

REPORT OF DREDGINGS OF THE ALBATROSS FOR 1883, BY
LIEUT. SEATON SCHROEDER, U. S. N., NAVIGATOR.

The cruising of the *Albatross* during this first year of service has been included between the parallels of 35° and 45° north latitude and the meridians of 64° and 77° west longitude. The number of days under way, the object of each trip, and the distances performed are given in the following table:

Date.	Object.	Miles.
December 30, 1882, to January 3, 1883.	Wilmington, Del., to Washington, D. C.	339.4
February 10 to February 14.	Washington, D. C., to Wilmington, Del.	391.0
March 21 to March 25.	Dredging	425.4
April 24 to May 9.	Dredging and investigating migrations of mackerel.	1,476.6
May 19 to May 20.	do	1,025.1
June 17 to June 19.	New York to Washington, D. C.	426.1
July 6 to July 14.	Investigating migrations of mackerel and menhaden.	816.2
July 18 to July 21.	Dredging	446.6
July 25.	Newport, R. I., to Wood's Holl, Mass.	40.0
July 26 to August 3.	Dredging	682.3
August 7 to August 10.	Investigating migrations of mackerel and menhaden.	423.3
August 12.	Newport, R. I., to Wood's Holl, Mass.	40.0
August 13.	Wood's Holl, Mass., to New Bedford, Mass.	24.0
August 18.	New Bedford, Mass., to Wood's Holl, Mass.	24.0
August 21 to August 25.	Investigating migrations of mackerel and menhaden.	951.1
August 20 to September 7.	Dredging	850.5
September 11.	Wood's Holl, Mass., to New Bedford, Mass.	24.0
September 13.	New Bedford, Mass., to Wood's Holl, Mass.	24.0
September 20 to September 22.	Dredging	263.5
September 30 to October 5.	do	586.7
October 11.	Wood's Holl, Mass., to Newport, R. I.	40.0
October 17 to October 19.	Investigating migrations of mackerel and menhaden.	286.5
October 22 to October 25.	do	411.7
November 5 to November 14.	Dredging	1,020.3
December 28 to December 29.	Washington, D. C., to Baltimore, Md.	180.0
Total, 121 days.		11,228.2

I.—Dredging and trawling record, U. S. Fish Commission steamer Albatross, Lieutenant-Commander Z. L. Tanner, U. S. N., commanding, season of 1883.

ABBREVIATIONS FOR KINDS OF BOTTOM—C. for clay; g. for gravel; m. for mud; oz. for ooze; p. for pebbles; s. for sand; sh. for shells; sp. for specks; st. for stones; blk. for black; brk. for broken; bu. for blue; crs. for coarse; dk. for dark; fine. for fine; glob. for Globigerina; gn. for green; gy. for gray; wh. for white; yl. for yellow.

Serial number.	Date.	Hour.	Locality.		Temperatures.			Depth.	Kind of bottom.	Wind.		Drift.		Instrument used.
			Latitude north.	Longitude west.	Air.	Surface.	Bottom.			Direction.	Force.	Direction.	Distance.	
	1883.		° ' "	° ' "	°	°	°	Fathoms.				Miles.		
2001	Mar. 22	3.22 p.m.	37 46 30	74 00 00	36	.....	519	Gn. m.	NE.	3	NNW.	1.3	Deep-sea trawl.
2002	Mar. 23	5.50 a.m.	37 20 42	74 17 36	36	48	641	Gn. m.	N.	1	SSW.	1.3	Beam trawl.	
2003	Mar. 23	8.44 a.m.	37 16 30	74 20 36	39	50	641		NE. to E.	1	NW. by W.	2	Do.	
2004	Mar. 23	10.10 a.m.	37 19 45	74 26 06	45	51	102	Gn. m., sh.	ENE.	1	SW.	0.6	Do.	
2005	Mar. 23	11.52 a.m.	37 16 11	74 27 36	43	50	82	Bu. m. and s., brk. sh.	ENE.	3	ENE.	0.5	Do.	
2006	Mar. 23	12.58 p.m.	37 19 11	74 20 06	40	50	512	Bu. m., fine s.	SSW.	4	W. by S.	0.5	Do.	
2007	Apr. 27	8.00 a.m.	35 17 00	75 13 00	65½	56	68	Fne. s.	Var.	0-1	ENE.	2	Do.	
2008	Apr. 27	10.15 a.m.	35 09 40	75 04 36	67	72	92	Bu. m., fine s.	W.	2	N. by E. ½ E.	1	Do.	
2009	Apr. 28	8.45 a.m.	35 29 35	74 46 45	64	69	531		W.	2-3	NE.	2.5	Deep-sea trawl.	
2010	Apr. 28	10.40 a.m.	35 30 00	74 44 45	65	61	690		SW.	3	W. by S.	2	Do.	
2011	Apr. 30	9.00 a.m.	36 58 30	74 40 10	47	48	81	S. and brk. sh.	NNE.	3-4	N. by E.	1.5	Beam trawl.	
2012	Apr. 30	10.15 a.m.	36 41 15	74 39 50	47	52	66½		NNE.	3-4	NNE.	1.5	Rake dredge.	
2013	Apr. 30	1.05 p.m.	36 45 30	74 25 30	50	48	888	Gn. m.	NNE.	3	NW.	2	Beam trawl.	
2014	May 1	6.35 a.m.	36 41 05	74 38 55	51½	47	373	Gn. m., fine s.	ENE.	4	N.	2.5	Do.	
2015	May 5	8.39 a.m.	37 31 00	74 53 30	49	48	19	Fne. s. and sh.	NE.	3	E. by N.	0.5	Do.	
2016	May 5	9.06 a.m.	37 31 00	74 52 36	48½	47	45½	Fne. s. and sh.	NE.	3	E. by N.	1	Do.	
2017	May 5	9.50 a.m.	37 30 48	74 51 24	47½	46½	45½	Fne. s. and sh.	NE.	3			Rake dredge.	
2018	May 7	12.07 p.m.	37 12 22	74 20 04	62	54	39	788	Bu. m.	SW.	2		Deep-sea trawl.	
2019	May 7	4.13 p.m.	37 13 52	74 23 52	56½	52½	39	600	Bu. m.	SSW.	2		Do.	
2020	May 21	5.30 a.m.	37 37 50	74 15 30	56	54	143	Bu. m., fine s.	SE.	3	SW.	1.5	Beam trawl.	
2021	May 21	7.00 a.m.	37 36 00	74 15 00	58	54	45	179	Bu. m., fine s.	SE.	3	W. by S.	2	Do.
2022	May 21	10.00 a.m.	37 32 00	74 13 20	59	52	40	487	Bu. m.	E.	3	SW. by S.	2	Deep-sea trawl.
2023	May 21	3.15 p.m.	37 48 00	74 01 30	62	56	377	Blk. m., fine s.	SE.	3	NE.	2	Beam trawl.	
2024	May 25	5.51 a.m.	40 02 10	70 27 00	52	49	40½	222	Dk. gn. m.	NNW.	2	NW. by N.	2.5	Do.
2025	May 25	7.40 a.m.	40 02 00	70 27 00	57	49	40½	239	Gn. m., fine s.	NNW.	2	NW. by N.	2.5	Do.
2026	May 25	9.00 a.m.	40 04 00	70 28 50	58	49	46	131	Gn. m. and s.	NNW.	2	NW. by N.	1.5	Do.
2027	May 25	12.21 p.m.	39 58 25	70 37 00	56	52	43	198	Bu. m. and s.	SW.	3	WSW.	2.5	Do.
2028	May 25	2.03 p.m.	39 57 50	70 32 00	56	52	41	209	Bu. m.	SW.	3	WSW.	2.5	Do.
2029	May 25	5.13 p.m.	39 42 00	70 47 00	57	55	36½	1,168	Gy. m.	SW.	3-4	WSW.	2	Dredge tangles.
2030	May 26	6.20 a.m.	39 29 45	71 43 00	56	49	50	588	Bu. m.	SW.	2	SW. ¼ W.	2	Beam trawl.
2031	May 26	1.05 p.m.	39 29 00	72 19 55	55	50	49½	74	Gy. m., blk. and wh. s.	SSW.	3-4	SE.	1.5	Do.
2032	May 26	2.10 p.m.	39 20 00	72 19 40	55	50	47½	74	Gn. m., fine s., blk. sp.	SSW.	3-4	S.	1	Do.
2033	May 26	5.00 p.m.	39 32 30	72 18 35	62	49½	41	379	Gn. m.	SSW.	3-4	ENE.	1	Do.
2034	July 17	8.55 a.m.	39 27 10	69 56 20	69	72	38	1,346	Glob. oz.	Var.	0-1	WSW.	2.5	Do.
2035	July 17	2.50 p.m.	39 26 16	70 02 37	73	71	1,362	Glob. oz.	SE.	2	SE.	2.3	Do.	

2036	July 18	4.30 a.m.	38 52 40	69 24 40	76	38	1,735	Glob. oz.	SE	3	S	3.8	Do.
2037	July 18	1.22 p.m.	38 53 00	69 23 30	79	38	1,731	Glob. oz.	NE	2	E	3.7	Do.
2038	July 26	2.32 p.m.	38 30 30	69 08 25	77	76 1/2	2,033	Glob. oz.	NE	4	NE	7.5	Deep-sea trawl.
2039	July 28	Noon	38 19 26	68 20 20	77	81	2,369	Glob. oz.	S	1	SE	11	Do.
2040	July 29	4.20 a.m.	38 35 13	68 16 00	76	76	2,226	Glob. oz.	SSW	6	S. br E.	10	Do.
2041	July 30	3.15 a.m.	38 25 50	68 25 00	71	72	3,608	Glob. oz.	NW	3	NW	10	Do.
2042	July 30	10.32 a.m.	39 33 00	68 26 45	74	71	1,555	Glob. oz.	NW	4	NW	12	Do.
2043	July 30	5.07 p.m.	39 49 00	68 28 30	71	72	38 1/2	Glob. oz.	W	3	SW	9	Do.
2044	July 31	5.25 a.m.	40 00 30	68 37 20	71	72	39	Oz	W	2	NW	7	Do.
2045	July 31	10.00 a.m.	40 64 20	68 43 50	75	72	40	Bu. m., fue. sh	W	2	WNW	2.5	Beam trawl.
2046	July 31	Noon	40 02 49	68 49 00	74	72	40	Bu. m.	W	3	WNW	2.5	Deep-sea trawl.
2047	July 31	2.15 p.m.	40 02 30	68 49 40	74	72	52	Bu. m.	W	3	WNW	2	Do.
2048	July 31	3.56 p.m.	40 02 00	68 50 30	73	72	29 1/2	Crs. s., w., and g	W	4	ESE	3	Do.
2049	Aug. 1	3.35 a.m.	39 43 40	69 20 00	71	71	30	Bu. m.	W	3	W	3	Do.
2050	Aug. 1	9.15 a.m.	39 42 50	69 21 20	72	72	44 1/2	Glob. oz.	SW	3	SW. by S.	3.5	Beam trawl.
2051	Aug. 1	2.34 p.m.	39 41 00	69 20 20	74	72	39	Bu. m. and glob. oz	SW	2	SW	4	Do.
2052	Aug. 1	6.10 p.m.	39 40 05	69 21 25	74	73	45	Glob. oz.	SW. by W.	2	SW	3	Do.
2053	Aug. 29	5.00 a.m.	42 02 00	68 27 00	60	61	105	Bu. m.	ESE	5	NE. by N.	1	Do.
2054	Aug. 29	6.20 a.m.	42 63 30	68 26 00	59	61	105	Bu. m.	E	6	NE. by N.	1.4	Dredge.
2055	Aug. 30	9.24 a.m.	42 32 00	68 17 00	60	60	99.5	Bu. m., s., and crs. g	E	3	S	1.5	Do.
2056	Aug. 30	3.23 p.m.	42 01 30	68 01 00	58	57	97	Bu. m., fue. s., and crs. g	E	3	S	1	Do.
2057	Aug. 30	4.26 p.m.	42 01 00	68 00 00	58	58	50	Crs. s., blk. sp., brk. sh	NE	2	S	2	Beam trawl.
2058	Aug. 30	6.39 p.m.	41 57 30	67 58 00	58	58	35	Gy. s.	NNE	2	SW	1	Do.
2059	Aug. 31	5.00 a.m.	42 05 00	66 46 15	56	55	41	Bu. m. and s.	ENE	3	SSW	2	Do.
2060	Aug. 31	7.10 a.m.	42 10 00	66 46 15	56	55	123	Gy. s., blk. sp., brk. sh	NNE	4	W	1.5	Do.
2061	Aug. 31	8.00 a.m.	42 10 00	66 47 45	58	54	40	Gy. s., blk. sp., bu. m.	NE	3	NW. by W.	1.5	Do.
2062	Aug. 31	10.47 a.m.	42 17 00	66 37 15	64	61	42	S. and g	NE	3	NE. by N.	1.5	Do.
2063	Aug. 31	1.26 p.m.	42 23 00	66 23 00	60	57 1/2	46	S. and crs. g.	ENE	3	SE	1	Do.
2064	Aug. 31	4.32 p.m.	42 25 40	66 08 25	58	56	122	Crs. s. and g.	N	2	SE	1	Do.
2065	Aug. 31	7.00 p.m.	42 27 00	66 00 45	60	55	44 1/2	S., g., and brk. sh	N	2	SE. by E.	1	Rake dredge.
2066	Sept. 1	5.00 a.m.	42 19 40	65 49 30	54	54	43 1/2	S., st., and g	NE	3-4	ENE	1.5	Do.
2067	Sept. 1	7.05 a.m.	42 15 25	65 48 40	56	56	46	S. and g.	NE	4	NE	2	Beam trawl.
2068	Sept. 1	10.03 a.m.	42 03 00	65 48 40	60	56	42	S., fue. g., and c	ESE	4	ENE	2	Do.
2069	Sept. 1	1.34 p.m.	41 54 50	65 48 35	61	56 1/2	42	S., st., g., p., and c.	NE	5	E. by N.	1.5	Grapnel dredge.
2070	Sept. 1	2.58 p.m.	41 55 30	65 47 10	61	57	42 1/2	P. and c.	E	5	N	1	Bar and tangles.
2071	Sept. 1	4.10 p.m.	41 56 20	65 48 40	70	56	39	Gy. m.	ENE	5	N	1	Grapnel dredge.
2072	Sept. 2	6.15 a.m.	41 53 00	65 35 00	70	56	39	Gy. m.	S	3	SE	5	Beam trawl.
2073	Sept. 2	10.41 a.m.	41 54 15	65 39 00	67	56	40	Gv. s.	SW	3	NNE	2	Do.
2074	Sept. 3	6.42 a.m.	41 43 00	65 21 50	71	69	40	M. and st	WSW	5	SSE	4	Do.
2075	Sept. 3	3.41 p.m.	41 40 30	65 35 06	58	58	30	Glob. oz.	NW	6	WSW	2	Do.
2076	Sept. 4	3.20 a.m.	41 13 00	66 00 50	59	69	39	Bu. m.	NE	6	SW	3	Do.
2077	Sept. 4	8.00 a.m.	41 09 40	66 02 20	57	68	39	Bu. m.	NW	2	NW	5	Do.
2078	Sept. 4	1.40 p.m.	41 11 30	66 12 20	60	66	40	Gv. m. and s.	NW	2	W	2	Do.
2079	Sept. 4	4.15 p.m.	41 13 00	66 19 50	60	67 1/2	45	Wh. s.	NW	2	W	1.5	Do.
2080	Sept. 4	5.10 p.m.	41 13 00	66 21 50	60	67 1/2	46	Gy. s.	WSW	2	WSW	1.5	Do.
2081	Sept. 4	6.50 p.m.	41 10 20	66 30 20	63	56	46	Wh. s., blk. sp.	SW	1	NW. by W.	1	Do.
2082	Sept. 4	7.41 p.m.	41 09 50	66 31 50	58	55	46 1/2	Crs. y. s.	SW	1	SW. by W.	1	Do.
2083	Sept. 5	4.30 a.m.	40 26 40	67 05 15	73	72	40	Gy. m.	SW	2	SSW	2.5	Do.
2084	Sept. 5	9.09 a.m.	40 15 50	67 05 15	73	78 1/2	40	Bu. m. and s	SW	3	SSW	4.0	Do.
2085	Sept. 20	6.56 a.m.	40 05 00	70 34 45	67	68	50	Bu. m.	E	3	N. by E.	1.5	Do.
2086	Sept. 20	9.20 a.m.	40 05 05	70 35 00	70	67	52 1/2	Bu. m., gr. s.	E	3	NE. E.	1.5	Do.
2087	Sept. 20	10.30 a.m.	40 06 50	70 34 15	71	67	50	Gn. m., wh. s.	E	3	NNE	2	Do.

I.—Dredging and trawling record, U. S. Fish Commission steamer Albatross, etc.—Continued.

