

Table S2. Climatic adaptability indicated by the standard deviation of the mean factor scores for each species from *Merodon ruficornis* group.

	Species	PC1	PC2	PC3	PC4	PC5
	<i>M. abruzzensis</i>	0.79	1.04	0.32	0.36	0.05
	<i>M. ruficornis</i>	0.88	0.62	0.97	0.98	0.90
Cluster 1	<i>M. lamellatus</i>	0.70	0.55	0.21	0.35	0.31
	<i>M. alexandri</i>	0.14	0.16	0.28	/	/
	<i>M. auripes</i>	0.96	0.58	1.06	/	/
Cluster 2	<i>M. ponticus</i>	0.46	0.54	0.61	/	/
	<i>M. gallicus</i>	0.55	0.86	0.59	1.28	/
	<i>M. hoplitis</i>	0.48	0.73	0.40	0.46	/
Cluster 3	<i>M. trebevicensis</i>	0.83	1.02	1.97	1.41	/
	<i>M. ovaloides</i>	0.43	0.33	/	/	/
	<i>M. turcicus</i>	0.70	0.38	/	/	/
Cluster 4	<i>M. loewi</i>	0.97	1.02	/	/	/

*, **The ecological niches are significantly (*p≤ 0.05, **p≤ 0.01) more similar or different than expected by chance, MD- More different, MS- More Similar, LS- Less similar, NS-not significant.