

Article

Impact of Relative Sea-Level Rise on Low-Lying Coastal Areas of Catalonia, NW Mediterranean, Spain

Uxía López-Dóriga * and José A. Jiménez

Supplementary Materials

Table S1. Projected surface (Ha) under the TDA and CA for different SLR scenarios at 2050 and 2100 in the GR.

Habitat Type	Current Surface (Ha)	TDA				CA			
		2050		2100		2050		2100	
		RCP 4.5 RCP 8.5	H+	RCP4.5 RCP8.5	H+	RCP 4.5 RCP 8.5	H+	RCP4.5 RCP8.5	H+
Urban	1025	1018	1013	1010	991	507	1018	1015	1012
Barren	73	72	71	70	67	45	134	216	309
Salt mine	-	-	-	-	-	-	-	-	-
Cropland	5435	5433	5420	5411	5372	4248	5349	5230	5109
Grassland	564	557	550	537	525	345	557	541	536
Temperate forest	275	273	271	269	264	194	268	264	262
Coastal vegetation	38	36	34	32	28	9	45	75	84
Wetlands	792	738	687	595	488	66	767	737	720
Beach and dunes	126	101	78	65	46	7	121	101	91
Coastal lagoons	74	66	66	29	19	3	114	165	205
									448
									2601

Note: the final surface for coastal vegetation and wetland areas under the CA will be the sum of current not-affected area and the new converted areas to halophyte vegetation and transitional wetlands, respectively.

Table S2. Projected surface (Ha) under the TDA and CA for different SLR scenarios at 2050 and 2100 in the LD.

Habitat type	current surface (Ha)	TDA					CA				
		2050		2100			2050		2100		
		RCP 4.5	H+	RCP4.5	RCP8.5	H+	RCP 4.5	H+	RCP4.5	RCP8.5	H+
Urban	1508	1506	1503	1503	1498	1370	1507	1504	1503	1499	1370
Barren	343	342	342	342	339	296	369	425	473	603	436
Salt mine	-	-	-	-	-	-	-	-	-	-	-
Cropland	1114	1114	1114	1114	1111	415	1085	1025	971	821	162
Grassland	474	470	467	465	453	293	466	459	450	437	259
Temperate forest	231	230	229	227	223	104	230	226	223	211	80
Coastal vegetation	53	53	53	52	52	25	39	33	40	50	147
Wetlands	256	254	248	236	214	33	258	254	246	230	175
Beach and dunes	113	102	90	84	72	19	101	85	78	61	18
Coastal lagoons	77	53	51	41	32	6	79	90	101	142	1303

Note: the final surface for coastal vegetation and wetland areas under the CA will be the sum of current not-affected area and the new converted areas to halophyte vegetation and transitional wetlands, respectively.

Table S3. Projected surface (Ha) under the TDA and CA for different SLR scenarios at 2050 and 2100 in the ED.

Habitat type	current surface (Ha)	TDA				CA			
		2050		2100		2050		2100	
		RCP 4.5	RCP 8.5	H+	RCP4.5	RCP8.5	H+	RCP 4.5	RCP 8.5
Urban	2333	2275	2033	1942	1769	1093	2298	2082	1953
Barren	350	331	309	229	276	145	337	316	302
Salt mine	90	29	16	13	8	0	29	16	13
Cropland	22,695	21,724	16,983	14,909	11,713	3610	20,566	15,050	13,361
Grassland	271	257	226	216	191	111	247	219	211
Temperate forest	56	53	41	37	31	14	44	38	36
Coastal vegetation	871	561	390	330	248	18	2,106	3,205	2,016
Wetlands	1198	712	421	325	84	5	1499	1537	1535
Beach and dunes	1878	1014	481	357	203	36	1618	1416	1341
Coastal lagoons	2711	1018	329	250	142	12	3508	8146	11,148
									15,325
									24,649

Note: the final surface for coastal vegetation and wetland areas under the CA will be the sum of current not-affected area and the new converted areas to halophyte vegetation and transitional wetlands, respectively.