Rapid expansion of the golden jackal in Greece: research, management and conservation priorities

Table S1. Pearson correlation matrix and variance inflation factors for the predictor variables potentially influencing the probability of occupancy of golden jackals in Greece.

	Arable land	Annual precipitation	Minimum temperature	Distance to previous range	Density of rivers	Forest	Pastures and grasslands	Human density	Naturalized crops	Permanent crops	Roughness index	Shrublands	Wetlands	Wolf presence	Density of roads
Arable land	1.00	-0.28	-0.04	0.03	0.20	-0.37	-0.12	0.23	-0.18	-0.18	-0.55	-0.43	0.19	0.04	-0.07
Annual precipitation		1.00	-0.41	0.19	0.05	0.38	0.31	-0.36	0.15	-0.11	0.47	0.14	-0.10	0.32	-0.16
Minimum temperature			1.00	-0.14	-0.10	-0.62	-0.33	0.47	0.22	0.43	-0.41	-0.09	0.08	-0.61	0.45
Distance to previous range				1.00	0.03	0.06	0.12	0.00	-0.13	-0.17	0.09	-0.03	0.03	0.25	-0.04
Density of rivers					1.00	-0.02	0.04	0.04	0.05	-0.05	-0.10	-0.11	0.09	0.09	-0.02
Forest						1.00	-0.03	-0.47	-0.21	-0.30	0.48	-0.01	-0.15	0.44	-0.35
Pastures and grasslands							1.00	-0.23	-0.07	-0.19	0.31	0.16	-0.06	0.21	-0.19
Human density								1.00	0.07	0.24	-0.48	-0.34	0.11	-0.28	0.54
Naturalized crops									1.00	0.29	-0.10	0.05	-0.11	-0.23	0.16
Permanent crops										1.00	-0.16	-0.05	-0.04	-0.34	0.27

Roughness index											1.00	0.53	-0.23	0.26	-0.23
Shrublands												1.00	-0.19	0.02	-0.18
Wetlands													1.00	0.01	-0.06
Wolf presence														1.00	-0.32
Density of roads															1.00
Variance inflation factor	3.18	1.71	3.52	1.14	1.08	4.72	1.77	1.98	1.40	1.47	2.80	2.32	1.15	1.76	1.76

Table S2. Observations of golden jackals collected in Greece (2013-2022), used as part of the study.

IDF	Observation date	latitude	longitude	Source	Methodology	Number	Sex	Age	Road kill	Category
13	29/04/2013	40.860306	24.798546	GBIF	Visual observation		n.a	n.a		C2
14	07/05/2013	40.860306	24.798546	GBIF	Visual observation		n.a	n.a		C2
15	24/04/2014	41.141236	23.230941	Observation.org	Visual observation	3	n.a.	n.a.		C2
16	26/04/2014	40.884674	24.77145	Observation.org	Visual observation	1	n.a.	n.a.		C2
17	15/06/2014	40.925444	24.760668	Observation.org	Visual observation	1	n.a.	n.a.		C2
18	15/06/2014	40.892039	24.785471	Observation.org	Visual observation	1	n.a.	n.a.		C2
19	16/06/2014	40.931153	24.753313	Observation.org	Visual observation	1	n.a.	n.a.		C2
20	16/06/2014	40.869456	24.789147	Observation.org	Visual observation	1	n.a.	n.a.		C2
21	29/11/2014	40.802387	26.07937	Observation.org	Visual observation	1	n.a.	n.a.		C1
23	02/01/2015	40.982491	25.235596	GBIF	Visual observation		n.a	n.a		C2
24	24/01/2015	40.856042	26.031242	Observation.org	Visual observation	1	n.a.	Adult		C2
26	23/04/2015	40.823811	26.05957	GBIF	Visual observation		n.a	n.a		C2
27	29/04/2015	40.817931	26.154528	Observation.org	Visual observation	1	n.a.	n.a.		C1
28	02/06/2015	40.767314	26.068469	Observation.org	Visual observation	1	n.a.	n.a.		C1
29	07/07/2015	37.686597	22.298453	Observation.org	Acoustic monitoring	1	n.a.	n.a.		C1

