

DREDGING STATIONS OF THE CHALLENGER IN THE ATLANTIC OCEAN, 1872 TO 1876.

The British steamer *Challenger* left England for her scientific trip around the world in December, 1872, and returned to England in May, 1876. She was under the command of Captain Nares, and the scientific operations were under the charge of Dr. (afterward Sir) Wyville Thompson.

The serial numbers in the following table are those of the stations at which serial temperatures, trawlings, and dredgings were obtained, not those of the soundings, which had a separate numbering, running up to 504. This table includes only the stations in the Atlantic, and of these only those at which dredgings and trawlings were made are given, except from No. 22 to No. 59 (including all stations in North American waters). For these all stations, which includes also *all* the soundings made, are given, and they are placed upon the accompanying charts. In the ninth column, D. signifies dredging; T. trawling.

Dredging stations of Challenger, 1872 to 1876.

Serial Number.	Date.	Latitude.		Longitude.	Depth.	Nature of bottom.	Temperatures.		Instrument used.	Locality.
		North.	West.	Fath.			Surface.	Bottom.		
I	1872. Dec. 30	41° 58' 00"	9° 42' 00"	1,125	Blue mud				D.	Cape Finisterre to Gibraltar.
Ic	1873. Jan. 1	40° 23' 00"	9° 43' 00"	650	Hard ground	57			D.	Do.
Id	Jan. 2	39° 55' 00"	10° 05' 00"	1,375	Blue mud	57			D.	Do.
Ii	Jan. 13	38° 10' 00"	9° 14' 00"	370	Green mud	57			D.	Do.
Iia	Jan. 13	38° 05' 00"	9° 30' 00"	1,270	Blue mud	57			D.	Do.
Iik	Jan. 15	36° 58' 50"	9° 14' 20"	525	do	60	54		D.	Do.
III	Jan. 15	37° 02' 00"	9° 14' 00"	600	do	60			D.	Do.
IV	Jan. 16	36° 25' 00"	8° 12' 00"	600	do	60			D.	Do.
V	Jan. 28	35° 47' 00"	8° 23' 00"	1,090	Globigerina, ooze	61	38.5		D&T	Gibraltar to Madeira.
VI	Jan. 30	36° 23' 00"	11° 18' 00"	1,525	do	58	36		T.	Do.
VII	Jan. 31	35° 20' 00"	13° 04' 00"	2,125	do	60	37		T.	Do.
VII f	Feb. 2	32° 27' 00"	16° 40' 20"	1,500	Volcanic mud	63			T.	Do.
VII p	Feb. 10	28° 35' 00"	16° 05' 00"	78	Volcanic sand	64			D.	Canary Islands.
VIII	Feb. 12	28° 03' 15"	17° 27' 00"	620	Volcanic mud	64.5			D.	Do.
VIII 1	Feb. 15	27° 24' 00"	16° 55' 00"	1,890	Globigerina, ooze	64.5	36.8		D.	Teneriffe to Sombrero Island.
2	Feb. 17	25° 52' 00"	10° 22' 00"	1,045	do	67	30.8		D.	Do.
3	Feb. 18	25° 45' 00"	20° 14' 00"	1,525	Hard ground	65	37		D.	Do.
4	Feb. 21	24° 20' 00"	24° 28' 00"	2,740	Red clay	68	37		D.	Do.
5	Feb. 25	23° 12' 00"	32° 56' 00"	2,700	do	67	37		D.	Do.
6	Feb. 25	23° 12' 00"	35° 11' 00"	1,150	do	60	36.8		D.	Do.
9	Feb. 26	23° 23' 00"	35° 11' 00"	2,575	Globigerina, ooze	72.2	36.5		D.	Do.
11	Mar. 1	22° 45' 00"	40° 37' 00"	2,025	do	73	36.9		D.	Do.
12	Mar. 3	21° 57' 00"	43° 29' 00"	1,900	do	73	36.8		D.	Do.
13	Mar. 4	21° 38' 00"	44° 30' 00"	1,650	do	74	36.8		T.	Do.
14	Mar. 5	21° 01' 00"	46° 29' 00"	1,650	do	74	36.2		D.	Do.
16	Mar. 7	20° 39' 00"	50° 33' 00"	2,435	Red clay	74	36.2		D.	Do.
18	Mar. 10	19° 41' 00"	55° 13' 00"	2,650	do	75	36		D.	Do.
20	Mar. 12	18° 56' 00"	59° 35' 00"	2,975	do	76	36		D.	Do.
22	Mar. 14	18° 40' 00"	62° 56' 00"	1,420	Pteropod, ooze	76	38.4		T.	Do.
23	Mar. 14	18° 40' 00"	62° 28' 00"	1,450	do	76			D.	Off Sombrero.
23a	Mar. 15	18° 24' 00"	63° 31' 15"	460	do	76			D.	Do.
23b	Mar. 15	18° 26' 00"	63° 35' 00"	590	do	70			D.	Do.
24	Mar. 15	18° 28' 00"	63° 35' 00"	590	do	76			D.	Do.
24	Mar. 25	18° 38' 30"	65° 05' 30"	390	do	76			D.	St. Thomas to Bermuda.
24a	Mar. 25	18° 43' 30"	65° 05' 00"	625	do	76			D.	Do.
25	Mar. 26	19° 41' 00"	65° 07' 00"	3,875	Red clay	70			D.	Do.
26	Mar. 27	21° 26' 00"	65° 16' 00"	2,800	do	70			D.	Do.
27	Mar. 28	22° 49' 00"	65° 10' 00"	2,060	do	75.5	30.2		D.	Do.

