

Appendix

Appendix 1 Traits and associated modality for each taxa. Literature used for traits compilation are cited in the main document

	Traits	modality	coding type
Spiders	Maximum body size of females (mm)	continuous trait	continuous
	Start of seasonal activity	month names ; Euryes	ordered factor
	Hunting strategies types	ground hunter; vegetation hunter; ambush hunter; running hunter; wandering web weaver; sheet weaver; spaced web weaver; orbital web weaver	factor
	Balooning ability	yes-no	factor
	Maximum height (cm)	continuous trait	continuous
Plants	Early flowering periods	number of associated month (1-12)	ordered factor
	vegetative formation type	géophyte; hémicryptophyte; thérophyte	factor
	LDMC (Leaf dry-matter content)	continuous trait	continuous
	SLA (Specific Leaf Area)	continuous trait	continuous
	Dissemination type	barochore; épizoochore; anémochore; myrmécochore; hydrochore	factor

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Appendix 2 PERMANOVA test on composition of spiders and plants between study site. NM = Non-Managed site, M1 = Managed site one and M2 = Managed site two. Signif. codes: *** p<0.001 ** p<0.01 * p<0.05

		Df	Sum Sq	R ²	F	Pr
Spiders	Site	1	2.15	0.24	14.54	0.001 ***
	NM VS M1 Residuals	46	6.79	0.75		
	Total	47	8.93	1.00		
	Site	1	2.04	0.19	11.58	0.001 ***
	NM VS M2 Residuals	46	8.40	0.80		
	Total	47	10.43	1.00		

25		Site	1	3.02	0.27	16.68	0.001 ***
26		M1 VS M2 Residuals	46	8.32	0.73		
		Total	47	11.33	1.00		
27		Site	1	2.02	0.25	15.72	0.001 ***
28		NM VS M1 Residuals	46	5.93	0.74		
29		Total	47	8.00	1.00		
30	Plants	Site	1	3.06	0.30	20.03	0.001 ***
31		NM VS M2 Residuals	46	7.04	0.70		
32		Total	47	10.10	1.00		
33		Site	1	1.86	0.21	12.28	0.001 ***
34		M1 VS M2 Residuals	46	6.98	0.79		
35		Total	47	8.84	1.00		

Appendix 3 PERMANOVA test on composition of spiders and plants between topographic zones H= High, M = Middle and L = low, for the Non Managed Site. Signif. codes: *** p<0.001 ** p<0.01 * p<0.05

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	Non Managed	Df	Sum Sq	R ²	F	Pr
Spiders	zone	1	1.10	0.62	22.66	0.002 **
	H VS					
	Residuals	14	0.68	0.38		
	M					
	Total	15	1.78	1.00		
	zone	1	1.90	0.72	35.70	0.001 ***
	H VS					
	Residuals	14	0.75	0.28		
	L					
	Total	15	2.65	1.00		
	zone	1	0.51	0.41	9.58	0.001 ***
	M VS					
Residuals	14	0.75	0.59			
L						
Total	15	1.26	1.00			
Plants	zone	1	1.54	0.84	75.23	0.001 ***
	H VS					
	Residuals	14	0.29	0.16		
	M					
	Total	15	1.83	1.00		
	zone	1	2.17	0.89	16.46	0.001 ***
	H VS					
	Residuals	14	0.26	0.11		
	L					
	Total	15	2.43	1.00		
	zone	1	0.14	0.32	6.68	0.001 ***
	M VS					
Residuals	14	0.30	0.68			
L						
Total	15	0.44	1.00			

Appendix 4 PERMANOVA test on composition of spiders and plants between topographic zones H= High, M = Middle and L = low, for the Managed Site 1. Signif. codes: *** p<0.001 ** p<0.01 * p<0.05

		Managed 1	Df	Sum Sq	R ²	F	Pr
Spiders	H	zone	1	0,23	0,25	4,67	0,003 **
	VS	Residuals	14	0,69	0,75		
	M	Total	15	0,93	1,00		
		zone	1	1,69	0,70	33,15	0,001 ***
	H	Residuals	14	0,71	0,30		
	VS L	Total	15	2,40	1,00		
		zone	1	1,16	0,49	13,54	0,001 ***
	M	Residuals	14	1,20	0,51		
	VS L	Total	15	2,36	1,00		
		zone	1	0,75	0,76	44,25	0,001 ***
	VS	Residuals	14	0,24	0,24		
	M	Total	15	0,98	1,00		
Plants		zone	1	1,74	0,71	35,00	0,001 ***
	H	Residuals	14	0,69	0,29		
	VS L	Total	15	2,43	1,00		
		zone	1	0,84	0,62	22,76	0,001 ***
	M	Residuals	14	0,52	0,38		
	VS L	Total	15	1,36	1,00		

