

Supplementary Materials

Table S1. Seasonal distribution of the percentage of rainfall, runoff, and sediment yield in each study site.

ID	Name	Rainfall				Runoff				Sediment yield			
		Winter	Spring	Summer	Autumn	Winter	Spring	Summer	Autumn	Winter	Spring	Summer	Autumn
1	Aisa 1	22.22	29.82	16.76	31.20	31.17	33.81	5.40	29.61	39.70	33.56	1.96	24.78
2	Aixola	21.61	32.23	21.75	24.41	30.41	44.36	10.36	14.87	29.85	41.10	10.84	18.22
3	Albaladejito 1	45.78	18.34	10.37	25.51	54.32	7.91	2.36	35.41	26.62	2.76	14.91	55.71
4	Araguas	20.97	28.20	18.16	32.68	30.99	31.86	10.25	26.91	20.13	33.91	6.38	39.59
5	Aranjuez 1	43.71	14.98	16.48	24.83	48.68	1.21	12.30	37.82	41.07	7.80	40.23	10.91
6	Abanilla	30.12	24.24	11.06	34.58	14.75	19.14	13.91	52.20	7.81	11.72	32.65	47.82
7	Ardal 1	25.13	28.29	7.65	38.93	15.35	9.35	6.55	68.76	13.54	10.60	11.32	64.54
8	Arnas	15.89	41.06	6.82	36.23	16.92	42.72	6.29	34.06	5.36	46.34	12.36	35.94
9	Bardenas Norte	18.61	33.19	23.95	24.25	18.38	28.72	27.59	25.31	14.65	33.68	29.42	22.24
10	Bardenas Sur	15.06	29.84	24.83	30.28	13.89	30.12	20.30	35.69	13.98	31.63	18.35	36.04
11	Burete 1	30.04	27.27	10.15	32.54	10.97	25.45	9.81	53.77	2.81	26.05	16.03	55.11
12	Can Revull	54.76	38.25	0.00	6.99	77.09	21.42	0.00	1.49	78.29	13.43	0.00	8.28
13	Corbeira	37.73	17.86	8.35	36.06	55.87	24.20	4.39	15.54	58.57	15.16	6.89	19.38
14	El Cautivo 1	37.77	21.26	6.56	34.42	31.94	18.15	11.60	38.31	17.29	25.05	9.35	48.30
15	Idanha	52.95	15.86	0.00	31.19	55.58	16.52	0.00	27.89	41.76	33.20	0.00	25.04
16	La Conchuela	46.80	19.16	8.71	25.33	81.36	10.46	3.96	4.21	75.07	14.21	4.13	6.60
17	La Concordia 1	19.26	29.97	18.39	32.38	16.33	18.22	15.69	49.76	10.32	15.24	37.70	36.74
18	La Parrilla	40.26	33.95	2.37	23.42	47.51	39.01	0.27	13.20	27.87	65.65	0.44	6.03
19	La Puebla	15.78	29.74	21.94	32.55	56.86	43.14	0.00	0.00	27.58	72.42	0.00	0.00
20	La Tejeria	36.58	34.45	12.16	16.81	54.46	36.65	5.57	3.32	0.00	0.00	0.00	0.00
21	Lanaja 1	14.19	26.43	25.14	34.25	12.79	23.15	30.11	33.95	8.96	16.24	36.92	37.87
22	Latxaga	37.33	35.05	7.38	20.23	55.38	34.97	3.36	6.29	0.00	0.00	0.00	0.00
23	Laval	14.10	24.23	24.46	37.22	16.27	27.77	21.18	34.77	8.12	18.80	41.66	31.42
24	Marchamalo 1	33.85	28.05	9.32	28.78	36.77	25.72	8.97	28.55	28.24	30.85	17.95	22.97
25	Mediana	16.44	23.35	26.59	33.62	1.42	15.10	35.08	48.41	0.62	19.48	28.52	51.39
26	Morille	38.80	34.09	9.31	17.81	37.37	53.09	2.53	7.00	0.00	0.00	0.00	0.00
27	Moulin	12.12	18.46	20.80	48.61	16.79	23.12	14.21	45.88	5.26	14.37	38.89	41.49
28	Munilla	18.37	18.53	35.71	27.39	13.30	31.33	7.44	47.93	0.00	0.00	0.00	0.00