Dredging stations of Challenger, etc.—Continued.

Serial Number.	Date.	Latitude.		Longitude.	Depth.	Nature of bottom.	Tempera- tures.		Instrument used.	Locality.
		North.	West.				Surface.			
28	1873. Mar. 20	24 39 00	65 25 00	Fath. 2,650	Red clay	75	36.3	D.	St. Thomas to Ber- muda.	
20	Mar. 31	27 49 00	64 59 00	2,700	do	72	36.4	D.	Do.	
31	Apr. 1	29 05 00	65 01 00	2,600	do	72	36.5	Do.	Do.	
31	Apr. 3	31 24 00	65 00 00	2,475	Globigerina, ooze	69.5	36.5	Do.	Do.	
32	Apr. 3	31 49 00	64 55 00	2,250	do	68	36.7	Do.	Do.	
32a	Apr. 3	32 01 00	64 51 00	1,820	do	68		Do.	Do.	
32b	Apr. 3	32 17 00	64 52 00	670	Coral, mud	68		Do.	Do.	
32c	Apr. 4	32 17 30	64 39 05	780	do	67		Do.	Off Bermuda.	
32d	Apr. 4	32 19 00	64 40 00	380	do	67		Do.	Do.	
32e	Apr. 4	32 19 30	64 40 35	120	do	67.5		D.	Do.	
32f	Apr. 4	32 20 49	64 38 15	125	Hard ground	67.5		Do.	Do.	
32g	Apr. 4	32 21 25	64 37 15	265	do	68		D.	Do.	
53	Apr. 4	32 21 30	64 35 55	435	Coral, mud	68		D.	Do.	
33a	Apr. 21	32 31 10	64 42 55	175	Sand	67.2		D.	Do.	
33b	Apr. 21	32 32 30	64 46 00	610	Mud	67.2		Do.	Do.	
84	Apr. 21	32 33 55	64 52 18"	1,370	do	67.2		Do.	Do.	
35a	Apr. 22	32 33 00	65 06 00	2,450	Globigerina, ooze	67.8	36.5	Do.	Do.	
35b	Apr. 22	32 26 00	65 09 00	2,100	do	68	36.5	Do.	Do.	
35c	Apr. 22	32 15 00	65 08 00	1,950	do	68		Do.	Do.	
36	Apr. 22	32 07 25	65 04 00	30	Coral	67.5		D.	Do.	
37	Apr. 24	32 18 00	65 38 08	2,650	Globigerina, ooze	68	36.5	D.	Between Bermuda and Halifax.	
38	Apr. 25	33 03 00	66 32 00	2,600	do	70	36.5	Do.	Do.	
39	Apr. 27	34 03 00	67 32 00	2,850	Red clay	65	36.5	Do.	Do.	
40	Apr. 28	34 51 00	68 30 00	2,675	Blue mud	69.5		D.	Do.	
41	Apr. 29	36 05 00	69 54 00	(2,500)	do	66		Do.	Do.	
42	Apr. 30	35 58 00	70 35 00	2,425	Blue mud	65	36.8	Do.	Do.	
43	May 1	36 23 00	71 40 00	(2,680)	do	76	36.8	Do.	Do.	
44	May 2	37 25 00	71 40 00	1,700	Blue mud	58.6	36.2	D.	Do.	
45	May 3	38 34 00	72 10 00	1,240	do	49.5	37.2	D.	Do.	
46	May 6	40 17 00	66 48 00	1,350	do	40	37.2	D.	Do.	
47	May 7	41 14 00	65 45 00	1,340	do	42		D.	Do.	
48	May 8	43 04 00	64 05 00	51	Rock	38		D.	Do.	
49	May 20	43 03 00	63 39 00	85	Gravel, stones	40.5	35	D.	Do.	
50	May 21	42 08 00	63 39 00	1,250	Blue mud	45	38	D.	Do.	