30	07/07/2015	40.8406	26.0226	Observation.org	Visual observation	1	n.a.	n.a.		C1
31	09/07/2015	40.7845	26.0601	Observation.org	Visual observation	1	n.a.	n.a.		C1
33	01/05/2016	41.191654	23.132553	GBIF	Visual observation		n.a	n.a		C2
34	04/05/2016	40.87289	24.653839	Observation.org	Acoustic monitoring	1	n.a.	n.a.		C1
35	06/05/2016	40.9596	24.7612	Observation.org	Visual observation	4	n.a.	n.a.		C2
36	07/05/2016	40.8719	24.7734	Observation.org	Visual observation	4	n.a.	n.a.		C2
37	16/07/2016	41.005633	25.043471	Observation.org	Visual observation	1	n.a.	n.a.		C2
38	15/03/2017	41.255407	23.162664	Observation.org	Acoustic monitoring	5	n.a.	n.a.		C1
39	24/04/2017	36.832988	21.799349	Observation.org	Visual observation	1	n.a.	Adult		C2
40	04/05/2017	40.8027	26.1377	Observation.org	Visual observation	1	n.a.	n.a.		C1
41	06/05/2017	40.9245	25.2677	Observation.org	Visual observation	1	n.a.	n.a.		C2
42	15/05/2017	40.868576	24.789494	GBIF	Visual observation		n.a	n.a		C2
45	26/08/2017	36.803973	21.751628	Observation.org	Acoustic monitoring	1	n.a.	n.a.		C1
48	09/10/2017	40.961807	25.335878	GBIF	Visual observation		n.a	n.a		C2
49	25/11/2017	40.387611	22.907783	ARCTUROS	Acoustic monitoring	n.a.	n.a.	n.a.		C1
50	25/11/2017	40.454964	23.00472	ARCTUROS	Visual observation	1	Female	Adult	Yes	C1
51	20/04/2018	40.873082	24.786685	Observation.org	Visual observation	2	n.a.	n.a.		C2

52	31/05/2018	41.029275	25.199886	Observation.org	Visual observation	1	n.a.	n.a.	Yes	C1
53	12/08/2018	41.253678	23.164776	Observation.org	Acoustic monitoring	5	n.a.	n.a.		C1
56	06/03/2019	40.782516	26.1206	Observation.org	Visual observation	2	n.a.	n.a.		C2
57	01/04/2019	38.155643	21.383299	GBIF	Visual observation		n.a	n.a		C2
58	06/04/2019	38.159988	21.381777	Observation.org	Acoustic monitoring	1	n.a.	n.a.		C1
59	13/05/2019	40.884014	24.835605	Observation.org	Visual observation	1	n.a.	n.a.		C2
64	28/07/2019	41.073216	23.298934	Observation.org	Visual observation	1	n.a.	n.a.		C2
65	03/08/2019	36.931091	21.91173	Observation.org	Acoustic monitoring	2	n.a.	n.a.		C1
66	24/08/2019	40.218219	23.672219	inaturalist	Visual observation	1	n.a	n.a	Yes	C1
68	29/09/2019	41.099361	23.268522	ARCTUROS	Visual observation	1	Male	Subadult	Yes	C1
70	12/12/2019	36.749821	22.546326	Observation.org	Acoustic monitoring	3	n.a.	n.a.		C1
71	13/12/2019	36.757454	22.481083	Observation.org	Acoustic monitoring	2	n.a.	n.a.		C1
72	28/12/2019	38.344929	21.252728	Facebook	Visual observation	1	n.a	n.a	Yes	C1
74	22/02/2020	41.185432	23.202042	Observation.org	Visual observation	1	n.a.	n.a.		C1
76	08/08/2020	36.955552	21.701852	Observation.org	Acoustic monitoring	4	n.a.	n.a.		C1
77	04/10/2020	36.711651	22.436523	Observation.org	Acoustic monitoring	4	n.a.	n.a.		C1
78	06/10/2020	36.711464	22.436122	Observation.org		1	n.a.	n.a.		C1
79	10/10/2020	40.752585	21.152889	ARCTUROS	Visual observation	1	n.a.	n.a.		C1