Serial number.	Date.	Hour.	Locality.		Temperatures.			Depth.	Kind of bottom.	Wind.		Drift.		Instrument used.
			Latitude north.	Longitude west.	Air.	Surface.	Bottom.			Direction.	Force.	Direction.	Distance.	
	1883.		o / "	o / "	c	o	o	Fathoms.				Miles		
2088	Sept. 20	12.40 p.m.	30 59 15	70 38 30	68	68	48	143	Yl. s.	NE. by E.	3	S. by W.	1.5	Beam trawl.
2089	Sept. 20	3.13 p.m.	30 58 50	70 39 40	76	69	45	168	Gy. s.	E.	3	N.	1.5	Do.
2090	Sept. 20	4.40 p.m.	30 59 40	70 41 10	71	68	46½	140	Gy. s., brk. sh.	E. NE.	3	NE.	1.5	Do.
2091	Sept. 21	5.30 a.m.	40 01 50	70 59 00	68	69	49	117	Gn. m.	E.	3	N.	2.5	Do.
2092	Sept. 21	7.50 a.m.	39 58 35	71 00 30	74	67½	45	197	Gn. m.	E.	3	NE.	2.5	Do.
2093	Sept. 21	1.12 p.m.	39 42 50	71 01 20	75	69	39	1,000	Foraminifera, s., m.	E.	3	N. by W.	5	Do.
2094	Sept. 21	5.07 p.m.	39 44 30	71 04 00	70	68	38½	1,022	Foraminifera, s., m.	NE.	5	NNE.	5	Do.
2095	Sept. 30	9.02 a.m.	39 29 00	70 58 40	71½	69½	.....	1,342	Glob. oz.	SSW.	3	S.	2	Do.
2096	Sept. 30	2.07 p.m.	39 22 20	70 52 20	70	69	37½	1,451	Glob. oz.	SSW.	2	SW.	1.5	Do.
2097	Oct. 1	5.30 a.m.	37 56 20	70 57 30	73	72½	.....	1,917	Glob. oz.	SW.	3	S. by W.	1.5	Do.
2098	Oct. 1	1.08 p.m.	37 40 30	70 37 30	73	72½	.....	2,221	Glob. oz.	NW.	4	W. by S.	2	Do.
2099	Oct. 2	5.30 a.m.	37 12 20	69 39 00	71	82	.....	2,919	Glob. oz.	SE.	6	SSW.	2	Do.
2100	Oct. 3	11.05 a.m.	39 22 60	68 34 30	69	69	37½	1,628	Glob. oz.	WNW.	3	E.	2	Do.
2101	Oct. 3	4.31 p.m.	39 18 30	68 24 00	61	67	37	1,686	Glob. oz.	WSW.	3	S.	2	Do.
2102	Nov. 5	6.53 a.m.	38 44 00	72 38 00	64	62½	39	1,209	Glob. oz.	Var.	0-1	SSW.	1.7	Do.
2103	Nov. 5	11.14 a.m.	38 47 20	72 37 00	67	62	39	1,091	Glob. oz.	SSW.	1	SSE.	1.5	Do.
2104	Nov. 5	3.41 p.m.	38 48 00	72 40 30	67	63	41½	991	Bu. m.	SSE.	2	S.	0.5	Do.
2105	Nov. 6	6.06 a.m.	37 50 00	73 03 50	69	63	41	1,395	Glob. oz.	SW.	3	S. by W.	3	Do.
2106	Nov. 6	Meridian.	37 41 20	73 03 20	60	63	42½	1,497	Glob. oz.	SSW.	3	S. by W.	3	Do.
2107	Nov. 9	8.23 a.m.	35 19 30	75 15 20	71	76	.....	16½	Fne. dk. gy. s., small sh.	W.	3	S.	0.5	Do.
2108	Nov. 9	11.00 a.m.	35 16 00	75 02 30	70	78½	66	48	Bu. m., crs. s.	SSW.	4	S. by W.	0.5	Do.
2109	Nov. 9	1.03 p.m.	35 14 20	74 59 10	74	76	50½	142	Bu. m.	SSW.	4	S.	1	Do.
2110	Nov. 9	2.50 p.m.	35 12 10	74 57 15	76	75½	40	516	Bu. m.	SSW.	4	S. by W.	0.8	Do.
2111	Nov. 9	5.85 p.m.	35 09 50	74 57 40	75	76	.....	938	Gn. m.	SW.	4	S.	1.5	Do.
2112	Nov. 10	9.15 a.m.	35 20 50	75 18 00	70	70	73½	15½	S., blk. sp.	SW.	4	SW.	0.8	Do.
2113	Nov. 10	10.04 a.m.	35 20 30	75 19 00	72	70	72½	15	M., blk. s.	SW.	4	SW.	1	Do.
2114	Nov. 10	11.15 a.m.	35 20 00	75 20 00	73	70	72	14	M., blk. s.	SW.	4	SW. by S.	0.8	Do.
2115	Nov. 11	7.54 a.m.	35 49 30	74 34 45	77	78	39	843	M., fne. s.	SW.	4	S. by W.	1.5	Do.
2116	Nov. 11	Meridian.	35 45 23	74 31 25	76	77	39	869	Bu. m., fne. s.	WSW.	4	S.	1.5	Do.

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During the year 1884 the geographical limits of the cruising of the *Albatross* were the parallels of 8° 30' and 43° north latitude and the meridians of 61° 30' and 85° 30' west longitude. The number of days at sea and the distances run, together with the object of each trip, are given in the following table:

Date.	Object.	Distance.
		<i>Miles.</i>
January 6 to 7	Baltimore to Norfolk	169
January 10 to 17	Sounding trip	1,417.5
January 24 to 30	Sounding and dredging trip	660.2
February 2	Swinging ship	20
February 3 to 11	Sounding and dredging trip	1,209.4
February 18 to 26	do	1,100.8
February 27 to March 1	do	333.8
March 12 to 16	do	605.1
March 22 to 26	do	429.4
April 2 to 5	do	253
April 9 to 15	do	813.1
April 29	Key West to Havana, Cuba	100
April 30 to May 7	Sounding and dredging trip	603.8
May 11 to 17	Sounding trip	1,279.5
July 13 to 14	Washington to Norfolk	174
July 20 to 26	Investigating migrations of menhaden and mackerel	651.7
July 31 to August 8	Dredging trip	486.4
August 19 to 23	do	429.2
August 27	Wood's Holl to Newport	42
August 28 to 31	Flagship of Honorable Secretary of the Navy	47
September 1	Newport to Wood's Holl	42
September 6 to 15	Dredging trip	943
September 25 to 29	do	424.1
October 3 to 9	Wood's Holl to New York	189
October 17 to 23	Dredging trip	797
December 25 to 26	Washington to Norfolk	174
Total, 134 days		13,388

The number of soundings taken during the year was 701, almost all of which were located with sufficient accuracy to be of hydrographic value; of these, 194 were also dredging stations.

During the winter and spring the vessel was employed in hydrographic work for the Navy Department; searching for reported dangers in the West Indies and between there and the Chesapeake; running lines of soundings across the Caribbean Sea and among some of the islands; taking serial temperatures and noting surface currents; making an examination of a part of Savanilla Bay, United States of Colombia, and establishing the longitude of Cape San Antonio light-house, Cuba.

Following is a list of reported dangers over or near which the depths were found in the positions given :

List of reported dangers.

Name.	Latitude north.	Longitude west.	Depth.
Orion Shoal	0 1 "	0 1 "	<i>Fathoms.</i>
Ashton Shoal	34 48 45	72 25 00	2, 462
Persæveranza Shoal	33 50 20	71 42 00	2, 533
Mourand Shoal	31 15 42	67 39 10	2, 787
Lighthouse Rock	24 35 14	65 13 07	3, 006
Loos Shoal	17 39 30	73 22 15	2, 490
Breakers	17 48 00	73 34 15	2, 369
Vigia	12 54 40	66 11 10	2, 708
Georgia Shoal	12 10 30	66 11 00	2, 707
Tribune Shoal	Many soundings.		(Least) 17
Powhatan Shoal	12 11 30	74 27 30	2, 057
Doubtful	11 11 00	75 50 30	1, 195
Sancho Pardo Shoal	14 53 40	80 20 00	1, 151
Albatross Shoal	Off Cape San Antonio.		Many.
Vigia	22 49 20	84 15 00	950
Huntley Shoal	23 06 00	83 03 45	625
	30 46 00	78 35 00	470

The soundings were such as to prove the non-existence of all except the Georgia Bank off the east end of Jamaica, which had been recently searched for by several vessels. It was originally discovered by Capt. John S. Holt, of the American brig *Georgia*, in 1867, who reported 14 fathoms in about latitude 17° 46' N., longitude 75° 45' W. An extensive and careful search was made for this, resulting in the discovery of a bank with a least depth of 17 fathoms a little to the southward of the reported position, in latitude 17° 36' to 17° 44' N., longitude 75° 40' to 75° 45' W. The Navy Department has given it the name of Albatross Bank. This must not be confounded with the Albatross Shoal off the northwestern shore of Cuba, which was reported by the German gunboat of that name and not subsequently found.

One hundred soundings were taken off Cape San Antonio, extending to just beyond the range of the light, with deep water everywhere (up to 1,200 fathoms), and Sancho Pardo Shoal has, in consequence, been expunged from the charts of the Hydrographic Office, Navy Department.

Six lines of soundings were run across the Caribbean Sea, four between the Leeward Islands and the Main, and diagonal lines on and off the coast of the United States of Colombia. The eastern part of the Caribbean Sea is the deepest, the greatest depth being 2,844 fathoms, in latitude 13° 25' N., longitude 66° 25' W. Off the Honduras coast, however, still deeper water was found, there being 3,169 fathoms at 60 miles southwest of the Grand Cayman.

An interesting discovery was that of a submarine ridge connecting the islands of Santa Cruz and Puerto Rico, the least depth on which was 578 fathoms and the greatest 900, while on either side was found over 2,000 fathoms.

Aves Islet, 100 miles westward of Guadaloupe, was found to be the summit of a mountain, precipitous on its western slope and extending in a south-southeast direction over 150 miles to the 1,000-fathom curve.

During the summer and autumn of 1884 hydrographic work was merely incidental, as continuous dredging and trawling generally interfered with the correct locating of the stations. Still, a number of the soundings taken were considered plotted with sufficient accuracy to be of hydrographic value. This work was off the United States coast between Cape Hatteras and George's Banks.

Nothing of special interest was definitely ascertained. But in the course of the season it became very evident that in the vicinity of the 40th parallel and the 70th and 71st meridians there is an easterly and a westerly movement of the water, alternating at intervals of apparently about half a day. Circumstances prevented a close examination into this matter, but, as the approximate time of the change of the current was noticed on several occasions to be later each day, it is believed that the phenomenon may be attributed to the influence of the moon, and that probably there may be tidal currents, less pronounced, but as regular there as along shore.

Indications were also found of a pocket running in northward from the 600-fathom line on about the meridian of $70^{\circ} 15'$, differing from the contour lines on existing charts. But, owing to cloudy weather and the impossibility of keeping a good reckoning while trawling, the positions found were not considered sufficiently reliable to warrant making a report to the Hydrographic Office.

Dredging and Trawling Record of the United States Fish Commission steamer Albatross, Season of 1894.

ABBREVIATIONS USED IN THIS TABLE: m., mud; s., sand; g., gravel; co., coral; sh., shells; p., pebbles; sp., specks; c., clay; st., stones; r., rock; bk., black; wh., white; yl., yellow; gy., gray; bu., blue; dk., dark; lt., light; gn., green; br., brown; hrd., hard; sft., soft; fne., fine; cra., coarse; brk., broken; lrg., large; sm., small; rky., rocky; stk., sticky; oz., ooze; for., foraminifera; glob., globigerina; L. B. T., large beam-trawl; S. B. T., small beam-trawl; Tgl. bar, tangle-bar; Bl. Dr., Blake dredge; Sh. Dr., Ship's dredge. Bl. Dr. = D. S. (deep-sea dredge), and Sh. Dr. = M. B. (mud-bag).

Serial No.	Date.	Time.	Positions.		Temperatures.			Depth in fathoms.	Character of bottom.	Wind.		Drift.		Instrument used.
			Latitude N.	Longitude W.	Air.	Surface.	Bottom.			Direction.	Force.	Direction.	Distance.	
	1894.		0 11	0 11										
2117	Jan. 27	1.58 p.m.	15 24 40	63 31 30	84	78	33.75	683	yl. m. fne. s.	ENE.	2	NW. by W.	Miles. 2.5	L. B. T.
2118	Jan. 28	8.15 a.m.	13 32 40	62 54 00	76	77	.....	690	gy. m. bk. s.	SE.	2	ENE.	1.7	Do.
2119	Jan. 29	1.07 p.m.	11 48 30	62 17 30	75	77	33.25	1,140	gy. m.	NE.	3	SW.	2.5	Do.
2120	Jan. 30	6.30 a.m.	11 07 00	62 14 30	70	76	.....	73	bu. m.	E.	2	N.	0.2	Dr. Tpl.
2121	Feb. 3	6.37 a.m.	10 37 40	61 42 40	76	77	67	31	dk. slate-col. m.	NW. by W.	2	.....	.....	L. B. T.
2122	Feb. 3	7.18 a.m.	10 37 00	61 44 22	77	77	73	34	dk. slate-col. m.	NW. by W.	2	.....	.....	Do.
2123	Feb. 3	8.45 a.m.	10 42 02	61 48 48	78	78	64.5	117	bu. m.	NE. by N.	2	.....	.....	Do.
2124	Feb. 18	2.03 p.m.	11 34 30	60 02 10	77	74	59.5	122	fne. sh. gn. m.	E. by S.	2	NW. by N.	.....	Sh. Dr.
2125	Feb. 18	4.31 p.m.	11 43 00	60 09 30	75	74	50.7	208	yl. m. s. bk. sp.	E. by N.	2	W. by S.	.....	S. B. T.
2126	Feb. 19	10.11 a.m.	13 17 45	70 01 00	78	77	39.3	1,701	yl. m. crs. s. for.	ENE.	3-4	NNE.	.....	Do.
2127	Feb. 25	3.14 p.m.	19 45 00	75 04 00	78	77	.....	1,630	gn. m.	WSW.	3	W. S.	.....	L. B. T.
2128	Feb. 27	10.58 a.m.	19 55 46	75 49 23	78	78	49.5	400	bu. m. fne. s.	SE.	1	E. to ENE.	.....	Tgl. bar.
2129	Feb. 27	12.25 p.m.	19 56 04	75 48 55	77	78	.....	274	bu. m. fne. s.	SE.	2	E. to ENE.	.....	Do.
2130	Feb. 27	1.04 p.m.	19 56 25	75 49 49	77	79	.....	175	gy. m. s. brk. sh.	SE.	2	E. to ENE.	.....	Do.
2131	Feb. 27	2.00 p.m.	19 56 44	75 50 49	78	79	.....	202	hrd. crs. s.	SE.	3	E. to ENE.	.....	Do.
2132	Feb. 27	3.33 p.m.	19 55 38	75 49 16	78	79	.....	478	yl. m. brk. sh.	SE.	3	E. to ENE.	.....	Do.
2133	Feb. 27	4.30 p.m.	19 55 55	75 48 03	79	79	.....	290	wh. s. brk. sh.	SE.	3	E. to ENE.	.....	Do.
2134	Feb. 27	5.37 p.m.	19 56 06	75 47 32	77	78	.....	254	.....	SE.	3	ESE.	.....	Do.
2135	Feb. 27	6.31 p.m.	19 55 58	75 47 07	77	77	.....	250	hrd. co.	SE.	3	ESE. to SSE.	.....	Do.
2136	Feb. 29	2.04 p.m.	17 43 40	75 38 25	81	78	.....	62	co. brk. sh.	SE.	3	{ NW. by W. } { W. S. W. }	.....	Do.
2137	Feb. 29	2.29 p.m.	17 41 50	75 39 20	81	78	.....	47	co. brk. sh.	SE.	3	{ NW. by W. } { W. S. W. }	.....	Do.
2138	Feb. 29	5.36 p.m.	17 44 05	75 39 00	78	78	.....	23	co. brk. sh.	SE.	3	S. E.	.....	Do.
2139	Mar. 11	2.56 p.m.	17 52 00	76 45 30	80	79	62.3	215	bk. m.	ESE.	4	.....	.....	Do.
2140	Mar. 11	7.18 p.m.	17 36 10	76 46 05	80	78	39.7	966	s.	E.	3	NNE. E.	.....	S. B. T.
2141	Mar. 12	11.29 a.m.	17 25 00	75 59 55	78	77	.....	5	co. s.	E.	5	S. by E. E.	.....	Tgl. bar.
2142	Mar. 21	4.05 p.m.	9 30 15	76 20 30	81	81	.....	42	gn. m. s.	NW. W.	2	W. S.	.....	S. B. T.
2143	Mar. 23	5.01 p.m.	9 30 45	76 25 39	80	80	.....	155	gn. m.	NW.	2	W. S.	.....	Do.
2144	Mar. 25	6.46 a.m.	9 49 00	79 31 30	78	79	.....	896	gn. m.	N.	1	SSW.	.....	L. B. T.
2145	Apr. 2	10.41 a.m.	9 27 00	79 54 00	80	79	.....	25	gn. m. brk. sh.	NNE.	4	.....	.....	Sh. Dr.
2146	Apr. 2	12.03 p.m.	9 32 00	79 54 30	80	79	.....	34	brk. sh.	NNE.	4	.....	.....	L. B. T.
2147	Apr. 2	12.43 p.m.	9 32 20	79 54 45	80	79	78.5	34	co.	NNE.	4	.....	.....	Tgl. bar.