51	May 22	41 19 00	63 12 00	2,020	do	59	36	Do.	Do.	
52	May 23	39 44 00	63 22 00	2,800	do	67.2	36.2	Do.	Do.	
52a	May 24	38 16 00	63 17 00		do	73		Do.	Do.	
53	May 26	36 30 00	63 40 00	2,650	Red clay	73	36.3	Do.	Do.	
54	May 27	34 51 00	63 50 00	2,650	do	70.5		T.	Do.	
55	May 28	33 20 00	64 37 00	2,500	Globigerina, ooze	70.5		Do.	Do.	
55a	May 28	32 46 00	64 39 00	1,775	do	70.5	36.2	Do.	Do.	
55b	May 29	32 07 35	64 53 45	1,325	Coral, mud	72		D.	Off Bermuda.	
56	May 29	32 08 45	64 50 35	1,075	do	72.5	38.2	D.	Do.	
56a	May 29	32 10 45	64 58 20	506	do	72.5		D.	Do.	
57	May 30	32 11 07	65 03 20	690	do	72.5		Do.	Do.	
57a	May 30	32 09 30	65 07 35	1,250	Coral, mud	73		D.	Do.	
57b	May 30	32 00 45	65 10 50	1,575	do	73		T.	Do.	
58	June 13	32 37 00	64 21 00	1,500	Globigerina, ooze	73.5	37.2	Do.	Bermuda to Azores.	
59	June 14	32 54 00	63 22 00	2,360	do	74	36.3	Do.	Do.	
60	June 16	34 28 00	58 56 00	2,575	Red clay	71.5	36.2	T.	Do.	
61	June 17	34 54 38	50 38 00	2,850	Red mud	71	36.2	T.	Do.	
63	June 19	35 29 00	50 53 00	2,750	Red clay	71		T.	Do.	
64	June 20	35 35 00	50 27 00	(2,700)	do	75		D.	Do.	
68	June 24	38 03 19	39 19 00	2,175	Globigerina, ooze	70	36.2	T.	Do.	
69	June 25	38 23 00	37 21 00	2,200	do	71	36.2	T.	Do.	
70	June 26	38 25 00	35 50 00	1,675	do	70		T.	Do.	
71	June 27	38 18 00	34 48 00	1,675	do	71	36.8	T.	Do.	
73	June 30	38 30 00	31 14 00	1,000	Pteropod, ooze.	60	30.4	D.	Do.	
75	July 2	38 38 00	28 28 30	450	Volcanic mud.	70		D.	Off Azores.	
76	July 3	38 11 00	27 09 00	900	Pteropod, ooze.	70	40	D.	Do.	
78	July 10	37 26 00	25 13 00	1,000	Volcanic mud.	71		D.	Do.	
79	July 11	36 21 00	23 31 00	2,025	Globigerina, ooze	71.5	35.9	D.	Azores to Madeira.	
83	July 15	33 13 00	18 13 00	1,650	do	71	37	D.	Do.	
85	July 19	28 42 00	18 06 00	1,125	Volcanic mud.	69.2		D.	Madaria to Cape de Verdes.	
87	July 21	25 49 00	20 12 00	1,675	Rock	72		D.	Do.	
89	July 23	22 18 00	22 02 00	2,400	Globigerina, ooze	73.5	36.6	T.	Do.	
92	July 26	17 54 00	24 41 00	1,975	do	74.7		D.	Do.	
98	Aug. 14	9 21 00	18 28 00	1,750	do	78.2	36.7	D.	Cape de Verdes to St. Paul's Rocks.	
101	Aug. 19	5 48 00	14 20 00	2,500	Blue mud	70.2	36.4	T.	Do.	
104	Aug. 23	2 25 00	20 01 00	2,500	Globigerina, ooze	78	36.6	T.	Do.	