29	Oskotz 1	34.82	27.33	9.27	28.58	51.16	35.71	2.67	10.45	0.00	0.00	0.00	0.00
30	Porta Coeli	25.62	22.23	10.87	41.28	22.17	13.08	9.25	55.50	7.18	9.05	32.99	50.77
31	Puente Genil	47.64	14.07	1.29	37.00	59.58	2.56	0.55	37.31	52.03	0.71	0.18	47.08
32	Rinconada	29.40	22.39	7.08	41.13	45.41	25.73	1.47	27.38	0.00	0.00	0.00	0.00
33	Roujan	25.02	21.44	13.19	40.36	44.11	17.47	2.85	35.57	33.82	15.91	5.49	44.79
34	Santomera	30.03	24.20	11.75	34.02	21.34	14.73	23.41	40.53	24.39	17.38	19.64	38.59
35	Savall	56.01	10.71	0.00	33.28	64.96	12.79	0.00	22.25	58.66	19.94	0.00	21.39
36	Setenil	52.26	20.78	2.52	24.43	68.12	16.49	2.06	13.33	50.80	6.61	8.95	33.64
37	Venta Olivo catchment 1	24.15	29.46	14.06	32.33	39.62	8.81	51.57	0.00	3.79	0.00	96.21	0.00
38	Venta Olivo plot 1	18.53	40.03	10.46	30.98	14.84	52.61	10.31	22.24	0.00	0.00	0.00	0.00
39	Vernega Bosc	38.56	31.10	0.00	30.34	28.25	31.16	0.00	40.58	0.00	0.00	0.00	0.00
40	Vernega Campas	38.56	31.10	0.00	30.34	29.12	35.05	0.00	35.83	0.00	0.00	0.00	0.00
41	Villamor	38.00	18.67	3.85	39.48	43.79	14.95	0.43	40.84	0.00	0.00	0.00	0.00
42	Navalon	22.25	30.57	9.90	37.29	20.49	20.99	5.18	53.34	22.52	22.87	4.25	50.37
43	Ca Llsard	9.18	38.01	27.43	25.38	7.77	48.12	21.43	22.67	3.63	30.89	56.37	9.11
44	Can Vila	5.96	32.53	34.32	27.19	4.38	43.09	25.27	27.25	1.44	39.41	37.52	21.64
45	Parapunós	31.82	16.83	1.70	49.65	69.51	9.64	0.00	20.85	0.00	0.00	0.00	0.00
46	Montnegre	37.85	24.13	3.53	34.49	51.23	43.96	0.93	3.88	50.66	37.25	2.27	9.82

