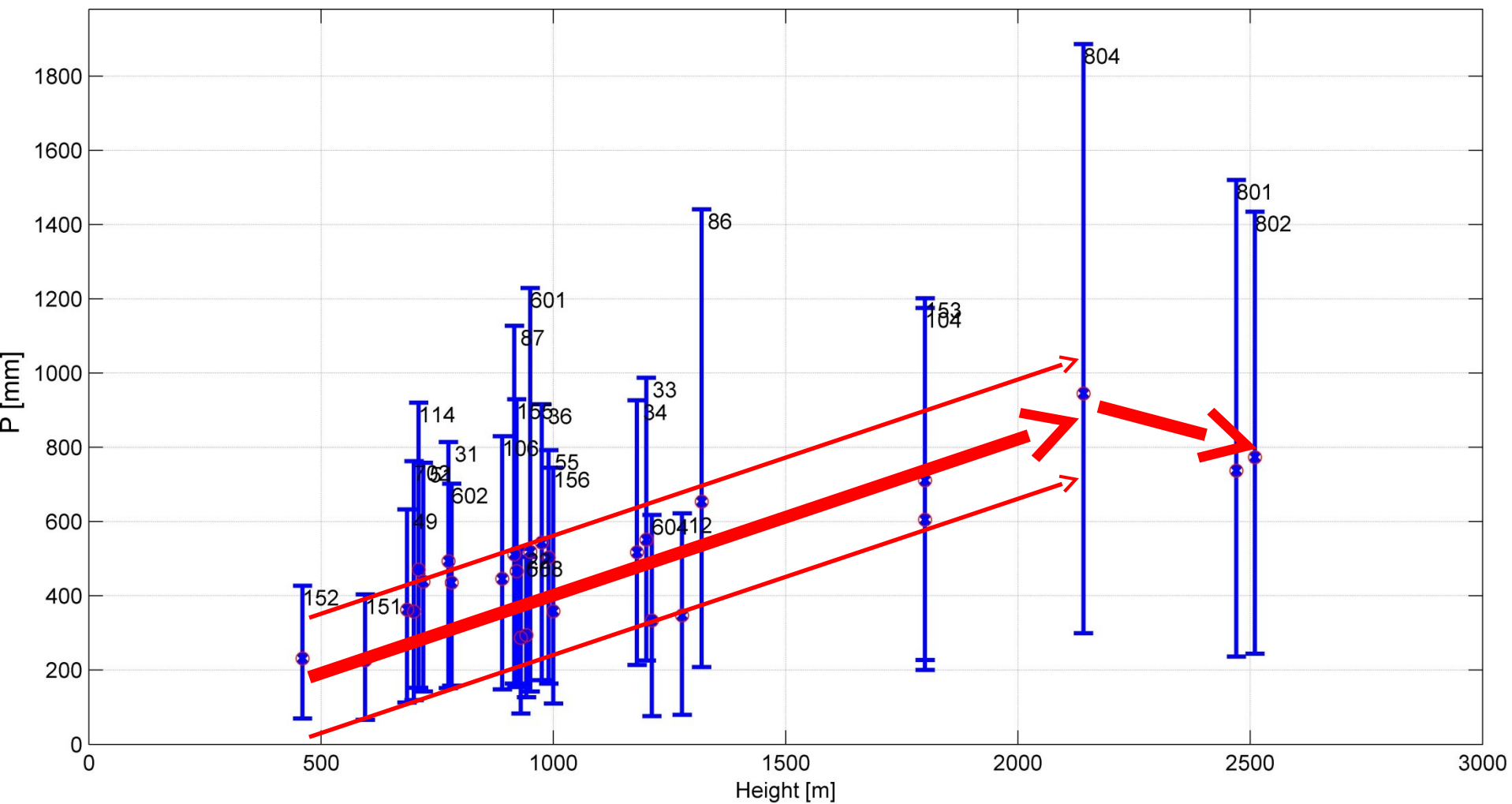
Red Guadalfeo

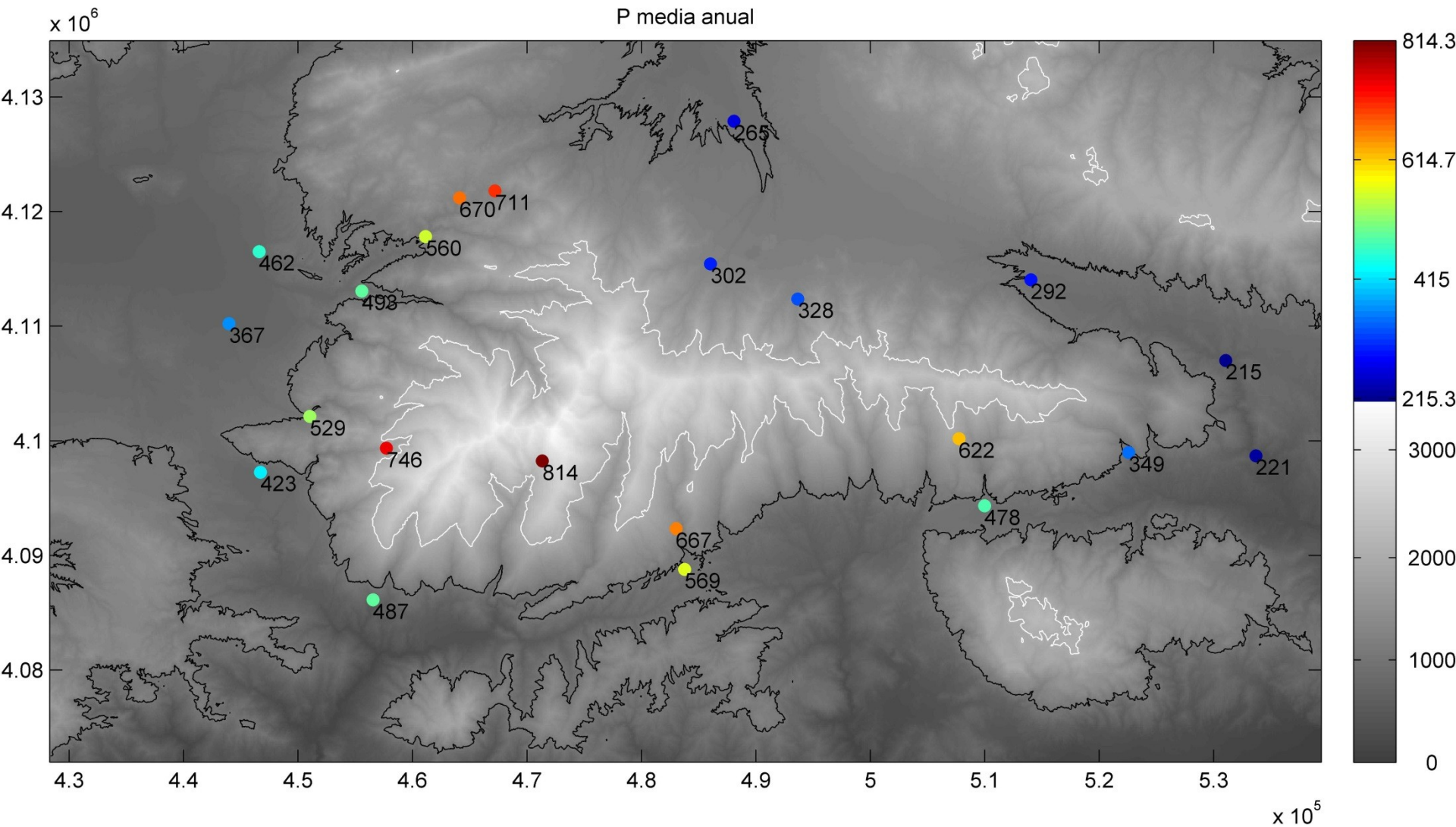


Grupo de Dinamica Fluvial e Hidrologia UCO-UGR. 24-Oct-2016 (www.ugr.es/~herrero)



