

Table S1. Logistic regression statistics for spatial distribution of three vegetation zones (sub-Mediterranean, eu-Mediterranean and steno-Mediterranean). Predictor variables were altitude (A), precipitation (P) and temperature (T).

Model for sub-Mediterranean (3 variables, n=38)		R-squared (McFadden)	RMSE	Mean	# Fitted	ROC area	Critical z	Conf. level	
Logistic Regression Statistics:		1,000	0,000	0,368	38	1,00	1,960	95,0%	
Logistic Regression Coefficient Estimates:	Variable	Coefficient	Std.Err.	z-statistic	P-value	Lower 95%	Upper 95%	VIF	Std. coeff.
	Constant	-66,573	318,197	-0,209	0,834	-690,228	557,083		
	A	0,532	0,933	0,570	0,568	-1,297	2,361	1,488	32,397
	P	0,168	0,279	0,601	0,548	-0,380	0,715	1,149	23,632
	T	-9,163	21,845	-0,419	0,675	-51,979	33,653	1,605	-6,517
Model for eu-Mediterranean (3 variables, n=38)		R-squared (McFadden)	RMSE	Mean	# Fitted	ROC area	Critical z	Conf. level	
Logistic Regression Statistics:		0,150	0,455	0,447	38	0,70	1,960	95,0%	
Logistic Regression Coefficient Estimates:	Variable	Coefficient	Std.Err.	z-statistic	P-value	Lower 95%	Upper 95%	VIF	Std. coeff.
	Constant	4,258	6,346	0,671	0,502	-8,181	16,697		
	A	-0,012	0,006877	-1,703	0,088	-0,025	0,001764	1,488	-0,713
	P	-0,002265	0,001717	-1,320	0,187	-0,005630	0,001099	1,149	-0,319
	T	-0,106	0,364	-0,290	0,772	-0,819	0,608	1,605	-0,075
Model for steno-Mediterranean (3 variables, n=38)		R-squared (McFadden)	RMSE	Mean	# Fitted	ROC area	Critical z	Conf. level	
Logistic Regression Statistics:		0,797	0,184	0,184	38	0,99	1,960	95,0%	
Logistic Regression Coefficient Estimates:	Variable	Coefficient	Std.Err.	z-statistic	P-value	Lower 95%	Upper 95%	VIF	Std. coeff.
	Constant	-64,780	51,345	-1,262	0,207	-165,415	35,856		
	A	-0,047	0,033	-1,420	0,156	-0,111	0,018	1,488	-2,844
	P	-0,036	0,022	-1,674	0,094	-0,079	0,006226	1,149	-5,127
	T	6,062	4,196	1,444	0,149	-2,163	14,287	1,605	4,311

Table S2. Correlations among studied bioclimatic variables at 38 sites from the east Adriatic coast. Lower diagonal matrix: correlation coefficients (r). Upper diagonal matrix: corresponding P -values.

	P	T	m	M	PET	LDS	DSWD	LRF	P/PET	DMI	CONTINETY	Io	Iosq	It	Q2	EQ
P		*	**	*	*	***	***	**	***	**	*	***	***	ns	***	***
T	-0.36		***	ns	***	***	***	***	***	**	***	***	***	*	**	**
m	-0.51	0.57		***	**	***	***	***	***	***	***	***	***	ns	*	**
M	0.39	-0.01	-0.82		ns	ns	ns	*	*	*	**	*	ns	ns	ns	ns
PET	-0.32	0.99	0.49	0.07		***	***	***	**	**	**	***	***	*	*	**
LDS	-0.72	0.70	0.57	-0.22	0.66		***	***	***	***	**	***	***	ns	***	***
DSWD	0.73	-0.82	-0.57	0.14	-0.80	-0.93		***	***	***	**	***	***	*	***	***
LRF	0.96	-0.60	-0.60	0.33	-0.57	-0.80	0.85		***	***	**	***	***	ns	***	***
P/PET	0.92	-0.56	-0.65	0.41	-0.52	-0.67	0.73	0.96		***	***	***	***	ns	***	***
DMI	0.98	-0.51	-0.57	0.36	-0.48	-0.78	0.81	0.99	0.95		**	***	***	ns	***	***
CONTINETY	0.37	-0.62	-0.73	0.42	-0.53	-0.51	0.52	0.48	0.57	0.45		**	**	ns	ns	**
Io	0.96	-0.60	-0.60	0.33	-0.57	-0.80	0.85	1.00	0.96	0.99	0.48		***	ns	***	***
Iosq	0.71	-0.77	-0.56	0.17	-0.74	-0.91	0.97	0.83	0.68	0.79	0.45	0.83		ns	***	***
It	-0.13	0.38	0.11	0.16	0.37	0.29	-0.35	-0.23	-0.20	-0.19	-0.23	-0.23	-0.32		ns	ns
Q2	0.78	-0.42	-0.38	0.17	-0.40	-0.65	0.67	0.80	0.73	0.80	0.17	0.80	0.70	-0.20		***
EQ	-0.94	0.50	0.54	-0.30	0.47	0.82	-0.83	-0.94	-0.88	-0.95	-0.45	-0.94	-0.77	0.25	-0.78	

P -value significance level: ns $P > 0.05$, * $0.01 < P < 0.05$, ** $0.001 < P < 0.01$, *** $P < 0.001$.

Table S3. Correlations between 16 bioclimatic variables and the first three principal components.

Bioclimatic variable	PC-Principal component		
	PC1	PC2	PC3
T	-0.765	-0.323	-0.322
m	-0.846	0.470	-0.144
M	0.499	-0.803	-0.079
LDS	-0.861	-0.252	0.126
DMI	0.850	0.117	-0.393
CONTINETY	0.736	-0.226	0.487
It	-0.327	-0.581	-0.454
Q2	0.687	0.307	-0.572
Eigenvalue	4.14	1.53	1.07
% of total variance	51.71	19.12	13.40
Cumulative % of variance	51.71	70.82	84.22

Figure S1. Biplot of the principal component analysis based on bioclimatic variables PC1-PC3.