Dredging stations of Challenger, etc.—Continued.

Serial Number.	Date.	Latitude.	Longitude.	Depth.	Nature of bottom.	Temperatures.		Instrument used.	Locality.
						Surface.	Bottom.		
		<i>North.</i>	<i>West.</i>	<i>Fath.</i>		°	°		
106	1873. Aug. 25	1 47 00	24 26 00	1,850	Globigerina, ooze	78.8	36.6	T.	Cape de Verdes to St. Paul's Rocks.
107	Aug. 26	1 22 00	26 36 00	1,500	do	78.8	37.9	T.	Do.
109	Aug. 28	0 55 38	29 22 35	104	Hard ground	77.7		D.	Do.
120	Sept. 9	<i>South.</i> 8 37 00	34 28 09	675	Red mud	78		T.	Between Pernambuco and Bahia.
121	Sept. 9	8 28 00	34 31 00	500	do	78		T.	Do.
122	Sept. 10	9 05 00	34 50 00	350	do	77.5		T.	Do.
122a	Sept. 10	9 10 00	34 52 00	120	do	77.5		T.	Do.
122b	Sept. 10	9 09 00	31 53 00	32	do	77.5		T.	Do.
122c	Sept. 10	9 10 00	34 49 00	400	do	77.5		T.	Do.
124	Sept. 11	10 11 00	35 22 00	1,900	do	77.5		T.	Do.
126	Sept. 12	10 46 00	36 08 00	770	do	77		T.	Do.
126a	Sept. 12	10 45 00	36 09 00	700	do	77		T.	Do.
129	Sept. 30	20 13 00	35 19 00	2,100	do	74	34.2	D.	Bahia to Tristan da Cunha.
130	Oct. 3	26 15 00	32 56 00	2,350	Red clay	69	34.7	T.	Do.
131	Oct. 6	29 35 00	28 09 00	2,275	Globigerina, ooze	65	34.6	T.	Do.
133	Oct. 11	35 41 00	29 55 00	1,900	do	58	35.4	T.	Do.
134	Oct. 14	36 12 00	12 16 00	2,025	do	63.5	36	D.	Off Tristan da Cunha.
135a	Oct. 16	37 16 50	12 45 15	75	Hard ground, shells, gravel.	54		D.	Do.
135c	Oct. 17	37 25 30	12 28 30	110	do	54		D.	Do.
135d	Oct. 17	37 25 00	12 30 30	72	do	54		D.	Do.
135e	Oct. 18	37 21 00	12 22 30	1,000	Hard ground, shells, gravel.	53.5		D.	Do.
135f	Oct. 18	37 14 45	12 20 15	1,100	Hard ground	53.5		D.	Do.
135g	Oct. 18	37 10 50	12 18 30	550	do	54		D.	Do.
136	Oct. 20	36 43 00	7 13 00	2,100	do	54	35.2	D.	Tristan da Cunha to south of Cape of Good Hope.
137	Oct. 23	35 59 00	<i>East.</i> 1 34 00	2,550	Red clay	56.1	34.5	D.	Do.