80	28/10/2020	40.462464	23.804279	GBIF	Visual observation		n.a	n.a		C1
81	13/11/2020	37.927759	24.000983	Facebook	Visual observation	1	n.a	n.a	Yes	C1
83	15/01/2021	39.193024	23.32966	Taklis	Camera trap	1	n.a.	n.a.		C1
84	23/01/2021	38.171028	21.403194	Facebook	Visual observation	1	n.a	n.a		C1
85	28/01/2021	40.969873	24.853784	inaturalist	Visual observation	1	n.a	n.a	Yes	C1
86	27/03/2021	40.823109	21.445498	Observation.org	Visual observation	1	n.a.	n.a.		C1
87	28/03/2021	41.211147	23.229203	inaturalist	Visual observation	2	n.a	n.a		C1
88	01/04/2021	38.150085	21.507448	Facebook	Visual observation	1	n.a	n.a		C1
90	21/04/2021	39.200798	23.332068	Taklis	Camera trap	1	n.a.	n.a.		C1
91	23/04/2021	39.200806	23.33206	Taklis	Camera trap	1	n.a.	n.a.		C1
93	18/05/2021	37.834427	22.158857	inaturalist	Visual observation	1	n.a	n.a	Yes	C1
94	19/05/2021	38.04471	23.902391	ARCTUROS	Visual observation	1	n.a	n.a		C1
96	28/05/2021	41.220854	26.320303	inaturalist	Visual observation	1	n.a	n.a		C1
97	30/05/2021	40.701563	23.124922	Taklis	Visual observation	1	n.a.	n.a.		C1
98	02/06/2021	41.098312	23.402623	ARCTUROS	Visual observation	1	Female	Subadult		C1
99	17/07/2021	36.907986	21.745075	inaturalist	Visual observation	1	n.a	n.a		C1
100	18/07/2021	36.907986	21.745075	inaturalist	Visual observation	3	n.a	n.a		C1
104	31/08/2021	40.488627	21.225437	Panagiotopoulos	Acoustic monitoring	n.a.	n.a.	n.a.		C1

105	31/08/2021	40.434917	21.317433	Panagiotopoulos	Visual observation	1	Male	6 months	Yes	C1
106	01/09/2021	40.65901	21.48443	ARCTUROS	Camera trap	1	Female	Adult		C1
107	18/09/2021	41.015839	24.706425	GBIF	Visual observation		n.a	n.a		C2
108	20/09/2021	40.989399	25.161987	Observation.org	Visual observation	1	n.a.	n.a.		C2
109	22/09/2021	36.804109	21.782586	Observation.org	Visual observation	1	n.a.	n.a.		C2
110	23/09/2021	36.828976	21.774084	Observation.org	Acoustic monitoring	3	n.a.	n.a.		C1
111	24/09/2021	36.79954	21.764016	Observation.org	Visual observation	1	n.a.	n.a.		C2
112	24/09/2021	36.814805	21.776202	Observation.org	Acoustic monitoring	5	n.a.	n.a.		C1
113	25/09/2021	36.814624	21.776977	Observation.org	Acoustic monitoring	4	n.a.	n.a.		C1
114	26/09/2021	36.817451	21.77034	Observation.org	Visual observation	1	n.a.	n.a.		C2
115	27/09/2021	36.890469	21.701622	Observation.org	Visual observation	2	n.a.	n.a.		C2
117	28/09/2021	36.81447	21.775267	Observation.org	Visual observation	1	n.a.	n.a.		C2
120	29/09/2021	37.025064	21.972924	Observation.org	Visual observation	1	n.a.	n.a.	Yes	C1
123	02/10/2021	40.227382	23.657939	ARCTUROS	Visual observation	1	Female	Subadult	Yes	C1
124	02/10/2021	40.159413	23.73136	ARCTUROS	Visual observation	1	Female	Subadult	Yes	C1
131	30/10/2021	40.690298	23.098755	inaturalist	Visual observation	1	n.a	n.a		C1
132	30/10/2021	39.186788	23.318992	Taklis	Camera trap	1	n.a.	n.a.		C1
133	31/10/2021	39.186788	23.318992	Taklis	Camera trap	1	n.a.	n.a.		C1
134	03/11/2021	39.186788	23.318992	Taklis	Camera trap	1	n.a.	n.a.		C1

