

2272

2273

Diag. Cht. No. 1208-1, 1209-1, 1210-1

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey *Hydrographic*
Field No. Office No. *2272*
2273

LOCALITY

State *Massachusetts*
General locality *Buzzards*
Locality *Bay*

1896
~~194~~

CHIEF OF PARTY

J. C. Harris

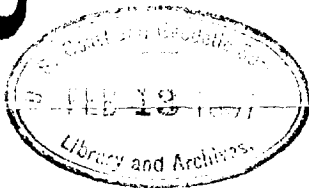
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DATE

2272

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83
SHA
2272, 2273
1896



U. S. COAST AND GEODETIC SURVEY.

Gen. W. W. Duffield, Superintendent.

State: Massachusetts.

DESCRIPTIVE REPORT.

Hydrographic Sheets Nos. 2272,
2273.

LOCALITY:

Duzzards Bay.

1896.

CHIEF OF PARTY:

Lieut. G. C. Hamus, U. S. N.

2273

U.S. AND G. SURVEY
LIBRARY AND ARCHIVE

83
SHA
2273
1896

Diag. Cht. No. 1208-1 & 1210-1

200 No1

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

W. W. Duffield
Superintendent.

State: *Mass*

DESCRIPTIVE REPORT.

Hyle Sheet No. *2272*

LOCALITY:

See

2272

1896
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CHIEF OF PARTY:

S. C. Harris

Paragraph 209.

2272 Sheet No 7.

Sippican Harbor, Pearsset Harbor, Red Brook Harbor and Approaches; with Approaches to Wareham, Ouset, Buzzards Bay Station and Buttermilk Bay.

Sheet No 8.

2273 Wareham and Ouset Harbor and Buttermilk Bay with Approaches.

Sheet No 4.

Mattapoisett Harbor and Approaches.

The table of statistics required by the Instructions pages 56, 57 and 58 is transmitted rolled up in the Sheets as directed.

As the field work on Sheet 4 still requires two or three weeks for completion and the records are retained for Office work, the latter will not be transmitted to the Office until sometime next year.

Descriptive Report.

Paragraph 209- (2) (3) (4) (5) (6) (8) (9) (10) (11)

The information asked for is already contained in the Sailing Directions and it would lengthen this report unnecessarily to report it here, but the following changes must be made in United States Coast Pilot, Atlantic Coast, Part III, From Cape Ann to Point Judith.

Page 99, Back River, Ouset River, Monument River, Cohasset Narrows and Duttonmill Bay.

After passing the common entrance which is quite narrow, between Kings flat and the Southern shore, there are two principal channels. The Eastern channel leads past Back and Monument Rivers to the entrance to Cohasset Narrows, which in turn leads to Duttonmill Bay. The least depth in this channel up to Monument River is 9 feet. This channel is well buoyed and free from dangers, and there is sufficient room and water for vessels of moderate size to anchor off Monument Beach outside of the channel. The Western channel leads to Ouset Bay, passing West of Mashuce Island. It is well buoyed, but very narrow in places, and the current between

Par 509. Memorandum for Draftsman.

By making a tracing of Sheet 7 and placing it on Sheet 8, it will be found that the two projections do not agree, the signals have therefore been separately determined on each Sheet; and are relatively correct on each Sheet.

To satisfy yourself of the relative correctness of any one of these signals, occupy any one signal with a paper protractor after having laid off every angle taken on the position and they will all agree. The discrepancy due to inaccuracy of projection is not sufficient to affect the accuracy of the work and was therefore disregarded.

An examination of the old chart shows that the head of the bay and the entire North shore of Buzzards Bay consists of broken and uneven bottom and might be considered as a succession of shoals; almost the entire section was therefore developed as a shoal; after the work was completed it was found that many of these Lines were unnecessary, but this could not be known before the work had been done, and it would have taken more time to run short pieces at close intervals than to

treat the entire space as a shoal.

While the work completed is very close, wherever navigation is impossible owing to bridges without draws the work is more open, and yet a sufficient number of soundings was taken to show the average depths at such places.

In Buttermilk Bay which no vessel can enter as the draws are closed and could not be opened at present, draws having been placed there in all probability merely to comply with the Law, the work is also done in an open manner, and in this place the work was done by using topographical points instead of our own signals. If the place were open to navigation I should not have been satisfied with this development, but as it is, it is amply sufficient.

