

LIST OF DREDGING STATIONS OCCUPIED BY THE U. S. COAST SURVEY STEAMERS CORWIN, BIBB, HASSLER, AND BLAKE, FROM 1867 TO 1880.

The dredgings from 1867 to 1871, and those of the *Hassler* in 1872, were all made by Count L. F. Pourtales, Assistant U. S. Coast Survey, in a great measure under the direction of Prof. Louis Agassiz, who accompanied several of the expeditions. Their positions were originally published in the Bulletin of the Museum of Comparative Zoology at Cambridge, Mass., in September, 1879. A continuous series of numbers running from 1 P. to 224 P. has been assigned to them for convenience in placing them on charts without confusing them with other Coast Survey or Fish Commission dredgings.

The following stations were occupied by the *Corwin*, Acting Master R. Platt, U. S. Navy, commanding, in 1867, in connection with a survey for a telegraph cable between Key West and Havana. The expedition was cut short by the breaking out of yellow fever on board.

Serial number.	Date.	Depth.	Locality.
1 P. ....	May 17	<i>Fathoms.</i> 90-100	5 miles SSW. of Sand Key, Fla.
2 P. ....	May 24	270	1.6 miles from Chorrera, Cuba.
3 P. ....	May 25	350	2 miles from Chorrera, Cuba.
4 P. ....	May 29	270	1.6 miles from Chorrera, Cuba.

The dredging in 1868 and 1869 were made by the *Bibb*, Acting Master R. Platt, U. S. Navy, commanding. They are all situated in the Florida straits, between Tortugas and Cape Florida. The positions, as published in the Bulletin of the Museum of Comparative Zoology, were only given in a general way, and are here taken from Count Pourtales's original charts, preserved in the Coast Survey Office. A separate series of numbers is attached to each day's work, both on the charts and in the bulletin, and these numbers and the depths given correspond for the most part, except that the depth on the charts have been corrected whilst those in the bulletin are apparently from the original rough notes. In some cases, however, a different number is given to the haul on the chart from that in the bulletin. All notes here given on the character of the bottom are also derived from the charts. The number and letter assigned to each dredging on the original charts and record-books, the number given in the bulletin, and the depths given by them, respectively, are given in separate columns, so as to facilitate future comparisons. A few hauls, mostly shallow water ones, it has been impossible to place exactly.

Dredgings made by U. S. Coast Survey, 1868-'69.

Serial number.	No. on charts and record-books.	No. in bulletin.	Date.	Latitude N.	Longitude W.	Depth in fathoms (bulletin).	Depth given on chart, etc.	Nature of bottom.	Locality.
			1868.	o f "	o f "				
5 P.		2	Apr. 23			195			Off Sombrero.
6 P.		3	Apr. 23			115			Do.
7 P.	7 B.	7	May 1	24 28 50	81 03 10	111	111	Hard	Do.
8 P.	6 B.	6	May 1	24 25 15	81 01 30	121	121	do	Do.
9 P.	5 B.	5	May 1	24 21 40	81 00 00	111	140	Rocky	Do.
10 P.	4 B.	4	May 1	24 18 00	80 58 30	152	152	do	Do.
11 P.	3 B.	3	May 1	24 16 20	80 57 30	183	180	do	Do.
12 P.	2 B.	2	May 1	24 14 20	80 57 00	302	228	do	Do.
13 P.	1 B.	1	May 1	24 12 30	80 55 30	537	517	Mud	Do.
14 P.	1 D.	1	May 4	24 33 30	81 19 00	19	19		Off Bahia Honda.
15 P.	4 D.	4	May 4	24 30 20	81 18 20	75	75	Sand	Do.
16 P.	5 D.	5	May 4	24 29 30	81 17 30	95	91		Do.
17 P.	6 D.	6	May 4	24 28 30	81 16 30	105	105		Do.
18 P.	7 D.	7	May 4	24 26 30	81 14 30	100	100	Rocky	Do.
19 P.	9 D.	9	May 4	24 22 30	81 10 30	119	112		Do.
20 P.	10 D.	10	May 4	24 19 40	81 07 00	128	128		Do.
21 P.	11 D.	11	May 4	24 17 00	81 03 20	176	167		Do.
22 P.	12 D.	12	May 4	24 14 20	80 59 40	324	310		Do.
23 P.	13 D.	13	May 4	24 12 50	80 58 00	418	400	Mud	Do.
24 P.	1 E.	1	May 6	24 30 20	81 30 30	16	16	Rotten shells	Off American Shoal.
25 P.	3 E.	3	May 6	24 28 30	81 30 30	43	43	Mud	Do.
26 P.	4 E.	4	May 6	24 28 00	81 30 15	55	55	do	Do.
27 P.	5 E.	5	May 6	24 27 30	81 29 45	75	70	do	Do.
28 P.	6 E.	6	May 6	24 27 00	81 29 00	83	83	do	Do.
29 P.	7 E.	7	May 6	24 26 40	81 28 30	98	98		Do.
30 P.	8 E.	8	May 6	24 26 00	81 27 50	94	94	Rocky	Do.
31 P.	9 E.	9	May 6	24 25 20	81 27 00	100	99	Hard	Do.
32 P.	1 F.	1	May 8	24 24 40	81 29 00	111	111	Mud	Do.
33 P.	3 F.	3	May 8	24 20 30	81 24 30	150	129	Coral and rocky	Do.
34 P.	4 F.	4	May 8	24 18 10	81 22 10	135	132		Do.
35 P.	5 F.	5	May 8	24 15 50	81 19 40	266	260		Do.
36 P.	3 G.	2	May 9	24 27 15	81 39 20	34	34	Mud and sand	Off the Samboes.
37 P.	6 G.	4	May 9	24 26 00	81 38 40	67	67	Mud	Do.
38 P.	7 G.	5	May 9	24 25 05	81 38 00	80	80		Do.
39 P.	8 G.	6	May 9	24 24 00	81 37 10	93	93	Broken shells	Do.
40 P.	9 G.	7	May 9	24 23 20	81 36 15	96	96	Mud	Do.
41 P.	10 G.	8	May 9	24 22 40	81 35 00	101	100	do	Do.
42 P.	11 G.	9	May 9	24 22 00	81 34 00	106	104	do	Do.
43 P.	12 G.	10	May 9	24 21 20	81 33 00	106	106	do	Do.
44 P.	13 G.	11	May 9	24 20 45	81 32 00	116	116	Hard	Do.
45 P.	14 G.	12	May 9	24 20 05	81 31 00	123	121		Do.
46 P.	15 G.	13	May 9	24 19 10	81 30 00	125	123	Coral, rock	Do.
47 P.	16 G.	14	May 9	24 18 45	81 28 45	125	121	Hard	Do.
48 P.	18 G.	16	May 9	24 16 20	81 24 30	139	137		Do.
49 P.	19 G.	17	May 9	24 14 45	81 22 30	147	145	Hard	Do.
50 P.	20 G.	18	May 9	24 13 20	81 20 20	298	292	Sand and shells	Do.
51 P.	21 G.	19	May 9	24 12 40	81 19 25	237	312	Fine coral mud	Do.
52 P.	2 H.	2	May 11	24 26 10	81 47 30	26	26	Coral and shells	Off Sand Key.
53 P.	4 H.	3	May 11	24 25 15	81 47 30	54	54	Broken shells	Do.
54 P.	6 H.	4	May 11	24 24 20	81 47 00	67	67	do	Do.
55 P.	8 H.	5	May 11	24 23 30	81 46 40	82	82	do	Do.
56 P.	10 H.	6	May 11	24 22 50	81 46 20	94	94		Do.
57 P.	11 H.	7	May 11	24 22 00	81 46 00	103	103		Do.
58 P.	13 H.	9	May 11	24 20 20	81 45 20	119	115	Hard	Do.
59 P.	14 H.	10	May 11	24 19 30	81 45 00	119	119	do	Do.
60 P.	15 H.	11	May 11	24 19 00	81 44 50	128	110		Do.
61 P.	16 H.	12	May 11	24 18 30	81 44 20	127	118		Do.
62 P.	17 H.	13	May 11	24 17 55	81 43 50	123	123		Do.
63 P.	18 H.	14	May 11	24 17 30	81 43 20	134	130		Do.
64 P.	19 H.	15	May 11	24 17 00	81 43 00	143	140		Do.
65 P.	20 H.	16	May 11	24 16 00	81 42 00	138	137		Do.
66 P.	21 H.	17	May 11	24 15 00	81 41 10	154	150		Do.
67 P.	23 H.	19	May 11	24 13 25	81 39 30	306	297	Mud	Do.
68 P.	24 H.	20	May 11	24 12 30	81 38 30	248	241	do	Do.
69 P.		1	May 15			100			Do.
70 P.		3	May 15			100			Do.
71 P.		4	May 15			100			Do.
72 P.		5	May 15			100			Do.
73 P.		6	May 15			100			Do.
74 P.		1	May 16			120			Do.
75 P.		2 & 3	May 16			120			Do.
76 P.		4 & 5	May 16			120			Do.
77 P.		6	May 16			120			Do.
			1869.						
78 P.		1	Jan. 15			0-7			South of Tortugas.

Nearly south from Sand Key.