2149	Apr 2	1.39 p.m.	9 85 00	79 55 30	81 79	78 25	130	hrd	NNE	4	Do.
2149	Apr 4	9.31 a.m.	13 01 30	81 25 00	80 78	39.7	992	yl.m.	NE. by N.	3	Do.
2150	Apr 9	9.15 a.m.	13 04 45	81 21 10	82 78	45.75	362	wh. crs. s	NNE	3	Dr. & Tgt. bar.
2151	Apr 10	11.03 a.m.	15 28 39	80 36 00	79 78	40.2	653	yl. for. oz	NE to ENE.	3	L. B. T.
2152	Apr 36	6.05 a.m.	23 m. NW. of Havana Light.	82 23 10	71 77	49	367	co.	ESE.	1	Tgt. bar.
2153	Apr 30	7.21 a.m.	23 10 19	82 23 10	74 77	55.8	283	co.	ESE.	2	Do.
2154	Apr 30	8.08 a.m.	23 10 18	82 22 54	76 77	59.6	310	co.	ESE.	2	Do.
2155	Apr 30	9.09 a.m.	23 10 21	82 22 41	76 77		300	co.	ESE.	3	Do.
2156	Apr 30	10.42 a.m.	23 10 35	82 21 55	78 77	69.8	278	co.	E by N.	4	Do.
2157	Apr 30	11.40 a.m.	23 10 04	82 21 07	78 77		29		ENE.	3	Do.
2158	Apr 30	12.07 p.m.	23 10 25	82 20 36	78 77		86		ENE.	3	Do.
2159	Apr 30	1.05 p.m.	23 10 39	82 20 04	80 77		98	co.	ENE.	3	Do.
2160	Apr 30	2.04 p.m.	23 10 31	82 20 37	79 77		167	co.	ENE.	4	Do.
2161	Apr 30	2.48 p.m.	23 10 36	82 20 28	78 78		146	co.	ENE.	4	Do.
2162	Apr 30	3.36 p.m.	23 10 30	82 20 25	79 78		122	co.	ENE.	4	Do.
2163	Apr 30	4.24 p.m.	23 10 31	82 20 29	79 78		133	co.	ENE.	4	Do.
2164	May 1	6.21 a.m.	23 10 39	82 20 29	71 77		192	co.	ESE.	2	Do.
2165	May 1	7.19 a.m.	23 10 39	82 20 28	71 77		200	co.	ESE.	2	Do.
2166	May 1	8.27 a.m.	23 10 36	82 20 30	74 77	71.9	106	co.	ESE.	2	Do.
2167	May 1	9.33 a.m.	23 10 40	82 20 30	80 78		201	co.	ESE.	3	Do.
2168	May 1	10.24 a.m.	23 10 36	82 20 20	80 78		122	co.	ESE.	3	Do.
2169	May 1	10.46 a.m.	23 10 28	82 20 27	79 78		78	co.	ESE.	3	Do.
2170	July 20	11.40 a.m.	37 57 00	73 53 30	72 71		155	gy. s.	NE.	2	Do.
2171	July 20	1.25 p.m.	37 59 20	73 48 40	75 75	33.5	444	gn. m.	NXW.	2	Do.
2172	July 20	3.45 p.m.	38 01 15	73 44 00	76 76	39	568	gn. m.	NW.	1	Do.
2173	July 20	6.26 a.m.	37 57 00	72 34 00	70 70	37	1,600	glob. oz.	NXW.	1	Do.
2174	July 21	2.59 p.m.	38 15 00	72 03 00	73 76		1,594	gy. m.	W.	4	Do.
2175	July 22	9.03 a.m.	39 33 00	72 18 30	69 68	40.5	452	gn. m.	WSW.	4	Do.
2176	July 22	12.34 p.m.	39 32 30	72 21 30	71 68	41	302	gn. m.	WSW.	3	S. B. T.
2177	July 22	3.40 p.m.	39 33 40	72 08 45	71 68	52	67	gn. m. s.	W. by N.	3	L. B. T.
2178	July 22	5.16 p.m.	39 29 00	72 05 15	70 68	42.3	229	gn. m. s.	WSW.	4	Do.
2179	July 23	4.02 a.m.	39 30 10	71 50 00	68 67	39.5	510	bk. m.	WSW.	4	Do.
2180	July 23	6.48 a.m.	39 29 50	71 46 00	75 68	39	823	gy. m. fne. s.	WSW.	3	Do.
2181	July 23	9.42 a.m.	39 29 00	71 44 00	70 68	39	861	gn. m.	SW.	5	Do.
2182	July 23	12.58 p.m.	39 25 30	70 56 30	69 68	44.5	195	gn. m. s.	SE.	1	Do.
2183	Aug 2	11.52 a.m.	39 57 45	70 55 30	71 70	48.9	136	gn. m. s.	SE.	1	Do.
2184	Aug 2	1.08 p.m.	40 00 15	70 51 15	74 69	51	129	gn. m. s.	SE.	1	Do.
2185	Aug 2	2.12 p.m.	40 00 45	70 55 30	70 69	39.7	353	gn. m. s.	SW.	1	Do.
2186	Aug 2	6.12 p.m.	39 52 15	71 10 00	70 68	39.7	420	gn. m. s.	ESE.	2	Do.
2187	Aug 3	10.44 a.m.	39 49 30	71 10 00	73 70	42.7	235	gn. m. s.	ESE.	3	Do.
2188	Aug 3	1.54 p.m.	39 54 30	71 08 00	73 70	42.7	600	gn. m. s.	WSW.	3	Do.
2189	Aug 4	4.16 a.m.	39 49 30	70 26 00	71 71	39.7					Do.
2190	Aug 4	10.42 a.m.	39 40 00	70 20 15	74 73		1,180	glob. oz.	SSW.	4	Do.
2191	Aug 4	2.46 p.m.	39 45 30	70 17 00	74 73		961	gn. m.	SW.	5	Do.
2192	Aug 5	5.45 a.m.	39 46 30	70 14 45	76 72	38.6	1,060	gy. oz.	SSW.	4	Do.
2193	Aug 5	11.04 a.m.	39 44 30	70 10 30	79 73	38.4	1,122	gn. m.	SSW.	5	Do.
2194	Aug 5	2.54 p.m.	39 43 45	70 07 00	77 74	38.4	1,140	oz.	SSW.	4	Do.
2195	Aug 5	6.42 p.m.	39 44 00	70 03 00	83 74	38.4	1,058	gn. m.	SSW.	4	Do.
2196	Aug 6	4.45 a.m.	39 35 00	69 44 00	74 74	38	1,230	gn. m.	SSW.	3	Do.
2197	Aug 6	11.24 a.m.	39 56 30	69 43 20	77 74	38	84	s. brk. sh.	S.	2	Do.
2198	Aug 6	1.17 p.m.	39 56 30	69 43 20	78 74	32.3	84	a. brk. sh.	SSW.	2	Do.
2199	Aug 6	2.03 p.m.	39 57 30	69 41 10	77 74		78	gy. s.	SSW.	2	Do.

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LIST OF DREDGING STATIONS.

Dredging and Trawling Record of the United States Fish Commission steamer Albatross, Season of 1884—Continued.

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REPORT OF COMMISSIONER OF FISH AND FISHERIES. [70]

Serial No.	Date.	Time.	Position.		Temperatures.			Depth in fathoms.	Character of bottom.	Wind.		Drift.		Instrument used.
			Latitude N.	Longitude W.	Air.	Surface.	Bottom.			Direction.	Force.	Direction.	Distance.	
	1884.		o "	o "								Miles.		
2209.....	Aug. 6	4.38 p.m.	39 53 30	09 43 20	77 74	45	148	crs. s. bk. sp.....	SSW.	2	SE. by E.	2	L. B. T.	
2201.....	Aug. 19	6.10 a.m.	39 39 45	71 35 15	69 60	30.5	538	br. m.....	NNE.	5	W.	2	Do.	
2202.....	Aug. 19	9.23 a.m.	39 38 00	71 39 45	70 67	39.1	515	gn. m.....	N.	6	WSW.	1.75	Do.	
2203.....	Aug. 19	12.29 p.m.	39 34 15	71 41 15	74 74	38.0	705	gn. m. s.....	NNW.	6	WSW.	2.5	Do.	
2204.....	Aug. 19	4.32 p.m.	39 30 30	71 44 30	71 74	39.1	728	br. m.....	W.	4	WSW.	2.5	Do.	
2205.....	Aug. 20	4.37 a.m.	39 35 00	71 18 45	68 73	38.1	1,073	gy. oz.....	NW.	4	W. by S.	1.25	Do.	
2206.....	Aug. 20	9.16 a.m.	39 35 00	71 24 30	71 74	38.4	1,043	gn. m.....	NW.	2	NNE.	1.25	Do.	
2207.....	Aug. 20	1.01 p.m.	39 35 33	71 31 45	77 74	38.6	1,061	gn. m.....	W.	1	NNE.	1.25	Do.	
2208.....	Aug. 21	5.02 a.m.	39 33 00	71 16 15	75 74	38.4	1,178	gn. m.....	W by N.	3	WSW.	1	Do.	
2209.....	Aug. 21	9.42 a.m.	39 34 45	71 31 30	76 74	39.5	1,000	gn. m. s.....	WNW.	2	E.	1.25	Do.	
2210.....	Aug. 21	1.18 p.m.	39 37 45	71 18 45	75 74	38.1	991	glob. oz.....	SW.	5	S. by W.	1.5	Do.	
2211.....	Aug. 21	4.45 p.m.	39 35 00	71 18 00	74 74	38.3	1,064	gy. oz.....	SW by S.	3	S. by W.	2	Do.	
2212.....	Aug. 22	4.48 a.m.	39 59 30	70 30 45	72 71	40	428	gn. m.....	SSW.	2	E.	.5	Do.	
2213.....	Aug. 22	8.04 a.m.	39 58 30	70 30 00	73 71	39.5	384	gn. m.....	SSW.	2	S. by W.	1.5	Do.	
2214.....	Aug. 22	11.30 a.m.	39 57 00	70 32 00	74 74	39.5	475	gn. m.....	SW.	3	SSW.	1.75	Do.	
2215.....	Aug. 22	3.13 p.m.	39 49 15	70 31 45	77 74	.....	578	lost ther.....	SSW.	4	SW.	1.5	Do.
2216.....	Aug. 22	5.38 p.m.	39 47 00	70 50 20	81 71	39.5	963	gn. m.....	SSW.	2	S.	1.75	Do.	
2217.....	Aug. 23	4.49 a.m.	39 47 20	69 34 15	75 73	38.1	924	gy. m.....	SW.	3	S.	1.25	Do.	
2218.....	Aug. 23	10.41 a.m.	39 46 22	69 29 00	72 74	38.8	949	gy. m.....	SW.	2	SE. by S.	1.75	Do.	
2219.....	Aug. 23	1.36 p.m.	39 46 22	69 29 00	72 74	38.8	948	gy. m.....	SW.	2	SE. by S.	1.75	Do.	
2220.....	Aug. 23	4.18 p.m.	39 43 20	69 23 00	75 74	38.3	1,054	gy. m.....	SW.	3	SE. by S.	1.5	Do.	
2221.....	Sept. 6	9.01 a.m.	39 05 30	70 44 30	77 75	30.0	1,525	gy. oz.....	WSW.	2	SW. ½ S.	1.25	Do.	
2222.....	Sept. 6	2.20 p.m.	39 03 15	70 50 45	74 73	36.0	1,537	gy. oz.....	WSW.	3	SW. ½ S.	2	Do.	
2223.....	Sept. 7	5.07 a.m.	37 48 30	69 43 30	79 75	30.4	2,516	glob. oz.....	NW.	3	SE.	2	Do.	
2224.....	Sept. 8	8.31 a.m.	36 16 30	68 21 00	78 79	30.8	2,574	glob. oz.....	NW.	2	W.	3.5	Do.	
2225.....	Sept. 9	5.47 a.m.	36 05 30	69 51 45	77 78	36.7	2,512	yl. oz.....	WSW.	2	SW. ½ S.	2.5	Do.	
2228.....	Sept. 10	5.06 a.m.	37 00 00	71 54 00	78 80	36.8	2,045	glob. oz.....	SW.	4	S.	1	Do.	
2227.....	Sept. 10	12.24 p.m.	36 55 23	71 55 00	81 82	36.8	2,109	glob. oz.....	SW.	3	SSW.	2	Do.	
2228.....	Sept. 11	5.10 a.m.	37 25 00	73 06 00	77 77	36.8	1,582	br. m.....	SW.	3	S.	2	Lost trawl.	
2229.....	Sept. 11	4.12 p.m.	37 38 40	73 16 30	79 75	37.7	1,423	glob. oz.....	SW.	2	W. ½ N.	2	Do.	
2230.....	Sept. 12	4.37 a.m.	36 27 00	73 02 00	75 75	36.8	1,168	gy. oz.....	WSW.	2	W.	1.5	Do.	
2231.....	Sept. 12	9.42 a.m.	38 29 00	73 09 00	77 75	36.8	965	gy. oz.....	W.	3	NW.	1.5	Do.	
2232.....	Sept. 12	2.48 p.m.	38 37 30	73 11 00	72 74	42.8	243	gn. m.....	NE.	4	NNE.	1.5	Do.	
2233.....	Sept. 12	4.16 p.m.	38 36 30	73 06 00	69 73	39.2	630	gn. m.....	NE.	5	NNE.	1.5	Do.	
2234.....	Sept. 13	4.20 a.m.	39 09 00	72 03 15	71 69	38.6	810	gn. m.....	ENE.	3	NE. by N.	1.75	Do.	
2235.....	Sept. 13	7.33 a.m.	39 12 00	72 03 30	76 72	38.8	707	gn. m.....	NE.	4	NE. by E.	1.25	Do.	
2236.....	Sept. 13	9.49 a.m.	39 11 00	72 03 00	68 72	39.5	638	gn. m.....	NNE.	4	N. by E.	1.5	Do.	
2237.....	Sept. 13	11.42 a.m.	39 12 17	72 09 30	70 72	38.5	520	gn. m.....	NNE.	4	SW.	1.25	Do.	

