

Oceans and Climate Branch CTD Data Report
CTD_REPORT_2022001WJ

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

WJ 22-01
North Atlantic Right Whale Survey
Data Coverage: May 19 – June 6, 2022

This report presents a summary of surface and bottom temperature and salinity data collected during the Northeast Fisheries Science Center's WJ2201 North Atlantic Right Whale Survey aboard the chartered vessel M/V *Warren Jr.*

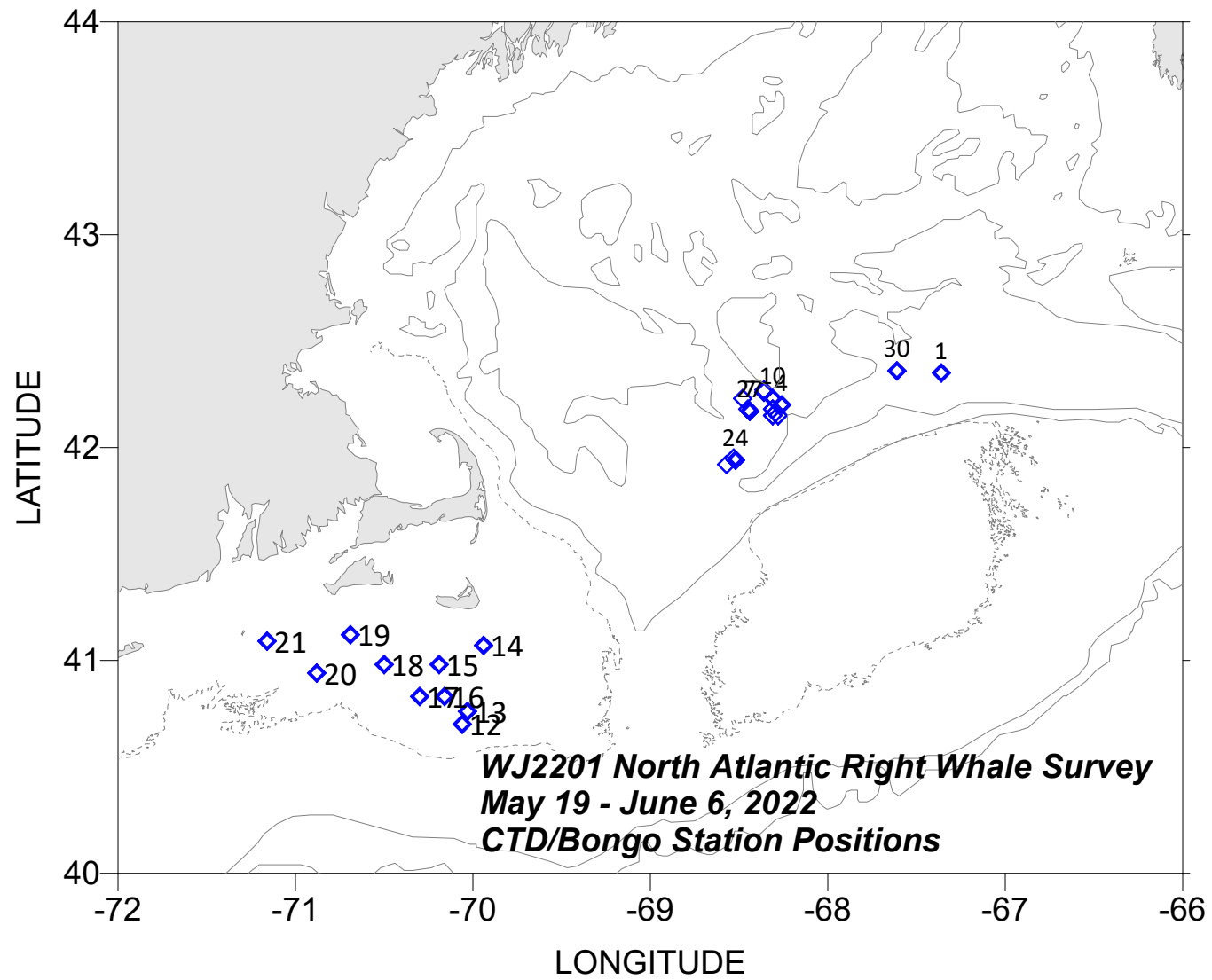
All data was obtained with a Seabird Electronics SBE19+V2 Seacat profiling CTD (s/n 7037).

The SBE19+V2 was deployed on 29 double oblique bongo casts (cast numbering accidentally skipped 011).