*Dredgings made by U. S. Coast Survey, etc.—Continued.*

Serial number.	No. on charts and record-books.	No. in bulletin.	Date.	Latitude N.	Longitude W.	Depth in fathoms (bulletin).	Depth given on chart, etc.	Nature of bottom.	Locality.
70 P.	1 A.	2	1860.	° ' "	° ' "				
80 P.	2 A.	3	Jan. 15	24 30 30	82 50 15	13	13	Broken shells.....	South of Tortugas.
81 P.	3 A.	4	Jan. 15	24 27 30	82 50 30	17	18	Mud.....	Do.
82 P.	6 A.	7	Jan. 15	24 24 45	82 50 45	34	34	do.....	Do.
83 P.	(*)	1 & 2	Jan. 16	24 16 00	83 07 45	269	261	do.....	Do.
84 P.	3 B.	3	Jan. 16	24 30 00	83 07 30	30-32	30-32	Sand and shells...	Do.
85 P.	4 B.	4	Jan. 16	24 40 30	83 15 00	35	35	do.....	Do.
86 P.	5 B.	5	Jan. 16	24 41 30	83 19 00	36	36	do.....	Do.
87 P.	6 B.	6	Jan. 16	24 42 00	83 22 45	36	36	Sand, shells, sponges.	Do.
88 P.	7 B.	7	Jan. 16	24 42 30	83 26 30	35	35	do.....	Do.
89 P.	8 B.	8	Jan. 16	24 43 30	83 30 30	35	36	do.....	Do.
90 P.	9 B.	9	Jan. 16	24 43 40	83 34 30	37	37	Sand, grass.	Do.
91 P.	10 B.	10	Jan. 16	24 44 00	83 38 30	37	37	Sand, shells, sponges.	Do.
92 P.	11 B.	11	Jan. 16	24 44 15	83 42 00	34	34	Coral.....	Do.
93 P.	12 B.	(1)	Jan. 16	24 44 15	83 46 00	43	43	do.....	Do.
94 P.	1 C.	1	Jan. 17	24 44 15	83 40 20	42	42	do.....	Do.
95 P.	3 C.	3	Jan. 17	24 48 11	83 40 00	43	43	do.....	Do.
96 P.	5 C.	5	Jan. 17	24 48 45	84 01 00	124	124	Coarse sand.....	Do.
97 P.	1 D.	1	Jan. 18	24 49 00	84 13 00	502	502	Gray mud.....	Do.
98 P.	3 D.	3	Jan. 18	24 33 30	83 00 45	25	25	Gray sand, black specks.	Do.
99 P.	4 D.	4	Jan. 18	24 29 45	83 17 00	60	60	Rocky.....	Do.
100 P.	5 D.	5	Jan. 18	24 28 15	83 20 15	115	115	Mud.....	Do.
101 P.	6 D.	6	Jan. 18	24 26 15	83 24 00	214	214	do.....	Do.
102 P.	7 D.	7	Jan. 18	24 25 00	83 27 45	306	316	do.....	Do.
103 P.	8 D.	8	Jan. 18	24 22 45	83 32 00	389	389	do.....	Do.
104 P.	1 E.	1	Jan. 22	24 20 30	83 37 00	468	450	do.....	Do.
105 P.	2 E.	2	Jan. 22	24 33 45	82 44 15	13	13	Coarse sand, broken shells.	Do.
106 P.	3 E.	3	Jan. 22	24 20 15	82 44 00	11	11	do.....	Do.
107 P.	4 E.	4	Jan. 22	24 26 30	82 43 40	164	164	Mud, coarse sand.	Do.
108 P.	5 E.	5	Jan. 22	24 21 00	82 43 15	47	37	White mud.....	Do.
109 P.	6 E.	6	Jan. 22	24 19 00	82 42 45	118	118	do.....	Do.
110 P.	7 E.	7	Jan. 22	24 15 45	82 41 15	290	290	do.....	Do.
111 P.	8 E.	8	Jan. 22	24 12 00	82 40 00	349	349	do.....	Do.
112 P.	9 E.	9	Jan. 22	24 09 15	82 39 00	377	377	do.....	Do.
113 P.	1 F.	1	Jan. 23	24 07 00	82 37 20	410	410	do.....	Do.
114 P.	2 F.	2	Jan. 23	24 24 00	82 24 30	34	34	Broken shells.....	Do.
115 P.	1 G.	1	Feb. 10	24 20 00	82 24 45	74	75	Gray mud.....	Do.
116 P.	2 G.	2	Feb. 10	24 26 00	82 11 00	42	42	Mud.....	Off Marquesas.
117 P.	3 G.	3	Feb. 10	.....	.....	55	.....	do.....	Do.
118 P.	4 G.	4	Feb. 10	.....	.....	40	.....	do.....	Do.
119 P.	1 H.	(1)	Feb. 11	.....	.....	12-15	.....	do.....	Do.
120 P.	2 H.	2	Feb. 11	24 21 30	82 11 00	107	109	Mud.....	South of Marquesas.
121 P.	3 H.	3	Feb. 11	24 18 45	82 11 15	132	130	Rocky.....	Do.
122 P.	4 H.	4	Feb. 11	24 17 30	82 11 15	140	140	do.....	Do.
123 P.	5 H.	5	Feb. 11	24 15 45	82 10 30	296	298	Mud.....	Do.
124 P.	6 H.	6	Feb. 11	24 13 40	82 09 00	333	333	do.....	Do.
125 P.	5 J.	5	Feb. 15	24 22 15	82 02 30	105	105	do.....	Off Boca Grande.
126 P.	6 J.	6	Feb. 15	24 21 00	82 01 30	122	122	Sandy mud.....	Do.
127 P.	7 J.	7	Feb. 15	24 21 00	82 01 30	122	122	do.....	Do.
128 P.	8 J.	8	Feb. 15	.....	.....	125	.....	do.....	Do.
129 P.	9 J.	9	Feb. 15	.....	.....	125	.....	do.....	Do.
130 P.	1 K.	1	Feb. 16	24 23 00	82 02 30	90	90	Rocky.....	Do.
131 P.	2 K.	2	Feb. 16	24 19 20	82 06 30	125	125	Mud.....	Do.
132 P.	3 K.	3	Feb. 16	24 13 40	82 09 00	327	.....	White mud.....	Do.
133 P.	4 K.	4	Feb. 16	24 11 00	82 00 45	368	368	Mud.....	Do.
134 P.	5 K.	5	Feb. 16	24 08 15	82 10 45	405	405	do.....	Do.
135 P.	1 L.	1	Feb. 17	24 24 30	81 57 30	50	53	Sand, mud.....	Southwest of Sand Key.
136 P.	2 L.	2	Feb. 17	24 20 30	81 58 30	125	125	Rocky.....	Do.
137 P.	3 L.	3	Feb. 17	24 16 45	81 58 45	138	130	do.....	Do.
138 P.	4 L.	4	Feb. 17	24 13 30	81 59 00	325	320	Mud.....	Do.
139 P.	5 L.	5	Feb. 17	24 23 00	81 55 30	87	85	do.....	Do.
140 P.	2 M.	2	Mar. 4	.....	.....	450	.....	do.....	Off Cojima, near Havana.
141 P.	1 N.	1	Mar. 5	23 27 30	80 55 30	638	638	do.....	Off Cruz del Padre, Cuba.
142 P.	.....	.....	Mar. 10	23 57 30	80 29 15	315	315	do.....	Off Double-headed Shot Keys.
143 P.	.....	.....	Mar. 21	.....	.....	40	.....	do.....	Off Conch Reef.
.....	.....	.....	Mar. 21	.....	.....	45	.....	do.....	Off French Reef.

\* 1 and 2 B.

† 12 and 13.

‡ Several.

Dredgings made by U. S. Coast Survey, etc.—Continued.