2238	Sept. 13	2.26 p.m.	39 06 00	72 10 00	71 72	38 7	904	gy. m.	N.	5	XNW.	1.75	Do.
2239	Sept. 26	5.05 a.m.	40 38 00	70 29 45	62 62	.....	32	gn. m.	NNE	5	SSW.	1	Do.
2240	Sept. 25	7.29 a.m.	40 27 30	70 29 00	62 61	.....	44	gn. m.	NNE	6	SSW.	1	Do.
2241	Sept. 20	9.20 a.m.	40 21 00	70 29 15	63 63	51.4	50	gn. m.	NE.	6	SW.	1	Do.
2242	Sept. 26	11.33 a.m.	40 15 30	70 27 00	63 63	51.4	53	gn. m.	NE.	6	SW.	1	Do.
2243	Sept. 26	1.13 p.m.	40 10 15	70 26 00	65 64	52.4	63	gn. m.	NE.	6	SW.	1	Do.
2244	Sept. 26	3.11 p.m.	40 05 15	70 23 00	66 71	52.9	67	gn. m. s.	NE.	6	SW.	1	Do.
2245	Sept. 26	4.50 p.m.	40 01 15	70 22 00	61 61	50.9	88	gn. m. bk. s.	NE.	6	WNW.	1	Do.
2246	Sept. 26	6.42 p.m.	29 56 45	70 20 30	64 71	48.8	122	gn. m.	NE.	6	NE by N.	1.25	Do.
2247	Sept. 27	4.57 a.m.	40 03 00	69 57 00	61 70	51.9	78	gn. m. s.	E.	3	ESE.	.5	Do.
2248	Sept. 27	6.50 a.m.	40 07 00	69 57 00	64 70	52.4	67	gn. m. bk. s.	E.	3	N. by E.	.75	Do.
2249	Sept. 27	8.24 a.m.	40 11 00	69 52 00	61 70	51.4	53	gn. m. fno. s.	E.	4	E.	1	Do.
2250	Sept. 27	10.04 a.m.	40 17 15	69 51 45	63 68	51.4	47	gn. m. fno. s.	E.	4	E.	.75	Do.
2251	Sept. 27	12.02 p.m.	40 22 17	69 51 30	62 65	50.9	43	gn. m. fno. s.	E.	4	NNE.	.5	Do.
2252	Sept. 27	1.46 p.m.	40 28 00	69 51 00	62 63	50.3	38	gn. m. fno. s.	SE.	2	NNE.	.5	Do.
2253	Sept. 27	3.11 p.m.	40 34 30	69 50 45	61 61	52.9	32	gy. s. bk. sp.	E.	2	NNE.	.75	Do.
2254	Sept. 27	4.39 p.m.	40 40 30	69 50 30	61 61	54.4	25	gy. s. bk. sp.	E.	2	NNE.	.75	Do.
2255	Sept. 27	6.10 p.m.	40 46 30	69 50 15	61 60	55.9	18	fno. s. bk. sp.	E.	1	NNE.	.75	Do.
2256	Sept. 28	5.42 a.m.	40 38 30	69 49 00	62 61	52.9	30	yl. s.	SSW.	2	SSE.	1	Do.
2257	Sept. 28	7.17 a.m.	40 32 30	69 48 00	62 61	51.2	33	yl. s. bk. sp.	SW.	2	S. by W.	1	Do.
2258	Sept. 28	8.34 a.m.	40 26 00	69 47 00	63 61	51.2	36	gy. s. bk. sp.	SW.	2	S. by W.	.75	Do.
2259	Sept. 28	9.56 a.m.	40 19 30	69 46 00	61 61	50.2	41	gy. s. bk. sp.	SW.	2	S. by W.	.75	Do.
2260	Sept. 28	11.13 a.m.	40 13 15	69 45 00	68 65	50.2	46	gy. s.	SW.	3	S. by W.	.75	Do.
2261	Sept. 28	12.52 p.m.	40 04 00	69 44 00	69 66	53.0	58	gy. s. bk. sp.	SW.	4	S. by W.	.75	Do.
2262	Sept. 28	2.51 p.m.	39 54 45	69 43 45	72 67	41.6	250	gn. m. s.	SW.	4	S. by W.	.75	Do.
2263	Oct. 18	1.06 p.m.	37 08 00	74 35 00	67 68	.....	470	gn. m.	W.	5	SSE.	1	Do.
2264	Oct. 18	2.37 p.m.	37 07 50	74 34 20	67 68	46.8	167	gy. s.	W.	5	WSW.	1	Do.
2265	Oct. 18	3.47 p.m.	37 07 40	74 35 40	65 67	57.9	70	gn. m. fno. s.	W.	6	WSW.	1.5	Do.
2266	Oct. 19	6.00 a.m.	35 07 00	75 06 30	69 78	62.8	111	fno. s. bk. sp.	NE.	5	N.	.5	S. B. T.
2267	Oct. 19	6.39 a.m.	35 08 50	75 07 20	67 79	72.8	68	gy. m.	NE.	5	NE.	2	Tpl. bar.
2268	Oct. 19	7.43 a.m.	35 10 40	75 06 10	67 79	71.3	68	gy. m.	NE.	5	NE.	2	Do.
2269	Oct. 19	8.46 a.m.	35 12 30	75 05 00	70 75	77	48	crs. gy. bk. s.	ENE.	4	WNW.	2	Do.
2270	Oct. 19	9.40 a.m.	35 14 15	75 07 00	70 75	76.3	32	fno. gy. s. bk. sp.	ENE.	4	W.	1.75	D. S. dredge.
2271	Oct. 19	10.45 a.m.	35 16 00	75 06 00	70 75	.....	26	crs. gy. s. bk. sp.	ENE.	4	W.	2	S. B. T.
2272	Oct. 19	11.57 a.m.	35 20 10	75 14 00	69 75	.....	15	gy. s. bk. sp.	ENE.	3	WSW.	2	Do.
2273	Oct. 19	12.45 p.m.	35 20 30	75 17 30	63 72	72.3	17	gy. s. brk. sh.	ENE.	3	WNW.	2	Do.
2274	Oct. 19	1.22 p.m.	35 20 35	75 18 05	68 71	.....	18	gy. s. brk. sh.	NE.	2	WSW.	1.5	Dr. S. dredge.
2275	Oct. 19	1.43 p.m.	35 20 40	75 18 40	67 71	.....	16	gy. s. brk. sh.	NE.	3	WNW.	1	Dr. & M. E.
2276	Oct. 19	2.08 p.m.	35 20 45	75 19 15	67 71	.....	15	gy. s. brk. sh.	NE.	3	WNW.	1	Do.
2277	Oct. 19	2.21 p.m.	35 20 50	75 19 50	67 71	.....	16	gy. s. brk. sh.	NE.	3	WSW.	.75	Do.
2278	Oct. 19	2.45 p.m.	35 20 55	75 20 20	67 71	.....	16	gy. s. brk. sh.	NE.	3	WSW.	.75	L. B. T.
2279	Oct. 19	3.38 p.m.	35 20 55	75 20 55	67 71	.....	16	gy. s. brk. sh.	NE.	3	WSW.	.75	Do.
2280	Oct. 19	4.15 p.m.	35 21 00	75 21 30	67 70	.....	16	gy. s. brk. sh.	NE.	3	WSW.	.75	Do.
2281	Oct. 19	4.35 p.m.	35 21 05	75 22 05	67 70	.....	16	gy. s. brk. sh.	NE.	3	WSW.	.75	Do.
2282	Oct. 19	5.13 p.m.	35 21 10	75 22 40	68 70	.....	14	bk. s.	NE.	3	NW. by W.	.75	Do.
2283	Oct. 19	5.41 p.m.	35 21 15	75 23 15	68 70	.....	14	gy. s.	NE.	3	N. by W.	.5	Do.
2284	Oct. 19	6.00 p.m.	35 21 20	75 23 50	67 70	.....	13	crs. gy. s.	NE.	3	WNW.	.5	Do.
2285	Oct. 19	6.40 p.m.	35 21 25	75 24 25	67 70	.....	13	crs. gy. s.	NE.	3	WNW.	.75	Do.
2286	Oct. 19	7.13 p.m.	35 21 30	75 25 00	67 70	.....	11	crs. gy. s.	NE.	2	WNW.	.5	Do.
2287	Oct. 20	6.15 a.m.	35 22 30	75 26 00	68 69	.....	7	crs. gy. s.	ESE.	2	E. by N.	.5	Do.
2288	Oct. 20	6.45 a.m.	35 22 40	75 25 30	68 69	.....	7	crs. s. brk. sh.	ESE.	2	E. by N.	.5	Do.
2289	Oct. 20	7.15 a.m.	35 22 50	75 25 00	70 69	.....	7	crs. s. bk. sp.	ESE.	2	E. by N.	.5	Do.

Dredging and Trawling Record of the United States Fish Commission steamer Albatross, Season of 1884—Continued.

Serial No.	Date.	Time.	Positions.		Temperatures.			Depth in fath-oms.	Character of bot-tom.	Wind.		Drift.		Instruments used.
			Latitude N.	Longitude W.	Air.	Surface.	Bottom.			Direction.	Force.	Direction.	Distance.	
	1884.		o / "	o / "								Miles.		
2280.....	Oct. 20	7.45 a.m.	35 23 00	75 24 30	70	69	.....	94	s. brk. sh.....	ESE.	2	ENE.	.5	L.R.T.
2291.....	Oct. 20	8.45 a.m.	35 25 30	75 20 30	70	69	.....	15	gy. s. brk. sh.....	ESE.	2	ENE.	.5	Do.
2292.....	Oct. 20	9.32 a.m.	35 27 20	75 16 30	72	70	.....	17	gy. s. brk. sh.....	ESE.	2	E.by N.	.5	Do.
2293.....	Oct. 20	10.25 a.m.	35 29 10	75 12 30	71	71	.....	18	crs. s. bk. sp.....	ESE.	2	E.by N.	.5	Do.
2294.....	Oct. 20	11.18 a.m.	35 31 00	75 08 30	73	71	.....	19	crs. gy. s.....	ESE.	2	E.by N.	.5	Do.
2295.....	Oct. 20	12 03 p.m.	35 32 41	75 04 30	76	73	.....	22	crs. gy. a.....	ESE.	2	E.by N.	.5	Do.
2296.....	Oct. 20	1.15 p.m.	35 35 20	74 58 45	75	71	.....	27	crs. gy. s.....	SE.	2	E.by N.	.5	Do.
2297.....	Oct. 20	2.18 p.m.	35 38 00	74 53 00	75	73	.....	49	bk. m. brk. sh.....	SE.	1	E.by N.	.75	Do.
2298.....	Oct. 20	2.55 p.m.	35 39 00	74 52 00	74	73	.....	80	bk. m. brk. sh.....	SE.	1	E.by N.	.75	Do.
2299.....	Oct. 20	3.50 p.m.	35 40 00	74 51 30	74	73	.....	296	bk. m.....	SE.	1	E.by N.	.75	Do.
2300.....	Oct. 20	5.20 p.m.	35 41 30	74 48 30	71	71	.....	671	bk. m.....	SE.	1	E.by N.	1	Do.
2301.....	Oct. 21	6.10 a.m.	35 11 30	75 05 00	73	77	75	59	crs. s. bk. sp.....	SE.	1	XNE.	.5	Trl. bat.
2302.....	Oct. 21	6.45 a.m.	35 14 00	75 03 00	74	77	71.4	49	s. co.....	ESE.	2	NE.	.25	Do.
2303.....	Oct. 21	7.11 a.m.	35 17 00	75 01 00	74	77	.....	41	fne. gy. & bk. s....	ESE.	2	NE.	.25	S.B.T.
2304.....	Oct. 21	7.40 a.m.	35 19 00	74 58 00	74	77	.....	37	fne. gy. & bk. s....	ESE.	2	E.	.5	Do.
2305.....	Oct. 21	8.36 a.m.	35 23 00	74 51 30	77	79	66.2	58	fne. gy. & bk. s....	ESE.	2	E.	.5	Do.
2306.....	Oct. 21	11.00 a.m.	35 21 30	74 52 00	76	79	41.7	322	gy. m.....	ESE.	2	E.	.5	L.R.T.
2307.....	Oct. 21	4.11 p.m.	35 42 00	74 54 30	76	70	57.3	43	gy. & bk. s.....	ESE.	2	NE.	1	Do.
2308.....	Oct. 21	5.17 p.m.	35 43 00	74 53 30	72	71	.....	45	gy. & bk. s.....	SE.	1	NE.	1	Do.
2309.....	Oct. 21	6.08 p.m.	35 43 30	74 52 00	72	71	.....	56	gy. s. brk. sh.....	SE.	1	NE.	.5	Do.
2310.....	Oct. 21	6.59 p.m.	35 44 00	74 51 00	76	71	.....	132	bk. m. fne. s.....	SE.	1	NE.	.5	Do.

Record of dredgings and trawlings of the U. S. Fish Commission steamer Albatross, during the year ending December 31, 1885.

S. Mis. 90 Serial number.	Date.	Time.	Position.		Temperature.			Depth.	Character of bottom.	Wind.		Drift.		Instrument used.
			Lat. N.	Long. W.	Ajr.	Surface.	Bottom.			Direction.	Force.	Direction.	Distance.	
	1885.		o	"	o	"	o	o	o					Miles.
2311	Jan. 5	9.47 a. m.	32 55 00	77 54 00	69	72	59.1	79	crs. S. bk. Sp	SE	3			L. B. T.
2312	Jan. 5	10.48 a. m.	32 54 00	77 53 30	69	73	57.8	88	crs. S. bk. Sp	ESE	3			L. B. T.
2313	Jan. 5	12.17 p. m.	32 53 00	77 53 00	69	73	57.2	99	crs. S. bk. Sp. brk. Sh.	ESE	3			L. B. T.
2314	Jan. 5	3.06 p. m.	32 43 00	77 51 00	70	69	47.4	150	crs. S. bk. Sp. brk. Sh.	SSE	4			L. B. T.
2315	Jan. 15	2.17 p. m.	24 28 00	81 48 15	77	75		37	Co	ESE	5			L. B. T.
2316	Jan. 15	3.21 p. m.	24 25 30	81 47 45	77	75	74	50		ESE	5			L. B. T.
2317	Jan. 15	4.22 p. m.	24 23 45	81 46 45	77	75	75	45	Co	ESE	5			L. B. T.
2318	Jan. 15	5.00 p. m.	24 23 45	81 46 00	77	75	75	45	Co	ESE	5			L. B. T.
2319	Jan. 17	6.45 a. m.	23 10 37	82 20 06	71	76		143	gy. Co	ESE	1			Tgls.
2320	Jan. 17	7.25 a. m.	23 10 39	82 18 48	72	76		130	fne. Co	ESE	1			Tgls.
2321	Jan. 17	7.58 a. m.	23 10 54	82 18 00	74	77		230	fne. gy. S.	ESE	1			Tgls.
2322	Jan. 17	8.53 a. m.	23 10 54	82 17 45	75	77		115	Co	ESE	1			Tgls.
2323	Jan. 17	10.04 a. m.	23 10 51	82 19 03	78	78		163	wh. br. Co	ESE	2			Tgls.
2324	Jan. 17	11.17 a. m.	23 10 25	82 20 24	78	78	79.1	33	Co	ESE	2			Tgls.
2325	Jan. 17	11.39 a. m.	23 10 48	82 19 54	78	78		170	lt. br. Co	ESE	2			Tgls.
2326	Jan. 17	12.15 p. m.	23 11 45	82 18 54	79	78	62	194	br. Co	ESE	2			Tgls.
2327	Jan. 17	12.53 p. m.	23 11 45	82 17 54	80	76		182	fne. br. S.	SSE	1			Tgls.
2328	Jan. 17	2.11 p. m.	23 11 03	82 19 15	81	75	58	203	fne. gy. Co	W.	1			Tgls.
2329	Jan. 17	2.45 p. m.	23 11 03	82 18 45	81	75		118	wh. Co	W.	1			Tgls.
2330	Jan. 17	3.50 p. m.	23 10 48	82 19 15	81	75		121	fne. gy. Co	W.	2			Tgls.
2331	Jan. 17	4.55 p. m.	23 10 31	82 19 55	80	75		114	Co	W.	1			Tgls.
2332	Jan. 19	6.48 a. m.	23 10 38	82 20 06	73	75		156	wh. gy. Co	SSE	3			Tgls.
2333	Jan. 19	7.20 a. m.	23 10 36	82 19 12	73	75		169	fne. wh. Co	SSE	3			Tgls.
2334	Jan. 19	8.00 a. m.	23 10 42	82 18 24	74	75		67	wh. Co	SSE	3			Tgls.
2335	Jan. 19	9.00 a. m.	23 10 39	82 20 21	76	77		204		NE.	3			Tgls.
2336	Jan. 19	9.46 a. m.	23 10 48	82 18 52	77	77		157	Co	NE.	3			Tgls.
2337	Jan. 19	11.02 a. m.	23 10 39	82 20 21	78	78		199	Co	NE.	3			Tgls.
2338	Jan. 19	11.53 a. m.	23 10 40	82 20 15	79	78		189	Co	NE.	3			Tgls.
2339	Jan. 19	12.43 p. m.	23 10 40	82 20 15	79	78		191	Co	NE.	3			Tgls.
2340	Jan. 19	1.35 p. m.	23 10 47	82 20 06	80	78		224	Co	NE.	3			Tgls.
2341	Jan. 19	2.11 p. m.	23 11 00	82 19 06	79	78		143	Co	NE.	3			Tgls.
2342	Jan. 19	2.57 p. m.	23 10 39	82 20 21	78	78		201	Co	NE.	5			Tgls.
2343	Jan. 19	3.32 p. m.	23 11 35	82 19 25	78	8		229	fne. Co	NE.	3			Tgls.
2344	Jan. 19	4.40 p. m.	23 10 39	82 20 21	78	78		199	br. Co	NE.	3			Tgls.
2345	Jan. 20	12.30 p. m.	23 10 40	82 20 15	81	78		184	fne. gy. wh. Co	E.	4			Tgls.
2346	Jan. 20	1.34 p. m.	23 10 39	82 20 21	83	78		200	Co	E.	4			Tgls.
2347	Jan. 20	2.11 p. m.	23 10 39	82 20 21	82	78		216	Co	E.	4			Tgls.
2348	Jan. 20	3.04 p. m.	23 10 39	82 20 21	82	78		211	Co	E.	4			Tgls.

Record of dredgings and trawlings of the U. S. Fish Commission steamer Albatross, etc.—Continued.

