

S3 Table. Confusion matrix of RF classification predictions. Predictions were made on 30% (464 segments) of accelerometer data collected from a trained golden eagle and classified with a random forest model and (A) a simple ethogram (three behavioral classes: flapping, sitting and soaring) and (B) a complex ethogram (five behavior classes: flapping banking, flapping straight, sitting soaring banking and soaring straight).

(A)

	Flapping	Sitting	Soaring	Total
Flapping	92	16	26	134
Sitting	10	39	1	50
Soaring	9	0	271	280
Total	111	55	298	464

(B)

	Flapping banking	Flapping straight	Sitting	Soaring banking	Soaring straight	Total
Flapping banking	28	12	7	3	3	53
Flapping straight	6	39	17	15	5	82
Sitting	1	1	45	1	0	48
Soaring banking	1	6	0	161	26	194
Soaring straight	1	1	1	71	13	87
Total	37	59	70	251	47	464