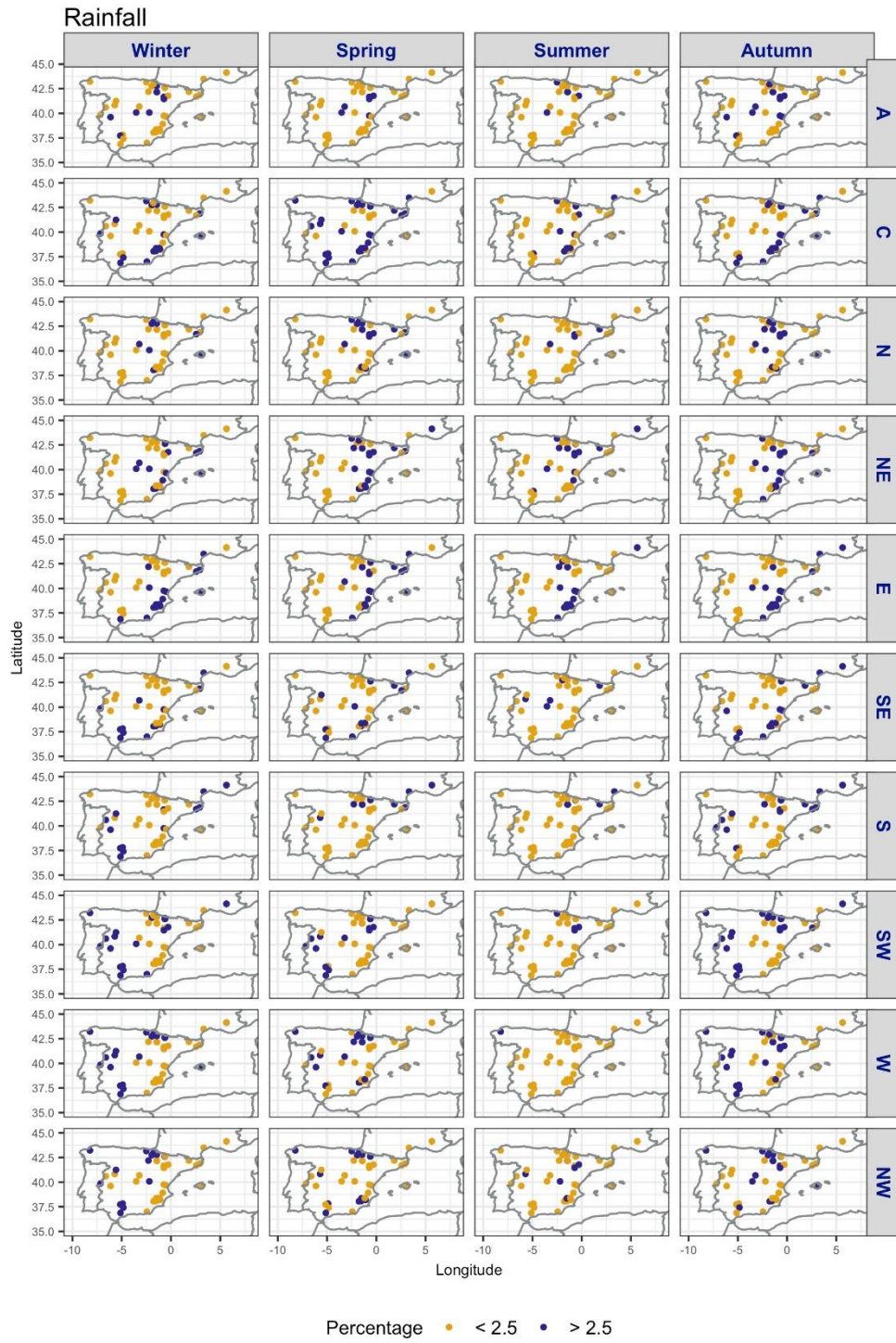


Figure S1. Spatial distribution of the percentage of rainfall in the weather types for each season.

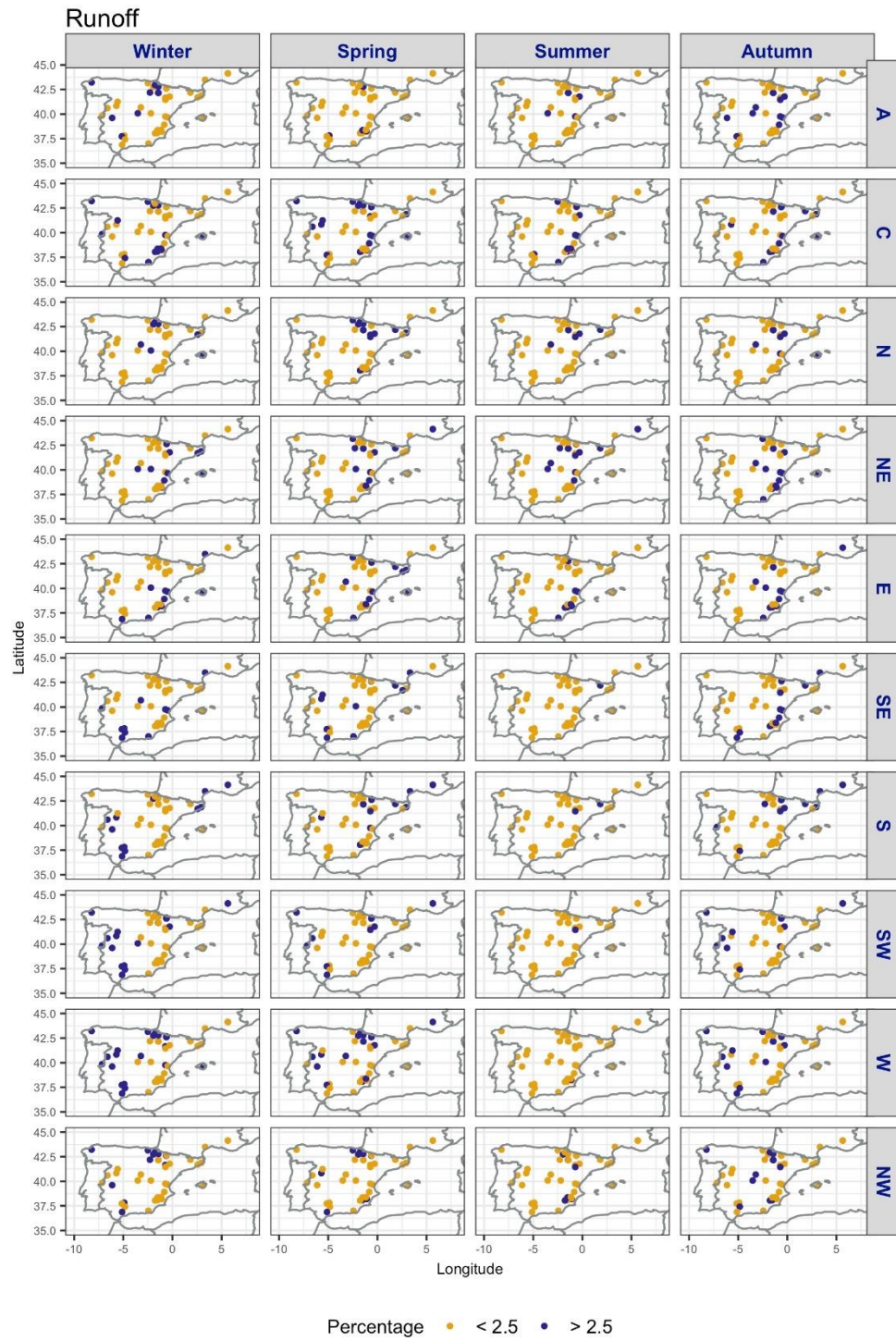


Figure S2. Spatial distribution of the percentage of runoff in the weather types for each season.

