

SUPPLEMENTS

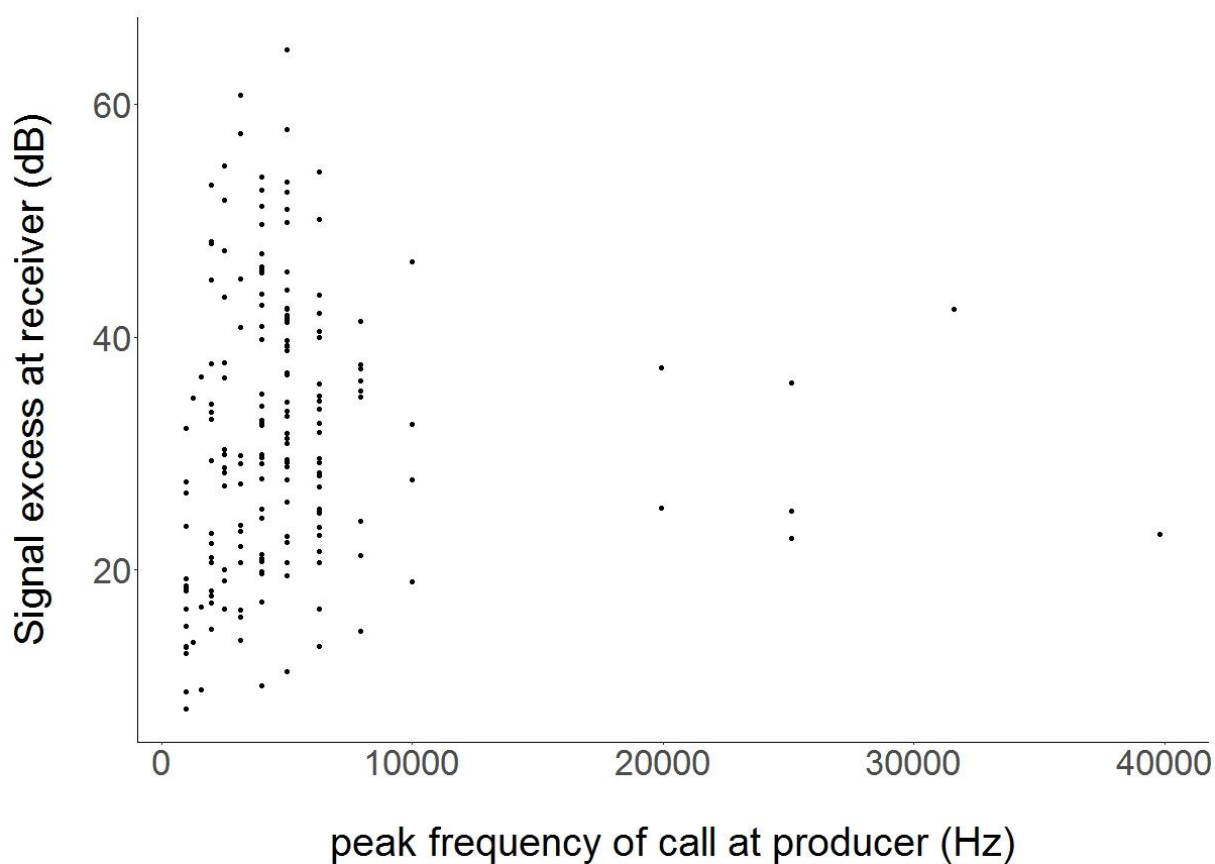


Figure S1: Signal excess (the level of the signal above the detection threshold) of calls that were detected on the tag of the receiving whale. These values give an indication of the audibility of the calls for the receiving whale.

Table S1: GLM model selection for the influence of call features and environmental characteristics on call detection probability. Selection of the best model was based on lowest Akaike Information Criterion corrected for small sample size (AICc), after which the final model was selected from all models with a non-significant difference from the lowest AICc ($\Delta AICc < 2$). The final model (bold) was then selected to be the model with the lowest degrees of freedom (df). Interaction terms are indicated with “.” between variables. All variables were measured on the tag of the producer, except ambient noise levels (Noise Receiver).

Pair	Duration	Peak frequency	Noise Receiver	Call producer	Pair:Duration	Pair:Frequency	Pair:Noise Receiver	Pair:Call producer	Duration:Frequency	Duration:Noise Receiver	Duration:Call Producer	Noise Receiver:Call Producer	df	R ²	AICc	$\Delta AICc$
x	x	x	x	x	x		x	x	x				14		311.1	0
x	x	x	x	x	x		x	x					13	0.48	312.3	1.20
x	x	x	x	x	x		x	x	x	x			15		312.9	1.82
x	x	x	x	x	x		x	x	x		x		15		313.0	1.94

Table S2: LM results investigating how duration, call PSD at the producer, and peak frequency were correlated with several call variables and depth. Duration, peak frequency and depth were log transformed to maintain normality assumption. Interaction terms are indicated with “:” between variables. Only the variables retained in the final models are included.

Model	Coefficients	Estimate	SE	T	P	R ²	AICc
Duration	Intercept	19.59	4.11			0.21	150.4
	log(Depth)	1.15	0.27	4.25	<0.0001		
	Call SPSD at prod	-0.24	0.045	-5.32	<0.0001		
	log(Frequency)	-2.48	0.49	-5.02	<0.0001		
	Call:log(freq)	0.030	0.0055	5.45	<0.0001		
	log(Depth):log(Freq)	-0.15	0.031	-4.85	<0.0001		
Call PSD at prod	Intercept	62.40	13.74			0.43	2297.8
	log(Depth)	-9.99	3.58	-2.79	<0.01		
	log(Duration)	-38.49	9.21	-4.18	<0.0001		
	log(Frequency)	1.31	1.35	0.98	0.33		
	Noise at prod	0.38	0.069	5.57	<0.0001		
	<i>Tag</i>						
	137c	1.70	1.53	1.11	0.27		
	138a	-0.88	1.79	-0.49	0.62		
	138b	11.33	2.59	4.37	<0.0001		
	158c	-2.77	1.83	-1.51	0.13		
	158d	-8.09	1.89	-4.29	<0.0001		
	log(Depth):log(Freq)	1.32	0.41	3.21	<0.005		
	log(Dur):log(Freq)	4.73	1.09	4.34	<0.0001		
Frequency	Intercept	10.82	0.49			0.57	466.3
	log(Depth)	-0.55	0.15	-3.73	<0.0005		
	Call SPSD at prod	-0.00011	0.0052	-0.021	0.98		
	log(Duration)	-0.70	0.34	-2.07	<0.05		
	Noise at prod	-0.042	0.0032	-12.99	<0.0001		
	<i>Tag</i>						
	137c	-0.063	0.087	-0.73	0.47		
	138a	-0.11	0.10	-1.09	0.28		
	138b	0.21	0.15	1.42	0.16		
	158c	-0.35	0.10	-3.57	<0.0005		

158d	-0.54	0.10	-5.20	<0.0001
log(Depth):log(Dur)	-0.072	0.024	-2.93	<0.005
Call at prod:log(Dur)	0.0097	0.0038	2.56	<0.05
log(Depth):Call at prod	0.0063	0.0015	4.27	<0.0001

Script 1 (rem_click_v2.txt)

[Click here to Download Script 1](#)

Script 2 (rem_click_wrapper.txt)

[Click here to Download Script 2](#)