Serial number.	Date.	Time.	Position.		Temperature.			Depth.	Character of bottom.	Wind.		Drift.		Instrument used.
			Lat. N.	Long. W.	Air.	Surface.	Bottom.			Direction.	Force.	Direction.	Distance.	
2349	Jan. 20	3.51 p. m.	23 10 40	82 20 15	82	78	182	Co	E	4			Tgls.	
2350	Jan. 20	4.37 p. m.	23 10 39	82 20 21	81	78	213	Co	E	3			S. B. T.	
2351	Jan. 21	9.02 a. m.	23 41 00	81 16 30	78	77	426		SSE	2			L. B. T.	
2352	Jan. 21	11.13 a. m.	22 35 00	84 23 00	79	77	463	wh. Co	Variable	0-1			L. B. T.	
2353	Jan. 22	9.23 a. m.	20 59 00	86 23 00	79	79	167	Co	NE	1			Tgls.	
2354	Jan. 22	10.17 a. m.	20 59 30	86 23 45	80	78	130	Co	NE	1			S. B. T.	
2355	Jan. 22	11.28 a. m.	20 56 48	86 27 00	83	78	399	yl. Oz	NE	2			S. B. T.	
2356	Jan. 29	1.29 p. m.	20 18 50	87 03 00	84	78	137	fine wh. Co	ESE	3			Tgls.	
2357	Jan. 29	2.07 p. m.	20 19 00	87 03 10	81	78	178	wh. Co	ESE	4			Tgls.	
2358	Jan. 29	2.57 p. m.	20 19 00	87 03 30	82	78	222	fine wh. Co	ESE	4			S. B. T.	
2359	Jan. 29	4.07 p. m.	20 19 10	87 03 30	81	78	231	wh. Co	ESE	4			S. B. T.	
2360	Jan. 30	7.42 a. m.	22 08 30	86 49 00	79	78	26	wh. Co	SE	3			Tgls.	
2361	Jan. 30	8.45 a. m.	22 08 15	86 51 15	80	78	25	Co. S	SE	3			S. B. T.	
2362	Jan. 30	9.18 a. m.	22 08 30	86 53 30	79	78	25	Co. S	SE	3			S. B. T.	
2363	Jan. 30	10.38 a. m.	22 07 30	87 06 00	78	77	21	wh. R. Co	SE	3			S. B. T.	
2364	Jan. 30	11.37 a. m.	22 03 40	87 06 40	79	77	22	Co. S	SE	3			S. B. T.	
2365	Jan. 30	3.00 p. m.	22 18 00	87 04 00	79	77	24	wh. R. Co	SSE	2			S. B. T.	
2366	Jan. 30	4.52 p. m.	22 28 00	87 02 00	77	76	27	fine wh. Co	SSE	2			S. B. T.	
2367	Jan. 30	6.32 p. m.	22 38 00	87 00 00	75	76	124	wh. Co	Caln.	0			S. B. T.	
2368	Feb. 7	12.11 p. m.	29 15 00	85 32 00	60	64	28	crs. gy. S. brk. Sh	SE	2			Tgls.	
2369	Feb. 7	12.46 p. m.	29 16 30	85 32 00	60	64	26	crs. gy. S. brk. Sh	S	3			L. B. T.	
2370	Feb. 7	1.16 p. m.	29 18 15	85 32 00	60	64	25	crs. gy. S. brk. Sh	S	3			L. B. T.	
2371	Feb. 7	2.16 p. m.	29 17 00	85 30 45	65	66	26	gy. S. brk. Sh	S	3			L. B. T.	
2372	Feb. 7	2.47 p. m.	29 15 30	85 29 30	64	64	27	G.	S	3			L. B. T.	
2373	Feb. 7	3.27 p. m.	29 14 00	85 29 15	64	64	25	Co	S	3			L. B. T.	
2374	Feb. 7	4.27 p. m.	29 11 30	85 29 00	63	65	26	S. G. brk. Sh	S	3			L. B. T.	
2375	Feb. 7	5.15 p. m.	29 10 00	85 31 03	62	65	30	S. bk. Sp. brk. Sh	S	4			L. B. T.	
2376	Feb. 11	1.43 p. m.	29 03 15	88 16 00	50	62	224	gy. M.	NE	4			L. B. T.	
2377	Feb. 11	3.44 p. m.	29 07 30	88 08 00	50	63	210	gy. M.	E	4			L. B. T.	
2378	Feb. 11	5.40 p. m.	29 14 30	88 08 30	50	63	68	gy. M.	NE	4			L. B. T.	
2379	Mar. 2	5.40 a. m.	28 60 15	87 42 00	60	66	1,467	vl. Oz	NE	6			L. B. T.	
2380	Mar. 2	10.43 a. m.	28 02 30	87 43 45	60	69	1,430	br. M.	NE	3			L. B. T.	
2381	Mar. 2	3.50 p. m.	28 05 00	87 56 15	59	69	1,330	lt. br. M.	N	2			L. B. T.	
2382	Mar. 3	5.37 a. m.	28 19 45	88 01 30	50	62	1,255	gy. M.	NE	1			L. B. T.	
2383	Mar. 3	10.23 a. m.	28 32 00	88 06 00	62	69	1,181	br. gn. M.	NE	2			L. B. T.	
2384	Mar. 3	2.50 p. m.	28 45 00	88 15 30	70	67	940	br. gy. M.	E	2			L. B. T.	
2385	Mar. 3	6.37 p. m.	28 51 00	88 18 00	68	67	730	gy. M.	E	2			L. B. T.	
2386	Mar. 4	5.36 a. m.	29 15 00	88 06 00	62	67	60	bu. M.	NE	1			L. B. T.	

2387	Mar. 4	7.46 a. m.	29 24 00	88 04 00	61 61	.....	S. G. brk. Sh	NE	2	.....	L. B. T.
2388	Mar. 4	9.45 a. m.	29 24 30	88 01 00	61 61	.....	yl. S. bk. Sp	NE	2	.....	L. B. T.
2389	Mar. 4	10.56 a. m.	29 28 00	87 56 09	64 62	.....	gy. S. brk. Sh	NE	2	.....	L. B. T.
2390	Mar. 4	12.48 p. m.	29 27 30	87 48 30	62 62	.....	crs. S. bk. Sp. Sh	NE	2	.....	L. B. T.
2391	Mar. 4	2.03 p. m.	29 32 00	87 45 00	61 59	.....	gy. S. bk. Sp	ENE	2	.....	L. B. T.
2392	Mar. 13	5.27 a. m.	28 47 30	87 27 00	66 62	40.7	br. gy. M.	SW.	3	.....	L. B. T.
2393	Mar. 13	9.37 a. m.	28 43 00	87 14 30	70 64	41.1	lt. gy. M.	NE	1	.....	L. B. T.
2394	Mar. 13	1.35 p. m.	28 38 30	87 02 00	70 66	41.8	gn. M.	WSW.	2	.....	L. B. T.
2395	Mar. 13	4.31 p. m.	28 36 15	86 50 00	72 66	44.1	gy. M.	WSW.	2	.....	L. B. T.
2396	Mar. 13	6.09 p. m.	28 34 00	86 48 00	68 66	.....	gy. M.	WSW.	3	.....	L. B. T.
2397	Mar. 14	5.22 a. m.	28 42 00	86 36 00	64 65	46.1	gy. M.	NE	2	.....	L. B. T.
2398	Mar. 14	8.24 a. m.	28 45 00	86 26 00	64 67	48.6	gy. M.	NE	2	.....	L. B. T.
2399	Mar. 14	10.52 a. m.	28 44 00	86 18 00	70 68	51.6	gy. M.	NE	2	.....	L. B. T.
2400	Mar. 14	1.23 p. m.	28 41 00	86 07 00	71 67	.....	gn. M.	ENE	1	.....	L. B. T.
2401	Mar. 14	4.01 p. m.	28 38 30	85 52 30	73 69	.....	gn. M. brk. Sh	Calm.	0	.....	L. B. T.
2402	Mar. 14	6.18 p. m.	28 36 00	85 32 30	65 63	.....	gy. M.	Calm.	0	.....	L. B. T.
2403	Mar. 15	5.30 a. m.	28 42 30	85 29 00	67 65	.....	gy. M.	SW.	2	.....	L. B. T.
2404	Mar. 15	7.45 a. m.	28 44 00	85 16 00	68 66	.....	gy. S.	SW.	1	.....	L. B. T.
2405	Mar. 15	9.39 a. m.	28 45 00	85 02 00	68 68	.....	gy. S. brk. Co	ESE	1	.....	L. B. T.
2406	Mar. 15	11.21 a. m.	28 46 00	84 49 00	67 64	.....	crs. S. Co	SE	2	.....	L. B. T.
2407	Mar. 15	1.14 p. m.	28 47 30	84 37 00	64 63	.....	Co. brk. Sh	SE	2	.....	L. B. T.
2408	Mar. 16	9.22 a. m.	28 28 00	84 25 00	60 64	.....	Co	NE	4	.....	L. B. T.
2409	Mar. 16	1.12 p. m.	27 04 00	83 21 15	67 66	.....	crs. gy. S. brk. Sh	W.	4	.....	L. B. T.
2410	Mar. 18	3.52 p. m.	26 47 30	83 25 15	67 66	.....	fne. wh. S. bk. Sp. brk. Sh	WNW.	4	.....	Rako dredge.
2411	Mar. 18	6.21 p. m.	26 33 30	83 15 20	69 67	.....	fne. wh. S. bk. Sp.	NW.	4	.....	L. B. T.
2412	Mar. 19	6.50 a. m.	26 18 30	83 08 45	62 66	.....	fne. gy. S. bk. Sp. brk. Sh	NW.	3	.....	L. B. T.
2413	Mar. 19	10.04 a. m.	26 00 00	82 57 30	68 66	.....	fne. S. bk. Sp. brk. Sh	XNW.	2	.....	L. B. T.
2414	Mar. 19	6.11 p. m.	25 04 30	82 59 15	67 69	.....	fne. wh. S. brk. Sh	NW.	2	.....	L. B. T.
2415	Apr. 1	5.31 a. m.	30 44 00	79 26 00	70 70	45.6	Co. crs. S. Sh. For	ENE	3	.....	L. B. T.
2416	Apr. 1	12.01 p. m.	31 26 00	79 07 00	70 74	53.8	Co. brk. Sh	ENE	5	.....	L. B. T.
2417	Apr. 2	12.13 p. m.	33 18 30	77 07 00	69 67	65.8	fne. gy. S.	ESE	4	.....	L. B. T.
2418	Apr. 2	12.54 p. m.	33 20 00	77 05 00	69 67	65.8	gy. S.	ESE	4	.....	L. B. T.
2419	Apr. 2	5.25 p. m.	33 34 00	76 40 30	69 72	60.3	fne. gy. S. bk. Sp	ESE	3	.....	L. B. T.
2420	Apr. 5	6.20 p. m.	37 03 20	74 31 40	50 48	47.7	bk. S. M. G.	S. by E.	1	.....	L. B. T.
2421	June 3	5.40 a. m.	37 07 00	74 34 30	61 61	.....	fne. gy. S. P.	NE	2	.....	L. B. T.
2422	June 3	9.55 a. m.	37 08 30	74 33 30	66 63	52.5	crs. gy. S. bk. Sp. brk. Sh	E	4	.....	L. B. T.
2423	June 3	3.11 p. m.	37 10 15	74 32 00	65 67	.....	gn. M. fne. S	ENE	3	.....	L. B. T.
2424	June 4	4.30 a. m.	36 41 37	74 42 15	69 67	52.5	bk. M.	S.	1	.....	L. B. T.
2425	June 4	11.30 a. m.	36 20 24	74 46 30	72 69	51.5	dk. gy. M. fne. S.	SSW.	2	.....	L. B. T.
2426	June 4	4.49 p. m.	36 01 30	74 47 30	77 71	52.0	crs. gy. bk. S. brk. Sh	S.	3	.....	L. B. T.
2427	June 23	6.00 a. m.	42 46 00	51 00 00	49 47	38.7	hrd	S.	1	.....	L. B. T.
2428	June 23	8.18 a. m.	42 48 00	50 55 30	50 48	38.3	gn. M.	S.	2	.....	L. B. T.
2429	June 23	12.04 p. m.	42 55 30	50 51 00	51 45	38.7	gy. M.	S.	3	.....	L. B. T.
2430	June 23	3.05 p. m.	42 58 30	50 50 00	51 46	33.5	gn. S. P.	S.	2	E. by N.	1.50
2431	June 23	4.24 p. m.	43 00 00	50 47 30	51 46	.....	yl. S. bk. Sp	S.	2	ESE.	1
2432	June 23	5.28 p. m.	43 04 00	50 45 00	51 47	.....	fne. gy. S.	SSW.	3	ESE.	1
2433	June 23	6.05 p. m.	43 05 00	50 43 00	52 48	33.0	gn. S.	SW.	3	E.	1.50
2434	June 23	7.20 p. m.	43 08 00	50 40 00	54 48	34.0	gn. M.	SW.	3	E.	1.50
2435	June 23	8.13 p. m.	43 12 00	50 38 45	54 48	34.0	bk. M.	SW.	4	E.	1.50
2436	June 24	4.22 a. m.	43 36 00	50 06 30	53 49	34.0	wh. S. bk. Sp. brk. Sh	SW.	4	ESE.	1
2437	June 24	5.04 a. m.	43 36 00	50 05 00	53 49	35.8	crs. brk. Sh. brk. St.	SW.	4	ESE.	1
2438	June 24	5.40 a. m.	43 36 00	50 03 30	54 48	36.8	gn. S. bk. Sp. brk. Sh	SW.	4	ESE.	1

Record of dredgings and trawlings of the U. S. Fish Commission steamer Albatross, etc.—Continued.

Serial number.	Date.	Time.	Position.		Temperature.			Depth.	Character of bottom.	Wind.		Drift.		Instrument used.
			Lat. N.	Long. W.	Air.	Surface.	Bottom.			Direction.	Force.	Direction.	Distance.	
	1865.		c	n	o	n	o	o	Fath.					
2439	June 24	6.50 a. m.	43 37 00	49 56 30	54	48	37.8	36	wh. S. bk. Sp.	SW.	5	ESE.	1	L. B. T.
2440	June 24	7.55 a. m.	43 38 00	49 49 30	54	48	38.3	33	fine wh. S. bk. Sp.	SW.	5	ESE.	1	L. B. T.
2441	June 25	5.05 a. m.	45 27 00	49 42 00	45	43	33.0	34	wh. S. brk. Sh.	W.	2	N. by E.	1.50	L. B. T.
2442	June 25	6.42 a. m.	45 33 00	49 43 00	46	44	33.2	36	wh. S. brk. Sh.	W.	3	NNE.	1	L. B. T.
2443	June 25	8.47 a. m.	45 44 00	49 45 00	50	46	34.9	35	wh. S. brk. Sh.	WNW.	2	NNE.	1	L. B. T.
2444	June 25	11.21 a. m.	45 59 00	49 45 30	49	45	34.4	39	wh. S. brk. Sh.	WNW.	2	NNE.	1	L. B. T.
2445	June 25	12.54 p. m.	46 09 30	49 48 30	47	44	33.5	39	brk. Sh.	SW.	3	NNE.	1	L. B. T.
2446	June 25	2.21 p. m.	46 20 00	49 52 00	48	43	35.3	40	brk. Sh.	SW.	3	NNE.	1	L. B. T.
2447	June 25	3.55 p. m.	46 26 00	49 42 00	48	43	34.8	39	brk. Sh.	WSW.	3	NNE.	1	L. B. T.
2448	June 25	4.40 p. m.	46 28 00	49 39 30	48	43	33.9	40	S. G.	WSW.	3	NNE.	1	L. B. T.
2449	June 25	7.03 p. m.	46 37 00	49 50 30	46	42	33.0	39	brk. Sh.	SW.	4	WNW.	1	L. B. T.
2450	June 25	8.33 p. m.	46 45 00	50 02 30	45	42	31.0	44	P. brk. Sh.	SSW.	4	WNW.	.50	L. B. T.
2451	June 26	4.19 a. m.	46 58 00	50 34 00	41	40	29.7	67	S. Sh.	SSW.	3	NW. by N.	1	S. B. T.
2452	June 26	6.14 a. m.	47 04 00	50 48 00	54	40	29.7	89	fine gn. S.	SW.	3	NNW.	1	L. B. T.
2453	June 26	8.02 a. m.	47 10 00	51 02 00	48	41	29.7	82	gn. M. fine S.	WSW.	3	NNW.	1	L. B. T.
2454	June 26	10.17 a. m.	47 16 00	51 16 00	46	42	29.7	74	fine gy. S.	SW.	2	NNW.	1	L. B. T.
2455	June 26	12.25 p. m.	47 21 00	51 38 30	45	43	30.0	81	br. S.	SW.	2	W.	.75	L. B. T.
2456	July 2	8.00 a. m.	47 29 00	52 18 00	47	46	.....	86	G.	SW.	2	S. by E.	1	Bl. Dr.
2457	July 2	10.48 a. m.	47 13 00	52 24 00	48	47	29.5	86	gy. S.	SW.	2	S. by E.	1	Bl. Dr.
2458	July 2	2.35 p. m.	46 48 30	52 34 00	50	48	29.5	89	S. gn. M.	SSE.	2	S. by W.	1	Bl. Dr.
2459	July 2	6.10 p. m.	46 23 00	52 45 00	50	49	29.5	88	crs. gy. S.	SSW.	3	S.	1	Bl. Dr.
2460	July 3	4.45 a. m.	45 50 00	54 06 00	50	47	30.0	67	gy. S. Sh.	WSW.	1	WSW.	.50	Sh. Dr.
2461	July 3	6.03 a. m.	45 47 00	54 13 30	54	48	30.0	59	fine S. bk. Sp.	WSW.	1	W.	.50	Bl. Dr.
2462	July 3	7.18 a. m.	45 45 30	54 20 30	52	48	30.0	41	wh. S. bk. Sp.	WSW.	2	W.	.75	Bl. Dr.
2463	July 3	8.30 a. m.	45 44 00	54 27 00	51	50	30.0	45	brk. Sh.	WSW.	2	W.	.75	Sh. Dr.
2464	July 3	10.14 a. m.	45 40 00	54 41 00	52	47	32.0	42	wh. bk. S. brk. Sh.	WSW.	2	W.	.75	Sh. Dr.
2465	July 3	12.15 p. m.	45 35 00	55 01 00	52	48	30.0	67	bk. gy. S.	WSW.	2	S.	.75	Sh. Dr.
2466	July 3	2.40 p. m.	45 29 00	55 24 00	54	53	30.0	67	Co.	SW.	2	SSW.	.75	Sh. Dr.
2467	July 3	5.31 p. m.	45 23 00	55 41 00	56	52	35.8	38	fine wh. S. bk. Sp.	SW.	2	SSW.	.75	Bl. Dr.
2468	July 3	7.45 p. m.	45 11 30	55 51 30	57	52	33.0	42	fine bk. S.	SW.	1	S. by W.	.50	Bl. Dr.
2469	July 4	4.58 p. m.	44 58 37	56 20 45	55	54	40.5	201	gn. M.	SW.	1	ESE.	1	L. B. T.
2470	July 4	7.37 a. m.	44 47 00	56 33 45	56	54	40.2	234	gy. M.	SW.	1	ESE.	1.50	L. B. T.
2471	July 4	10.31 a. m.	44 34 00	56 41 45	56	53	40.4	218	gy. M. S.	S. by E.	3	SW. by W.	1.50	L. B. T.
2472	July 4	4.30 p. m.	44 27 30	57 10 45	59	53	40.0	137	crs. S. G.	S.	3	NW.	.50	Tgls. with grap- nel.
2473	July 4	5.17 p. m.	44 27 15	57 10 00	58	53	40.0	219	crs. S. brk. Sh.	SW.	2	NNW.	.50	Tgls. with grap- nel.