For greater convenience in plotting the soundings or shoals, refer to the Table on Rocks, Shoals etc, in this report.

In plotting up the work on Centre-board Shoal 930 metres SW Δ Bird (Sheet No 7) the least water was not found. It will be further examined in the spring.

Hog Island and Hog Neck is very strong. There are no dangers after rounding the Eastern extremity of King's Flat, which should be given a wide berth. Seven feet may be safely carried into Onset Bay, and with a pilot 10 feet may be carried. Seven feet can be carried to the steamer wharf at Onset.

There is a channel from Onset Bay to Monument Beach which is used by local steamers. It is not buoyed and strangers should not attempt to use it.

There is little trade by water to any of the villages of these waters, except to Onset. Schooners, barges and excursion steamers enter the latter.

Pocasset and Red Brook Harbor. (Par 2).

Add: The channel is very crooked and full of dangers. Vessels of moderate size should not enter without a pilot. _____ Par 3 should read:

Red Brook Harbor is shallow - 6 feet can be taken into it at mean low water. The entrance is around the Northern end of Pocasset's Island, passing through Pocasset Harbor.

Add: Around the Southern end of Pocasset's Island there is a narrow passage where 5 feet may be carried into the Harbor of Bourne. Strangers should not attempt to use this channel.

Syngraph 209-7. Rocks. Old information in black. New information in red.

Sheet	Locality	Boat	Way	Position	Chart	Deepest water on chart	Deepest water actually found	Officer in charge of boat.	Remarks.
7	0.8 mile SxS @ Scrag Launch 22	C		22-26		6.0 ft	4.0 to 5.5 ft	W.D. Proctor	"South West Edge"
7	25 metres NNE @ Dark Launch 22	C		69			-1.1 ft	W.D. Proctor	
7	70 metres SSE @ Cove Launch 22	C		1		7.0 ft	-1.0 ft	W.D. Proctor	
7	340 metres SxN @ Lime Launch 22	K		33			-1.5 ft	W.D. Proctor	
7	160 metres SE @ Dip Launch 22	L		57-52			1.9 ft	W.A. Edgar	
7	530 metres West @ Ram Launch 22	O		1			-1.6 ft	W.D. Proctor	
7	220 metres North @ Bird Launch 22	O		54			1.8 ft	W.D. Proctor	
7	770 metres NNE @ Chin Launch 22	U		28			3.7 ft	W.D. Proctor	
7	770 metres NNE @ Chin Launch 22	U		29-34			0.2 to 3.3 ft	W.D. Proctor	of Rocks.
7	1.05 mile South @ Tom Launch 22	W		1			1.0 ft	W.A. Edgar	
7	440 metres SE @ Miller Launch 22	V		53			2.0 ft	W.D. Proctor	
7	930 metres N/2N @ Scrag Launch 22	d'		70		4.0 ft	0.1 ft	W.D. Proctor	"South West Edge"

Paragraph 209-7 Rocks. Old information in black. New information in red.

