Electronic Supplementary Material

Table A1. Model diagnostics of the six *a priori* defined candidate models to estimate population wide resource selection of Eurasian beavers in Telemark, southern Norway (2009-2013). ΔAIC_c = Akaikes Information Criterion difference, AIC_{wt} = Akaikes Information Criterion model weight. ✔ indicates whether or not a variable was included in a candidate model.

| Model | Distance to the nearest: | | | | | Slope | River/Lake | Land cover | ΔAIC_c | AIC_{wt} |
	Road	Lodge	Land	Water	Building					
Full	✔	✔	✔	✔	✔	✔	✔	✔	0	1
Expert		✔	✔	✔		✔	✔	✔	85.25	0
Bank			✔	✔		✔			304.18	0
Null									5362.7	0
Human	✔				✔				5353.96	0
Terrain						✔	✔	✔	3875.61	0

Figure A1: Frequency distributions of GPS relocations of beavers in relation to distance to land (when being in the water), and distance to water (when being on land).
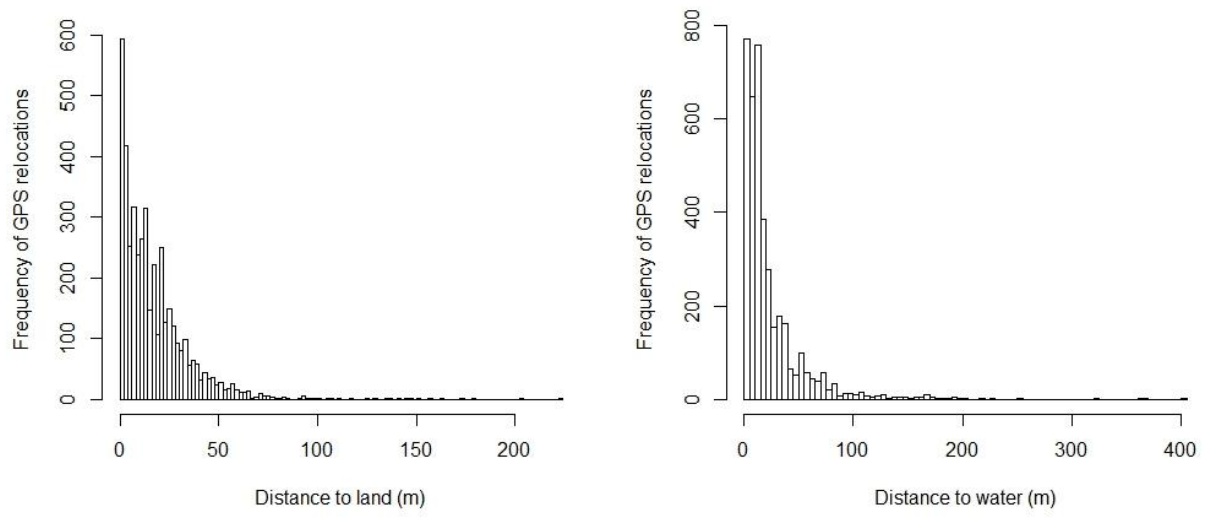
Figure A2: Relationship between family size and selection behavior for 'Distance to the nearest lodge'.
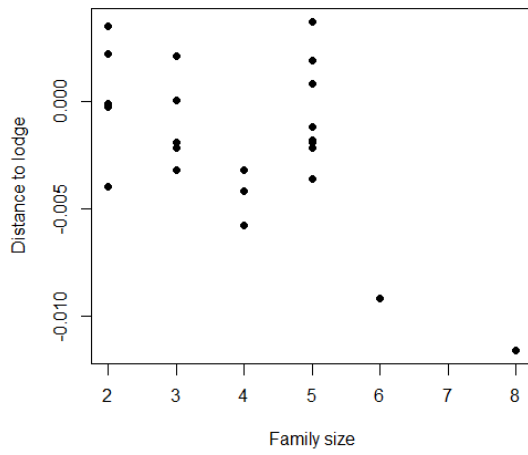
Figure A3: Relationship between family size and selection behavior for 'Distance to the land'.
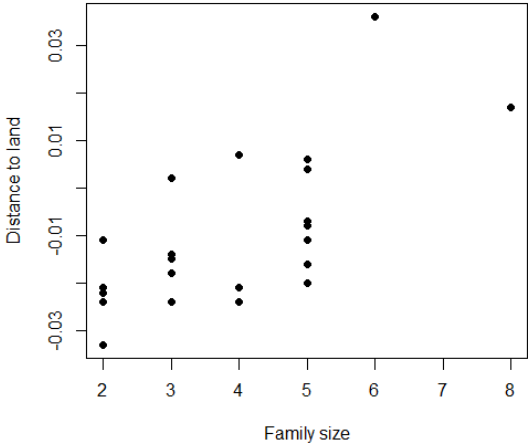
Figure A4: Relationship between family size and selection behavior for 'Distance to the nearest building'.