135	07/11/2021	39.186788	23.318992	Taklis	Camera trap	1	n.a.	n.a.		C1
136	13/11/2021	41.287934	23.025086	ARCTUROS	Visual observation	1	Female	Subadult		C1
138	15/12/2021	38.326816	21.951641	Facebook	Visual observation	2	n.a	n.a	Yes	C1
140	27/01/2022	41.262417	23.167347	Observation.org	Visual observation	1	n.a.	n.a.		C2
141	27/01/2022	41.247646	23.204798	Observation.org	Visual observation	1	n.a.	n.a.		C2
142	08/02/2022	37.928898	24.00178	Observation.org	Acoustic monitoring	1	n.a.	n.a.		C1
143	17/02/2022	39.463884	21.852941	Publicly accessible data	Visual observation	1	n.a.	Subadult	Yes	C1
144	18/02/2022	39.201056	23.332665	Taklis	Camera trap	1	n.a.	n.a.		C1
145	21/02/2022	40.587231	22.971093	ARCTUROS	Visual observation	1	n.a.	n.a.		C1
146	24/02/2022	38.113267	22.175006	ARCTUROS	Visual observation	1	Female	Adult	Yes	C1
147	02/03/2022	37.385201	22.750955	inaturalist	Visual observation	n.a.	n.a	n.a		C2
148	27/03/2022	41.255516	23.165	inaturalist	Visual observation	1	n.a	n.a		C1
149	30/03/2022	38.111917	21.375528	Facebook	Acoustic monitoring	n.a.	n.a	n.a		C1
150	30/03/2022	37.854345	22.4478	Facebook	Acoustic monitoring	n.a.	n.a	n.a		C1
151	07/04/2022	36.957233	21.682606	Observation.org	Visual observation	1	n.a.	Adult		C2
152	08/04/2022	36.956924	21.673561	Observation.org	Acoustic monitoring	3	n.a.	n.a.		C1
153	11/04/2022	36.956928	21.673525	Observation.org	Acoustic monitoring	1	n.a.	n.a.		C1
154	12/04/2022	36.962784	21.693596	Observation.org	Visual observation	1	n.a.	n.a.		C2

155	27/04/2022	40.856807	25.954007	inaturalist	Visual observation	1	n.a	n.a		C1
156	28/04/2022	40.950941	25.23334	Observation.org	Visual observation	1	n.a.	n.a.		C2
157	29/04/2022	41.198101	22.778228	inaturalist	Visual observation	1	n.a	n.a	Yes	C1
158	01/05/2022	41.252777	23.161217	Observation.org	Visual observation	2	n.a.	Adult		C2
159	05/05/2022	41.001301	25.156519	Observation.org	Visual observation	1	n.a.	Adult	Yes	C1
160	10/05/2022	41.106959	26.24053	Observation.org	Visual observation	1	n.a.	n.a.		C2
161	11/05/2022	40.928478	26.205885	Observation.org	Visual observation	1	n.a.	Adult	Yes	C1
162	13/05/2022	41.25	23.096867	Observation.org	Visual observation	1	n.a.	n.a.		C2
163	13/05/2022	40.831997	26.001596	Observation.org	Acoustic monitoring	4	n.a.	n.a.		C1
164	14/05/2022	41.25742	23.195658	Observation.org	Visual observation	1	n.a.	n.a.		C2
165	14/05/2022	41.251613	23.222952	Observation.org	Visual observation	1	n.a.	n.a.		C1
166	23/05/2022	36.984212	21.683156	Observation.org	Visual observation	1	n.a.	Adult		C2
170	06/06/2022	38.402428	21.904015	inaturalist	Acoustic monitoring	n.a.	n.a	n.a		C1
171	11/06/2022	40.979267	25.151392	Observation.org	Visual observation	1	n.a.	n.a.		C1
172	15/06/2022	40.848862	26.03187	Observation.org	Visual observation	1	n.a.	n.a.		C1
173	23/06/2022	39.191281	23.344172	Taklis	Visual observation	1	n.a.	n.a.		C1
174	28/06/2022	40.186156	23.783944	ARCTUROS	Acoustic monitoring	n.a.	n.a.	n.a.		C1

