

Additional file 1: Table S1. The percentage of all Fastloc GPS locations that were calculated with five or more satellites.

	Species	Satellites used	# Locations	% of all locations
Attached	Blue/Fin	5	88	5.1%
	Blue/Fin	6	205	12.0%
	Blue/Fin	7	318	18.6%
	Blue/Fin	8	372	21.7%
	Blue/Fin	9	584	34.1%
	Blue/Fin	10	72	4.2%
	Blue/Fin	11	73	4.3%
Floating	Blue/Fin	5	28	11.2%
	Blue/Fin	6	42	16.9%
	Blue/Fin	7	63	25.3%
	Blue/Fin	8	51	20.5%
	Blue/Fin	9	37	14.9%
	Blue/Fin	10	9	3.6%
	Blue/Fin	11	19	7.6%
Attached	Sperm	5	406	33.7%
	Sperm	6	365	30.3%
	Sperm	7	222	18.4%
	Sperm	8	135	11.2%
	Sperm	9	75	6.2%
	Sperm	10	3	0.3%
Floating	Sperm	5	103	15.8%
	Sperm	6	143	21.9%
	Sperm	7	152	23.3%
	Sperm	8	118	18.1%
	Sperm	9	136	20.9%

Each row represents the number and percentage overall of Fastloc GPS locations which were generated using the specified number of satellites. “Attached” indicates when tags were attached to whales. “Floating” indicates when tags were floating freely at the surface after releasing from whales. Data were collected from sperm whales tracked in the Gulf of Mexico during summer 2011 and 2013, and from blue and fin whales tracked off southern California during late summer 2014 and 2015.