Serial number.	No. on charts and record-books.	No. in bulletin.	Date.	Latitude N.	Longitude W.	Depth in fathoms (bulletin).	Depth given on chart, etc.	Nature of bottom.	Locality.
			1869.						
144 P.		3	Mar. 21			49			Off the Elbow Reef.
145 P.	1 O.	4	Mar. 21	25 08 30	80 11 15	70	70	Sand	Off Carysfort Reef.
146 P.	2 O.	5	Mar. 21	25 10 30	80 10 45	60	60	do	Do.
147 P.	3 O.	6	Mar. 21	25 12 30	80 10 30	48	48	do	Do.
148 P.	4 O.	7	Mar. 21	25 13 40	80 10 45	40		do	Do.
149 P.	5 O.	8	Mar. 21	25 14 15	80 11 15	35		Sand, mud	Do.
150 P.		9	Mar. 21			12			Off Turtle Harbor.
151 P.	1 P.	1	Mar. 23	25 11 15	80 09 45	63	70	Broken shells.	Off Carysfort Reef.
152 P.	2 P.	2	Mar. 23	25 10 30	80 06 00	116	102		Do.
153 P.	3 P.	3	Mar. 23	25 12 00	80 02 00	138	138	Sand	Do.
154 P.	4 P.	4	Mar. 23	25 13 20	79 57 00	293	293		Do.
155 P.	5 P.	5	Mar. 23	25 16 30	79 53 00	317	317	White mud	Do.
156 P.	6 P.	6	Mar. 23	25 20 00	79 50 00	320	320	do	Do.
157 P.	7 P.	7	Mar. 23	25 23 00	79 48 00	351	351	do	Do.
158 P.	1 Q.	1	Mar. 31	25 11 00	80 11 00	52	52	Rocky	Do.
159 P.	2 Q.	2	Mar. 31	25 08 30	80 06 00	117	118	do	Do.
160 P.	3 Q.	3	Mar. 31	25 06 30	80 01 00	206	206	Sand	Do.
161 P.	4 Q.	4	Mar. 31	25 04 40	79 55 40	349	349	Mud	Do.
162 P.		2 & 3	Apr. 1			9			Off Orange Key, Bahamas.
163 P.	1 T.	1	Apr. 3	25 01 35	80 20 15	15	15	Rocky	Off French Reef.
164 P.	2 T.	2	Apr. 3	25 01 25	80 19 45	37	37		Do.
165 P.	3 T.	3	Apr. 3	25 01 20	80 19 30	44	44		Do.
166 P.	4 T.	4	Apr. 3	25 01 00	80 18 45	50	50	Sand	Do.
167 P.	5 T.	5	Apr. 3	25 00 00	80 16 30	75	70	Shells.	Do.
168 P.	6 T.	6	Apr. 3	24 58 40	80 14 15	100	94	Broken shells.	Do.
169 P.	1 U.	1	Apr. 21	24 18 00	81 50 15	135	125	Rocky	Off Key West.
170 P.	2 U.	2	Apr. 21	24 14 00	81 51 45	205	200	Coral	Do.
171 P.	4 U.	3	Apr. 21			140	140		Do.
172 P.	5 U.	4	Apr. 21			140	134		Do.
173 P.	6 U.	5	Apr. 21			120	124		Do.
174 P.	1 X.	1	May 7	24 44 30	80 45 00	21	25	Sand	Off Tennessee Reef.
175 P.	2 X.	2	May 7	24 42 45	80 44 15	53	53	Mud	Do.
176 P.	3 X.	3	May 7	24 40 40	80 44 00	85	85	Shells.	Do.
177 P.	4 X.	4	May 7	24 38 30	80 42 45	108	105	Sand, shells.	Do.
178 P.	5 X.	5	May 7	24 36 30	80 41 00	114	114	Shells.	Do.
179 P.	6 X.	6	May 7	24 35 00	80 39 00	115	115	Sand, shells.	Do.
180 P.	7 X.	7	May 7	24 33 00	80 37 00	124	124	Coral	Do.
181 P.	8 X.	8	May 7	24 31 15	80 35 00	160	157	Shells.	Do.
182 P.	9 X.	9	May 7	24 29 15	80 33 00	174	174	Coral, shells.	Do.
183 P.	10 X.	10	May 7	24 27 45	80 31 00	200	200	Rocky	Do.
184 P.	2 Y.	2	May 8	24 40 15	80 35 30	41	41	Mud	Off Alligator Reef.
185 P.	3 Y.	3	May 8	24 48 05	80 34 45	53	53	do	Do.
186 P.	4 Y.	4	May 8	24 47 15	80 34 00	68	64	Shells.	Do.
187 P.	5 Y.	5	May 8	24 46 30	80 33 00	70	76	Broken shells.	Do.
188 P.	6 Y.	6	May 8	24 47 15	80 32 15	88	88	Sand, broken shells.	Do.
189 P.	7 Y.	7	May 8	24 44 45	80 31 30	110	110	Rocky	Do.
190 P.	8 Y.	8	May 8	24 43 40	80 30 45	110	113	do	Do.
191 P.	9 Y.	9	May 8	24 42 45	80 28 40	113	113	Sand, broken shells.	Do.
192 P.	10 Y.	10	May 8	24 41 45	80 27 45	118	118	Rocky	Do.
193 P.	11 Y.	11	May 8	24 40 30	80 25 35	138	135	Broken shells, coral.	Do.
194 P.	12 Y.	12	May 8	24 39 30	80 23 15	147	147		Do.
195 P.	13 Y.	13	May 8	24 38 30	80 22 30	156	160	Shells.	Do.
196 P.	14 Y.	14	May 8	24 37 20	80 20 15	183	188	Broken shells.	Do.
197 P.	15 Y.	15	May 8	24 26 00	80 18 05	238	238	Pine sand	Do.
198 P.	1 Z.	1	May 11	24 56 15	80 27 50	30	30	Broken shells.	Off Conch Reef.
199 P.	2 Z.	2	May 11	24 55 40	80 26 30	39	39	do	Do.
200 P.	3 Z.	3	May 11	24 54 15	80 25 20	49	48	do	Do.
201 P.	4 Z.	4	May 11	24 51 15	80 23 30	60	60	do	Do.
202 P.	5 Z.	5	May 11	24 52 20	80 22 20	77	77	Sand, shells.	Do.
203 P.	6 Z.	6	May 11	24 51 30	80 19 40	117	117	do	Do.
204 P.	7 Z.	7	May 11	24 50 15	80 17 30	139	139	Broken shells.	Do.
205 P.	8 Z.	8	May 11	24 49 20	80 14 30	157	157	do	Do.
206 P.	9 Z.	9	May 11	24 48 00	80 11 30	169	168	Sand, shells.	Do.
207 P.	10 Z.	10	May 11	24 46 45	80 08 15	257	257		Do.
208 P.	1 A.	1	May 13	25 19 20	80 08 15	30	30		Off Pacific Reef.
209 P.	2 A.	2	May 13	25 19 30	80 07 30	49	49	Rocky	Do.
210 P.	3 A.	3	May 13	25 19 40	80 06 30	60	60	Shells.	Do.
211 P.	4 A.	4	May 13	25 20 10	80 05 15	75	75	Fine sand.	Do.
212 P.	5 A.	5	May 13	25 21 00	80 03 00	98	98		Do.
213 P.	6 A.	6	May 13	25 22 00	80 01 00	180	177	Mud	Do.
214 P.	7 A.	7	May 13	25 23 15	79 59 15	233	222	do	Do.
215 P.	8 A.	8	May 13	25 25 00	79 58 00	263	243	do	Do.
216 P.	9 A.	9	May 13	25 27 00	79 57 00	287	287	do	Do.

On the voyage of the *Hassler*, Lieut. Commander R. P. Johnson, U. S. Navy, commanding, from Boston to San Francisco in 1871-'72, dredgings, numbered from 1 to 8, were made off Sandy Bay, Barbados, and twenty-six other dredgings were made in the South Atlantic, besides fifteen made off the coast of Chili. To the thirty-four hauls in the Atlantic, numbers from 217 P. to 250 P. have been assigned. The dredgings were made by Count Pourtales under the direction of Prof. Louis Agassiz.

*Dredgings of the Hassler in 1871-'72.*

Serial number.	Original number of dredging.	Date.	Latitude S.	Longitude W.	Depth in fathoms.	Locality.
217-20 P.	1-4	1871. Dec. 29			75-100	Off Sandy Bay, Barbados.
221-24 P.	5-8	Dec. 30			17-100	Do.
		1872.				
225 P.	9	Jan. 18	11 49	Between 37° 10' and 37° 27' standing off and on shore.	15	Off coast of Brazil, north of Bahia.
226 P.	10	Jan. 18	11 49		17	Do.
227 P.	11	Jan. 18	11 49		40	Do.
228 P.	12	Jan. 18	11 49		560	Do.
229 P.	13	Jan. 18	11 49		20	Do.
230 P.	14	Jan. 18	11 49		75	Do.
231 P.	15	Jan. 18	11 49		200	Do.
232 P.	16	Jan. 20		30	Off the Abrolhos, Brazil.	
233 P.	17	Jan. 20		20	Do.	
234 P.	18	Jan. 20		26	Do.	
235 P.	19	Jan. 20		41	Do.	
236 P.	20	Jan. 22		35	Off Cape Frio, Brazil.	
237 P.	21	Jan. 22		45	Do.	
238 P.	22	Feb. 20	32 00	50 15	70	Off Coast of Brazil, north of river La Plata.
239 P.	23	Feb. 20	32 00	50 15	79	Do.
240 P.	24	Feb. 22	34 55	54 12	19	Off La Plata River.
241 P.	25	Feb. 22	35 12	55 30	7	In La Plata River.
242 P.	26	Mar. 1	37 42	56 20	44	Off La Plata River.
243 P.	27	Mar. 5	40 22	60 35	30	Off Bahia Blanca, Argentine Republic.
244 P.	28	Mar. 4	41 17	63 60	17	Off mouth of Rio Negro, Argentine Republic.
245 P.	29	Mar. 4	41 15	63 50	25	In Gulf of S. Matias, Argentine Republic.
246 P.	30	Mar. 7	41 40	63 13	30	Do.
247 P.	31	Mar. 9	44 52	64 10	55	Off Cape Raso, Patagonia.
248 P.	32	Mar. 11	49 40	66 50	57	Off Point S. Julian, Patagonia.
249 P.	33	Mar. 12	51 26	68 05	58	Off Coy Inlet, Patagonia.
250 P.	34	Mar. 13			22	Off Cape Possession, Patagonia.

The dredgings in 1872, except those of the *Hassler*, were made by Dr. William Stimpson. The first ones were made upon the *Bibb*, Acting Master R. Platt, U. S. Navy, commanding, those numbered 1 to 29 S. in this list being in the Yucatan Channel, following a proposed telegraph line, and 30 to 34 S. south of Sand Key, near Key West. Dr. Stimpson afterwards joined the *Bache*, Lieut. Commander I. A. Howell, commanding, and made dredgings numbered 41 to 60 S. Lieutenant Commander Howell had made a few dredgings in anticipation of Dr. Stimpson joining him, numbered 35 to 40 S. All the *Bache's* dredgings were off the west coast of Florida, except 56 to 60 S., which were southwest of the Tortugas.

Dredgings made by the Bibb and Bache in 1872.