176	09/07/2022	39.611676	22.68017	Facebook	Visual observation	1	n.a.	Adult		C1
179	01/08/2022	38.170572	22.12011	Facebook	Visual observation	1	n.a	n.a		C1
188	11/04/2017	36.622124	22.48942	ARCTUROS	Acoustic monitoring	n.a.	n.a	n.a		C1
204	20/04/2018	40.859849	24.796601	Observation.org	Visual observation	2	n.a.	n.a.		C2
205	06/04/2019	38.147619	21.383334	Observation.org	Visual observation	1	n.a.	Adult		C2
210	30/05/2021	40.702125	23.120219	inaturalist	Visual observation	1	n.a	n.a		C1
217	27/09/2021	36.816335	21.777079	Observation.org	Acoustic monitoring	2	n.a.	n.a.		C1

Table S3. Standardized estimates and model parameters for each of the best fitting models (i.e. ΔAICc < 2.0; n = 14) predicting probability of occupancy of golden jackals in Greece.

Model ID	Standardized estimates for predictor variables													
	Arable land	**Annual precipitation**	**Distance to previous range**	**River density**	**Road density**	**Forest**	**Pastures and grasslands**	**Human density**	**Naturalized crops**	**Permanent crops**	**Roughness**	**Shrublands**	**Wetlands**	**Wolf presence**
27788	0.82	0.53	-2.77				0.53			0.55	0.64		1.46	-1.58
28044	0.82	0.49	-2.74				0.51	-0.31		0.60	0.52		1.47	-1.59
27786	0.79		-2.77				0.61			0.58	0.77		1.45	-1.50
25996	0.59	0.57	-2.69				0.58	-0.46		0.56			1.40	-1.54
27660	0.82	0.62	-2.73							0.49	0.76		1.46	-1.55
31884	0.86	0.55	-2.76				0.51			0.57	0.53	0.21	1.48	-1.55
28042	0.79		-2.73				0.58	-0.37		0.64	0.62		1.46	-1.52
29836	0.69	0.65	-2.72				0.58			0.52		0.38	1.42	-1.48
28300	0.86	0.47	-2.76				0.53		0.15	0.53	0.69		1.48	-1.55
25740	0.51	0.66	-2.73				0.63			0.45			1.36	-1.49
27804	0.84	0.54	-2.77	-0.12			0.53			0.55	0.63		1.46	-1.57
27820	0.79	0.53	-2.75		-0.12		0.52			0.57	0.61		1.45	-1.59
28298	0.87		-2.76				0.61		0.28	0.53	0.84		1.49	-1.46
27852	0.79	0.55	-2.77			-0.13	0.49			0.52	0.67		1.45	-1.54

Model ID	Model parameters				
	Degrees of Freedom	logLik	AICc	Delta AIC	Weight
27788	9	-264.2	546.8	0.00	0.144
28044	10	-263.7	547.8	0.97	0.088
27786	8	-265.9	548.0	1.16	0.081
25996	9	-264.8	548.0	1.17	0.080
27660	8	-266.0	548.3	1.45	0.070
31884	10	-264.0	548.3	1.54	0.066
28042	9	-265.1	548.4	1.62	0.064
29836	9	-265.1	548.5	1.66	0.063
28300	10	-264.1	548.5	1.74	0.060
25740	8	-266.2	548.6	1.77	0.059
27804	10	-264.1	548.6	1.82	0.058
27820	10	-264.1	548.7	1.85	0.057
28298	9	-265.2	548.7	1.92	0.055
27852	10	-264.2	548.7	1.93	0.055

Table S4. Natura 2000 Network in Greece and surface of priority management areas for golden jackals within each site.

Natura 2000 Code	**Total area (km^2)**	**Priority management area (km^2)**	**% Priority management area within site**
GR1420011	959.05	400.24	41.7
GR1220009	1606.29	249.06	15.5
GR1220002	414.96	193.24	46.6
GR1110008	251.62	186.99	74.3
GR2130012	224.46	96.73	43.1
GR1130009	286.06	96.37	33.7
GR2540008	316.69	92.60	29.2
GR1150010	230.28	83.50	36.3
GR2440002	463.27	82.02	17.7
GR1220001	288.29	79.32	27.5
GR1260001	779.58	76.66	9.8
GR1220010	288.55	72.96	25.3
GR1240009	909.54	52.00	5.7
GR2550003	112.02	51.94	46.4
GR1110005	432.99	51.67	11.9
GR1110002	423.39	51.67	12.2
GR2540007	377.88	47.65	12.6
GR2330002	97.49	46.48	47.7
GR2530001	232.69	43.58	18.7
GR2520006	556.51	43.02	7.7
GR2540003	106.28	41.26	38.8
GR2310015	443.64	40.21	9.1
GR2320012	390.21	39.30	10.1
GR2310001	356.41	36.86	10.3
GR1150001	147.74	35.71	24.2
GR2120001	86.32	34.62	40.1