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 23, 2022



**Areal average surface and bottom temperature/salinity and temperature/salinity anomalies for the
WJ2201 North Atlantic Right Whale Survey
May 19 - June 6, 2022**

		SURFACE						BOTTOM					
Region	CD	#obs	Temp (°C)	Anomaly	SDV1	SDV2	Flag	#obs	Temp (°C)	Anomaly	SDV1	SDV2	Flag
WGOM	148	17	11.32	1.49	0.94	0.27	1	15	8.13	2.27	0.74	0.49	1
MABN	150	8	12.61	2.40	1.43	0.70	1	7	9.76	1.58	1.42	0.23	1

		SURFACE						BOTTOM					
Region	CD	#obs	Salinity	Anomaly	SDV1	SDV2	Flag	#obs	Salinity	Anomaly	SDV1	SDV2	Flag
WGOM	148	17	32.86	0.18	0.38	0.14	1	15	34.02	0.09	0.30	0.29	1
MABN	150	8	32.28	-0.31	0.51	0.23	1	7	32.54	0.02	0.48	0.13	1

"Region"; WGOM is the Western Gulf of Maine; MABN is the northern Mid-Atlantic Bight;

"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 "Salinity": 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.

**WJ2201 North Atlantic Right Whale Survey
May 19 - June 6, 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	4220.8	6721.3	19	5	2022	14:24	305	7.82	31.84	10.13	35.06	113	B
2	2	4209.1	6818.8	19	5	2022	22:05	240	10.12	33.01	8.35	34.17	49	B
3	3	4209.0	6816.8	20	5	2022	15:08	197	10.11	32.84	8.74	34.42	8	B
4	4	4211.9	6815.3	22	5	2022	13:18	187	9.71	32.84	8.88	34.51	2	B
5	5	4210.6	6818.3	22	5	2022	20:02	191	10.59	33.02	7.81	33.80	3	B
6	6	4210.6	6826.9	24	5	2022	15:11	183	10.37	33.06	7.42	33.63	4	B
7	7	4210.1	6826.3	24	5	2022	20:25	184	10.89	33.07	7.52	33.69	3	B
8	8	4213.5	6828.6	25	5	2022	13:39	179	10.82	33.03	7.47	33.64	6	B
9	9	4215.9	6821.7	26	5	2022	14:08	197	11.26	32.90	8.26	34.06	1	B
10	10	4213.5	6818.6	26	5	2022	16:46	194	11.19	32.92	8.39	34.22	3	B
12	12	4042.1	7003.3	30	5	2022	15:05	42	12.47	32.37	8.99	32.83	2	B
13	13	4045.6	7001.7	30	5	2022	15:55	35	12.83	32.65	9.53	32.62	3	B
14	14	4104.1	6956.4	30	5	2022	19:12	21	11.64	31.85	11.63	31.87	8	B
15	15	4058.9	7011.3	30	5	2022	21:08	22	12.02	32.22	11.32	32.20	6	B
16	16	4049.9	7009.5	31	5	2022	11:16	36	11.28	32.11	10.97	32.23	12	B
17	17	4049.9	7018.0	31	5	2022	12:07	44	12.19	32.41	9.11	32.72	8	B
18	18	4058.9	7029.9	31	5	2022	13:44	43	13.63	32.43	8.99	32.65	9	B
19	19	4107.2	7041.3	31	5	2022	15:13	40	14.15	32.20	9.63	32.51	8	B
20	20	4056.2	7053.0	31	5	2022	16:53	48	14.79	32.23	8.72	32.90	9	B
21	21	4105.4	7109.7	31	5	2022	18:48	30	16.04	32.23	9.43	32.67	9	B
22	22	4156.9	6831.8	2	6	2022	15:28	166	12.19	32.81	7.56	33.67	9	B
23	23	4155.0	6834.4	2	6	2022	21:16	177	12.36	32.57	7.66	33.80	10	B
24	24	4156.4	6831.2	3	6	2022	15:20	166	12.35	32.75	7.70	33.77	4	B
25	25	4209.0	6816.8	3	6	2022	20:53	195	11.82	32.70	8.55	34.21	4	B
26	26	4210.6	6818.5	3	6	2022	21:34	194	11.89	32.86	8.31	34.08	3	B
27	27	4210.4	6826.7	4	6	2022	15:41	168	12.38	32.71	8.46	34.22	1	B
28	28	4216.0	6821.8	4	6	2022	17:15	196	12.29	32.78	8.20	34.06	4	B
29	29	4209.2	6818.9	4	6	2022	19:28	194	12.13	32.71	8.66	34.30	4	B
30	30	4221.7	6736.3	6	6	2022	18:40	268	12.96	32.58	9.55	34.99	66	B

Deployment codes: B=bongo cast