

**Supplementary Information S7: Details of the fine-scale habitat use of Common Cranes and Demoiselle Cranes as determined by using generalized linear models.**

**Estimates of fine-scale habitat selection of Common Crane-1 in Gir-Somnath using generalized linear models (GLM). The models are ranked from best to worst according to AIC.**

<b>Models</b>	<b>deviance</b>	<b>AIC</b>	<b>ΔAIC</b>	<b>P-value</b>
cropland + open_scrub + water_bodies	365.04	373.04	0	0.0001***
cropland + open_scrub + settlement+ water_bodies	363.14	373.14	0.1	0.0001***
built_up+cropland + open_scrub + settlement+ water_bodies	362.91	374.91	1.87	0.0001***
built_up+cropland +dense_scrub+ dry_dec_sc + dry_mix_dec+ dry_teak+open_scrub + settlement+ water_bodies	344.82	378.82	5.78	0.004**
built_up+cropland + dry_dec_sc + dry_mix_dec+ dry_teak+open_scrub + settlement+ water_bodies	347.92	385.92	12.88	0.01*

The models were fitted using a backward selection process by removing one variable at a time and so on. The variables included built up areas (built\_up), croplands (crop\_land), dry deciduous scrub (dry\_dec\_sc), dry mixed deciduous forest (dry\_mix\_dec), dry teak forest (dry\_teak), open scrub habitats (open\_scrub), areas dominated with human settlements (settlement), and water bodies (water\_bodies). The models were fitted using a binomial error structure. \*\*\* denotes  $P < 0.0001$ , \*\* $P < 0.005$ , and \*denotes  $P < 0.05$

Estimates of fine-scale habitat selection of Common Crane-1 in Porbandar from January to February using generalized linear models (GLM). The models are ranked from best to worst according to AIC.

Models	deviance	AIC	$\Delta$ AIC	P-value
crop_land + open_scrub + water_bodies	499.20	507.20	0	0.0001***
crop_land + open_scrub + settlement +water_bodies	497.79	507.79	0.59	0.002**
crop_land + forest_area + open_scrub + settlement + water_bodies	495.48	507.98	0.78	0.07
built_up + crop_land + forest_area + open_scrub + settlement + water_bodies	489.34	513.34	6.14	0.99

The models were fitted using a backward selection process by removing one variable at a time and so on. The variables included built-up area (built\_up), croplands (crop\_land), forested areas (forest\_area), open scrub habitats (open\_scrub), areas dominated with human settlements (settlement), and water bodies (water\_bodies). The models were fitted using a binomial error structure. \*\*\* denotes  $P < 0.001$ , \*\* $P < 0.005$ , and denotes  $P < 0.10$

**Estimates of fine-scale habitat selection of Common Crane-2 in Bhavnagar using generalized linear models (GLM). The models are ranked from best to worst according to AIC.**

<b>Models</b>	<b>deviance</b>	<b>AIC</b>	<b><math>\Delta</math>AIC</b>	<b>P-value</b>
cropland + water_bodies	321.28	327.28	0	0.002**
cropland + saltpans + water_bodies	320.66	328.66	0.38	0.004**
cropland +open_scrub + saltpans + water_bodies	320.40	330.4	3.12	0.48
cropland +grassland +open_scrub + saltpans + water_bodies	312.55	334.55	7.27	0.98

The models were fitted using a backward selection process by removing one variable at a time and so on. The variables included croplands (crop\_land), grasslands (grassland), open scrub habitats (open\_scrub), saltpans (saltpans), and water bodies (water\_bodies). The models were fitted using a binomial error structure. \*\*P<0.005

**Estimates of fine-scale habitat selection of Common Crane-2 in Gir-Somnath using generalized linear models (GLM). The models are ranked from best to worst according to AIC.**

<b>Models</b>	<b>deviance</b>	<b>AIC</b>	<b>ΔAIC</b>	<b>P-value</b>
cropland + open_scrub	744.37	750.37	0	0.0001***
cropland + water_bodies + open_scrub	744.37	752.37	2	0.0001***
cropland + water_bodies + settlement + open_scrub + dry_teak + dry_mix_dec + dry_dec_sec + dense_scrub + built_up	687.09	805.09	54.72	0.95
cropland + water_bodies + open_scrub + dry_teak + dry_mix_dec + dry_dec_sec + dense_scrub	689.74	805.74	55.73	0.79
cropland + water_bodies+open_scrub +dry_mix_dec + dry_dec_sec+ dense_scrub	696.29	810.29	59.92	0.50

