

Supplementary Materials for

Costs of migratory decisions: A comparison across eight white stork populations

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Supplementary Materials

Table S1 Results of linear regression models concerning the effects of population on departure date

population	Estimate	SE	t-value
Armenia	01-09-2013	3.3	4797.9
Greece	-27.6	4.11	-6.9
Poland	-15.3	5.0	-3.1
Russia	-16.9	4.1	-4.1
Spain	-36.2	4.1	-8.7
SW-Germany	-20.5	4.1	-5.0
Tunisia	-30.2	4.1	-7.3

Table S2 Results of linear regression models concerning the effects of population on maximum distance reached

population	Estimate	SE	t-value
Armenia	989.2	910.3	1.09
Greece	3609.2	1077.1	3.35
Poland	5253.8	1287.4	4.08
Russia	4776.8	1032.2	4.63
Spain	1622.3	1175.2	1.38
SW-Germany	1724.9	1051.1	1.64
Tunisia	2240.9	1114.9	2.01

Table S3 GLMM model results for animal activity (ODBA) showing the effects of the main predictors. North of 33°N was incorporated in the intercept.

	Estimate	SE	t-value
(Intercept)	3.96	0.09	45.75
Thermal Uplift (centered)	-1.41	0.28	-5.09
South 33° N	-0.81	0.08	-9.73
South of 33° N x Thermal Uplift (c)	1.54	0.30	5.13

Table S4 GLMM model results concerning the effect of daily distance moved on the location of the wintering grounds.

	Estimate	SE	t-value
South 33° N	3.72	0.07	54.40
North 33° N	-0.67	0.08	-7.91
Uzbekistan	-0.13	0.15	-0.86

Table S5 GLMM model results for animal activity (ODBA) showing the effects of human population density (log) and vegetation cover (centered).

	Estimate	SE	t-value
(Intercept)	3.51	0.10	33.98
log(population density)	-0.15	0.01	-10.88
Vegetation cover (c)	0.94	0.08	12.39