Serial number.	Original number.	Date.	Latitude N.			Longitude W.			Depth.	Kind of bottom.	Locality.	Temperatures.		
			°	'	"	°	'	"				Fath.	Surf.	Bottom.
1 S.	1	1872 Feb. 10	22	02	20	84	57	20	230	rky	In the Yucatan Channel.			
2	2	Feb. 10	22	00	30	85	00	00	317		do		74	07
3	3	Feb. 10	21	58	20	85	02	40	441	M	do		75	48
4	4	Feb. 10	21	55	45	85	05	50	663	Co. M	do		74	42
5	5	Feb. 16	22	01	35	84	57	00	25		do			
6	6	Feb. 16							110		do			
7	7	Feb. 16	22	01	20	84	57	20	162	Co. S	do			
8	8	Feb. 16	22	00	30	85	00	50	203	Co. rky	do		78	00
9	9	Feb. 16	21	59	10	85	01	10	377	Co. M. S.	do		74	51
10	10	Feb. 16	21	54	15	85	01	30	584	Co. S. M.	do		79	41
11	11	Feb. 16	21	52	20	85	00	10	403	M	do		76	48
12	12	Feb. 17	21	51	15	84	59	15	180	Co. S	do			
13	13	Feb. 17	21	51	00	85	01	45	366		do		77	52
14	14	Feb. 17	21	50	20	85	04	15	335	M. S.	do		78	40
15	15	Feb. 17	21	48	40	85	09	10	963	crs. S. brk. Sh.	do		77	39
16	16	Feb. 17	21	44	10	85	13	50	1,066	Co. M	do		79	39
17	17	Feb. 18	21	45	20	85	23	50	940	crs. S. M	do		78	39
18	18	Feb. 18	21	40	45	85	33	00	1,054	M	do		78	39
19	19	Feb. 18	21	35	45	85	44	15	1,164	S. M.	do		78	39
20	20	Feb. 23	21	15	20	86	35	10	72	brk. Sh	do			
21	21	Feb. 23	21	16	35	86	32	35	105		do		79	60
22	22	Feb. 23	21	18	00	86	30	00	153	rky	do		76	51
23	23	Feb. 23	21	21	25	86	26	10	262	wh. S	do		76	49
24	24	Mar. 6	21	29	00	86	40	00	17	M. Sh. rk	On Yucatan Bank.			
25	25	Mar. 6	21	27	00	86	38	00	22	S. Sh	do			
26	26	Mar. 7	21	24	05	86	15	00	260	fine. Co. S	In the Yucatan Channel.		76	47
27	27	Mar. 11	21	31	10	86	00	15	1,127	yll. M.	do		79	40
28	28	Mar. 11	21	37	30	85	52	00	1,081	Co. M. S	do		81	40
29	29	Mar. 11	21	35	45	85	44	15	1,164	S. M.	do		78	39
30	30	Mar. 29	24	17	00	81	54	00	133		Sand Key bears NE. 1/2 E.			
31	31	Mar. 29							134	M	Near preceding			
32	32	Mar. 29							134		do			
33	33	Mar. 29							125		Sand Key bears NE. by N. 1/2 N.			
34	34	Mar. 29							119		Near preceding			
35	35	Feb. 17	25	03	00	82	13	00	12	brk. Sh	North of Marquesas.	67	60	07
36	36	Feb. 18	25	03	10	82	55	00	25	bl. M.	North of Tortugas.	66	70	07
37	37	Feb. 18	25	03	30	83	14	05	33	bl. M.	do	66	63	04
38	38	Feb. 18	25	03	40	83	26	50	35	gr. M	Northwest of Tortugas.	67	69	07
39	39	Feb. 18	25	03	55	83	42	10	40	brk. Sh. Co.	do	74	70	68
40	40	Feb. 18	24	56	30	81	14	00	169		do	76	78	55
41	41	Apr. 19	27	07	00	82	47	00	13	Co. sponge	Off west coast of Florida.	75	78	83
42	42	Apr. 19	27	07	00	82	51	00	14	gr. S. brk. Sh.	do	75	78	80
43	43	Apr. 19	27	07	00	82	55	10	15	gr. S. brk. Sh.	do	70	78	74
44	44	Apr. 19	27	07	30	84	11	00	50	fine gr. S. blk. Sp	do	74	77	76
45	45	Apr. 20	27	07	30	84	26	00	81	fine. gr. S.	do	75	77	76
46	46	Apr. 23	26	17	25	84	36	00	132	wh. S. brk. Sh.	do	75	80	57
47	47	Apr. 23	26	17	25	84	31	25	123		do	73	80	60
48	48	Apr. 23	26	17	20	84	21	20	100	gr. S. M	do	78	81	60
49	49	Apr. 23	26	16	50	83	40	25	45	S	do	75	78	67
50	50	Apr. 23	26	16	50	83	37	45	40	S	do	75	78	67
51	51	Apr. 24	26	16	30	82	57	20	23	gr. S. M	do	72	78	67
52	52	Apr. 24	26	16	25	82	50	10	19	gr. S. M	do	71	74	67
53	53	Apr. 24	26	16	25	82	47	25	18	gr. S. brk. Sh.	do	71	74	67
54	54	Apr. 24	26	16	20	82	40	00			do	71	74	67
55	55	Apr. 24	26	16	10	82	45	30	16	rky	do	74	79	78
56	56	May 13	24	34	25	82	57	00	8	Co. rky	Southwest of Tortugas.	74	78	78
57	57	May 13	24	30	40	83	02	50	15	crs. S. brk. Sh.	do	74	78	85
58	58	May 13	24	26	55	83	09	35	37	blk. sp. brk. Co.	do	76	78	79
59	59	May 13	24	23	00	83	17	30	125	gr. M	do	78	79	79
60	60	May 13	24	19	50	83	24	00	600	gr. M	do	79	82	82

NOTE.—Either the depth or the position of 60 S. must be erroneous, as there is less than 300 fathoms there.

During the season of 1877-78 the dredging operations from December to March were in charge of Prof. Alexander Agassiz, and were conducted upon the *Blake*, Lieut. Commander C. D. Sigsbee, U. S. Navy, commanding. The cruise extended from Key West to Havana, from Havana westward along the north coast of Cuba, from Key West to the Tortugas, thence to the northern extremity of the Yucatan Bank and Alacran Reef, to Cape Catoche and across to Cape San Antonio, returning to Key West, and from Key West to the Tortugas, and northward to the mouth of the Mississippi River. The positions were originally published in the Bulletin of the Museum of Comparative Zoology at Cambridge, Mass., September, 1879. In giving these positions on the charts, etc., the word Ag. has been added to the numbers in the bulletin so as to distinguish them from the dredgings of the U. S. Fish Commission, Count Pourtales, etc. The positions from 1 Ag. to 4 Ag. are taken from Sigsbee's original charts.

*Dredgings made by the Blake in 1877-78.*

Serial number.	Latitude N.			Longitude W.			Depth.	Locality.	Temperatures.	
	°	'	"	°	'	"			Surface.	Bottom.
1 Ag.	23	14	00	82	25	60	801	North of Havana.....	73	39½
2 Ag.	23	14	00	82	25	00	805	do .....	77	39½
3 Ag.	23	31	00	82	10	00	924	do .....	78½	39½
4 Ag.	23	39	30	82	14	00	936	do .....	77½	39½
5 Ag.	24	15	00	82	13	00	152-229	South of Marquesas Keys, Florida.....	76	40½
6 Ag.	24	17	30	82	09	00	137	do .....		
9 Ag.							111	Only mud brought up.		
10 Ag.	24	44	00	82	26	00	37	Seven miles S. by W. from Sand Key.....	70	55½
11 Ag.	24	43	00	83	25	00	36	West of Tortugas.....		
12 Ag.	24	54	00	83	16	00	37	do .....		
13 Ag.							742	North of Havana.....		
14 Ag.	23	18	00	82	21	00	850-900	do .....		
15 Ag.	23	14	00	82	25	00	785	do .....		
16 Ag.	23	11	00	82	23	00	292	do .....		
17 Ag.	23	01	00	82	43	00	320	Off Mariel, Cuba.....	77	55½
18 Ag.	23	07	00	84	43	30	756	do .....	76	50½
19 Ag.	23	03	00	85	10	30	310	Off Bahia Honda, Cuba.....	76	40
20 Ag.	23	02	30	85	11	00	220	do .....	73	52½
21 Ag.	23	02	00	83	13	00	287	do .....	76	62
22 Ag.	23	01	00	83	14	00	100	do .....	77	71
23 Ag.	23	01	00	83	14	00	190	do .....	77	64
24 Ag.	23	02	30	83	13	00	342	do .....	78	50
25 Ag.	23	04	00	83	12	30	635	do .....	78	40½
26 Ag.	24	37	30	83	36	00	110	West of Tortugas.....	72	58½
27 Ag.	24	30	00	83	40	00	392	do .....	73	44½
28 Ag.	24	34	00	84	00	00	863	do .....	75	39½
29 Ag.	24	30	00	84	05	00	955	do .....		30½
30 Ag.	24	33	00	84	34	00	968	do .....		30½
31 Ag.	24	33	00	84	23	00	1,920	do .....		39½
32 Ag.	23	32	00	88	05	00	95	North part of Yucatan Bank.....		
33 Ag.	24	01	00	88	58	00	{ 1,400 to 2,150 } 804	North of Yucatan Bank.....	72½	40½
34 Ag.	23	52	00	88	56	00	400-600	do .....	81	†40½
35 Ag.	23	52	00	88	58	00	804	do .....	78	40½
36 Ag.	23	13	00	80	10	00	84	North part of Yucatan Bank.....	74	60
37 Ag.							35	Northwest end of Alacran Reef, Yucatan Bank.....		
38 Ag.	23	10	00	88	35	00	20	North part of Yucatan Bank.....		
39 Ag.							14	Sixteen miles north of Jolbos Islands, southwest part of Yucatan Bank.....		
40 Ag.	23	26	00	84	02	00	1,323	Northwest of Cuba.....	77	40
41 Ag.	23	42	00	83	13	00	860	do .....	73	39½
42 Ag.	23	53	00	83	04	30	620	do .....		39½

\*7 and 8 Ag.