Sheet	Locality	Boat	Day	Position	Chart	Least water on	Least water actually found.	Officer in charge of boat	Remarks.
7	330 metres N.E. Δ Cove	Launch 23	a	16	✓		3.4 ft	W.D. Proctor	
7	At ○ Strait	Launch 23	t	7	✓		1.4 ft	W.D. Proctor	
7	50 metres East ○ Strait	Launch 23	t	17	✓		0.6 ft	W.D. Proctor	
7	340 metres S.S.E. ○ Strait	Launch 23	t	49	✓	●	3.1 ft	W.D. Proctor	"Pulpit Rock."
7	270 metres S.S.E. ○ Strait	Launch 23	t	50	✓	●	0.5 ft	W.D. Proctor	"Deacons' Seat."
7	560 metres S.E. ○ Ram	Launch 22	e	2-3	✓		2.0 ft	W.D. Proctor	
7	485 metres N.E. 1/2 S.E. ○ Cove	Launch 23	d	32	✓		0.7 ft	J.F. Hubbard	
7	225 metres N.E. ○ Cove	Launch 23	d	34	✓		1.5 ft	J.F. Hubbard	
7	160 metres S.S.E. ○ Ship	Launch 23	e	17	✓		4.1 ft	J.F. Hubbard	
7	230 metres N.E. S. Dark	Launch 22	s	29	✓		0.4 ft	J.F. Hubbard	
7	230 metres S.E. ○ Swine	Launch 23	s	33	✓		0.4 ft	J.F. Hubbard	
7	775 metres N.E. N.E. 1/2 Mill	Launch 23	w	43	✓		2.5 ft	W.D. Proctor	
7	780 metres N.E. ○ Wood	Launch 22	w	44-49	✓		2.5 ft	W.D. Proctor	6 rocks.
7	530 metres S.E. 1/2 S.E. ○ Deer	Launch 23	w	50-55	✓		4.4 ft	W.D. Proctor	6 rocks.
7	370 metres East ○ Deer	Launch 23	w	77	✓		1.1 ft	W.D. Proctor	
7	540 metres N.E. 1/2 Mill	Launch 23	w	82-84	✓		0.1 to 2.5 ft	W.D. Proctor	3 rocks.
7	610 metres N.E. 1/2 Mill	Launch 23	w	85	✓		2.4 ft	W.D. Proctor	
7	100 metres S.W. ○ South	Launch 23	w	86	✓		0.7 ft	W.D. Proctor	
7	195 metres S.E. Ship	Launch 23	x	55-58	✓		1.5 to 2.6 ft	W.D. Proctor	4 rocks
7	270 metres S.W. 1/2 South	Launch 23	x	75	✓		3.8 ft	W.D. Proctor	

Diagram 209 - "Rocks." Old information in black. New information in red.

Sheet	Locality	Draft	Way	Position	Chart	Least water	part water	officer in	Remarks.
						on	actually	charged of	
						found	boat.		
7	490 metres S.W. @ South	X	76	✓	4.3 ft	W.D. Proctor			
7	430 metres S.W. @ South	X	77	✓	4.3 ft	W.D. Proctor			
7	320 metres S.W. @ South	X	78	✓	4.2 ft	W.D. Proctor			
7	485 metres S.W. @ South	X	79	✓	4.7 ft	W.D. Proctor			
7	1500 metres S.W. @ Isle	X	94	✓	1.0 ft	3.3 ft	W.D. Proctor		Dry Edge Spinal.
7	490 metres N.W. @ Green	y	42	✓	1.2 ft	J.F. Hubbard			
7	250 metres S.E. @ Bird	y	14	✓	3.9 ft	W.D. Proctor			
7	720 metres S.W. @ Bird	y	126-127	✓	8.5 ft	8.4 to 9.0 ft	W.D. Proctor		North West Edge.
7	300 metres S.W. @ Bass	o'	9	✓	4.1 ft	W.D. Proctor			Entrance to Pass.
7	1040 metres N.W. @ Serag	o'	22-36	✓	4.0 ft	1.8 to 7.5 ft	W.D. Proctor		South West Edge.
7	320 metres South @ Bass	o'	60-66	✓	0.5 to 7.4 ft	W.D. Proctor			Entrance to Pass.
7	180 metres N.W. @ Bird	e'	92	✓	2.0 ft	J.F. Hubbard			
7	1/10 mile S.W. @ South	f'	58	✓	3.7 ft	J.F. Hubbard			
7	600 to 640 metres S.E. @ Bass	g'	9-12	✓	1.1 to 3.3 ft	W.D. Proctor			
7	1/10 mile S.W. @ Hob	h'	13	✓	1.4 ft	W.D. Proctor			
7	1/10 mile S.E. @ Hob	h'	23	✓	2.6 ft	W.D. Proctor			

Diagraph 209-7 "Rocks" Old information in black. New information in red.

