

Supplemental figures and tables for:

Sexually dimorphic characteristics of short-finned pilot whales, false killer whales, pygmy killer whales, and melon-headed whales assessed using fin and body morphometrics from photographs taken at sea

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TABLE S1 The social communities and clusters of the individual animals analyzed for this study, and their corresponding localities obtained from tag data and cluster movements. Individual false killer whales analyzed for this study are from the main Hawaiian Islands (MHI) population, the Northwestern Hawaiian Islands (NWHI) population, and the pelagic population. MHI Cluster identities determined following the methods of Baird et al. (2019). See Van Cise et al. (2017) and Baird (2016) for information on short-finned pilot whale communities.

Species	Community/Cluster	Location	Insular	Pelagic	Unknown
SFPW	Eastern community	Hawai'i	79	1	
	Western community	O'ahu/Kaua'i	39		
	Central community	O'ahu/Lāna'i	1		
	Unknown	MHI	1		5
	Subtotal		120	1	5
FKW	Cluster 1	MHI	34		
	Cluster 2	MHI	23		
	Cluster 3	MHI	18		
	Cluster 4	MHI	14		
	Cluster 5	MHI	8		
	Pelagic	MHI/NWHI		8	4
	NWHI Population	MHI/Nihoa	16		
Subtotal		113	8	4	
MHW	Hawaiian Islands Population	MHI	12		
	Kohala Resident	Kohala, Hawai'i Island	19		
	Subtotal		31	0	0
PKW	Hawai'i Island Resident	Primarily Hawai'i Island	26		
	O'ahu Resident	O'ahu	19		
	Unknown	Maui			1
	Subtotal		45	0	1
Total			309	9	10

TABLE S2 Selected GLM models for each species with the top four competitive models and their respective AICs. The difference between competitive model AICs the chosen model AIC is listed under Δ AIC. Models within 2 Δ AIC are considered highly competitive (*). See Figure 1 for definitions of measurements for models.

Species	Top Competing Models	AIC	Δ AIC
Short-finned pilot whale	EA + JA + DA + HA	67.46	0
	EA + JA + DA + CA	68.26	0.8*
	EA + JA + DA + CA + HA	68.96	1.5*
	EA + JA + DA + CA + HA + IA	69.13	1.67*
	EA + JA + DA + CA + HA + IA + FG	69.84	2.38
Pygmy killer whale	JA + CA	55.86	0
	JA + HA	57	1.14*
	JA + CA + HA	57.6	1.74*
	JA + CA + HA + FG	58.98	3.12
	EA + JA + CA + HA + FG	60.59	4.73
False killer whale	JA + CA	119.54	0
	JA + CA + HA	119.63	0.09*
	JA + CA + HA + IA	120.62	1.08*
	JA + CA + HA + IA + GE	121.67	2.13
	JA + CA + CB + HA + IA + GE	122.16	2.62
Melon-headed whale	JA + CD + HA	29.98	0
	EA + JA + CD + HA	30.18	0.2*
	EA + JA + DA + CD + HA	31.36	1.38*
	EA + JA + DA + CD + CB + HA	31.64	1.66*
	JA + CD	32.12	2.14

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