2474	July	4	6.07 p. m.	44 28 30	57 10 45	58	53	40.0	133	hrd	SW.	2	W.	.50	Tgls. with grapnel.
2475	July	4	6.50 p. m.	44 28 30	57 10 00	54	53	.....	232	yl. S. P.	SW.	3	WNW.	.50	Tgls. with grapnel.
2476	July	4	7.21 p. m.	44 28 50	57 10 30	54	53	.....	209	yl. S. P.	SW.	3	N. by W.	1	Tgls. with grapnel.
2477	July	4	8.05 p. m.	44 29 30	57 11 15	54	51	.....	114	crs. wh. S. P.	SW.	3	NNW.	.50	L. B. T.
2478	July	5	5.06 a. m.	44 05 30	57 16 30	53	52	.....	191	fac. yl. S.	WSW.	2	N. by W.	.75	Tgls.
2479	July	5	5.53 a. m.	44 05 45	57 16 45	53	52	.....	129	wh. S. P.	W.	2	NNW.	.75	Tgls.
2480	July	5	6.54 p. m.	44 06 00	57 16 30	54	52	.....	189	wh. S. P.	W.	2	NNW.	.75	Sh. Dr.
2481	July	5	7.56 a. m.	44 07 30	57 16 45	54	52	.....	116	G.	NW.	2	NE.	.75	Sh. Dr.
2482	July	5	8.38 a. m.	44 08 00	57 16 15	54	52	.....	265	br. M.	NW.	2	N. by W.	.50	Sh. Dr.
2483	July	5	10.18 a. m.	44 16 00	57 12 45	58	53	.....	175	crs. G.	NW.	2	NE.	.50	Sh. Dr.
2484	July	5	11.26 a. m.	44 20 00	57 11 15	59	54	.....	204	fac. wh. S.	NW.	2	N. by E.	.50	Sh. Dr.
2485	July	5	12.30 p. m.	44 24 00	57 09 50	58	51	.....	205	fac. wh. S.	NW.	2	N. by W.	.50	Sh. Dr.
2486	July	5	1.38 p. m.	44 26 00	57 11 15	58	51	39.7	190	crs. S. G.	W. by N.	2	NNW.	.75	Sh. Dr.
2487	July	5	3.20 p. m.	44 28 30	57 14 45	57	54	.....	39	gr. S. G.	W. by N.	2	NNE.	1	Sh. Dr.
2488	July	5	5.02 p. m.	44 35 00	57 13 30	56	53	.....	150	yl. S.	NW.	2	ESE.	.50	Sh. Dr.
2489	July	5	7.17 p. m.	44 43 00	57 22 45	55	53	.....	33	wh. S.	NW.	2	ESE.	.75	Sh. Dr.
2490	July	6	4.44 a. m.	45 27 30	58 27 45	50	52	.....	50	G. P.	SSW.	1	WNW.	.50	Sh. Dr.
2491	July	6	6.06 a. m.	45 24 30	58 35 15	51	53	.....	59	wh. S.	SSW.	1	W.	.50	Sh. Dr.
2492	July	6	7.32 a. m.	45 22 00	58 43 45	51	53	33.3	75	wh. S.	SSW.	2	W.	.50	Sh. Dr.
2493	July	6	8.53 a. m.	45 19 00	58 51 15	52	53	32.3	45	wh. S. brk. Sh.	SSW.	2	W.	.50	Sh. Dr.
2494	July	6	10.40 a. m.	45 14 30	59 06 45	54	54	32.5	50	S. G.	SSW.	1	W.	.25	Tgls.
2495	July	6	12.20 p. m.	45 10 00	59 23 45	54	54	32.5	44	hrd	SSW.	1	W.	.25	Tgls.
2496	July	6	1.30 p. m.	45 07 30	59 27 45	58	56	32.2	44	crs. yl. S. P.	S.	1	W.	.75	Sh. Dr.
2497	July	6	3.10 p. m.	45 04 00	59 36 45	58	53	33.0	57	yl. S. brk. Sh. hrd.	S.	1	W.	.50	Sh. Dr.
2498	July	6	5.21 p. m.	44 54 00	59 46 45	63	57	.....	65	fac. br. S.	SSW.	2	W.	1	L. B. T.
2499	July	6	7.01 p. m.	44 46 30	59 55 45	62	57	33.8	130	bk. M.	SSW.	2	W. by S.	1	L. B. T.
2500	July	7	7.10 a. m.	44 28 00	60 15 15	59	58	.....	36	S. G.	S.	2	W.	.50	L. B. T.
2501	July	7	8.02 a. m.	44 27 00	60 20 15	59	58	38.7	26	S. G.	S.	2	W.	.50	L. B. T.
2502	July	7	11.09 a. m.	44 19 00	60 39 15	60	57	34.8	54	yl. S.	S.	1	NNW.	.50	L. B. T.
2503	July	7	1.43 p. m.	44 22 30	61 00 15	63	60	35.0	47	P.	SSW.	1	WNW.	.50	L. B. T.
2504	July	7	4.22 p. m.	44 23 00	61 22 45	65	62	40.6	82	bk. M. G.	SSW.	1	WNW.	.50	Sh. Dr.
2505	July	7	6.46 p. m.	44 23 30	61 44 15	63	63	42.3	93	dk. br. M.	SSW.	1	W. by S.	.50	L. B. T.
2506	July	8	4.15 a. m.	44 28 00	62 10 00	61	61	43.1	127	dk. br. M.	SW.	1	WNW.	.50	L. B. T.
2507	July	8	6.46 a. m.	44 27 30	62 33 30	62	61	41.6	80	hrd	SW.	1	WNW.	.50	Sh. Dr.
2508	July	8	9.13 a. m.	44 28 30	62 56 00	62	61	39.7	72	br. M.	Calm.	0	WNW.	.50	L. B. T.
2509	July	8	11.29 a. m.	44 30 00	63 18 00	64	61	34.8	43	crs. S.	Calm.	0	WNW.	.50	L. B. T.
2510	July	11	10.45 a. m.	44 16 00	63 23 00	58	53	39.2	68	bk. M. brk. Sh.	(*)	.....	(*)	.....	Dredge.
2511	July	11	12.29 p. m.	44 05 30	63 31 30	60	57	41.6	84	br. M.	SW.	1	W. by N.	1	Sh. Dr.
2512	July	11	3.00 p. m.	43 48 00	63 46 30	62	58	42.6	103	br. M.	SW.	2	W.	.50	Sh. Dr.
2513	July	11	5.38 p. m.	43 34 00	63 56 30	62	58	43.6	134	gr. Oz.	SW.	2	SSW.	.50	S. B. T.
2514	July	11	7.16 p. m.	43 28 30	63 57 30	62	59	43.1	126	bk. M.	SW.	2	SSW.	.50	S. B. T.
2515	July	12	4.21 a. m.	43 18 30	63 51 30	60	58	36.3	57	S. G.	N.	2	W.	.50	Sh. Dr.
2516	July	12	5.35 a. m.	43 15 00	64 18 00	60	58	38.3	52	rkv.	NW.	2	WSW.	.50	Sh. Dr.
2517	July	12	9.02 a. m.	43 10 00	64 18 00	60	60	38.3	55	yl. S. bk. Sp.	NNW.	2	W.	.50	Sh. Dr.
2518	July	12	11.16 a. m.	43 05 00	64 40 30	60	59	38.7	60	St.	NNW.	2	W.	.50	Sh. Dr.
2519	July	12	2.11 p. m.	42 51 15	64 49 00	61	60	39.2	53	hrd	NW.	2	WSW.	.25	Sh. Dr.
2520	July	12	3.51 p. m.	42 41 00	64 55 30	60	60	40.6	62	rkv.	WNW.	3	SW. by S.	.25	Sh. Dr.
2521	July	12	5.28 p. m.	42 30 30	65 02 00	61	62	42.1	65	S. G.	WNW.	3	SW. by S.	.25	Sh. Dr.
2522	July	12	7.05 p. m.	42 20 00	65 07 30	62	61	40.7	104	S. G.	NW.	2	SW. by S.	.50	S. B. T.

* Dredge-rope parted, losing ship's dredge and 79 fathoms of wire rope.

Record of dredgings and trawlings of the U. S. Fish Commission steamer Albatross, etc.—Continued.

Serial number.	Date.	Time.	Position.		Temperature.			Depth.	Character of bottom.	Wind.		Drift.		Instrument used.
			Lat. N.	Long. W.	Air.	Surface.	Bottom.			Force.	Direction.	Distance.		
													Miles.	
	1885.		o	"	o	"	o	o	Fath.					
2523	July 11	4.26 a. m.	41 48 30	65 44 30	59	60	41.6	111	S. G. St.	NNW.	2	W.	.25	Sh. Dr.
2524	July 13	5.14 a. m.	41 48 45	65 47 00	60	60	42.6	85	S. G. St.	ENE.	1	WSW.	.25	Sh. Dr.
2525	July 13	5.54 a. m.	41 49 00	65 49 30	62	60	43.6	72	S. G. brk. Sh.	E.	1	E. by N.	.25	Sh. Dr.
2526	July 13	8.49 a. m.	41 40 45	65 46 00	65	66	.....	121	P.	NE.	1	NE. by E.	.50	Sh. Dr.
2527	July 13	1.30 p. m.	41 59 00	65 35 30	66	61	.....	117	S. G.	(^o)		(^o)	(^o)	
2528	July 13	6.29 p. m.	41 47 00	65 37 30	78	69	38.7	677	br. S.	N.	1	WSW.	1	L. B. T.
2529	July 14	5.08 a. m.	41 03 30	66 14 00	60	65	38.7	682	gy. M.	SE.	1	SW. by S.	1	L. B. T.
2530	July 14	9.08 a. m.	40 53 30	66 24 00	70	67	38.4	656	gy. Oz.	SE.	1	SW. by W.	1	L. B. T.
2531	July 14	1.43 p. m.	40 42 00	66 33 00	72	67	38.4	652	gy. M.	SE.	2	SW. by W.	1	L. B. T.
2532	July 14	5.57 p. m.	40 34 30	66 48 00	75	67	38.7	705	gy. M.	SE.	2	WSW.	1	L. B. T.
2533	July 15	4.34 a. m.	40 16 30	67 26 15	72	68	38.7	828	br. Oz.	WNW.	3	NNW.	1	L. B. T.
2534	July 15	9.22 a. m.	40 01 00	67 29 15	66	70	37.8	1,234	gy. Oz.	NW.	3	NE.	1	L. B. T.
2535	July 15	1.03 p. m.	40 03 30	67 27 15	66	70	37.8	1,149	gy. Oz.	WNW.	1	NW.	1.50	L. B. T.
2536	Aug. 7	5.46 a. m.	39 50 15	70 47 30	69	74	.....	157	gn. M. fne. S.	N.	1	WNW.	.50	L. B. T.
2537	Aug. 7	6.53 a. m.	39 56 45	70 50 30	71	74	46.2	156	gn. M. fne. S.	NE.	1	NW. by N.	1	L. B. T.
2538	Aug. 7	7.48 a. m.	39 57 30	70 51 15	71	71	46.2	150	gn. M. fne. S.	NE.	1	N.	1	L. B. T.
2539	Aug. 7	8.57 a. m.	39 59 45	70 53 00	71	74	47.7	135	gn. S.	NE.	1	N.	1	L. B. T.
2540	Aug. 7	11.20 a. m.	39 58 20	70 52 00	72	74	46.7	144	gn. S.	NE.	1	N.	1	L. B. T.
2541	Aug. 7	12.03 p. m.	39 57 45	70 50 30	73	73	47.7	134	gn. S. brk. Sh.	NE.	1	N. by W.	1	L. B. T.
2542	Aug. 7	3.00 p. m.	40 00 15	70 42 20	73	76	47.2	129	S. brk. Sh.	NE.	2	NNW.	1	L. B. T.
2543	Aug. 7	4.27 p. m.	39 58 15	70 42 50	72	76	45.2	186	gn. S. bk. Sp.	NE by E.	2	N.	1	L. B. T.
2544	Aug. 8	6.19 a. m.	40 01 45	70 24 10	70	74	47.7	131	gn. S. bk. Sp.	ENE.	3	N.	.50	L. B. T.
2545	Aug. 8	7.31 a. m.	40 01 00	70 23 45	70	74	46.7	142	gn. S. bk. Sp.	ENE.	4	N.	.50	L. B. T.
2546	Aug. 8	12.47 p. m.	39 53 30	70 17 30	73	72	39.6	538	gn. M.	ENE.	4	NW. by W.	1.50	L. B. T.
2547	Aug. 8	2.25 p. m.	39 54 30	70 20 00	70	76	39.6	390	gn. M.	ENE.	4	N.	1	L. B. T.
2548	Aug. 8	4.37 p. m.	39 56 00	70 14 30	69	76	43.4	200	gn. S. bk. Sp.	E.	4	N.	.50	L. B. T.
2549	Aug. 8	6.43 p. m.	39 51 30	70 17 00	76	76	39.5	571	gn. M.	E.	4	WNW.	1.50	L. B. T.
2550	Aug. 9	5.23 a. m.	39 41 30	70 30 45	73	76	33.5	1,081	br. M.	E. by N.	3	NW.	2	L. B. T.
2551	Aug. 9	8.47 a. m.	39 46 00	70 26 30	77	77	38.7	778	gy. Oz.	ENE.	4	.....	1.50	L. B. T.
2552	Aug. 9	12.33 p. m.	39 47 07	70 25 00	77	77	39.6	721	gy. Oz.	ENE.	4	NNW.	2	L. B. T.
2553	Aug. 9	3.48 p. m.	39 48 00	70 26 00	72	77	39.2	551	gn. M.	ENE.	3	W. by N.	2	L. B. T.
2554	Aug. 9	5.56 p. m.	39 48 30	70 40 20	71	77	39.6	445	gn. M.	ENE.	4	N.	.50	L. B. T.
2555	Aug. 10	6.13 a. m.	39 53 10	71 22 00	72	75	47.7	136	gn. M. S.	E.	1	N.	.50	L. B. T.
2556	Aug. 10	7.39 a. m.	39 52 15	71 22 00	72	75	.....	180	gn. M. fne. S.	E.	2	N.	.50	S. B. T.
2557	Aug. 10	0.00 a. m.	39 53 10	71 31 00	76	75	49.7	154	gn. M.	SE.	2	WNW.	.50	S. B. T.
2558	Aug. 10	12.16 p. m.	39 47 15	71 50 30	76	76	50.3	123	gn. S.	SE.	2	NE.	.50	S. B. T.
2559	Aug. 10	1.11 p. m.	39 48 00	71 48 30	78	76	.....	120	br. M. S.	SE.	1	ENE.	1	S. B. T.