The models were fitted using a backward selection process by removing one variable at a time and so on. The variables included built up (built\_up), croplands (crop\_land), dry deciduous scrub (dry\_dec\_sc), dry mixed deciduous forest (dry\_mix\_dec), dense scrub (dense\_scrub), dry teak forests (dry\_teak), open scrub habitats (open\_scrub), areas dominated with human settlements (settlement), and water bodies (water\_bodies). The models were fitted using a binomial error structure. \*\*\* denotes  $P < 0.0001$

**Estimates of fine-scale habitat selection of Demoiselle Crane-1 in Porbandar from using generalized linear models (GLM). The models are ranked from best to worst according to AIC.**

<b>Models</b>	<b>deviance</b>	<b>AIC</b>	<b><math>\Delta</math>AIC</b>	<b>P-value</b>
crop_land + water_bodies	401.25	407.24	0	0.02*
crop_land + open_scrub + water_bodies	400.00	408.00	0.76	0.01*
built_up + crop_land + forest_area + open_scrub + water_bodies	396.83	408.83	1.59	0.41
crop_land + forest_area + open_scrub + water_bodies	399.83	409.83	2.59	0.33
built_up + crop_land + forest_area + open_scrub + saltpans + water_bodies	391.41	410.41	3.17	0.11
built_up + crop_land + forest_area + open_scrub + saltpans + settlement + water_bodies	389.15	411.15	3.91	0.98

The models were fitted using a backward selection process by removing one variable at a time and so on. The variables included built up area (built\_up), croplands (crop\_land), forested areas (forest\_area), open scrub habitats (open\_scrub), saltpans (saltpans), areas dominated with human settlements (settlement), and water bodies (water\_bodies). The models were fitted using a binomial error structure. \* denotes  $P < 0.05$

Estimates of fine scale-habitat selection of Demoiselle Crane-2 in Kutch using generalized linear models (GLM). The models are ranked from best to worst according to AIC.

Models	deviance	AIC	$\Delta$ AIC	P-value
crop_land + water_bodies	156.36	162.36	0	0.16
crop_land + water_bodies + open_scrub	155.86	163.86	1.5	0.12
crop_land + water_bodies + prosopis_scrub + open_scrub	155.39	165.39	3.03	0.09
crop_land + water_bodies + settlement + prosopis_scrub + open_scrub	154.58	166.58	4.22	0.13

The models were fitted using a backward selection process by removing one variable at a time and so on. The variables included croplands (crop\_land), open scrub habitats (open\_scrub), scrub habitats dominated with *Prosopis* (prosopis\_scrub), areas dominated with human settlements (settlement), and water bodies (water\_bodies). The models were fitted using a binomial error structure. denotes  $P < 0.10$

**Estimates of fine-scale habitat selection of Demoiselle Crane-2 in Porbandar using generalized linear models (GLM). The models are ranked from best to worst according to AIC.**

<b>Models</b>	<b>deviance</b>	<b>AIC</b>	<b><math>\Delta</math>AIC</b>	<b>P-value</b>
crop_land + forest_area + open_scrub + settlement	1143	1153.62	0	0.0001***
crop_land + forest_area + open_scrub + saltpans + settlement	1142	1155.97	2.35	0.0001***
crop_land + dense_scrub + forest_area + open_scrub + saltpans + settlement	1142	1156.99	3.37	0.0001***
built_up + crop_land + dense_scrub + forest_area + open_scrub + saltpans + settlement	1141	1158.99	5.37	0.0001***
built_up + crop_land + dense_scrub + forest_area + open_scrub + saltpans + settlement + water_bodies	1141	1161.50	7.88	0.27

The models were fitted using a backward selection process by removing one variable at a time and so on. The variables included built up area (built\_up), croplands (crop\_land), forested areas (forest\_area), open scrub habitats (open\_scrub), dense scrub (dense\_scrub), saltpans (saltpans), areas dominated with human settlements (settlement), and water bodies (water\_bodies). The models were fitted using a binomial error structure. \*\*\* denotes  $P < 0.0001$