

Supporting Information

Spatially-explicit network analysis reveals multi-species annual-cycle movement patterns of sea ducks

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Ecological Applications

Appendix S1

Table S1. Deployment details and transmitter specifications for all PTTs deployed during the Atlantic and Great Lakes Sea Duck Migration Study, 2002-2017.

Species	Year	Dates	Capture technique	#	F	M	Region	Subregion	Lat	Lon	Owner	Duty Cycle [hrs on / hrs off (# of days)]	Manufacturer	Mass (g)
BLSC	2002	8-10 May	Night light/dipnet	13	2	11	New Brunswick	Chaleur Bay	48.08	-66.58	SDJV	6/48	Microwave	38
	2003	17-Apr	Net gun	2	2	0	Mid-Atlantic	Chesapeake Bay	38.75	-76.42	SDJV	6/48	Microwave	38
	2003	17-28 May	Night light/dipnet	9	3	6	New Brunswick	Chaleur Bay	48.08	-66.58	SDJV	6/48	Microwave	38
	2004	13-17 May	Night light/dipnet	9	5	4	New Brunswick	Chaleur Bay	48.08	-66.58	SDJV	6/48	Microwave	38
	2009	2-6 May	Night light/dipnet	16	16	0	New Brunswick	Chaleur Bay	48.04	-66.37	SDJV/ CWS	6/72	Microwave	38
	2010	2-9 May	Night light/dipnet	47	19	28	Quebec/New Brunswick	Chaleur Bay	48.10	-66.52	SDJV/ CWS	2/72	Microwave	38
COEI	2010	5-11 Dec	Floating mist net	17	7	10	S. New England	Rhode Island	41.46	-71.34	SDJV	4/24 (116), 4/96	Microwave	38
	2010	17-May	Floating mist net, Fishing net	4	4	0	Gulf of Maine	Maine	43.75	-69.89	BRI	6/120, 8/48	Microwave	38
	2011	14 Nov-11 Dec	Floating mist net	26	26	0	S. New England	Rhode Island	41.42	-71.46	URI	4/24 (118), 4/96	Microwave	38
	2012	6-Jun	Floating mist net, Fishing net	4	4	0	Gulf of Maine	Maine	43.89	-69.13	BRI	6/120 8/48	Northstar Microwave	26 38
	2013	30 Apr - 1 May	Floating mist net, Fishing net	11	6	5	Gulf of Maine	Boston Harbor	42.34	-70.90	USFWS	2/72	Telonics	45
	2014	29 Apr-1 May	Floating mist net, Fishing net	19	9	10	Gulf of Maine	Boston Harbor	42.31	-70.93	USFWS	2/72	Telonics	35
	2014	29-30 May	Fishing net	9	9	0	Nova Scotia	Nova Scotia	44.87	-62.28	Acadia	3/72 8/48	Telonics (5) Microwave (7)	35 46-49
	2015	12-14 May	Floating mist net, Fishing net	15	7	8	Gulf of Maine	Boston Harbor	42.34	-70.90	USFWS	2/72	Telonics	35
LTDU	2007	13-14 Dec	Night light/dipnet	6	2	4	S. New England	Nantucket Sound	41.28	-70.20	SDJV	4/48; 4/168	Microwave	26
	2008	12-18 Dec	Night light/dipnet	8	2	6	S. New England	Nantucket Sound	41.28	-70.20	SDJV	4/48; 4/168	Microwave	26
	2008	22-24 Nov	Night light/dipnet	10	6	4	S. New England	Nantucket Sound	41.29	-70.17	SDJV	4/48; 4/168	Microwave	26
	2010	3-9 Mar	Night light/dipnet	14	5	9	S. New England	Nantucket Sound	41.67	-70.06	SDJV	4/48; 4/168	Microwave	26
	2010	20-22 Mar	Night light/dipnet	2	0	2	Mid-Atlantic	Chesapeake Bay	38.67	-76.34	SDJV	4/48; 4/168	Microwave	26
	2011	21-26 Feb	Mist net/ Lift net	20	6	14	Great Lakes	Lake Ontario	43.30	-79.80	SDJV	4/72	Microwave	26
	2011	13 Mar - 1 Apr	Night light/dipnet	7	2	5	Mid-Atlantic	Chesapeake Bay	38.72	-76.28	SDJV	4/72	Microwave	26
	2011	5-16 Dec	Mist net/ Lift net	19	13	6	Great Lakes	Lake Ontario	43.86	-77.48	SDJV	4/48 (130), 4/72 4/72	Telonics (14) Microwave (5)	35
	2012	18-29 Feb	Night light/dipnet	4	4	0	Mid-Atlantic	Chesapeake Bay	38.21	-75.88	SDJV	4/72	Microwave	26
	2012	4-5 Mar	Night light/dipnet	5	5	0	Mid-Atlantic	Chesapeake Bay	38.70	-76.26	SDJV	4/24 (134), 4/13 (66), 2/120	Telonics	35