2560	Aug. 10	3.13 p.m.	39 48 10	71 48 40	78 76	50.7	114	br. M. S.	SE	1	NE	.50	L.B.T.
2561	Aug. 10	5.53 p.m.	39 38 00	71 42 00	79 77	39.2	500	gn. M.	SNE	1	N. by E.	1	L.B.T.
2562	Aug. 11	5.53 a.m.	39 15 30	71 25 00	76 77	37.3	1,434	gy. Oz.	S	2	NE, by N.	1	L.B.T.
2563	Aug. 11	10.30 a.m.	39 18 30	71 23 30	82 77	37.4	1,422	gy. Oz.	S	1	N.	1	L.B.T.
2564	Aug. 11	3.22 p.m.	39 22 00	71 23 30	79 78	37.3	1,390	gy. Oz.	SW.	2	NE, by N.	1	L.B.T.
2565	Aug. 28	1.15 p.m.	38 19 20	69 02 30	72 77	36.2	2,069	gy. and br. Oz.	WSW.	2	E.	3	L.B.T.
2566	Aug. 29	5.39 a.m.	37 21 00	68 08 00	75 80	36.4	2,620	gy. Oz.	NW.	4	SW, by S.	2	L.B.T.
2567	Aug. 30	5.27 a.m.	37 45 00	66 56 00	72 78	36.4	2,721	gy. Oz.	NW.	2	(f)		
2568	Aug. 31	9.48 a.m.	39 15 00	68 08 00	72 75	36.9	1,781	gy. Oz.	ESE.	2	N. by E.	1	L.B.T.
2569	Aug. 31	3.00 p.m.	39 26 00	68 03 30	74 75	37.0	1,782	gy. Oz.	ESE.	1	SSW.	1	L.B.T.
2570	Sept. 1	7.12 a.m.	39 51 00	67 05 30	72 72	36.8	1,813	Glob. Oz.	W.	1	N.	1	L.B.T.
2571	Sept. 1	1.37 p.m.	40 03 30	67 09 00	75 72	37.8	1,356	gy. Glob. Oz.	Calm.		N.	1	L.B.T.
2572	Sept. 2	5.00 a.m.	40 29 00	66 04 00	72 72	37.8	1,769	gy. Oz.	WSW.	2	N.	1	L.B.T.
2573	Sept. 2	12.12 p.m.	40 34 18	66 09 00	71 71	37.3	1,742	gy. M. S.	NW.	3	W.	.50	L.B.T.
2574	Sept. 3	7.19 a.m.	41 02 30	65 08 15	65 71	36.7	1,791	yl. Glob. Oz.	NW.	5	WNW.	1	S.B.T.
2575	Sept. 3	1.43 p.m.	41 07 00	65 26 30	64 71	37.1	1,710	gy. Oz.	NW.	3	WNW.	1	(f)
2576	Sept. 4	1.58 p.m.	41 15 30	68 15 00	64 61		18	crs. wh. S. yl. Sp.	NW.	1	W.	.50	L.B.T.
2577	Sept. 4	2.55 p.m.	41 17 00	68 21 00	64 61		32	yl. S. P. hrd.	SW.	2	NW, by W.	.25	S.B.T.
2578	Sept. 4	4.34 p.m.	41 20 30	68 34 30	63 60	54.4	37	fne. wh. S. bk. Sp.	SW.	3	WNW.	.25	S.B.T.
2579	Sept. 4	6.29 p.m.	41 23 00	68 47 00	62 61	42.2	70	fne. dk. gy. S.	S.	2	W.	.25	S.B.T.
2580	Sept. 4	8.10 p.m.	41 25 30	69 01 00	64 62	42.4	83	yl. S. bk. Sp.	SSW.	4	W.	.25	S.B.T.
2581	Sept. 18	8.21 a.m.	39 43 00	71 34 00	66 70		294	gn. M.	SW.	3	S.		L.B.T.
2582	Sept. 18	2.53 p.m.	39 50 00	71 43 00	68 70	47.2	137	gn. M.	SSW.	4	NE.		L.B.T.
2583	Sept. 18	4.18 p.m.	39 50 45	71 43 00	68 70		131	gn. M. S.	SSW.	4	SSW.		L.B.T.
2584	Sept. 19	7.02 a.m.	39 05 30	72 23 20	71 72	39.5	541	gy. M.	SW, by W.	4	S.		L.B.T.
2585	Sept. 19	4.28 p.m.	39 08 30	72 17 00	74 73	39.0	542	dk. gy. M.	W. by S.	1	(c)		(c)
2586	Sept. 20	9.33 a.m.	39 02 40	72 40 00	69 71	40.2	328	dk. gy. M.	NNE.	3	W.	1	S.R.T.
2587	Sept. 20	11.40 a.m.	39 02 00	72 38 00	70 71	39.7	401	dk. gy. M.	NNE.	5	W.	.50	S.B.T.
2588	Sept. 20	3.21 p.m.	39 02 00	72 36 00	70 71	39.5	479	gn. M.	NNE.	6	W.	.50	S.B.T.
2589	Sept. 21	8.37 a.m.	38 55 00	72 50 30	69 70	41.2	231	gn. M. S.	NE, by E.	5	W.	.50	S.B.T.
2590	Sept. 21	10.28 a.m.	38 53 30	72 52 00	68 71	47.6	190	gn. M. S.	ESE.	3	N. by W.	.50	S.R.T.
2591	Sept. 21	12.08 p.m.	38 51 30	72 52 00	67 71		188	gn. M. S.	ESE.	3	N. by W.	.50	S.R.T.
2592	Oct. 17	11.14 a.m.	35 02 20	75 12 00	70 79		120	fne. gy. S.	N.	4	W.	.50	L.B.T.
2593	Oct. 17	12.00 m.	35 01 19	75 12 00	70 79		143	gy. S. bk. Sp.	N.	4	NNE.	1	L.B.T.
2594	Oct. 17	1.25 p.m.	35 01 00	75 12 00	70 78		160	crs. gy. S. brk. Sh.	N.	3	NNE.	1	L.B.T.
2595	Oct. 17	4.26 p.m.	35 08 00	75 05 30	78 78		63	gy. S. brk. Sh.	N.	3	S.	.50	L.B.T.
2596	Oct. 17	5.52 p.m.	35 03 30	75 10 00	74 78		49	gy. S.	N.	3	S.	.50	L.B.T.
2597	Oct. 18	6.07 a.m.	34 57 00	75 43 30	69 76		15	crs. gy. S.	NE.	2	SE.	.25	L.B.T.
2598	Oct. 18	7.18 a.m.	34 51 00	75 40 15	71 77		22	wh. S. brk. Sh.	NE.	2	S. by E.	.25	L.B.T.
2599	Oct. 18	8.25 a.m.	34 45 20	75 38 10	72 77		25	wh. S. brk. Sh.	NE.	2	S. by E.	.25	L.B.T.
2600	Oct. 18	9.39 a.m.	34 39 30	75 35 30	75 78		67	fne. gy. S. bk. Sp. brk. Sh.	NE.	2	S. by E.	.35	L.B.T.
2601	Oct. 18	11.09 a.m.	34 29 15	75 33 30	74 78		107	gy. S. P.	NE.	2	S. by E.	.25	L.B.T.
2602	Oct. 18	12.03 p.m.	34 38 30	75 33 30	71 77		124	S. R.	NE.	2	S. by E.	.25	L.B.T.
2603	Oct. 18	1.33 p.m.	34 38 30	75 33 30	71 77		124	S. R.	NE.	2	S. by E.	.25	L.B.T.
2604	Oct. 18	5.25 p.m.	34 37 30	75 39 45	70 78		34	yl. S. brk. Sh.	ESE.	1	S. by E.	.25	L.B.T.
2605	Oct. 18	6.43 p.m.	34 35 30	75 45 30	75 78		32	wh. S. bk. Sp.	Calm.		S. by E.	.25	L.B.T.
2606	Oct. 18	7.58 p.m.	34 35 15	75 52 00	73 78		25	wh. S. bk. Sp.	WNW.	1	S. by W.	.25	L.B.T.
2607	Oct. 19	6.15 a.m.	34 38 00	76 12 00	71 76		18	fne. gy. S.	ESE.	3	ESE.	.25	L.B.T.
2608	Oct. 19	7.19 a.m.	34 32 00	76 12 00	71 76		22	crs. gy. S. bk. Sp.	S.	1	SSE.	.25	L.B.T.
2609	Oct. 19	8.24 a.m.	34 26 00	76 12 00	74 78		22	fne. gy. S.	S.	2	SSE.	.25	L.B.T.

* Dories lowered with trawl gurnels to drag for coral. Several sprays obtained. † Lost trawl. ‡ Dredge-rope parted, losing large beam-trawl and 321 fathoms of wire rope.

Record of dredgings and trawlings of the U. S. Fish Commission steamer Albatross, etc.—Continued.

Serial number.	Date.	Time.	Position.		Temperature.			Depth.	Character of bottom.	Wind.		Drift.		Instrument used.
			Lat. N.	Long. W.	Air.	Surface.	Bottom.			Direction.	Force.	Direction.	Distance.	
			° ' "	° ' "	°	°	°	<i>Fath.</i>				<i>Miles.</i>		
2610	Oct. 19	9.32 a. m.	34 20 00	76 12 00	74	75	.....	22	wh. S. bk. Sp. brk. Sh.	S.	3	SSE.	.25	L. B. T.
2611	Oct. 19	10.35 a. m.	34 15 00	76 11 30	76	75	.....	31	bk. S. brk. Sh.	ESE.	3	SSW.	.25	L. B. T.
2612	Oct. 19	11.49 a. m.	34 11 00	76 10 30	77	78	.....	52	crs. wh. S. brk. Sh.	ESE.	3	NE. by N.	.25	L. B. T.
2613	Oct. 19	1.45 p. m.	34 09 00	76 02 00	77	78	.....	168	gy. S. bk. Sp.	SSE.	2	NE.	.50	L. B. T.
2614	Oct. 19	3.00 p. m.	34 09 00	76 02 00	77	78	.....	168	gy. S. bk. Sp.	SSE.	2	NE.	.50	L. B. T.
2615	Oct. 20	6.17 a. m.	33 45 00	77 25 00	76	75	.....	18	gy. S.	SSE.	3	SSE.	.25	Dredge.
2616	Oct. 20	7.20 a. m.	33 42 45	77 31 00	76	75	.....	17	S. P.	SSE.	3	SSE.	.25	Dredge.
2617	Oct. 20	10.00 a. m.	33 37 30	77 36 30	77	75	.....	14	crs. yl. S. brk. Sh.	SE.	3	E.	.25	Dredge.
2618	Oct. 20	10.55 a. m.	33 37 15	77 35 30	76	74	.....	17	crs. yl. S. brk. Sh.	SE. by S.	3	E.	.25	S. B. T.
2619	Oct. 20	11.19 a. m.	33 38 00	77 36 00	76	74	.....	15	crs. yl. S. brk. Sp. rot. Co.	SE.	3	SE.	.25	Dredge.
2620	Oct. 20	12.13 p. m.	33 37 45	77 36 30	78	75	.....	15	gy. S. rot. Co.	SE. by S.	3	ESE.	.25	S. B. T.
2621	Oct. 20	1.54 p. m.	33 34 00	77 42 00	76	75	.....	9	gy. S. brk. Co.	SE. by S.	3	ESE.	.25	S. B. T.
2622	Oct. 20	3.48 p. m.	33 38 00	77 36 00	76	74	.....	15	gy. S. brk. Co.	SE. by S.	3	ESE.	.25	S. B. T.
2623	Oct. 20	4.00 p. m.	33 38 00	77 36 00	76	74	.....	15	gy. S. brk. Co.	SE. by S.	3	ESE.	.25	S. B. T.
2624	Oct. 21	6.27 a. m.	32 36 00	77 29 15	71	78	.....	258	gy. S. bk. Sp.	WSW.	5	SSW.	.50	L. B. T.
2625	Oct. 21	7.50 a. m.	32 35 00	77 30 00	70	76	.....	247	gy. S. bk. Sp.	NE.	5	S. by E.	.50	L. B. T.
2626	Oct. 21	10.50 a. m.	32 27 30	77 20 30	69	76	.....	353	fine gy. S.	SSW.	2	SE. by S.	.50	L. B. T.
2627	Oct. 21	2.06 p. m.	32 21 30	77 07 40	69	77	.....	437	yl. M.	SSW.	4	E.	.50	L. B. T.
2628	Oct. 21	3.51 p. m.	32 24 00	76 55 30	70	77	.....	528	yl. M.	SSW.	2	W.	.50	L. B. T.

In the preceding and following tables the abbreviations for the characters of the bottom and the instrument used are from the following code:

Abbr- viation.	Meaning.	Abbr- viation.	Meaning.	Abbr- viation.	Meaning.	Abbr- viation.	Meaning.	Abbr- viation.	Meaning.	Abbr- viation.	Meaning.
C.....	Clay.	P.....	Pebbles.	lge.....	large.	stf.....	stiff.	br.....	brown.	L. B. T.	Large beam-trawl.
Co.....	Coral.	Oz.....	Oozo.	rky.....	rocky.	slat.....	slate color.	choc....	chocolate color.	S. B. T.	Small beam-trawl.
St.....	Stones.	R.....	Rock.	rot.....	rotten.	yl.....	yellow.	gn.....	green.	Bl. Dr..	Blako dredge (deep-sea dredge).
G.....	Gravel.	Sh.....	Shells.	stk.....	stoney.	bk.....	black.	lt.....	light.	Sh. Dr..	Ship's dredge (mud-bag).
S.....	Sand.	Glob...	Globigerina.	crs.....	coarse.	bu.....	blue.	dk.....	dark.	Tgls....	Tangles.
For.....	Foraminifera.	Sp.....	Specks.	hrd.....	hard.	gy.....	gray.				
Pter.....	Pteropods.	brk.....	broken.	sml.....	small.	rd.....	red.				
M.....	Mud.	fine.....	fine.	sft.....	soft.	wh.....	white.				

Record of dredgings and trawlings of the U. S. Fish Commission steamer Albatross, from January 1 to October 26, 1886.

Serial number.	Date.	Hour.	Position.		Temperature.			Depth.	Character of bottom.	Wind.		Drift.		Instrument used.		
			Lat. N.	Long. W.	Air.	Surface.	Bottom.			Direction.	Force.	Direction.	Distance.			
															Miles.	
	1886.		o'	"	o'	"	o	o	Fath.							
2629	Mar. 8	12.07 p. m.	23 48	40	75 10	40	73	73	38.4	1,109	Co. S.	N.	1	S. by W. 3/4 W.	2 1/2	L. B. T.
2630	Mar. 12	2.10 p. m.	24 39	45	76 11	30	72	72	61.8	244	Co. S.	SE.	4	ESE.	4	Tgls.
2631	Mar. 12	3.03 p. m.	24 39	30	76 11	00	73	72	58.8	280	Co. S.	SE.	4	NNW.	1/2	Tgls.
2632	Mar. 13	2.29 p. m.	24 30	43	76 23	45	75	73	39.4	791	Co. S. gy. Oz.	SSE.	4	E. by N.	2	L. B. T.
2633	Apr. 7	8.05 a. m.	25 11	00	82 19	50	74	76	60.8	208	Co. S.	NE.	3			Tgls.
2634	Apr. 7	8.48 a. m.	23 10	45	82 18	45	74	76		162	br. S. brk. Sh.	NE.	3			Tgls.
2635	Apr. 7	10.05 a. m.	23 10	55	82 18	55	71	73	62.8	208	dead Co. Sh.	N. by E.	3			Tgls.
2636	Apr. 7	10.52 a. m.	23 10	45	82 18	45	71	73	62.6	191	dead Co. Sh.	N. by E.	3			Tgls.
2637	Apr. 7	11.32 a. m.	23 10	45	82 19	00	70	75	65.8	143	dead Co. Sh.	N. by E.	3			Tgls.
2638	Apr. 7	2.00 p. m.	23 17	45	82 18	00	69	76	39.6	1,025	yl. S.	N.	3			L. B. T.
2639	Apr. 9	6.05 a. m.	25 04	50	80 15	10	70	73		56	Co. S.	NE.	4	NE. by N.	1/2	Bl. Dr.
2640	Apr. 9	6.33 a. m.	25 05	00	80 15	00	70	73		58	Co. S.	NE.	4	NE. by N.	1/2	L. B. T.
2641	Apr. 9	8.14 a. m.	25 11	30	80 10	00	70	74	69.2	60	Co. S.	NE.	4	NE. by N.	1/2	L. B. T.
2642	Apr. 9	10.41 a. m.	25 20	30	79 58	00	71	74	42.6	217	gy. S.	NE. by E.	4	NE. by N.	1	L. B. T.
2643	Apr. 9	11.54 a. m.	25 25	00	79 55	15	71	74	43.1	211	gy. S.	NE. by E.	4	NE. by N.	1 1/2	L. B. T.
2644	Apr. 9	2.01 p. m.	25 40	00	80 00	00	73	73	43.4	193	gy. S.	NNE.	3	N. 3/4 W.	1/2	Bl. Dr.
2645	Apr. 9	3.15 p. m.	25 46	30	80 02	00	70	75	43.4	157	gn. S.	NNE.	3			Bl. Dr.
2646	Apr. 9	4.14 p. m.	25 47	00	80 05	00	71	75		85	gy. S. For.	NNE.	3	N.	1/2	Bl. Dr.

Record of dredgings and trawlings of the U. S. Fish Commission steamer *Albatross*, etc.—Continued.

