

Supporting Materials

Continuous behavioural monitoring reveals increased feeding time during wing moult in free-ranging Pacific Black Ducks *Anas superciliosa*

Table S1. Wilcoxon rank sum tests of dailyODBAs for three ducks: D5210, D5239 and D5246 (statistics for data presented in Fig. 2).

Bird id	Group1	Group2	<i>n</i> 1	<i>n</i> 2	W statistic	<i>P</i>
D5210	pre-moult	moult	30	41	321	0.0005
D5210	pre-moult	post-moult	30	30	134	< 0.0001
D5210	moult	post-moult	41	30	354	0.002
D5239	pre-moult	moult	2	33	2	0.013
D5239	pre-moult	post-moult	2	22	34	0.261
D5239	moult	post-moult	33	22	687	< 0.0001
D5246	pre-moult	moult	21	29	207	0.056
D5246	pre-moult	post-moult	21	16	247	0.015
D5246	moult	post-moult	29	16	363	0.001

Table S2. Wilcoxon rank sum tests of daily time recorded for six behaviour types, for the three tagged birds (*i.e.* statistics for data presented in Fig. 3).

Bird id	Behaviour	Group1	Group2	n1	n2	W statistic	P
D5210	dabbling/swimming	pre-moult	moult	30	41	912	0.0005
D5210	dabbling/swimming	pre-moult	post-moult	30	30	764	< 0.0001
D5210	dabbling/swimming	moult	post-moult	41	30	873	0.003
D5239	dabbling/swimming	pre-moult	moult	2	33	37	0.804
D5239	dabbling/swimming	pre-moult	post-moult	2	22	26	0.725
D5239	dabbling/swimming	moult	post-moult	33	22	373	0.87
D5246	dabbling/swimming	pre-moult	moult	21	29	178	0.012
D5246	dabbling/swimming	pre-moult	post-moult	21	16	101	0.04
D5246	dabbling/swimming	moult	post-moult	29	16	219	0.769
D5210	feeding	pre-moult	moult	30	41	173	< 0.0001
D5210	feeding	pre-moult	post-moult	30	30	166	1.2e-5
D5210	feeding	moult	post-moult	41	30	717	0.239
D5239	feeding	pre-moult	moult	2	33	1	0.007
D5239	feeding	pre-moult	post-moult	2	22	29	0.522
D5239	feeding	moult	post-moult	33	22	725	< 0.0001
D5246	feeding	pre-moult	moult	21	29	41	< 0.0001
D5246	feeding	pre-moult	post-moult	21	16	167	0.988
D5246	feeding	moult	post-moult	29	16	432	< 0.0001
D5210	resting	pre-moult	moult	30	41	805	0.027
D5210	resting	pre-moult	post-moult	30	30	424.5	0.712
D5210	resting	moult	post-moult	41	30	371	0.004
D5239	resting	pre-moult	moult	2	33	66	0.003
D5239	resting	pre-moult	post-moult	2	22	7	0.145
D5239	resting	moult	post-moult	33	22	0	< 0.0001
D5246	resting	pre-moult	moult	21	29	546	< 0.0001
D5246	resting	pre-moult	post-moult	21	16	159	0.797
D5246	resting	moult	post-moult	29	16	65	< 0.0001
D5210	flying	pre-moult	moult	30	41	1,157.5	< 0.0001
D5210	flying	pre-moult	post-moult	30	30	450	1.0

Table S2 (*continued*).

Bird id	Behaviour	Group1	Group2	n1	n2	W statistic	P
D5210	flying	moult	post-moult	41	30	63.5	< 0.0001
D5239	flying	pre-moult	moult	2	33	66	0.021
D5239	flying	pre-moult	post-moult	2	22	29	0.497
D5239	flying	moult	post-moult	33	22	2	< 0.0001
D5246	flying	pre-moult	moult	21	29	605	< 0.0001
D5246	flying	pre-moult	post-moult	21	16	251	0.011
D5246	flying	moult	post-moult	29	16	27	< 0.0001
D5210	preening	pre-moult	moult	30	41	394	0.01
D5210	preening	pre-moult	post-moult	30	30	616	0.014
D5210	preening	moult	post-moult	41	30	1,023	< 0.0001
D5239	preening	pre-moult	moult	2	33	23	0.524
D5239	preening	pre-moult	post-moult	2	22	32	0.355
D5239	preening	moult	post-moult	33	22	552	0.0009
D5246	preening	pre-moult	moult	21	29	465	0.001
D5246	preening	pre-moult	post-moult	21	16	304	< 0.0001
D5246	preening	moult	post-moult	29	16	357.5	0.003
D5210	locomotion	pre-moult	moult	30	41	593	0.802
D5210	locomotion	pre-moult	post-moult	30	30	157	< 0.0001
D5210	locomotion	moult	post-moult	41	30	274	< 0.0001
D5239	locomotion	pre-moult	moult	2	33	33	1.0
D5239	locomotion	pre-moult	post-moult	2	22	22	1.0
D5239	locomotion	moult	post-moult	33	22	376	0.831
D5246	locomotion	pre-moult	moult	21	29	379	0.147
D5246	locomotion	pre-moult	post-moult	21	16	219	0.123
D5246	locomotion	moult	post-moult	29	16	221	0.806

Table S3. Wilcoxon rank sum tests, comparing the total day- and night-time feeding by three tagged ducks during wing moult (*i.e.* statistics for data presented in Fig. 4).

Bird id	Time period	Group1	Group2	<i>n</i> 1	<i>n</i> 2	W statistic	<i>P</i>
D5210	day	pre-moult	moult	30	41	320	0.0005
D5210	day	pre-moult	post-moult	30	30	589.5	0.04
D5210	day	moult	post-moult	41	30	986	< 0.0001
D5210	night	pre-moult	moult	30	41	243.5	< 0.0001
D5210	night	pre-moult	post-moult	30	30	127	< 0.0001
D5210	night	moult	post-moult	41	30	469	0.09
D5239	day	pre-moult	moult	2	33	5	0.04
D5239	day	pre-moult	post-moult	2	22	34	0.23
D5239	day	moult	post-moult	33	22	684	< 0.0001
D5239	night	pre-moult	moult	2	33	1	0.007
D5239	night	pre-moult	post-moult	2	22	27	0.652
D5239	night	moult	post-moult	33	22	724	< 0.0001
D5246	day	pre-moult	moult	21	29	52	< 0.0001
D5246	day	pre-moult	post-moult	21	16	139	0.387
D5246	day	moult	post-moult	29	16	412	< 0.0001
D5246	night	pre-moult	moult	21	29	98	< 0.0001
D5246	night	pre-moult	post-moult	21	16	200	0.338
D5246	night	moult	post-moult	29	16	402	< 0.0001