SUSC	2012	19-29 Mar	Mist net/ Lift net	17	15	2	Great Lakes	Lake Ontario	43.64	-79.39	SDJV	4/48 (130), 4/72	Telonics	35
	2012	3-May	Mist net	1	1	0	Gulf of Maine	Casco Bay	43.77	-70.15	SDJV	4/48 (130), 4/72	Telonics	35
	2012	6-8 Dec	Mist net/ Lift net	8	7	1	Great Lakes	Lake Ontario	43.95	-76.84	SDJV	4/48 (130), 4/72	Telonics	35
	2013	9-15 Mar	Mist net/ Lift net	10	10	0	Great Lakes	Lake Ontario	43.65	-79.35	SDJV	4/48 (60), 4/72	Telonics	35
	2015	8-10 Nov	Floating mist net	2	2	0	S. New England	Nantucket Sound	41.67	-69.99	SDJV	4/72 (57), 4/96	GeoTrak	26
	2015	12-15 Dec	Floating mist net	13	13	0	S. New England	Nantucket Sound	41.67	-69.99	SDJV	4/72 (57), 4/96	GeoTrak	26
	2016	12-Mar	Night light	1	1	0	Great Lakes	Lake Michigan	44.14	-87.56	SDJV	3/72	Telonics	35
	2016	22-Mar	Floating mist net	1	1	0	S. New England	Long Island Sound	40.97	-72.86	SDJV	4/72 (57), 4/96	GeoTrak	26
	2016	29-Apr	Night light	1	1	0	Great Lakes	Lake Michigan	45.97	-86.07	SDJV	3/72	Telonics	35
	2016	30 Oct-22 Nov	Night light	7	2	5	Great Lakes	Lake Michigan	44.14	-87.60	SDJV	Females: 3/72 Males: 2/10	Telonics	35
	2016	29 Nov-9 Dec	Floating mist net	19	19	0	S. New England	Nantucket Sound	41.67	-70.02	SDJV	3/72	Telonics	35
	2001	22 Mar-12 Apr	Net gun	4	0	4	Mid-Atlantic	Chesapeake Bay	38.75	-76.42	SDJV	6/48	Microwave	38
	2002	28 Mar-6 Apr	Net gun	5	0	5	Mid-Atlantic	Chesapeake Bay	38.75	-76.42	SDJV	6/48	Microwave	38
	2004	24 Mar - 13 Apr	Net gun	5	5	0	Mid-Atlantic	Chesapeake Bay	38.75	-76.42	SDJV	6/48	Microwave	38
	2005	15-22 Apr	Submerged net	4	4	0	New Brunswick	Chaleur Bay	48.08	-66.58	SDJV	6/48	Microwave	38
	2006	30 Jul - 3 Aug	Submerged net	14	0	14	Labrador	Labrador	56.21	-61.19	CWS	3/4 (60), 6/72	Microwave	38
	2010	4-May	Submerged net	1	0	1	New Brunswick	Chaleur Bay	48.11	-66.20	SDJV/ CWS	6/72	Microwave	38
	2010	7-Aug	Submerged net	1	0	1	Quebec	St. Lawrence Estuary	48.74	-69.05	CWS	2/72	Microwave	38
	2010	9-Dec	Floating mist net	1	0	1	S. New England	Rhode Island	41.46	-71.34	SDJV	4/24 (116), 4/96	Microwave	38
	2011	2 Mar-11 Apr	Night light/dipnet	17	4	13	Mid-Atlantic	Chesapeake Bay	38.72	-76.28	SDJV		Microwave	26
2011	5-9 Dec	Mist net	2	0	2	S. Atlantic Bight	Pamlico Sound	35.34	-76.30	BOEM	4/24 (247), 2/72 (119)	Telonics	45	
2012	27 Feb-2 Apr	Night light/dipnet	13	1	12	Mid-Atlantic	Chesapeake Bay	38.06	-75.97	BOEM	4/24 (134), 4/13 (66), 2/120 (118), 4/13 (47)	Telonics	45	
2012	5-12 Oct	Floating mist net	26	26	0	Quebec	St. Lawrence Estuary	48.73	-69.06	SDJV	2/72	Telonics (23) Microwave (3)	49-53	
2013	17 Feb-18 Apr	Night light/dipnet	16	4	12	Mid-Atlantic	Chesapeake Bay	38.72	-76.28	BOEM	4/13 (246), 2/120 (116)	Telonics	45	
2013	4 - 19 Mar	Night light/dipnet	4	0	4	Mid-Atlantic	Delaware Bay	38.78	-75.13	BOEM	4/13 (246), 2/120 (116)	Telonics	45	
2013	2-10 Oct	Floating mist net	53	53	0	Quebec	St. Lawrence Estuary	48.73	-69.06	SDJV	2/72	Telonics	35	
2014	27-Jan	Night light/dipnet	1	0	1	Mid-Atlantic	Delaware Bay	38.78	-75.13	BOEM	4/13 (246), 2/120 (116)	Telonics	45	