Sheet	Locality	Boat	Day	Position	Chart	East water on	East water actually found.	Office in charge of boat.	Remarks.
7	200 metres E N E Strait	Thales Boat	a	64	✓		-0.5 ft	J. F. Hubbard	
7	200 metres E N E Strait	Thales Boat	a	73	✓		-3.0 ft	J. F. Hubbard	
7	830 metres S E @ Shore	Thales Boat	b	7	✓		0.2 ft	W. B. Proctor	
7	580 metres S E @ Shore	Thales Boat	b	8	✓		-2.4 ft	W. B. Proctor	
7	470 metres S S E @ Swim	Thales Boat	b	15	✓		-1.0 ft	W. B. Proctor	
7	500 metres S @ Bound	Thales Boat	c	32	✓		1.2 ft	W. B. Proctor	
7	450 metres N 1/2 S @ Ram	Thales Boat	d	62	✓	*	0.0 ft	W. B. Proctor	Near Key's Wharf
7	370 metres N 1/2 S @ Ram	Thales Boat	d	62	✓	4.5 ft	-0.5 ft	W. B. Proctor	
7	300 metres N @ Charles	Thales Boat	f	20	✓	6.0 ft	-1.3 ft	W. B. Proctor	
7	330 metres S E @ Key	Thales Boat	g	1	✓		1.8 ft	W. B. Proctor	
7	200 metres S W @ Key	Thales Boat	g	18	✓		1.9 ft	W. B. Proctor	
7	1500 metres N W @ King	Thales Boat	g	19	✓	12.0 ft	12.4 ft	W. B. Proctor	
7	1330 metres N W @ Auck	Thales Boat	g	20-25	✓	7.0 ft	3.5 to 12.9 ft	W. B. Proctor	
7	350 metres N x X @ Dinky	Thales Boat	i	1	✓		-0.3 ft	W. B. Proctor	
7	303 metres N W @ Epl	Thales Boat	l	11	✓		2.6 ft	W. B. Proctor	
7	400 metres N W @ Club	Thales Boat	l	15	✓		-3.5 ft	W. B. Proctor	
7	400 metres S W @ Club	Thales Boat	l	17	✓		2.5 ft	W. B. Proctor	
7	160 metres N W @ Wood	Thales Boat	m	59	✓		-4.0 ft	W. A. Edgar	
7	260 metres S E @ Cave	Thales Boat	q	1	✓	6.5 ft	11.4 ft	W. A. Edgar	
7	590 metres S E @ Cleve	Thales Boat	q	2	✓	6.0 ft	5.5 ft	W. A. Edgar	"Berry Rock."
7	750 metres S E @ Corn	Thales Boat	q	3	✓	9.0 ft	12.4 ft	W. A. Edgar	"Volant Rock."

Paragraph 209-7 "Rocks." Old information in black. New information in red.

Sheet	Locality	Boat	Day	Position	Chart	Seast water on found!	Seast water actually found!	Officer in charge of Boat.	Remarks.
7	150 metres NE ⊙	Law	Whale Boat	✓	47-48	12.0 ft	48.6 ± 0.8 ft	N. B. Proctor	
7	130 metres SE ⊙	Pete	Whale Boat	✓	49-52	8.0 to 13.0 ft	6.3 to 9.0 ft	N. B. Proctor	
7	350 metres ENE ⊙	Line	Whale Boat	✓	53	✓	-0.7 ft	N. B. Proctor	
7	130 metres East ⊙	Line	Whale Boat	✓	54	✓	-1.2 ft	N. B. Proctor	

Paragraph 309-7 "Rocks." Old information in black. New information in red.

Sheet	Locality	Boat	Day	Position	Chart	Least water on found boat.	Water actually charge of found boat.	Officer in charge	Remarks.
7	930 metres NW of Long Dinghy	b	1	✓	4.0 ft	0.0 ft	W.B. Proctor	"South West Ledge".	
7	200 metres NW of Smith Dinghy	f	21	✓		0.2 ft	W.B. Proctor		
7	450 metres SE of Brass Dinghy	h	14	✓		0.9 ft	W.B. Proctor		
7	300 metres SSE of Man Dinghy	l	1	✓		-1.5 ft	J.F. Hubbard		
7	250 metres NW of Mash Dinghy	l	24	✓		-1.7 ft	J.F. Hubbard		
7	150 metres NW of Man Dinghy	l	50	✓		-1.8 ft	J.F. Hubbard		
7	0.2 mile SE of Cleve Dinghy	n	1	✓		11.1 ft	J.F. Hubbard		
7	0.3 mile SE of Cleve Dinghy	n	3-4	✓		2.0 or 2.5 ft	J.F. Hubbard		
7	0.2 mile East of A Con Dinghy	n	5	✓		0.3 ft	J.F. Hubbard		
7	0.1 mile NE of A Con Dinghy	n	8	✓		4.6 ft	J.F. Hubbard		
7	0.1 mile NE of A Con Dinghy	o	1	✓		3.8 ft	J.F. Hubbard		
7	0.1 mile NE of Peak Dinghy	o	2	✓		2.7 ft	J.F. Hubbard		
7	1/10 mile N.W. of Del Dinghy	o	4	✓		4.7 ft	J.F. Hubbard		
7	150 metres SE of New Dinghy	o	6	✓		0.1 ft	J.F. Hubbard		
7	0.1 mile NW of Del Dinghy	o	8	✓		-0.4 ft	J.F. Hubbard		
7	0.3 mile NW of A Con Dinghy	o	1	✓		5.8 ft	W.B. Proctor		
7	0.2 mile NW of A Con Dinghy	o	2	✓		7.9 ft	W.B. Proctor		
7	0.2 mile NW of A Con Dinghy	o	3	✓		6.3 ft	W.B. Proctor		
7	0.2 mile NW of A Con Dinghy	o	4	✓	4.0 ft	4.0 ft	W.B. Proctor	"Lucie's Ledge"	
7	0.3 mile NW of A Con Dinghy	o	5	✓		6.0 ft	W.B. Proctor		