† In 600 fathoms.

Dredgings made by the Blake, etc.—Continued.

Serial number.	Latitude N.	Longitude W.	Depth.	Locality.	Temperatures.	
					Surface.	Bottom.
	° ' "	° ' "	Fathoms.		°	°
43 Ag.	24 08 00	82 51 00	330	South of Dry Tortugas.....		45
44 Ag.	25 33 00	84 35 00	539	Northwest of Dry Tortugas.....	74½	38½
45 Ag.	25 53 00	84 21 00	101	do.....	75	61½
46 Ag.	25 43 00	84 47 30	888	do.....		39½
47 Ag.	28 42 00	88 40 00	321	Off mouth of the Mississippi.....	74½	46½
48 Ag.	28 47 30	88 41 30	533	do.....	66	41½
49 Ag.	28 51 30	89 01 30	118	do.....		
50 Ag.	26 31 00	85 53 00	*119	do.....		
51 Ag.	23 11 00	82 21 00	243-450	Off Havana.....		
52 Ag.	23 09 00	82 23 00	158	do.....		
53 Ag.			242	do.....		
54 Ag.			175	do.....		
55 Ag.	23 09 00	82 21 00	242	do.....		
56 Ag.	23 09 00	82 21 30	175	do.....		
57 Ag.	23 09 15	82 21 00	177	do.....		
58 Ag.	23 09 30	82 11 30	242	do.....		
59 Ag.			158	do.....		
60 Ag.			480	do.....		
61 Ag.	23 09 00	82 01 00	243	do.....		
62 Ag.			80	do.....		
63 Ag.			177	do.....		
64 Ag.			122-240	do.....		
65 Ag.			127	do.....		
66 Ag.			80-100	do.....		
67 Ag.			128-240	do.....		
68 Ag.			243-458	do.....		
69 Ag.			100	do.....		
70 Ag.			111	Off Sand Key.....		
71 Ag.			458	Off Havana.....		
72 Ag.			50	Off Sand Key.....		
73 Ag.	23 25 00	83 11 00	220	North of Bahia Honda, Cuba.....		
74 Ag.	23 25 00	83 11 00	287	do.....		
75 Ag.			292	Off Havana.....		
76 Ag.			154	do.....		
77 Ag.			240	do.....		
78 Ag.			129	do.....		
79 Ag.			175	do.....		

NOTE.—Stations 50 to 70 were occupied by Lieut. Commander Sigsbee while in search of *Pentacarina*. \*The position or depth must be wrong, as there are 1,700 fathoms there; perhaps 28° 31'.

No dredgings appear to have been taken to which the numbers 80 to 99 in this series were originally given, but on the original chart of Sigsbee's cruise seven dredging stations are marked, which are not contained in Professor Agassiz's list in the bulletin. To these numbers from 80 to 86 Ag. have been assigned.

Serial number.	Latitude N.	Longitude W.	Depth.	Kind of bottom.	Locality.	Temperatures.	
						Surface.	Bottom.
	° ' "	° ' "	Faths.			°	°
80 Ag.	22 39 00	84 59 00	1,222	lt. br. M. and S.	Northwest of Cuba.....		
81 Ag.	22 11 30	88 11 00	20	S. and Sh.	South part of Campeche Bank.....		
82 Ag.	23 48 00	86 10 30	1,501	lt. br. M.	Northeast of Campeche Bank.....		
83 Ag.	23 52 00	86 31 30	603-9	do.	do.....		
84 Ag.	23 20 00	89 12 30	84	lt. br. M.	North edge of Campeche Bank.....		
85 Ag.	23 18 30	89 13 00	82	Co. M. and S.	do.....		
86 Ag.	23 16 00	89 16 00	91	Co. M. and S.	do.....		



During the season of 1878-'79, the dredgings, from December to March, were in charge of Prof. Alexander Agassiz, upon the *Blake*, commanded by Commander J. R. Bartlett, U. S. Navy. The cruise extended from Key West to Havana, from Havana to Jamaica through the Old Bahama Channel and Windward Passage, from Jamaica to St. Thomas, along the south coast of Hayti and Porto Rico. From St. Thomas the *Blake* visited Santa Cruz, Saba Bank, Montserrat, St. Kitts, Guadeloupe, Dominica, Martinique, St. Lucia, St. Vincent, the Grenadines, Grenada, extended the dredgings as far as the 100-fathom line off Trinidad, returned to St. Vincent, and finished the dredging operations at Barbados. These positions were also published in the Bulletin of the Museum of Comparative Zoology, September, 1879, and are distinguished in the same manner as the preceding ones. The serial numbers, temperatures, and localities are taken from the Bulletin, while the depths, latitudes, and longitudes, nature of bottom, original numbers of casts, and letters designating lines are mainly taken from "Hydrographic Notice No. 9 of 1882," published by the U. S. Hydrographic Office, with the exception of about a dozen hauls, to which no latitudes or longitudes are affixed.

Dredgings made by the Blake in 1878-'79.

Serial number.	Line.	Date.	Number of cast.	Latitude N.	Longitude W.	Depth.	Nature of bottom.	Locality.	Temperatures.	
									Surface.	Bottom.
100 Ag.		1878.		0 11	0 11	Fath.			0	0
101 Ag.		Dec. —				250-400		Off Morro Light, Havana.		
102 Ag.	A	Dec. 16	1	22 18 05	77 47 30	128	Coral sand.	do		
103 Ag.	A	Dec. 16	2	22 18 19	77 44 45	438	White coral, mud	Cayo Cruz to Lobos Light	78	69
104 Ag.	A	Dec. 16	3	22 20 00	77 42 30	500	Broken shell	Old Bahama Channel	79	49
105 Ag.	A	Dec. 16	4	22 21 55	77 40 35	450	Coral, sand	do	76	45
106 Ag.	A	Dec. 16	5	22 23 45	77 38 20	269	Fine white sand	do	77	45
107 Ag.								do		
108 Ag.	B	Dec. 17	1	21 43 45	76 35 55	294	Light brown mud	Off Neuvitas	78	39
109 Ag.	B	Dec. 18	2	21 01 40	74 45 00	1,554	Soft gray globe, ooze	Off Cayo de Moa	76	36
110 Ag.	B	Dec. 18	3	20 29 30	74 21 00	1,205	Dark brown mud, black specks	Off Cape Maysi	78	36
111 Ag.	B	Dec. 19	4	19 05 55	74 49 05	1,200	Soft gray globigerina, ooze	do	80	39
112 Ag.	B	Dec. 19	5	18 38 00	75 09 30	1,050	Brown mud	West of Navassa Bank	82	39
113 Ag.	B	Dec. 20	6	17 50 30	76 40 50	633	do	Off east end Jamaica	82	43
114 Ag.	B	Dec. 20	7	17 54 05	76 42 20	459	do	Off Port Royal, Jamaica		
115 Ag.	B	Dec. 20	8	17 55 00	76 41 25	228	do	do		
116 Ag.	B	Dec. 28	1	17 47 10	67 03 20	674	Gray gritty ooze	Southwest of Porto Rico	82	40
117 Ag.		1879.								
118 Ag.	C	Jan. 2	1	18 11 15	64 55 45	238	Coral sand	Between St. Thomas and Santa Cruz		
119 Ag.	C	Jan. 2	2	18 07 15	64 55 30	1,105	Gray ooze	do	80	39
120 Ag.	C	Jan. 2	3	18 02 00	64 54 35	1,952	do	do	80	36
121 Ag.	C	Jan. 2	4	17 56 55	64 54 15	2,393	do	do	80	39
122 Ag.	C	Jan. 3	5	17 52 15	64 53 45	2,412	Light brown mud	do	77	36
123 Ag.	C	Jan. 3	6	17 48 15	64 53 35	1,450	Fine light sand, black specks	do	80	38
124 Ag.	C	Jan. 3	7	17 47 30	64 53 45	580	Fine white sand	Off Santa Cruz	81	42
125 Ag.	C	Jan. 3				300		Near Ham's Bluff, Santa Cruz		
126 Ag.	C	Jan. 4	8	17 46 20	64 53 25	226	White sand, black specks	Off Santa Cruz	79	50
127 Ag.	C	Jan. 4	9	17 46 10	64 53 15	38	Sand, black specks, shell	do	80	50
128 Ag.	C	Jan. 4	10	17 42 50	64 53 55	180	Gray ooze	Off Fredericstadt, Santa Cruz	81	60
129 Ag.	C	Jan. 4	11	17 42 35	64 54 20	314	Ooze	do	85	44
130 Ag.	C	Jan. 4	12	17 43 00	64 55 10	451	Gray ooze	do	84	44
131 Ag.	C	Jan. 5	13	17 38 45	64 54 50	18	Coarse coral, sand, shell	Off Ham's Bluff, Santa Cruz	79	51
132 Ag.	C	Jan. 5	14	17 37 55	64 54 20	580		do	81	42
133 Ag.	C	Jan. 5	15	17 37 55	64 54 20	117	Rock, broken shells	Off Fredericstadt, Santa Cruz	77	65
134 Ag.	C	Jan. 5	16	17 38 40	64 55 10	44	Coral, rock, broken shells	do		
135 Ag.	C	Jan. 5	17	17 37 15	64 48 20	248	Coral, sand, broken shells	do	81	54
135 Ag.	C	Jan. 6	18	17 41 25	64 53 55	450	Fine sand, ooze	do	81	42
136 Ag.	C	Jan. 6	19	17 43 10	64 55 50	504	Fine sand, gray ooze	do	80	42