GR2120005	86.43	34.62	40.1
GR2450004	106.04	33.09	31.2
GR1340004	130.31	31.86	24.5
GR1420013	96.85	30.60	31.6
GR2550006	536.88	30.18	5.6
GR1340001	266.36	29.82	11.2
GR2540001	390.52	29.23	7.5
GR2550009	488.17	29.11	6.0
GR1240008	791.78	27.43	3.5
GR1130010	176.98	26.09	14.7
GR2420012	333.93	23.00	6.9
GR1110009	297.85	22.88	7.7
GR2520001	226.39	22.69	10.0
GR2310009	143.49	22.30	15.5
GR2320010	157.16	22.21	14.1
GR1420015	33.31	21.32	64.0
GR2540002	54.69	20.46	37.4
GR2320013	322.10	19.09	5.9
GR1240007	198.49	18.85	9.5
GR1430007	126.69	16.16	12.8
GR2110001	601.56	15.80	2.6
GR1270012	262.06	15.79	6.0
GR2130013	646.04	15.71	2.4
GR2440005	109.91	14.44	13.1
GR2320011	65.28	13.55	20.8
GR1230005	16.45	13.37	81.3
GR2110004	231.86	13.37	5.8
GR2540006	22.38	12.87	57.5
GR3000004	27.12	12.66	46.7

GR2420011	405.49	12.51	3.1
GR2530006	203.03	12.47	6.1
GR2330005	32.41	12.43	38.3
GR2420001	287.04	12.26	4.3
GR2320008	193.38	11.77	6.1
GR2110006	471.56	11.14	2.4
GR2120009	198.94	9.59	4.8
GR2320002	175.60	9.27	5.3
GR2330009	23.44	9.15	39.0
GR1150011	239.67	8.75	3.7
GR1110007	96.35	8.75	9.1
GR2310013	22.73	8.72	38.4
GR2320001	57.74	8.68	15.0
GR1270003	334.26	8.32	2.5
GR1340007	65.73	8.28	12.6
GR2510004	115.15	8.25	7.2
GR1260010	251.89	8.13	3.2
GR2310014	32.70	8.04	24.6
GR2120006	17.98	7.98	44.4
GR2120007	35.36	7.81	22.1
GR2320007	127.22	7.55	5.9
GR2310006	31.25	7.51	24.0
GR1110006	123.73	7.28	5.9
GR2520005	83.81	6.94	8.3
GR2140001	45.28	6.42	14.2
GR2550004	34.64	6.24	18.0
GR2530002	12.83	6.08	47.3
GR1430008	357.11	5.70	1.6
GR2330003	9.40	5.65	60.2

GR2130011	534.09	5.54	1.0
GR1240002	121.63	5.39	4.4
GR2430002	390.51	5.18	1.3
GR2310010	133.03	5.09	3.8
GR2120008	117.10	5.06	4.3
GR1240006	13.89	4.93	35.5
GR2520002	10.32	4.64	45.0
GR2450009	122.07	4.51	3.7
GR1240004	11.96	4.49	37.5
GR2410001	126.70	4.40	3.5
GR1260008	274.21	4.27	1.6
GR2550005	12.90	3.94	30.6
GR2330006	12.81	3.86	30.1
GR1260002	12.74	3.85	30.2
GR2130007	203.45	3.52	1.7
GR2530004	86.37	3.41	4.0
GR1230003	21.05	3.40	16.1
GR1130012	164.93	3.39	2.1
GR2110002	189.13	3.29	1.7
GR2320004	24.73	3.25	13.2
GR2320005	61.17	3.25	5.3
GR1230002	8.06	3.21	39.8
GR2420008	26.59	3.10	11.6
GR2530003	6.02	2.88	47.8
GR2310011	51.22	2.79	5.4
GR1130006	17.28	2.64	15.3
GR2410002	344.01	2.61	0.8
GR2320003	22.00	2.45	11.2
GR1230004	19.54	2.34	12.0

