

Oceans and Climate Branch CTD Data Report
CTD_REPORT_2021001A1

**For further information, contact Tamara Holzwarth-Davis
National Marine Fisheries Service, Northeast Fisheries Science
Center, Woods Hole, Massachusetts 02543-1097.**

DATE: 5 December 2022

Oceans and Climate Branch CTD Data Report

CTD_REPORT_2022001A1

NOAA Fisheries Service
Northeast Fisheries Science Center
Woods Hole, MA 02543

A1 22-01
North Atlantic Right Whale Survey
Data Coverage: March 5 & 11, 2022

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's A12201 Northern Right Whale Survey aboard the Stellwagen Bank National Marine Sanctuary's Ship R/V *Auk*.

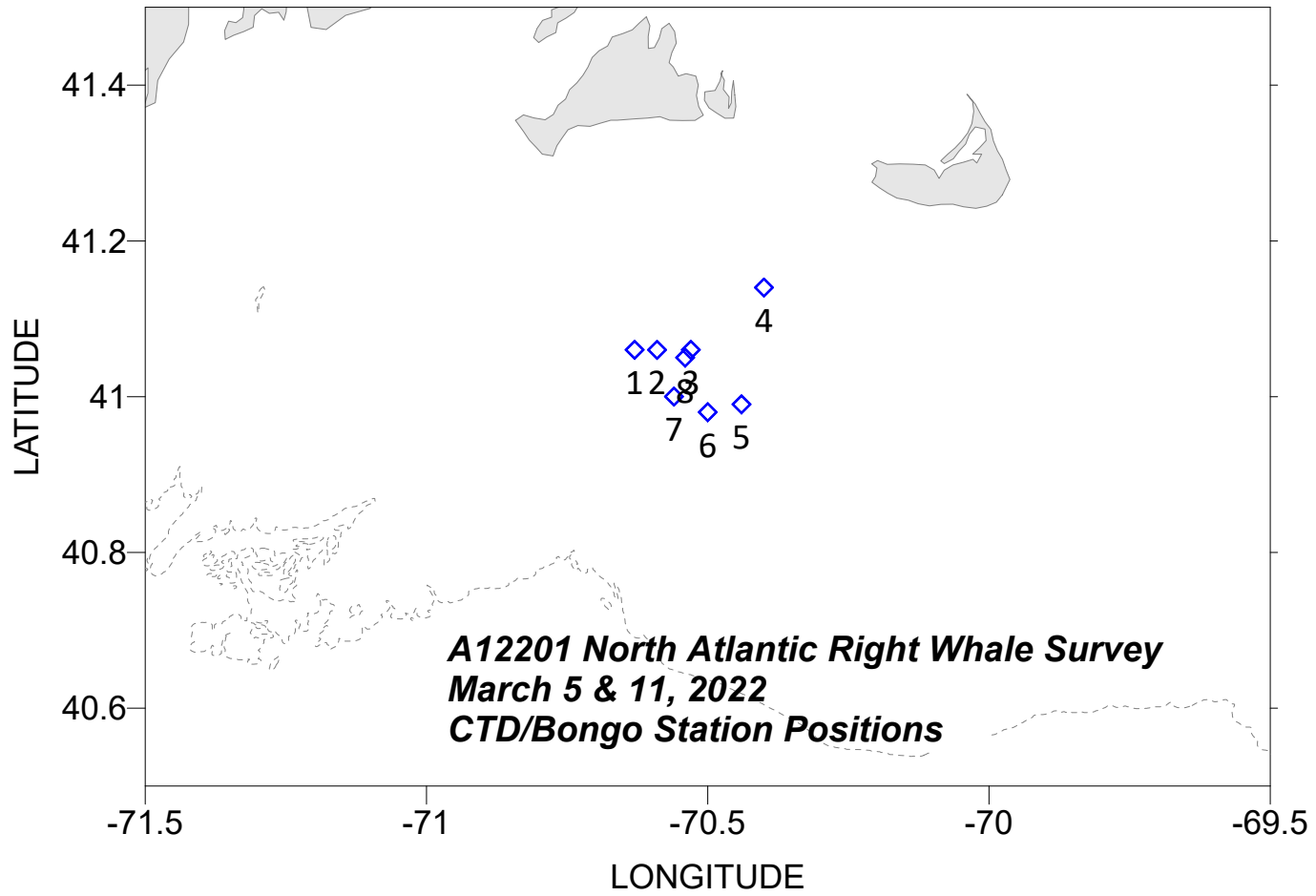
All data was obtained with a Seabird Electronics SBE19+V2 Seacat profiling CTD (s/n 7143).

The SBE19+V2 was deployed on 8 vertical casts immediately before or after a double oblique bongo cast.

Data presented here have been audited, however, corrections and/or updates may be applied at a later time.

The most recent and complete station/CTD data can be found by contacting [Dr. Chris Melrose](#)

Revised: September 19, 2022



**Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the
A12202 North Atlantic Right Whale Survey
March 5 & 11, 2022**

CD	SURFACE						BOTTOM					
	#obs	Temp (°C)	Anomaly	SDV1	SDV2	Flag	#obs	Temp (°C)	Anomaly	SDV1	SDV2	Flag
67	7	4.85	1.44	1.59	0.30	1	7	4.45	1.75	1.49	0.14	1

CD	SURFACE						BOTTOM					
	#obs	Salinity	Anomaly	SDV1	SDV2	Flag	#obs	Salinity	Anomaly	SDV1	SDV2	Flag
67	7	32.79	0.24	0.60	0.04	1	7	32.79	0.06	0.53	0.03	1

"CD": the calendar mid-date of all the stations within a region for a cruise;

"#obs": the number of observations included in each average;

"Temp (°C)" and "Salt": the areal averaged temperature or salinity; "Anomaly": the areal averaged temp/salt anomaly;

"SDV1": the standard deviation associated with the average temp/salt anomaly;

"SDV2": the standard deviation of the individual anomalies from which the average anomaly was derived;

"Flag": a value of "1" indicates that a true areal average could not be calculated due to poor station coverage. The areal averages listed were derived from a simple average of the observations within the region.

**A12202 North Atlantic Right Whale Survey
March 5 & 11, 2022**

Cast #	Station #	Lat (DDMM.M)	Long (DDMM.M)	Day	Mo	Year	Time (GMT)	Btm Depth (m)	Sfc Temp (° C)	Sfc Salt	Deepest Observed Temp (° C)	Deepest Observed Salt	Meters from Bottom	Method of Deployment
1	1	4103.9	7037.9	5	3	2022	16:49	45	4.43	32.77	4.23	32.78	1	V
2	2	4103.9	7035.4	5	3	2022	18:54	44	4.54	32.75	4.16	32.75	1	V
3	3	4103.9	7032.0	5	3	2022	20:43	45	4.49	32.78	4.34	32.80	1	V
4	4	4108.1	7024.1	5	3	2022	21:53	39	4.38	32.74	4.52	32.85	1	V
5	5	4059.7	7026.4	11	3	2022	15:02	43	4.95	32.79	4.62	32.79	1	V
6	6	4058.9	7029.9	11	3	2022	15:52	46	5.08	32.83	4.60	32.82	1	V
7	7	4100.0	7033.9	11	3	2022	18:57	47	5.25	32.87	4.70	32.85	1	V
8	8	4103.3	7032.1	11	3	2022	19:40	45	5.19	32.75	4.52	32.77	1	V

Deployment codes: V = vertical cast