137 Ag.	C	Jan.	6	20	17 45 15	61 55 29	625	Gray ooze.....	do	79½	41½
138 Ag.	C	Jan.	7	21	17 50 45	64 53 40	2, 376	Light-brown ooze.....	Off Santa Cruz.....	76½	38½
139 Ag.	C	Jan.	7	22	17 46 45	64 48 50	218	Coarse sand.....	Off Mount Eagle, Santa Cruz.....	78½	51
140 Ag.	C	Jan.	8	25	18 12 40	61 23 00	1, 097	Brown ooze, sand.....	Off Virgin Gorda.....	80	38½
141 Ag.	C	Jan.	8	26	18 18 45	64 26 05	861	Broken shell, ooze.....	do	77½	40½
142 Ag.	C	Jan.	8	27	18 21 45	64 37 50	27	Sand, shell.....	Flamegan Passage.....	78½	77½
143 Ag.	C	Jan.	13	10	17 30 00	63 42 35	150	Ooze, sand.....	Off Saba Bank.....	79	61½
144 Ag.	C	Jan.	13	13	17 27 50	63 36 10	21	Broken shell, sand.....	On Saba Bank.....	79½	51
145 Ag.	E	Jan.	14	1	17 21 22	62 56 26	270	Fine sand, black specks.....	Off St. Kitts.....	79½	52
146 Ag.	E	Jan.	14	2	17 22 36	62 54 12	245	Fine gray sand, ooze.....	do	79½	32½
147 Ag.	E	Jan.	14	3	17 19 27	62 50 30	250	do	do	79½	35½
148 Ag.	E	Jan.	14	4	17 17 12	62 46 43	208	Fine gray sand, black specks.....	do	79	76
149 Ag.	E	Jan.	15	5	17 16 40	62 43 48	61	Fine sand, broken shell, black specks.....	do	79	45
150 Ag.	E	Jan.	15	6	17 11 22	62 46 00	3734	Fine sand, black specks.....	Between St. Kitts and Nevis.....	81½	
151 Ag.	E	Jan.	15	7	17 08 21	62 42 00	356	do	Off Nevis.....	79½	57½
152 Ag.	E	Jan.	15	8	17 12 08	62 41 10	122	Gray sand, black specks.....	Off St. Kitts.....	79½	46½
153 Ag.	E	Jan.	16	10	16 43 45	62 16 12	303	Sand, broken shell, black specks.....	Off Montserrat.....	80	49½
154 Ag.	E	Jan.	16	11	16 41 10	62 14 50	208	Lava sand.....	do	80	69
155 Ag.	E	Jan.	16	12	16 41 54	62 13 24	68	do	do	80	
156 Ag.	E	Jan.	16	12	16 41 54	62 13 24	120	do	do	80	
157 Ag.	E	Jan.	16	12	16 41 54	62 13 24	148	Stony bottom.....	do	80	53½
158 Ag.	E	Jan.	16	12	16 41 54	62 13 24	196	Rock.....	Off Guadeloupe.....	80½	43½
159 Ag.	F	Jan.	18	1	15 50 10	61 44 15	303	Lava sand.....	do	80½	41
160 Ag.	F	Jan.	19	3	15 50 55	61 46 20	583	Lava sand, shell.....	do	81	40
161 Ag.	F	Jan.	19	4	16 02 15	61 49 15	704	Lava sand.....	do	80	59½
162 Ag.	F	Jan.	19	5	16 02 40	61 50 28	769	Ooze, sand.....	do	80	
163 Ag.	F	Jan.	20	6	16 03 10	61 52 20	878	do	do	80	
164 Ag.	F	Jan.	21	8	15 55 55	61 41 55	151	Lava sand.....	do	80	48
165 Ag.	F	Jan.	21	9	15 54 55	61 40 45	277	Gray ooze.....	do	80	50½
166 Ag.	F	Jan.	21	12	15 55 50	61 37 05	150	do	do	80	55
167 Ag.	F	Jan.	21	13	16 09 40	61 29 25	175	Sand, black specks, shell.....	do	80	
168 Ag.	F	Jan.	21	13	16 09 40	61 29 25	175	do	do	80	
169 Ag.	F	Jan.	22	14	16 09 55	61 28 08	191	Lost trawl.....	do	79½	67
170 Ag.	F	Jan.	22	15	15 57 25	61 43 40	309	Sand, shell.....	do	80	46½
171 Ag.	F	Jan.	22	16	15 58 20	61 43 12	183	Lava sand.....	do	80	55½
172 Ag.	F	Jan.	22	17	15 58 10	61 42 55	82	Lava sand, ooze.....	do	80	74½
173 Ag.	F	Jan.	22	17	15 58 10	61 42 55	734	Sand, broken coral.....	do	81	40
174 Ag.	F	Jan.	22	17	15 58 10	61 42 55	878	Fine grayish-brown ooze.....	do	80	39½
175 Ag.	G	Jan.	24	1	15 32 18	61 32 00	608	do	do	80	40½
176 Ag.	G	Jan.	24	2	15 32 18	61 30 55	391	Sand, brown ooze.....	Off Dominica.....	80	43½
177 Ag.	G	Jan.	24	3	15 32 18	61 30 10	118	Dark-brown ooze, sand.....	do	80	65
178 Ag.	G	Jan.	25	4	15 34 40	61 29 35	730	Sand, broken shell.....	do	80	61½
179 Ag.	G	Jan.	25	5	15 30 50	61 32 55	824	Yellow sand.....	do	79½	40
180 Ag.	G	Jan.	25	6	15 29 18	61 34 40	982	Sand, brown ooze.....	do	80½	20½
181 Ag.	G	Jan.	25	6	15 29 18	61 34 40	118	do	do	80	65
182 Ag.	G	Jan.	26	7	15 26 36	61 56 45	1, 151	do	do	81	20½
183 Ag.	G	Jan.	27	8	15 24 05	61 27 10	252	Sand, brown ooze.....	do	79	49½
184 Ag.	G	Jan.	27	9	15 24 35	61 26 45	91	Dark-brown mud, fine sand.....	do	79	69½
185 Ag.	G	Jan.	27	10	15 24 55	61 27 10	333	Fine sand, mud.....	do	80	44
186 Ag.	G	Jan.	27	11	15 21 40	61 25 20	98	do	do	80	66
187 Ag.	G	Jan.	28	12	15 14 10	61 24 20	410	do	do	79½	43

Dredgings made by the Blake, etc.—Continued.

Serial number.	Line.	Date.	Number of casts.		Latitude N.	Longitude W.	Depth.	Nature of bottom.	Locality.	Temperatures.		
			o	''						o	''	Surface.
		1879.					<i>Fath.</i>					
188 Ag.	G	Jan. 28	13	15	16	15	61 24 40	372	Fine sand, mud.....	Of Dominica.....	0	0
189 Ag.	G	Jan. 29	14	15	18	05	61 24 23	84	do.....	do.....	80	43
190 Ag.	G	Jan. 29	15	15	18	12	61 26 32	542	Fine dark sand, black specks.....	do.....	79	69
191 Ag.	G	Jan. 29	16	15	16	50	61 23 20	109	Fine dark sand.....	do.....	79	42
192 Ag.	G	Jan. 30	17	15	17	20	61 24 22	158	Fine sand, mud.....	do.....	79	64
193 Ag.	H	Feb. 5	1	14	43	48	61 11 25	169	Shell, sand, dark mud.....	Of Martinique.....	75	63
194 Ag.	H	Feb. 5	2	14	43	18	61 12 35	441	Fine yellow sand.....	do.....	79	51
195 Ag.	H	Feb. 5	3	14	42	35	61 13 15	501	Fine sand, ooze, black specks.....	do.....	80	41
196 Ag.	H	Feb. 6	4	14	38	50	61 14 20	1,030	Fine gray sand, ooze.....	do.....	80	41
197 Ag.	H	Feb. 6	5	14	37	00	61 15 58	1,234	Light-brown ooze.....	do.....	80	39
198 Ag.	H	Feb. 6	6	14	36	40	61 06 50	137	Rocky.....	do.....	79	39
199 Ag.												
200 Ag.	H	Feb. 7	7	14	31	55	61 07 28	472	Sand.....	do.....	80	41
201 Ag.	H	Feb. 9	8	14	34	40	61 08 25	565	Dark gray ooze.....	do.....	80	41
202 Ag.	H	Feb. 9	9	14	29	45	61 05 36	190	Sand, shell.....	do.....	80	40
203 Ag.	H	Feb. 10	10	11	28	50	61 05 40	96	Sand, broken shell.....	do.....	78	48
204 Ag.	H	Feb. 10	11	14	24	55	61 00 05	478	Fine sand, broken shell.....	do.....	79	61
205 Ag.	H	Feb. 10	12	14	25	15	60 56 35	332	do.....	do.....	80	42
206 Ag.	H	Feb. 10	13	14	26	18	60 55 09	170	Fine sand.....	do.....	80	45
207 Ag.	H	Feb. 11	14	14	19	34	60 58 25	826	Sand, ooze, broken shell.....	do.....	79	49
208 Ag.	H	Feb. 11	15	14	25	15	60 54 50	213	Hard.....	do.....	80	39
209 Ag.	H	Feb. 11	16	14	26	15	60 58 10	189	do.....	do.....	80	50
210 Ag.	H	Feb. 12	17	14	29	10	61 05 47	191	Rough.....	do.....	80	49
211 Ag.	H	Feb. 12	18	14	28	40	61 16 08	357	Fine sand.....	do.....		
212 Ag.	H	Feb. 12	19	14	32	38	61 06 40	317	Sand, ooze.....	do.....		
213 Ag.	H							357	do.....	do.....	80	45
214 Ag.	H	Feb. 12	20	14	30	45	61 08 40	892	Sand, ooze.....	do.....		
215 Ag.	I	Feb. 15	1	13	51	30	61 03 45	226	Sand, rock.....	Of St. Lucia.....	79	39
216 Ag.	I	Feb. 15	2	13	51	45	61 03 30	154	Fine sand.....	do.....	79	51
217 Ag.	I	Feb. 15	3	13	51	40	61 05 37	397	Ooze.....	do.....	79	54
218 Ag.	I	Feb. 15	4	13	49	12	61 04 50	164	Gray sand.....	do.....	80	43
219 Ag.	I	Feb. 15	5	13	49	50	61 03 50	151	do.....	do.....	80	56
220 Ag.	I	Feb. 16	6	13	50	15	61 03 45	116	Rock.....	do.....	79	57
221 Ag.	I	Feb. 16	7	13	54	55	61 06 05	423	Sand, ooze.....	do.....	79	56
222 Ag.	I	Feb. 16	8	13	58	37	61 04 45	422	do.....	do.....	80	42
223 Ag.	J	Feb. 18	1	13	08	24	61 13 50	146	Fine black sand.....	Of St. Vincent.....	80	42
224 Ag.	J	Feb. 18	2	13	06	36	61 12 45	114	Coral.....	do.....	79	56
225 Ag.	J	Feb. 18	3	13	04	30	61 12 55	458	Fine sand.....	do.....	79	57