GR2330004	3.02	2.22	73.4
GR2130005	26.16	2.20	8.4
GR2450008	250.11	2.16	0.9
GR2120002	8.24	2.14	26.0
GR1220003	58.96	2.12	3.6
GR2520003	3.39	1.94	57.1
GR1270004	6.26	1.91	30.5
GR3000005	53.82	1.83	3.4
GR1430006	312.34	1.73	0.6
GR3000016	20.94	1.69	8.1
GR2420007	10.59	1.66	15.7
GR2420004	5.01	1.60	32.0
GR1250004	14.57	1.60	11.0
GR1420007	238.47	1.53	0.6
GR2310007	22.29	1.48	6.7
GR1410002	96.62	1.47	1.5
GR2240001	21.21	1.39	6.5
GR1420009	42.93	1.36	3.2
GR2310008	12.96	1.29	10.0
GR1340003	60.70	1.29	2.1
GR1230001	11.05	1.28	11.6
GR2120004	18.34	1.21	6.6
GR2440006	67.34	1.20	1.8
GR2120003	5.65	1.16	20.6
GR1240001	418.34	1.12	0.3
GR2310016	19.60	1.08	5.5
GR2320009	3.14	1.03	33.0
GR2330007	111.13	0.96	0.9
GR3000001	149.22	0.85	0.6

GR1240003	351.81	0.69	0.2
GR1230006	33.58	0.66	2.0
GR1250001	188.67	0.65	0.3
GR1340008	51.37	0.61	1.2
GR1420004	469.91	0.58	0.1
GR1420008	250.08	0.55	0.2
GR1270013	4.21	0.52	12.4
GR1270008	161.61	0.51	0.3
GR1420006	369.44	0.48	0.1
GR1420003	192.40	0.46	0.2
GR2540005	16.93	0.46	2.7
GR1120004	86.36	0.45	0.5
GR1110011	94.09	0.45	0.5
GR2450002	226.63	0.44	0.2
GR2450007	105.62	0.44	0.4
GR2420010	61.89	0.37	0.6
GR1150009	12.02	0.33	2.7
GR2130010	173.40	0.29	0.2
GR1150005	118.70	0.29	0.2
GR1340005	39.22	0.28	0.7
GR3000003	13.32	0.25	1.9
GR1420010	4.62	0.20	4.4
GR2450001	193.18	0.18	0.1
GR2550008	9.60	0.18	1.8
GR2550001	12.69	0.17	1.3
GR2330008	113.25	0.15	0.1
GR1270015	203.04	0.14	0.1
GR2310005	14.75	0.14	0.9
GR1220005	3.73	0.09	2.4

GR1320001	46.66	0.08	0.2
GR1320003	37.67	0.08	0.2
GR2140003	15.61	0.07	0.5
GR2420002	13.60	0.07	0.5
GR2510003	3.70	0.05	1.4
GR2550010	1229.30	0.03	0.0
GR1220011	6.67	0.02	0.3
GR1220012	8.08	0.02	0.3
GR2530007	2365.71	0.02	0.0
GR1240005	61.07	0.02	0.0
GR1260003	3.05	0.01	0.2
GR2450005	186.27	0.00	0.0
GR1250003	54.18	0.00	0.0
GR1270016	170.91	0.00	0.0