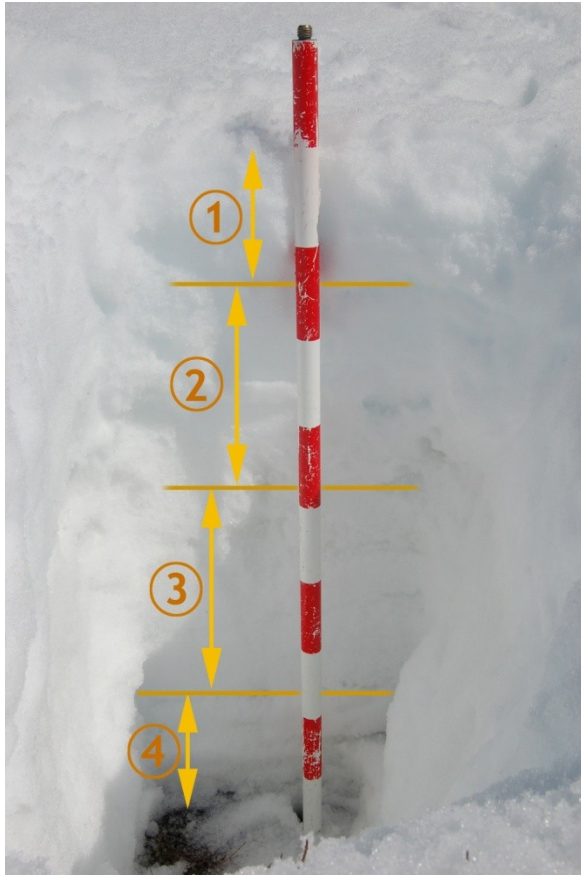




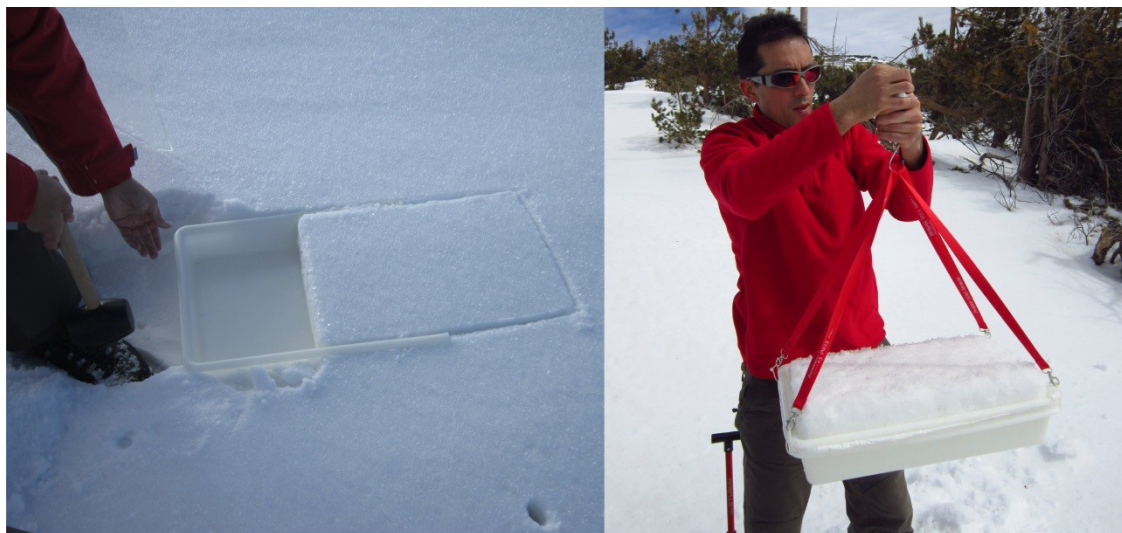


Snow

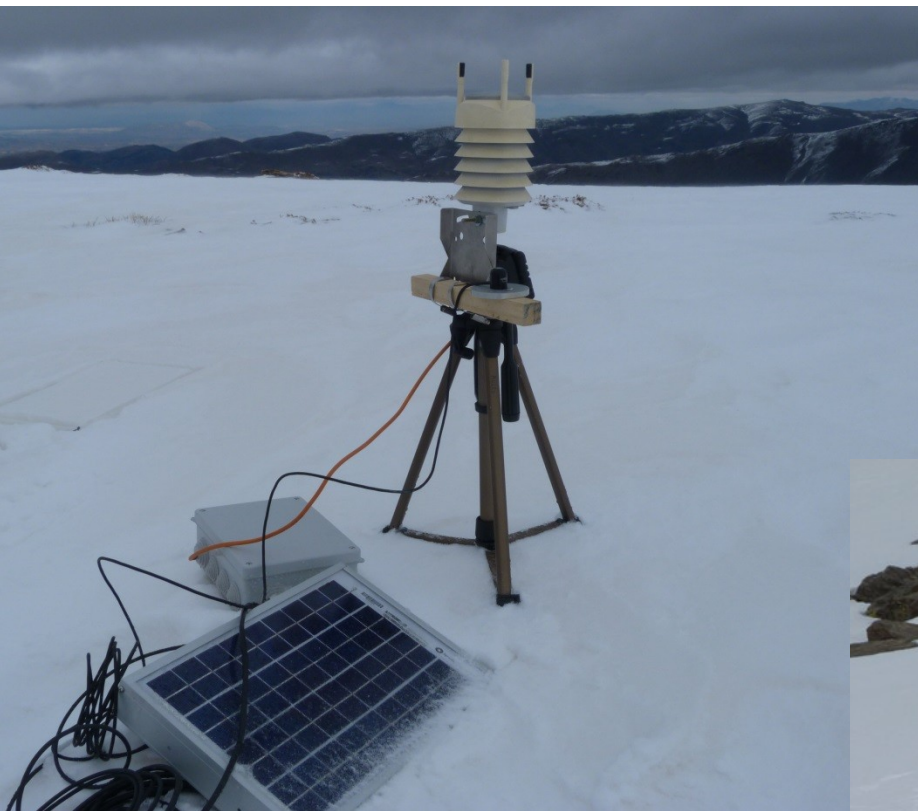
Snow properties: density, SWE, layers











Date	Duration (h)	Solar input	$\overline{W}$ ($m s^{-1}$)	$\overline{RH}$ (%)	$\overline{T}$ (°C)	M_{obs} ($mm hr^{-1}$)	E_{obs} ($mm hr^{-1}$)	α	Slope (°)	Aspect	SN face
12-Mar-2015	8.6	N	3.2	32	4.0	0.00	0.041	0.53	15	SW	S
10-Apr-2014	4.6	S	2.1	34	10.5	4.18	0.044	0.62	23	SW	N
27-Feb-2014	2.4	O	7.2	81	-1.0	0.00	0.041	0.8	3	W	N
28-Jan-2014	5.2	S	4.3	46	-1.0	0.00	0.113	0.59	7	NW	N
23-Jan-2014	4.3	S	8.4	70	-4.4	0.00	—	0.63	2	W	N
28-Nov-2013	3.3	C	1.3	86	-3.4	0.00	0.020	0.75	20	N	N
15-Mar-2013	5.0	S	1.3	49	3.2	1.51	(0.120)	0.62	5	S	S
1-Mar-2011	12.8	N	2.4	62	-9.3	0.00	0.000	0.8	8	S	S
2-Mar-2011	5.3	S	1.9	55	-7.7	0.00	-0.036	0.8	8	S	S
2-Mar-2011	2.6	S	1.6	63	-4.2	0.00	0.031	0.8	8	S	S
29-Apr-2010	10.1	N	3.6	47	9.3	(1.11)	0.015	0.45	2	S	S
10-Mar-2009	11.8	N	5.6	15	3.9	0.00	0.111	0.67	12	S	S
11-Mar-2009	3.5	S	0.5	46	9.2	1.19	0.000	0.67	12	S	S
11-Mar-2009	13.8	N	2.6	37	4.9	0.00	0.047	0.67	12	S	S
12-Mar-2009	3.0	S	2.4	25	5.0	0.11	0.025	0.67	12	S	S