226 Ag.	J	Feb. 19	4	13 09 05	61 16 20	424	Fine dark sand.....	do	794	424
227 Ag.	J	Feb. 19	5	13 10 10	61 18 15	572	Sand, ooze.....	do	80	409
228 Ag.	J	Feb. 19	6	13 11 20	61 19 48	785	..... do .....	do	81	394
229 Ag.	J	Feb. 20	7	13 13 50	61 20 40	1,004	..... do .....	do	794	394
230 Ag.	J	Feb. 20	8	13 13 20	61 18 45	464	Fine sand.....	do	81	414
231 Ag.	J	Feb. 20	9	13 12 10	61 17 18	95	Sand, broken shell.....	do	80	614
232 Ag.	J	Feb. 21	10	13 06 45	61 06 55	87	Coral.....	do	80	62
233 Ag.	J	Feb. 21	11	13 07 05	61 06 15	174	..... do .....	do	80	494
234 Ag.	K	Feb. 21	1	13 01 00	61 18 00	300	Fine sand, black specks.....	Off Bequia	804	47
235 Ag.	K	Feb. 21	2	12 57 10	61 25 25	1,507	Light-brown ooze.....	do	79	39
236 Ag.	K	Feb. 22	3	12 52 30	61 36 00	1,591	..... do .....	do	79	39
237 Ag.	K	Feb. 22	4	12 48 30	61 28 30	1,290	Gray ooze.....	Off Grenadines	804	384
238 Ag.	K	Feb. 23	5	12 46 10	61 23 35	126	Coral sand.....	do	794	56
239 Ag.	K	Feb. 23	6	12 46 20	61 25 00	338	Fine sand, ooze.....	do	80	454
240 Ag.	K	Feb. 23	7	12 32 45	61 29 15	164	Coral, broken shell.....	do	794	524
241 Ag.	K	Feb. 24	8	12 28 22	61 32 18	163	Sand, coral.....	do	80	53
242 Ag.	K	Feb. 24	9	12 23 35	61 35 25	842	Fine sand, ooze.....	do	80	304
243 Ag.	K	Feb. 24	10	12 20 35	61 35 50	171	Fine gray sand.....	do	794	514
244 Ag.	K	Feb. 24	11	12 12 05	61 45 15	792	Gray ooze.....	Off Grenada	72	39
245 Ag.	K	Feb. 25	12	12 07 55	61 50 45	1,010	..... do .....	do	77	39
246 Ag.	K	Feb. 25	13	12 05 45	61 45 40	154	Dark gray ooze.....	do	794	56
247 Ag.	K	Feb. 25	14	12 05 25	61 47 15	170	Gray ooze.....	do	80	534
248 Ag.	K	Feb. 25	15	12 02 33	61 47 15	159	Fine gray ooze.....	do	80	534
249 Ag.	K	Feb. 27	16	11 48 13	61 48 45	262	Coarse sand.....	do	804	47
250 Ag.	K	Feb. 27	17	11 43 15	61 53 00	421	Coral sand, ooze.....	do	804	414
251 Ag.	K	Feb. 27	18	11 35 30	62 03 05	381	..... do .....	do	80	444
252 Ag.	K	Feb. 27	19	11 30 05	62 03 45	306	Gray ooze.....	do	794	574
253 Ag.	K	Feb. 27	20	11 25 00	62 04 15	96	Coral, broken shell.....	do	794	574
254 Ag.	K	Feb. 27	21	11 21 00	62 11 00	164	Sand, shell.....	do	78	434
255 Ag.	K	Feb. 27	22	11 21 00	62 11 00	344	Brown ooze.....	do	80	444
256 Ag.	K	Feb. 27	24	11 32 30	62 11 00	370	Sand, ooze.....	do	80	444
257 Ag.	K	Feb. 28	28	12 07 15	61 47 10	552	Fine sand, ooze.....	do	80	404
258 Ag.	K	Feb. 28	29	12 09 40	61 46 45	159	Sand, ooze.....	do	80	534
259 Ag.	K	Feb. 28	31	12 03 15	61 46 25	291	..... do .....	do	794	47
260 Ag.	K	Feb. 28	30	12 03 30	61 47 10	340	..... do .....	do	80	62
261 Ag.	K	.....	.....	.....	.....	92	Fine sand.....	do	80	534
262 Ag.	K	Mar. 1	32	12 01 45	61 47 25	159	..... do .....	do	80	424
263 Ag.	K	.....	.....	.....	.....	416	Gray ooze.....	do	794	294
264 Ag.	K	Mar. 1	33	12 03 15	61 48 30	576	..... do .....	do	804	414
265 Ag.	K	Mar. 2	34	12 03 55	61 49 40	461	Coarse sand, ooze.....	do	81	294
266 Ag.	K	Mar. 2	35	12 05 20	61 49 40	627	Gray and brown ooze.....	do	80	294
267 Ag.	K	Mar. 2	36	12 04 30	61 51 25	935	Gray ooze.....	do	80	574
268 Ag.	K	Mar. 2	37	12 07 15	61 50 50	124	Coral.....	Off St. Vincent	804	66
269 Ag.	K	Mar. 3	38	13 07 55	61 05 36	74	..... do .....	do	794	414
270 Ag.	K	Mar. 3	39	13 06 18	61 09 30	458	Sand.....	Off Bequia	79	64
271 Ag.	K	Mar. 3	.....	13 05 10	61 13 00	76	Coral, broken shell.....	Off Barbados	794	594
272 Ag.	L	Mar. 5	1	13 04 12	59 36 45	103	..... do .....	do	794	534
273 Ag.	L	Mar. 5	2	13 03 05	59 36 18	209	Fine sand.....	do	80	524
274 Ag.	L	Mar. 5	3	13 00 20	59 36 20	218	Fine brown sand.....	do	794	61
275 Ag.	L	Mar. 5	4	12 58 33	59 36 45	94	Coral, broken shell.....	do	80	58
276 Ag.	L	Mar. 5	5	13 03 50	59 37 05	106	Coral.....	do	80	58
277 Ag.	L	Mar. 5	6	13 03 55	59 38 25	.....	.....	.....	.....	.....

Dredgings made by the Blake, etc.—Continued.

Serial number.	Line.	Date.	Number of cast.	Latitude		Longitude		Depth.	Nature of bottom.	Locality.	Temperatures.	
				X.	W.	Surface.	Bottom.					
		1879.		o' "	o' "			Fath.			°	°
278 Ag.	L	Mar. 6	7	13 04 50	59 37 40			69	Coral, shell .....	Off Barbados .....	78	68
279 Ag.	L	Mar. 6	8	13 01 00	59 30 42			118	Coral, broken shell .....	do .....	79½	58½
280 Ag.	L	Mar. 6	9	12 57 40	59 30 50			221	Sand .....	do .....	80	50½
281 Ag.	L	Mar. 6	10	12 54 48	59 26 30			288	Broken shell .....	do .....	80	46½
282 Ag.	L	Mar. 7	11	13 05 20	59 40 00			154	Sand, shell .....	do .....	81	56
283 Ag.	L	Mar. 7	12	13 05 05	59 40 50			236	Hard bottom .....	do .....	80	49
284 Ag.	L	Mar. 7	13	13 07 10	59 43 50			347	Sand .....	do .....	80	44½
285 Ag.	L	Mar. 7	14	13 05 12	59 37 18			13	Coral .....	do .....		
286 Ag.	L	Mar. 8	15	13 10 58	59 38 25			62	do .....	do .....		
287 Ag.	L	Mar. 8	16	13 11 25	59 38 20			7	Coral, sand, broken shell .....	do .....		
288 Ag.	L	Mar. 8	17	13 11 25	59 45 35			399	Hard .....	do .....	80	44½
289 Ag.	L	Mar. 8	18	13 11 25	59 48 15			713	Brown ooze .....	do .....	80½	40
290 Ag.	L	Mar. 9	19	13 11 54	59 38 45			73	Coral, sand, shell .....	do .....	80	70½
291 Ag.	L	Mar. 9	20	13 12 09	59 41 00			210	Coarse sand .....	do .....	79½	49½
292 Ag.	L	Mar. 9	21	13 13 55	59 33 50			56	Coral, sand, broken shell .....	do .....	80	64½
293 Ag.	L	Mar. 9	22	13 14 23	59 39 10			81	do .....	do .....	80	54½
294 Ag.	L	Mar. 9	23	13 14 18	59 40 10			136	Hard .....	do .....	80½	54½
295 Ag.	L	Mar. 9	24	13 14 18	59 41 12			180	do .....	do .....	80	50½
296 Ag.	L	Mar. 10	25	13 05 24	59 38 45			85	do .....	do .....	78	61½
297 Ag.	L	Mar. 10	26	13 02 36	59 37 45			123	Rock .....	do .....	80½	56½
298 Ag.	L	Mar. 10	27	13 03 28	59 37 40			120	do .....	do .....	80½	61
299 Ag.	L	Mar. 10	28	13 05 00	59 39 40			140	Coral, broken shell .....	do .....	80½	56½
300 Ag.	L	Mar. 10	29	13 06 50	59 39 50			82	do .....	do .....	80½	60