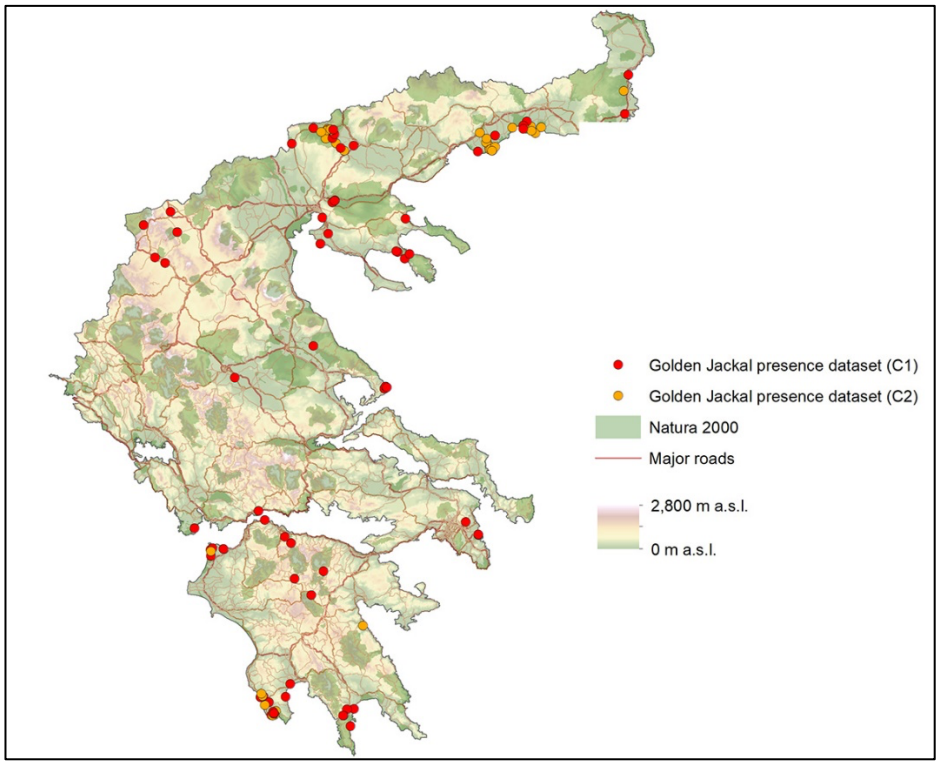

Fig. S1 Map of Greece indicating the location of the data collected in Greece as part of the "Golden jackal Project" (2013-2022)

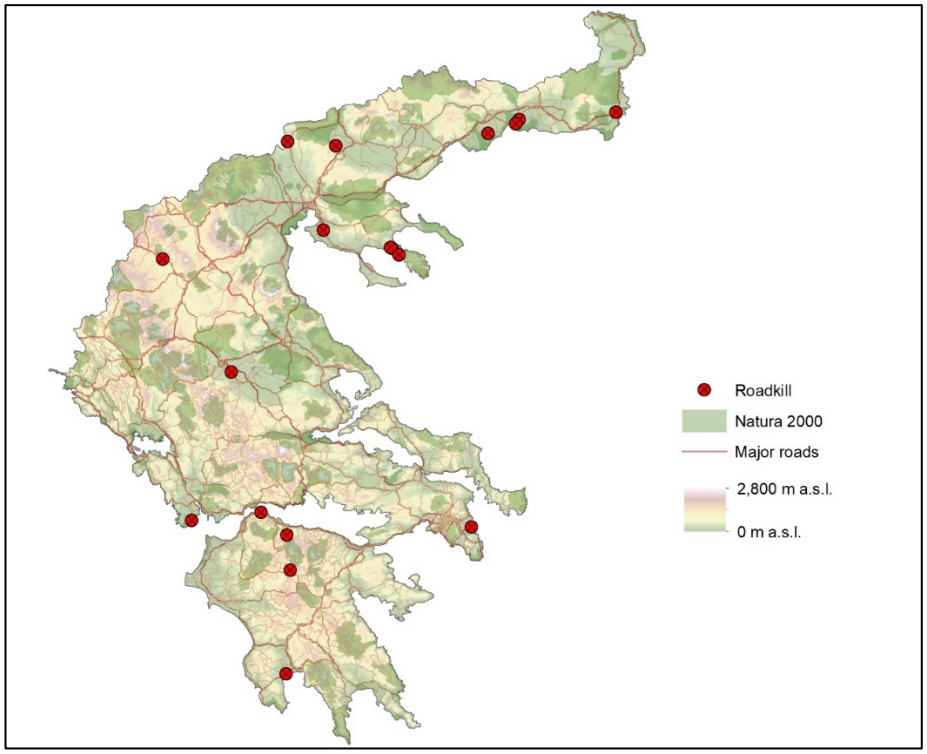

Fig. S2. Map of Greece indicating the locations where road accidents with golden jackals were recorded