12 MAYO 2012



10 JUNIO 2013

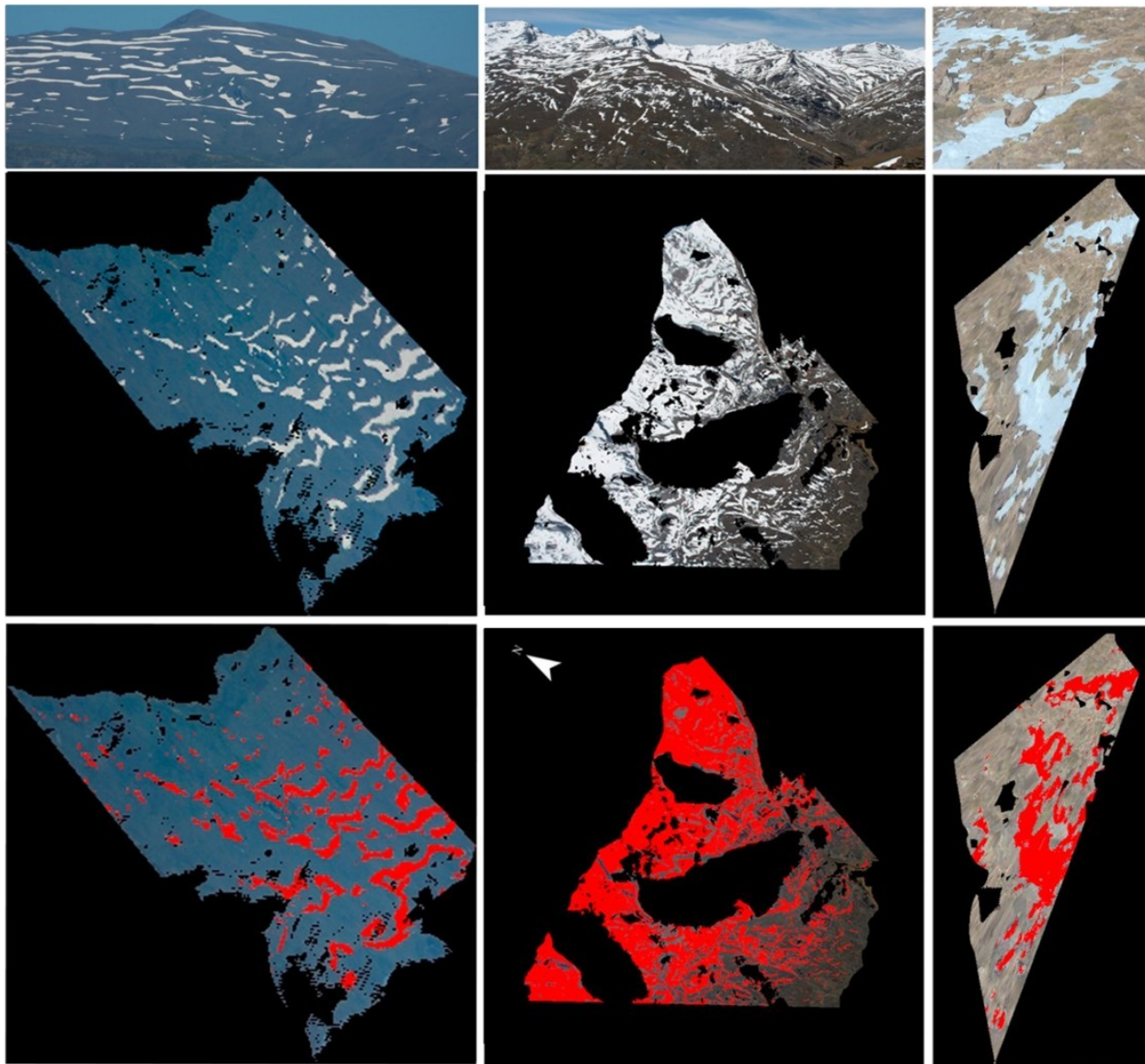