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Appendix 5 PERMANOVA test on composition of spiders and plants between topographic zones H= High, M = Middle and L = low, for the Managed Site 2. Signif. codes: *** p<0.001 ** p<0.01 * p<0.05

		Managed 2	Df	Sum Sq	R ²	F	Pr
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73		H	zone	1	0,8212	0,3474	7,453	0,001 ***
74		VS	Residuals	14	1,5425	0,65257		
75		M	Total	15	2,36373	1		
76	Spiders	H	zone	1	1,8086	0,5252	15,49	0,001 ***
77		VS L	Residuals	14	1,634	0,4747		
78			Total	15	3,4432	1,0		
79		M	zone	1	1,097	0,3813	8,631	0,001 ***
80		VS L	Residuals	14	1,78	0,6186		
81			Total	15	2,8774	1,0		
82	Plants	H	zone	1	1,59136	0,774	48,077	0,001 ***
83		VS	Residuals	14	0,4634	0,2255		
84		M	Total	15	2,0547	1,0		
85		H	zone	1	2,483	0,89	114,24	0,001 ***
86		VS L	Residuals	14	0,3044	0,1091		
87			Total	15	2,7883	1,0		
88		M	zone	1	1,01709	0,648	25,786	0,001 ***
89	VS L	Residuals	14	0,5522	0,3518			
90		Total	15	1,5693	1,0			
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95 **Appendix 6** Significant indicator spider's species for each groups of topographic zones (H1= High, H2 = Middle and H3 = low) per study site, and associated p-value. Halophilic species are in bold. NM = Non-Managed site, M1 = Managed site one and M2 = Managed site two. Signif. codes: *** p<0.001 ** p<0.01 * p<0.05

	NM		M1		M2	
	species	p	species	p	species	p
H+M	<i>Pachygnatha degeeri</i>	0.001 ***	/		<i>Oedothorax fuscus</i>	0.001 ***
	<i>Oedothorax retusus</i>	0.012 *				
H+L	/		<i>Pachygnatha degeeri</i>	0.009 **	/	

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	<i>Erigone longipalpis</i>	0.001 ***	<i>Erigone atra</i>	0.001 ***	/
			<i>Tenuiphantes tenuis</i>	0.004 **	
M+L			<i>Gnathonarium</i>	0.016 *	
			<i>dentatum</i>		
			<i>Prinerigone vagans</i>	0.023 *	

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Appendix 7 Significant indicator plants species for each groups of topographic zones (H1= High, H2 = Middle and H3 = low) per study site, and associated p-value. Ellenberg salinity value are reported for each species. NM = Non-Managed site, M1 = Managed site one and M2 = Managed site two. Signif. codes: *** p<0.001 ** p<0.01 * p<0.05

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	NM			M1			M2		
	species	p	Ellenberg salinity	species	p	Ellenberg salinity	species	p	Ellenberg salinity
H+M	<i>Lolium perenne</i>	0.003 **	0.33	<i>Hordeum secalinum</i>	0.001 ***	2.0	<i>Ranunculus repens</i>	0.001 ***	0.67
				<i>Ranunculus repens</i>	0.001 ***	0.67	<i>Hordeum secalinum</i>	0.001 ***	2.0
				<i>Trifolium repens</i>	0.001 ***	1.25	<i>Trifolium repens</i>	0.001 ***	1.25
H+L	/			/			/		
M+L	<i>Bolboschoenus maritimus</i>	0.001 ***	3.25	<i>Carex otrubae</i>	0.002 **	2.0	<i>Bidens tripartita</i>	0.001 ***	0.33
	<i>Alopecurus geniculatus</i>	0.001 ***	1.25				<i>Eleocharis palustris</i>	0.001 ***	0.80
							<i>Glyceria notata</i>	0.001 ***	0.33
							<i>Atriplex prostrata</i>	0.016 *	1.80

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