	2014	16 Feb-9 Mar	Night light/dipnet; mist net	11	4	7	S. Atlantic Bight	Pamlico Sound	35.02	-76.31	BOEM	4/13 (246), 2/120 (116)	Telonics	45
	2014	27 Mar-3 Apr	Night light/dipnet	8	3	5	Mid-Atlantic	Delaware Bay	39.07	-75.35	BOEM	4/13 (246), 2/120 (116)	Telonics	45
	2015	24-Feb	Night light/dipnet	9	3	6	Mid-Atlantic	Chesapeake Bay	38.75	-76.42	BOEM	4/13 (246), 2/120 (116)	Telonics	45
	2015	2-7 Mar	Night light/dipnet; mist net	6	1	5	S. Atlantic Bight	Pamlico Sound	34.98	-76.33	BOEM	4/13 (246), 2/120 (116)	Telonics	45
	2015	21 Mar-14 Apr	Night light/dipnet	5	1	4	Mid-Atlantic	Delaware Bay	38.78	-75.13	BOEM	4/13 (246), 2/120 (116)	Telonics	45
WWSC	2010	7-9 Aug	Submerged net	17	3	14	Quebec	St. Lawrence Estuary	48.74	-69.05	CWS	2/72	Microwave	38
	2010	4-Dec	Mist net	1	1	0	Gulf of Maine	Merrimack River	42.82	-70.82	BRI	2/72	Microwave	38
	2010	11-Dec	Floating mist net	1	0	1	S. New England	Rhode Island	41.46	-71.34	SDJV	4/24 (116), 4/96	Microwave	38
	2011	16-Mar	Mist net	1	0	1	Gulf of Maine	Maine	43.53	-70.32	BRI	2/72	Microwave	38
	2012	15-20 Aug	Submerged net	17	5	12	Quebec	St. Lawrence Estuary	48.74	-69.05	CWS/ SDJV	2/72	Telonics	35
	2013	14-Feb	Mist net	2	2	0	Gulf of Maine	Boston Harbor	42.45	-70.94	SDJV	2/72	Telonics	45
	2013	9-Mar	Mist net	2	2	0	Great Lakes	Lake Ontario	43.65	-79.35	SDJV	4/72	Microwave	38
	2014	12-15 Mar	Floating mist net	3	3	0	S. New England	Long Island Sound	40.98	-72.50	USFWS	4/96 (54), 4/72 (57), 4/96	Telonics	35
	2015	27 Oct-5 Nov	Floating mist net	22	22	0	S. New England	Cape Cod Bay	41.74	-70.22	SDJV	4/72 (57), 4/96	Microwave	38
	2016	17-23 Mar	Floating mist net	3	3	0	S. New England	Long Island Sound	41.02	-72.59	SDJV	4/96 (54), 4/72 (57), 4/96	Telonics	35
	2016	13-Apr	Mist net	1	1	0	Gulf of Maine	Maine	43.54	-70.33	SDJV	4/96 (57), 4/72	Microwave	38
	2016	17-21 Aug	Submerged net	26	26	0	Quebec	St. Lawrence Estuary	48.82	-68.86	SDJV	4/96 (57), 4/72	Microwave	38