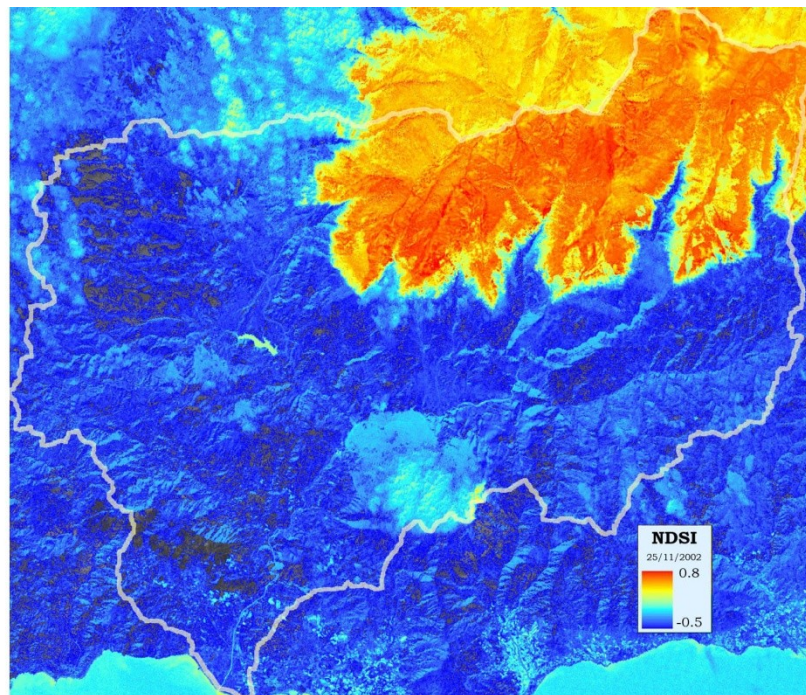
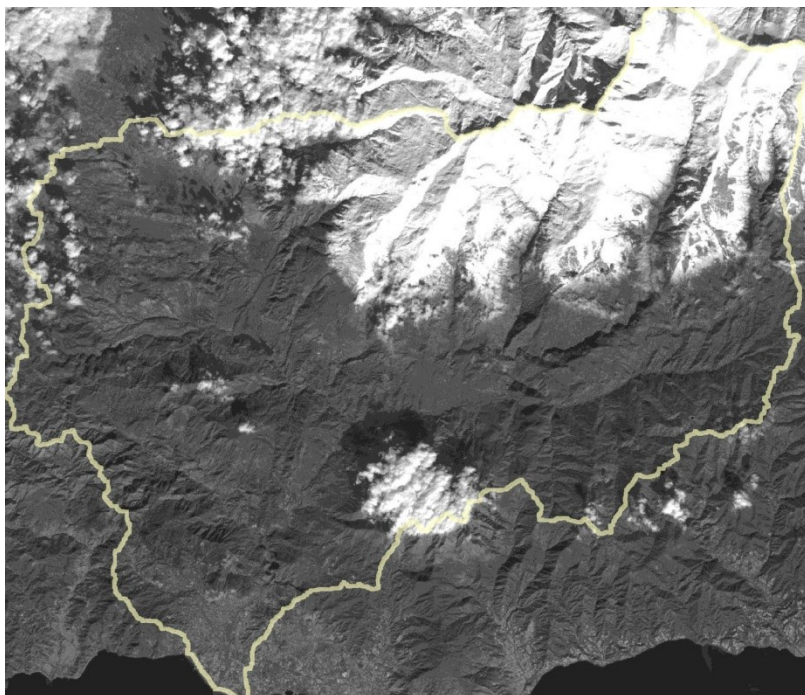
4 MAYO 2014