141	Dec. 17	34 41 00	18 36 00	98	Green sand	66.5	49.5	D.	Do.
142	Dec. 18	35 04 00	18 37 00	150	do	65.5	47	D.	Do.
143	Dec. 19	36 48 00	19 24 00	1,900	Globigerina, ooze	73	35.6	D.	Do.
313	1876. Jan. 20	52 20 00	<i>West.</i> 67 30 00	55	Sand	48.2	47.8	T.	Straits of Magellan to Falkland Islands.
314	Jan. 21	51 35 00	65 30 00	70	do	48	46	T.	Do.
314a	Jan. 22	51 24 00	61 46 00	110	Hard ground	49	41.8	T.	Do.
315	Jan. 26	51 40 00	57 50 00	12	Sand, gravel.	50		D.	Do.
316	Feb. 3	51 32 00	58 06 00	4	Mud	51.2		D.	Falkland Islands to Rio dela Plata.
317	Feb. 8	48 37 00	55 17 00	1,035	Hard ground, gravel.	46.7	35.7	T.	Do.
318	Feb. 11	42 32 00	56 29 00	2,040	Blue mud	57.5	33.7	T.	Do.
320	Feb. 14	37 17 00	53 52 00	600	Green sand	67.5	37.2	T.	Do.
321	Feb. 25	35 02 00	55 15 00	13	Mud	73.5		T.	Do.
322	Feb. 26	35 20 00	53 42 00	21	Sand, shells	71.5		T.	Do.
323	Feb. 28	35 39 00	50 47 00	1,900	Blue mud	73.5	33.1	T.	Rio de la Plata to Tristan da Cunha.
324	Feb. 29	36 09 00	48 22 00	2,800	do	71.5	32.6	T.	Do.
325	Mar. 2	36 44 00	46 16 00	2,650	do	70.8	32.7	T.	Do.
331	Mar. 9	37 47 00	30 20 00	1,715	Globigerina, ooze	64.5	35.4	T.	Do.
332	Mar. 10	37 29 00	27 31 00	2,200	do	64	34	T.	Do.
333	Mar. 13	35 36 00	21 12 00	2,025	do	67	35.3	T.	Do.
334	Mar. 14	35 45 00	18 31 00	1,915	do	68.5	35.8	T.	Do.
335	Mar. 16	32 24 00	13 05 00	1,425	Pteropod, ooze	73.5	37	D.	Tristan da Cunha to Ascension Islands.
337	Mar. 19	24 38 00	13 36 00	1,240	do	77	37.2	D.	Do.
338	Mar. 21	21 15 00	14 02 00	1,900	Globigerina, ooze	76.5	36.2	D.	Do.
343	Mar. 27	8 03 00	14 27 00	425	Volcanic sand	80.8	40.3	D.	Do.
344	Apr. 3	7 54 20	14 28 20	420	do	82		D.	Ascension towards Cape de Verdes.
346	Apr. 6	2 42 00	14 41 00	2,350	Globigerina, ooze	82.7	34	D.	Do.
348	Apr. 9	<i>North.</i> 3 10 00	14 51 00	2,450	do	84		D.	Do.