Serial number.	Date.	Hour.	Position.		Temperatures.			Depth.	Character of bottom.	Wind.		Drift.		Instrument used.
			Lat. N.	Long. W.	Air.	Surface.	Bottom.			Direction.	Force.	Direction.	Distance.	
	1886.		C	H	O	H	O	Fath.				Miles.		
2747	Apr. 9	4.49 p. m.	25 48 00	80 04 00	71	75	.....	85	gr. S. For.	NNE.	3	N.	1/2	Bl. Dr.
2648	Apr. 9	5.17 p. m.	25 53 00	80 03 30	71	73	.....	84	gn. M.	NNE.	3	N.	1/2	Bl. Dr.
2649	Apr. 12	5.25 p. m.	23 34 00	76 33 00	73	74	74.2	36	Co. S.	SE.	6		1/2	Tgls.
2650	Apr. 12	6.01 p. m.	23 34 30	76 34 00	73	74	57.8	369	Co. S. wh. Oz.	SE.	6	SE. by E.	2	Tgls.
2651	Apr. 13	9.46 a. m.	24 02 00	77 12 45	75	74	73.4	97	wh. Oz.	E.	4		1/2	Tgls.
2652	Apr. 13	10.06 a. m.	24 12 30	77 13 00	75	74	67.1	140	wh. M.	E.	4		1/2	Bl. Dr.
2653	Apr. 14	11.35 a. m.	24 52 30	77 39 00	78	74	39.1	1,000	lt. br. Oz.	N.	3	NW. by W.	3	L. B. T.
2654	May 2	8.29 a. m.	27 57 30	77 57 30	76	73	30.3	660	yl. Oz. bk. Sp.	WNW.	2	NW. by W.	1	L. B. T.
2655	May 2	5.49 p. m.	27 23 00	78 07 30	73	76	47.5	336	gy. S.	NW.	3	NW. by W.	1	L. B. T.
2656	May 3	5.24 a. m.	27 58 30	78 21 00	69	71	41.2	572	For.	N.	3	WNW.	1 1/2	L. B. T.
2657	May 3	8.35 a. m.	28 08 00	78 28 00	71	73	44.7	540	For.	N.	3	WNW.	1 1/2	L. B. T.
2658	May 3	12.20 p. m.	28 21 00	78 33 00	72	73	44.7	514	For. brk. Sh.	N. by E.	3	WNW. 1/2 W.	1 1/2	L. B. T.
2659	May 3	3.35 p. m.	28 32 00	78 42 00	73	74	45.2	509	br. For.	N.	3	NW.	1	L. B. T.
2660	May 3	6.47 p. m.	28 40 00	78 46 00	72	74	45.7	504	yl. For.	NNE.	3	NW.	1 1/2	L. B. T.
2661	May 4	5.29 a. m.	29 16 30	79 36 30	70	75	45.5	438	gy. S. bk. Sp.	ENE.	4	NNW.	1	L. B. T.
2662	May 4	8.19 a. m.	29 24 30	79 43 00	72	75	43.7	434	gy. S. brk. Sh.	ENE.	4	NNW.	1 1/2	L. B. T.
2663	May 4	10.48 a. m.	29 39 00	79 49 00	72	77	42.7	421	br. S.	E.	4	NNW.	1 1/2	L. B. T.
2664	May 4	2.26 p. m.	29 41 00	79 55 00	74	75	42.7	373	Co. S.	E.	2	N.	1	L. B. T.
2665	May 4	5.16 p. m.	29 47 00	80 05 45	75	76	45.2	263	fine gy. S.	ESE.	3	SSE.	1 1/2	L. B. T.
2666	May 5	5.26 a. m.	30 47 30	79 49 00	70	74	48.3	270	gy. S.	E.	1	NNE.	1 1/2	L. B. T.
2667	May 5	7.22 a. m.	30 53 00	79 42 30	75	75	48.7	273	gy. S. bk. Sp.	E.	2	NNE.	1 1/2	L. B. T.
2668	May 5	9.37 a. m.	30 58 30	79 38 30	73	76	46.3	294	gy. S. dead Co.	E.	2	NNE.	1 1/2	L. B. T.
2669	May 5	11.23 a. m.	31 09 00	79 33 30	73	77	43.7	332	gy. S. dead Co.	E.	2	NNE.	1 1/2	L. B. T.
2670	May 5	1.32 p. m.	31 20 00	79 22 00	73	74	44.5	280	gy. S. dead Co.	E.	1		1 1/2	L. B. T.
2671	May 5	2.45 p. m.	31 20 00	79 22 00	76	77	.....	230	gy. S. dead Co.	E. by S.	1		1 1/2	Tgls.
2672	May 5	5.55 p. m.	31 31 00	79 05 00	73	77	54.3	277	crs. br. S.	SE.	1	NE. by E.	1 1/2	Tgls.
2673	May 6	5.17 a. m.	32 26 00	77 43 30	72	77	51.6	240	Co. gy. S. bk. Sp.	SW.	1	NE. by E.	1 1/2	L. B. T.
2674	May 6	8.45 a. m.	32 32 00	77 17 00	72	76	46.0	316	gy. S. bk. Sp. Sh.	SW.	2	E.	1 1/2	L. B. T.
2675	May 6	10.00 a. m.	32 32 30	77 15 00	73	75	45.8	327	gy. S. bk. Sp. Sh.	SW.	2	E.	1	L. B. T.
2676	May 6	12.19 p. m.	32 39 00	77 01 00	73	77	45.8	407	gn. Oz. gy. S.	SW.	2	E.	1	L. B. T.
2677	May 6	2.49 p. m.	32 39 00	76 50 30	75	78	39.3	478	gn. M.	SW.	2	E.	1 1/2	L. B. T.
2678	May 6	5.42 p. m.	32 40 00	76 40 30	74	77	38.7	731	lt. gy. Oz.	SSW.	3	SSW.	1	L. B. T.
2679	May 6	8.14 p. m.	32 40 00	76 40 50	72	75	38.6	782	lt. gy. Oz.	SSW.	3	SW.	1 1/2	L. B. T.
2680	July 16	9.27 a. m.	39 50 00	70 26 00	75	73	.....	555	No specimen	S. by E.	5	SSE. 1/2 E.	1 1/2	L. B. T.
2681	July 16	12.55 p. m.	39 43 00	70 29 00	75	73	38.5	990	gn. M.	S.	4	SE.	1	L. B. T.
2682	July 16	5.28 p. m.	39 38 00	70 22 00	75	73	38.2	1,004	gn. M. S.	WSW.	3	SE. by E.	1 1/2	L. B. T.
2683	July 17	5.04 a. m.	39 33 00	70 30 00	73	71	38.7	887	br. Oz.	SSW.	2	SE. by S.	1 1/2	L. B. T.
2684	July 17	8.18 a. m.	39 35 00	70 54 00	73	72	38.7	1,106	br. C. bk. Sp.	SSW.	1	SSE.	1 1/2	L. B. T.

2683	July 17	1.59 p.m.	39 33 00	71 02 50	71 73 37.0	1,137	gn. M. wh. Sp.	Calm.	0	S.	14	L.B.T.
2686	July 18	4 31 a.m.	39 52 00	71 20 45		226	gn. M.	SW.	2	W.	14	L.B.T.
2687	July 18	6.12 a.m.	39 46 00	71 19 00		326	gn. M.	SW.	1	W.	14	L.B.T.
2688	July 18	8.17 a.m.	39 42 00	71 12 60		614	gn. M.	SW.	1	SW. by W.	14	L.B.T.
2689	July 18	10.18 a.m.	39 42 00	71 15 30		525	gn. M.	SSW.	1	NW.	14	L.B.T.
2690	July 18	1.12 p.m.	39 39 00	71 11 00		643	gn. M.	Calm.	0	SW.	14	L.B.T.
2691	July 18	5.18 p.m.	39 37 00	71 08 00		835	lt. gn. M.	SSW.	2	NW.	14	L.B.T.
2692	Aug. 11	10.49 a.m.	46 50 00	44 35 00		73	gn. S. sml. bk. St.	NW.	3	W. by S.	14	L.B.T.
2693	Aug. 11	12.09 p.m.	46 53 00	44 39 30		78	id. and gn. S. bk. and gy. P.	NW.	2	W. by S.	14	L.B.T.
2694	Aug. 11	1.55 p.m.	46 52 30	44 54 30		86	gy. S. bk. Sp.	WSW.	3	WNW.	14	L.B.T.
2695	Aug. 11	3.44 p.m.	46 51 30	45 06 30		105	gy. S. bk. Sp. P.	W.	3	NE.	14	L.B.T.
2696	Aug. 11	4.33 p.m.	46 53 30	45 05 30		98	gy. S. bk. Sp.	W.	3	NE.	14	L.B.T.
2697	Aug. 12	12.09 p.m.	47 40 00	47 35 30		206	gn. M. bk. Sp.	SSW.	2	SW. by S.	14	L.B.T.
2698	Aug. 22	8.10 a.m.	45 07 00	55 09 00		90	gy. S. bk. Sp. P.	SSW.	2	S. by W.	14	L.B.T.
2699	Aug. 22	10.53 a.m.	45 01 00	55 23 10		72	Co	WSW.	2	E. 1/2 S.	14	L.B.T.
2700	Aug. 22	1.29 p.m.	44 56 20	55 48 00		59	gy. S. bk. Sp.	SW.	2	E. 1/2 S.	14	L.B.T.
2701	Aug. 22	2.02 p.m.	44 56 00	55 40 30		75	gy. S. bk. Sp.	S.	2	E. 1/2 S.	14	L.B.T.
2702	Aug. 22	5.23 p.m.	44 56 00	56 19 30		215	gn. M.	S.	3	W.	14	L.B.T.
2703	Aug. 23	11.30 a.m.	44 01 00	59 01 30		140	gy. S. bk. Sp.	S. by W.	4	WSW.	14	L.B.T.
2704	Aug. 23	4.52 p.m.	43 32 00	59 22 00		110	gy. S. bk. Sp.	SW. by S.	6	WNW. 1/2 W.	14	L.B.T.
2705	Aug. 24	9.11 a.m.	42 47 00	61 01 00		1,255	lt. br. oz.	N.	1	N. by E. 1/2 E.	24	L.B.T.
2706	Aug. 27	9.33 a.m.	41 28 30	65 35 30		1,168	gy. Oz. For.	SE.	2	SW.	14	L.B.T.
2707	Aug. 27	2.21 p.m.	41 24 00	65 48 00		1,099	br. Oz. For.	WSW.	3	SW. by W.	14	L.B.T.
2708	Aug. 28	7.09 a.m.	40 07 00	67 49 00		969	br. Oz.	SW. by W.	4	W.	14	L.B.T.
2709	Aug. 28	9.56 a.m.	40 07 00	67 54 00		866	br. M.	WSW.	2	WNW.	14	L.B.T.
2710	Aug. 28	2.45 p.m.	40 06 00	68 01 30		984	gn. M.	SSW.	3		14	L.B.T.
2711	Sept. 16	3.40 p.m.	38 59 00	70 07 00		1,341	Glob. Oz.	SE.	4	W.	14	L.B.T.
2712	Sept. 17	5.49 a.m.	38 20 00	70 05 30		1,897	br. Oz.	Calm.	0	W.	14	L.B.T.
2713	Sept. 17	11.20 a.m.	38 20 00	70 03 30		1,850	br. Oz.	Calm.	0	W.	14	L.B.T.
2714	Sept. 17	4.58 p.m.	38 22 00	70 17 30		1,825	br. Oz.	WSW.	1	SW.	14	L.B.T.
2715	Sept. 18	5.33 a.m.	38 29 30	70 51 30		1,753	br. Oz.	WSW.	2	WNW.	14	L.B.T.
2716	Sept. 18	11.04 a.m.	38 29 30	70 57 00		1,631	br. Oz. For.	NW.	2	NW.	14	L.B.T.
2717	Sept. 18	3.54 p.m.	38 24 00	71 13 00		1,615	br. Oz.	NE.	3	NW.	14	L.B.T.
2718	Sept. 19	5.38 a.m.	38 24 00	71 53 00		1,569	br. Oz.	E.	4	NNW.	14	L.B.T.
2719	Sept. 19	11.13 a.m.	38 29 00	71 58 00		1,536	gy. Oz.	ESE.	3	NW.	14	L.B.T.
2720	Sept. 19	3.54 p.m.	38 36 30	72 12 00		1,509	gy. Oz.	S.	2	NE. by N.	14	L.B.T.
2721	Sept. 20	6.02 a.m.	38 56 00	72 11 30		813	gy. Oz.	W. by N.	4	NW.	14	L.B.T.
2722	Sept. 20	9.33 a.m.	39 13 00	72 01 00		504	gn. M.	N. by W.	6	WSW.	14	L.B.T.
2723	Oct. 23	5.42 a.m.	36 47 00	73 02 30		1,685	gy. Oz. For.	N. by W.	2	WSW. 1/2 W.	14	L.B.T.
2724	Oct. 21	12.02 p.m.	36 47 00	73 25 00		1,641	gy. Oz. For.	NNW.	2	WSW.	14	L.B.T.
2725	Oct. 24	5.54 a.m.	36 34 00	73 48 00		1,374	gy. Oz. For.	NE.	5	W.	14	L.B.T.
2726	Oct. 24	11.10 a.m.	36 34 00	73 51 30		1,253	gy. Oz.	NE.	4	W. by S.	14	L.B.T.
2727	Oct. 24	4.03 p.m.	36 35 00	74 03 30		1,249	gy. Oz.	ENE.	4	W.	14	L.B.T.
2728	Oct. 25	5.45 a.m.	36 30 00	74 33 00		859	gy. Oz.	NE. by E.	3	NW. 1/2 N.	14	L.B.T.
2729	Oct. 25	9.10 a.m.	36 36 00	74 32 00		679	dk. gn. M.	ENE.	2	NNE.	14	L.B.T.
2730	Oct. 25	12.28 p.m.	36 42 00	74 30 00		727	gn. M. For.	E.	2	N.	14	L.B.T.
2731	Oct. 25	4.12 p.m.	36 45 00	74 28 00		781	gy. Oz.	Calm.	0	N. by E.	14	L.B.T.
2732	Oct. 26	6.09 a.m.	37 27 00	73 33 00		1,152	dk. gn. M.	SE.	1	WSW.	14	L.B.T.
2733	Oct. 26	10.19 a.m.	37 26 00	73 43 00		944	gn. M.	SE.	2	SW. by W.	14	L.B.T.
2734	Oct. 26	1.52 p.m.	37 23 00	73 53 00		811	sft. gn. M.	SE.	2	WSW.	14	L.B.T.
2735	Oct. 26	4.35 p.m.	37 23 00	74 02 00		811	sft. gn. M.	SE.	2	SW.	14	L.B.T.

Record of dredgings and travels of the U. S. Fish Commission steamer Albatross, from April 8 to September 19, 1887.

Serial number.	Date.	Hour.	Position.		Temperature.			Depth.	Character of bottom.	Wind.		Drift.		Instrument used.
			Lat. N.	Long. W.	Air.	Surface.	Bottom.			Direction.	Force.	Direction.	Distance.	
	1887.		o	o	o	o	o	Fath.						
2736	Apr. 8	11.00 a. m.	Hampton Roads.					11	No specimen					S. B. T.
2737	Apr. 8	11.20 a. m.						12	No specimen					S. B. T.
2738	Sept. 16	3.14 p. m.	36 52 00	74 23 00	70	70	37.9	938	br. Oz.	N. by E.	5	NW. by W.	1	L. B. T.
2739	Sept. 17	8.00 a. m.	37 34 30	73 58 00	65	69	38.1	811	gy. M.	NNE.	4	NNW.	1	L. B. T.
2740	Sept. 17	11.50 a. m.	37 40 00	73 50 00	65	70	37.9	1,011	br. Oz.	NNE.	4	NW. by N.	1 1/2	L. B. T.
2741	Sept. 17	3.30 p. m.	37 44 00	73 57 00	64	70	37.9	862	gn. M.	NE. by N.	3	N.	1	L. B. T.
2742	Sept. 17	6.23 p. m.	37 46 30	73 56 30	64	69	37.9	865	gn. M.	NE. by N.	3	NW. by N.	1	L. B. T.
2743	Sept. 18	8.06 a. m.	38 31 00	73 53 00	62	67	37.7	1,155	gy. Oz.	E. by S.	2	NW.	1	L. B. T.
2744	Sept. 18	11.48 a. m.	38 35 00	73 05 15	65	69	38.9	554	bu. M.	E. by S.	3	N. by E.	1	L. B. T.
2745	Sept. 18	4.20 p. m.	38 42 00	73 05 30	67	68	41.7	224	gn. M.	SE. by E.	2	NNE.	1	L. B. T.
2746	Sept. 18	5.14 p. m.	38 46 00	73 05 45	65	68	53.3	162	gn. S.	SE. by E.	2		1	L. B. T.
2747	Sept. 19	6.00 a. m.	39 27 00	71 15 00	67	67	37.4	1,276	bu. M.	SW. by W.	1	S.	1	L. B. T.
2748	Sept. 19	10.53 a. m.	39 31 00	71 14 30	72	68	37.7	1,163	gr. M. For	Calm.		W.	1	L. B. T.
2749	Sept. 19	3.30 p. m.	39 42 00	71 17 00	69	67	38.7	765	gn. Oz.	S.	2			L. B. T.