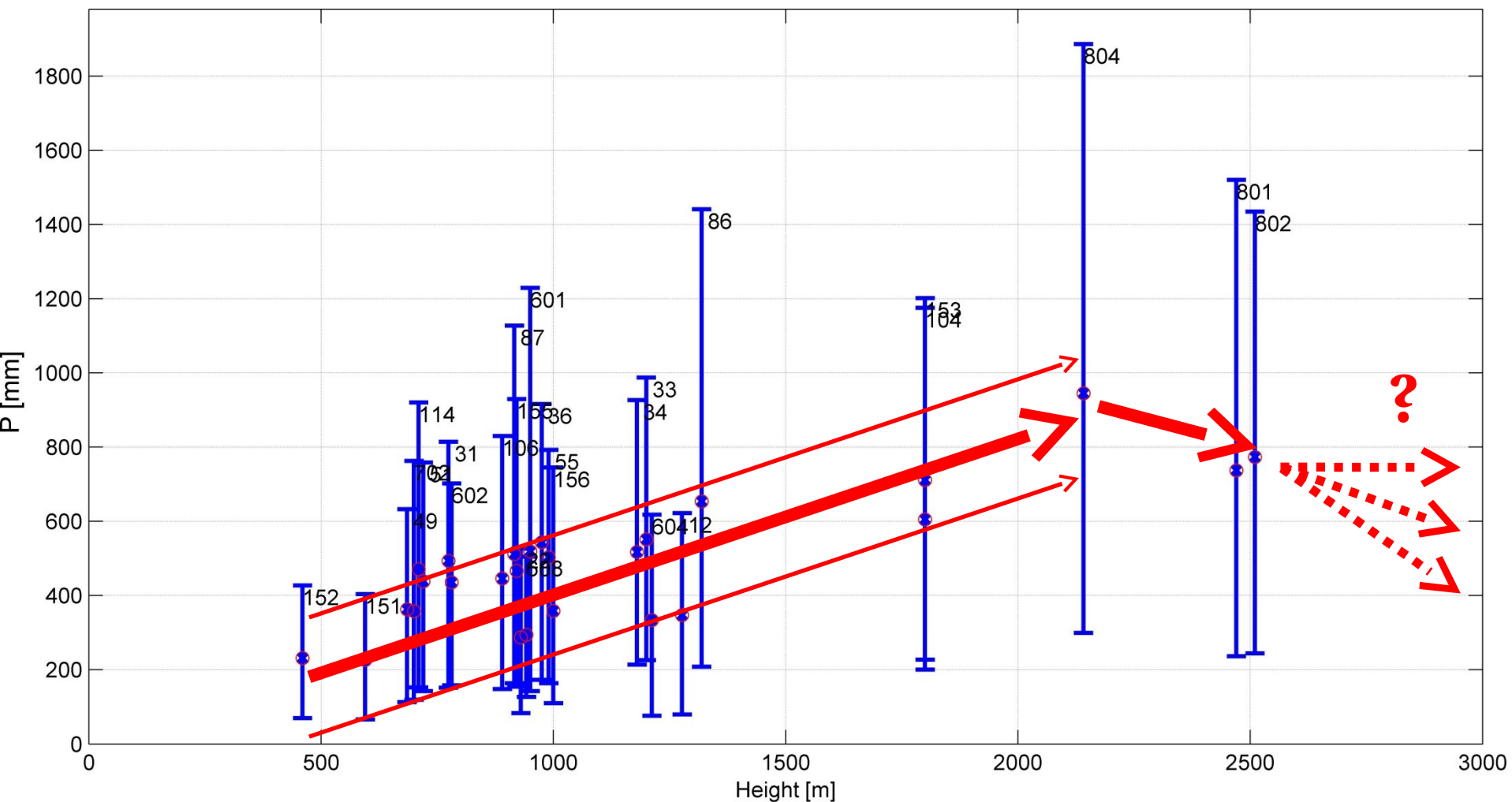
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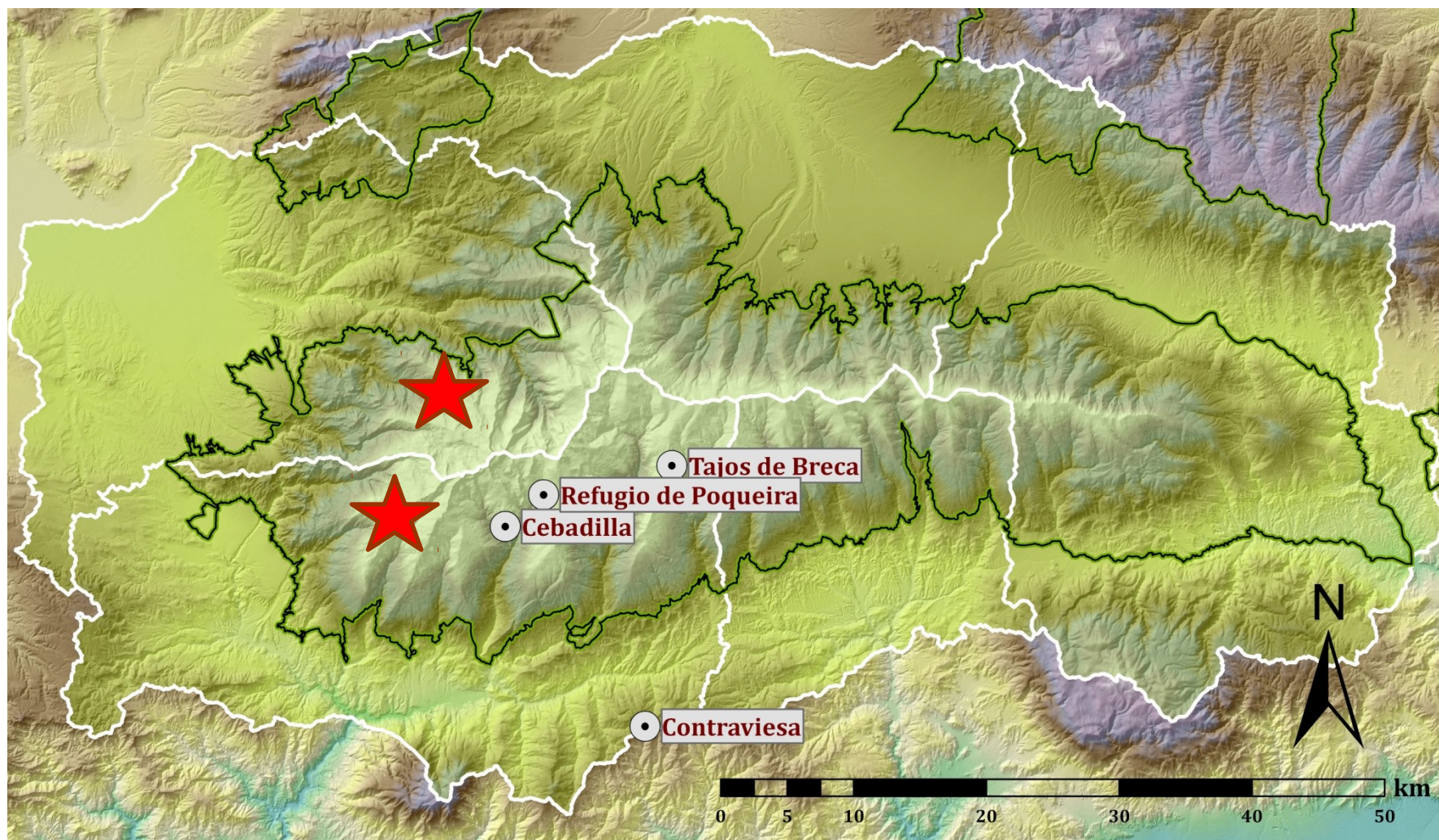






Future





CS725: Snow water equivalent



Cameras



- Terrestrial laser scanner
- Snowpack temperature profile
- G flux
- z_0 roughness length
- Infrared camera

The Guadalfeo Monitoring Network for snow in Sierra Nevada (Spain)



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Miriam Carpintero
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Marta Egüen
Cristina Aguilar
Darío García
Karl Vanderlinden



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