The following stations were occupied by Commander J. R. Bartlett on the *Blake*, from February to May, 1880. They are all, except the first three, in the western Caribbean, between Cuba, Jamaica, and Honduras:

Station.	Latitude N.	Longitude W.	Depth.	Nature of bottom.	Locality.	Temperatures.	
						Surface.	Bottom.
I	o ' "	o ' "	<i>Fath.</i> 145		9 miles E. ½ N. of Mathewtown, Gt. Inagua Island.	o	61½
IV	20 11 00	73 33 00	766	Hard coral sand, sponge.	Off east end of Cuba		40
IV	20 24 15	73 56 50	772	Coral sand, stones, shell.	.....do.....		39½
V			288	Sand mud, black specks.	3.3 miles SE. by E. ½ E. from San- tiago de Cuba Light.		55½
VI	17 51 50	76 45 00	250	Mud	Off Port Royal, Jamaica	80	56½
VII	17 28 30	77 30 00	610	Coral sand	South of Jamaica		41
VIII	17 45 00	77 58 40	322	do	do		52
IX	18 12 00	78 20 00	254	Mud	West of Jamaica.		
X	18 13 20	78 36 40	103	Coral	do		
XI	17 30 00	79 14 00	555	Coral sand, ooze	West of Pedro Bank		41
XIII			272	Coral	1 mile west of Georgetown, Grand Cayman Island.		56½
XIV			608	Coral sand	Off Grand Cayman Island		41
XV	18 51 00	83 07 00	803	Coral sand, ooze, pteropods.	East of Misteriosa Bank		41
XVII	18 22 20	87 21 30	41	Coral	South of Chinchorro Bank		79
XVIII	18 20 30	87 16 40	600	Coral sand, ooze	do		40½
XX	16 42 00	83 01 00	961	Coral sand, gray ooze.	Northeast of Honduras		39½
XXI	19 48 00	77 17 00	33	Coral	East of Cape Cruz, Cuba		
XXII	19 48 47	77 23 00	250	Mud	do		
XXIV			206	Coral sand	5 miles east of Cape Cruz, S. side Cuba.		
XXVI			297	do	1 mile N. of W. end Cayman Brac Island.		
XXIX	21 23 19	82 54 42	300	do	South of Isle of Pines		55
XXX	21 26 30	86 28 40	51		East of Cape Catoche, Yucatan		69
			109		Off entrance Port Royal, Jamaica.		

The following stations were occupied by the *Blake* during the dredging cruise of the summer of 1880:

Stations 301 to 308 are on the lines run off the northeastern extremity of George's Bank.

Station 309 is intermediate between the northeastern extremity of George's Bank and the next line run off Newport, which includes stations 310 to 312.

Stations 313 to 318 are in a line normal to the coast in about latitude 32° north.

Stations 319 to 323 are in a line parallel to the coast in the so-called axis of the Gulf Stream.

Stations 324 to 329, south off Cape Hatteras.

Stations 330 to 333, north off Cape Hatteras.

Stations 334 to 339, east off Cape May.

Stations 340 to 347, normal to coast southeast off Montauk Point.

*Dredgings by the Blake in 1880.*

Serial Number.	Line.	Date.	Number of cast.	Latitude		Longitude		Depth.	Nature of bottom.	Temperatures.	
				N.	W.	W.	W.			Surface.	Bottom.
		1880.		° ' "	° ' "			<i>Fath.</i>		°	°
301 Ag.	A	June 28	3	41 26 55	66 03 00			71	Yellow sand, black specks	55	42½
302 Ag.	A	June 28	4	41 30 00	66 00 00			73	Yellow sand, black specks, shells.	53	42½
303 Ag.	A	June 28	6	41 34 30	65 51 30			305	Gray sand, black specks, mud	61	40½
304 Ag.	A	June 28	8	41 35 00	65 57 30			139	No specimen	62	44
305 Ag.	A	June 28	9	41 33 15	65 51 25			810	Dark-gray mud, sand, stones	56½	39
306 Ag.	A	June 29	12	41 32 50	65 55 00			524	do	59	39½
307 Ag.	A	June 29	16	41 29 45	65 47 10			080	Dark-gray mud	68	38
308 Ag.	A	June 29	19	41 24 45	65 35 30			1,242	do	65	38
309 Ag.	A	June 30	22	40 11 40	68 22 00			304	Dark-gray mud, sand	67	40
310 Ag.	B	July 1	1	39 59 00	70 18 45			260	Green mud	60½	42
311 Ag.	B	July 1	3	39 59 20	70 11 30			143	Green sand, black specks	70½	45½
312 Ag.	B	July 1	6	39 59 30	70 11 00			466	Dark-green mud, green sand	71½	40
313 Ag.	C	July 12	3	32 31 50	78 45 00			75	Fine gray sand, black specks	81	61½
314 Ag.	C	July 12	4	32 24 00	78 44 00			142	Green sand, black specks	81	59½
315 Ag.	C	July 12	6	32 18 20	78 43 00			225	Green sand, black specks, broken shell.	80½	48
316 Ag.	C	July 12	9	32 07 00	78 37 30			229	Pebbles	82½	48
317 Ag.	C	July 12	11	31 57 00	78 18 35			334	Hard	85	42½
318 Ag.	C	July 12	14	31 48 50	77 51 50			337	Coral shell	84½	47
319 Ag.	C	July 13	20	32 25 00	77 42 30			262	Coral sand	84	48
320 Ag.	C	July 13	21	32 33 15	77 30 10			257	Gray sand, black specks, shells	84½	51
321 Ag.	C	July 13	23	32 43 25	77 20 30			233	Globigerina, ooze	84	53½
322 Ag.	C	July 14	29	33 10 00	76 12 30			362	Coral, sand, globigerina, ooze	84	46
323 Ag.	C	July 14	31	33 19 00	76 12 30			467	Globigerina, ooze	83	40
324 Ag.	C	July 14	33	33 27 20	75 53 30			1,386	do	84	30
325 Ag.	D	July 14	1	33 55 20	76 00 00			617	do	84½	30
326 Ag.	D	July 14	2	33 42 15	76 00 50			464	do	84	30½
327 Ag.	D	July 15	9	34 00 30	76 10 30			178	do	84	40½
328 Ag.	E	July 15	1	34 28 45	75 22 50			1,632	do	84½	37
329 Ag.	E	July 15	4	34 49 40	75 14 40			603	do	84½	39½
330 Ag.	E	July 16	13	35 41 03	74 31 03			1,047	Globigerina, ooze, clay	85	38½
331 Ag.	E	July 16	17	35 44 40	74 40 20			898	Globigerina, ooze	81	39
332 Ag.	E	July 17	21	35 45 30	74 48 00			203	do	79½	41½
333 Ag.	E	July 17	23	35 45 25	74 50 30			65	Clay	79	41
334 Ag.	F	July 18	1	38 20 30	73 26 40			395	Globigerina, ooze, clay	78½	50
335 Ag.	F	July 18	4	38 22 05	73 33 40			89	Gray sand, black specks	77½	46
336 Ag.	F	July 18	5	38 21 50	73 32 00			197	Fine gray sand, mud	77½	45
337 Ag.	F	July 18	6	38 20 08	73 23 20			740	Globigerina, ooze	70	39
338 Ag.	F	July 18	8	38 18 40	73 18 10			922	do	79	39
339 Ag.	F	July 18	10	38 16 45	73 10 30			1,186	do	78	39
340 Ag.	G	July 20	2	39 25 30	70 58 40			1,394	do	76½	38
341 Ag.	G	July 20	5	39 38 20	70 56 00			1,241	do	76	38
342 Ag.	G	July 20	6	39 43 00	70 55 25			1,002	Blue clay	70½	39
343 Ag.	G	July 20	8	39 45 40	70 55 00			732	Green sand	75½	39½
344 Ag.	G	July 21	12	40 01 00	70 58 00			129	do	74½	51
345 Ag.	G	July 21	13	40 10 15	71 04 30			71	Green mud, broken shell, sand	73	51
346 Ag.	G	July 21	14	40 25 35	71 10 30			43½	Green mud	75½	49
347 Ag.	G	July 21	15	40 50 00	71 22 30			24	Coarse black sand, yellow specks.	72½	60