

*Table S1.* Gray and harbor seal UAS surveys from June 2017 to August 2018 showing date, site, type of UAS used, the type of images recorded and the lens used. Chatham: Monomoy Island and Isle of Shoals flights were flown over the water.

Location	Date	Type of UAS	Type of images	Camera angle	Lens used	Species of seal surveying	Video footage
Chatham Main Haul-out	12 June 2017	APH	.ORF	Vertical	45 mm	Gray seal	No
	26 June 2017	DJI INSPIRE	.DNG	Oblique	45 mm	Gray seal	Yes
	27 June 2017	DJI INSPIRE	.DNG	Oblique	45 mm	Gray seal	Yes
	29 June 2017	DJI INSPIRE	.DNG	Oblique	45 mm	Gray seal	No
	9 July 2018	DJI INSPIRE	.DNG	Oblique	45 mm	Gray seal	Yes
Chatham North Cut	15 June 2017	DJI INSPIRE	.DNG	Oblique	45 mm	Gray seal	Yes
	26 June 2017	DJI INSPIRE	.DNG	Oblique	45 mm	Gray seal	Yes
	27 June 2017	DJI INSPIRE	.DNG	Oblique	45 mm	Gray seal	Yes
	28 June 2017	DJI INSPIRE	.DNG	Oblique	45 mm	Gray seal	Yes
	29 June 2017	DJI INSPIRE	.DNG	Oblique	45 mm	Gray seal	No
	9 July 2018	DJI INSPIRE	.DNG	Oblique	45 mm	Gray seal	Yes
	19 July 2018	DJI INSPIRE	.DNG	Oblique	45 mm	Gray seal	Yes
Chatham Monomoy Island	8 May 2018	DJI INSPIRE	.DNG	Oblique	45 mm	Gray seal	No
Isle of Shoals	3 June 2017	DJI INSPIRE	.DNG	Oblique	45 mm	Harbor seal	No
	4 June 2017	DJI INSPIRE	.DNG	Oblique	45 mm	Harbor seal	No
	29 August 2018	DJI INSPIRE	.DNG	Oblique	45 mm	Gray seal	Yes
	30 August 2018	DJI INSPIRE	.DNG	Oblique	45 mm	Gray seal	Yes
	31 August 2018	DJI INSPIRE	.DNG	Oblique	45 mm	Harbor seal	Yes
Head of the Meadow	9 August 2017	APH	JPEG	Vertical	25 mm	Gray seal	No
	8 September 2017	APH	JPEG	Vertical	25 mm	Gray seal	No
	13 October 2017	APH	JPEG	Vertical	25 mm	Gray seal	No

Table S2. Total seal count and total number of entanglements per site and per day sampled.

Location	Date	Mean total seal count	Total number of entanglements	Species	% of seals entangled
Chatham Main Haul-out	12 June 2017	154	5	Gray seal	3.25
	26 June 2017	468	6	Gray seal	1.28
	27 June 2017	377	5	Gray seal	1.32
	29 June 2017	558	8	Gray seal	1.43
	9 July 2018	760	6	Gray seal	0.79
Chatham North Cut	15 June 2017	189	2	Gray seal	1.06
	26 June 2017	920	11	Gray seal	1.20
	27 June 2017	674	10	Gray seal	1.48
	28 June 2017	922	17	Gray seal	1.83
	29 June 2017	263	2	Gray seal	0.76
	9 July 2018	442	5	Gray seal	1.13
	19 July 2018	649	5	Gray seal	0.77
Chatham Monomoy Island	5 August 2018	81	3	Gray seal	3.70
Isle of Shoals	3 June 2017	41	0	Harbor seal	0.00
	4 June 2017	13	0	Harbor seal	0.00
	29 August 2018	48	2	Gray seal	4.17
	20 August 2018	71	0	Gray seal	0.00
	31 August 2018	42	0	Harbor seal	0.00
Head of the Meadow	9 August 2017	364	3	Gray seal	0.82
	9 August 2017	713	11	Gray seal	1.54
	13 October 2017	715	6	Gray seal	0.84