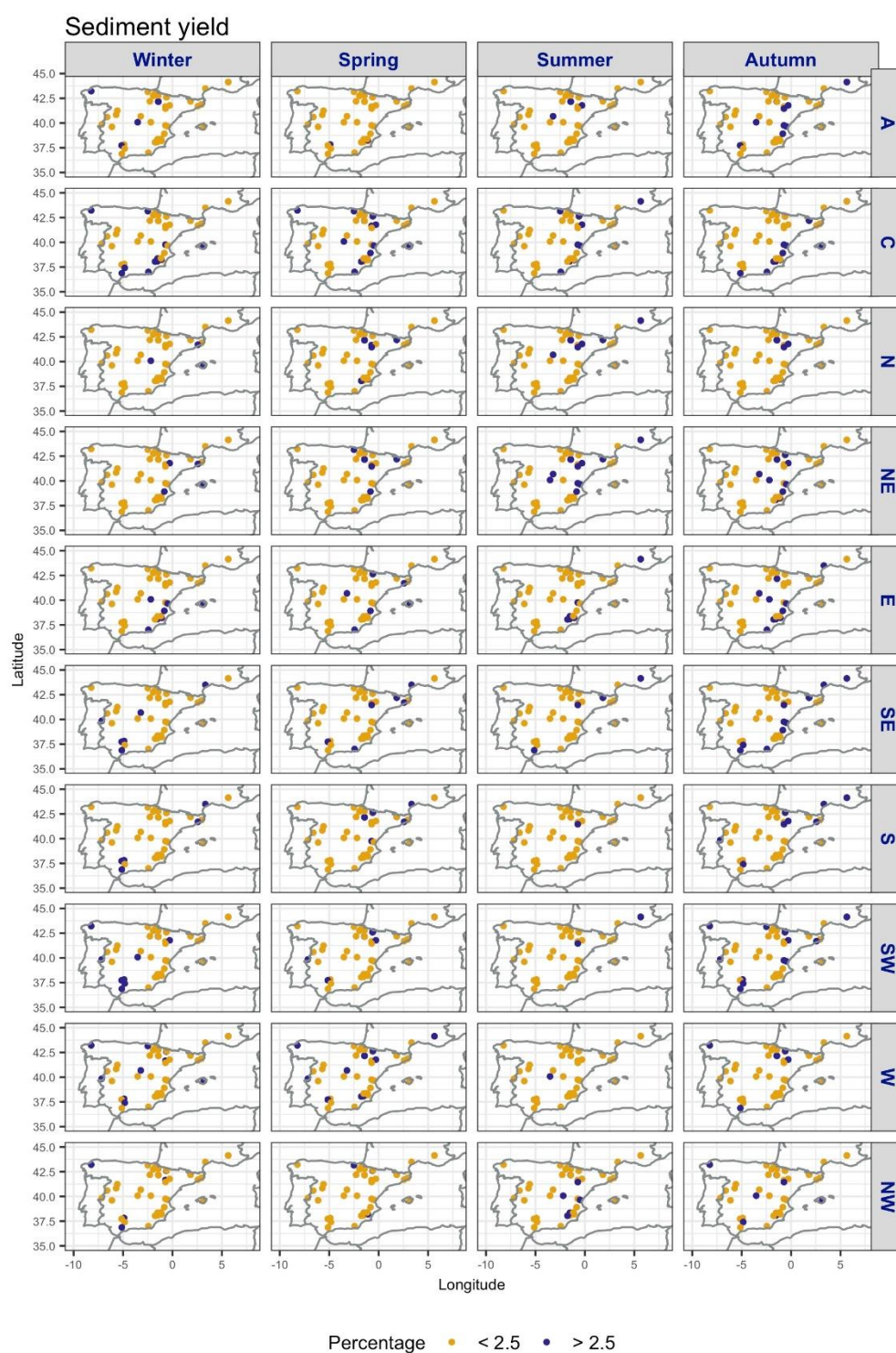


Figure S3. Spatial distribution of the percentage of sediment yield in the weather types for each season.