Paragraph 209-7 Rocks. Old information in black. New information in red.

Sheet	Locality	Boat	Day	Position	Chart	Least water found.	Least water on boat.	Officer in charge of boat.	Remarks.
7	180 metres South Bird Ringly	y	13	✓	6.5 ft	8.2 ft	1100	D. D. D. D.	Blank Rock.
7	280 metres S.S.E. Bird Ringly	y	14	✓	8.0 ft	8.9 ft	1100	D. D. D. D.	

Paragraph 209-7 "Rocks." Old information in black. New information in red.

Sheet	Locality	Boat	Description	Chart	Least water or actually found.	Least water	Officer in charge of boat.	Remarks.
7	0.1 mile N ^o Δ	Icon Dinghy	φ	6		1.7 ft	W.D. Proctor	
7	130 metres S ^o Δ	Sip Dinghy	φ	38		0.8 ft	W. Sanger	
7	135 metres S ^o Δ	Sip Dinghy	φ	59-60 61		1.4 - 1.8 - 1.9 ft	W. Sanger	
7	130 metres South Δ	Sip Dinghy	φ	62		- 1.9 ft	W. Sanger	
7	200 metres West Δ	Sip Dinghy	φ	63		3.5 ft	W. Sanger	
7	350 metres West Δ	Sip Dinghy	φ	64		1.5 ft	W. Sanger	
7	220 metres S ^o ○	Pole Dinghy	φ	65	5.0 ft	4.7 ft	W. Sanger	
7	230 metres S ^o ○	Pole Dinghy	φ	66		1.2 ft	W. Sanger	
7	0.2 miles N ^o N Δ	Pant Dinghy	φ	75-86		- 1.0 ft	W. Sanger	
7	450 metres East Ram	Dinghy	φ	87-89		- 1.0 ft	W. Sanger	
7	500 metres S ^o ○	Clew Dinghy	φ	90-92		4.1 to 6.6 ft	W. Sanger	
7	520 metres East Δ	Icon Dinghy	φ	93-94		1.6 + 4.6 ft	W. Sanger	
7	200 metres S ^o Δ	Sip Dinghy	u	1		4.0 ft	W.D. Proctor	
7	180 metres S ^o x	McLaren Dinghy	y	1	6.0 ft	5.8 ft	W.D. Proctor	
7	430 metres S ^o ○	Pole Dinghy	y	2-6	8.5 ft	8.0 to 10.6 ft	W.D. Proctor	Mudell's Rocks.
7	480 metres N ^o x	Bird Dinghy	y	7-8	13.0 ft	11.2 to 12.7 ft	W.D. Proctor	North West Ledge.
7	430 metres West ○	Bird Dinghy	y	8-9	7.0 to 9.0 ft	10.8 to 11.2 ft	W.D. Proctor	North West Ledge
7	430 metres West ○	Bird Dinghy	y	10	7.0 ft	8.0 ft	W.D. Proctor	North West Ledge
7	500 metres S ^o N	Bird Dinghy	y	11	8.5 ft	7.5 ft	W.D. Proctor	North West Ledge
7	1/2 mile S ^o W	Bird Dinghy	y	12	12.5 ft	15.5 ft	W.D. Proctor	

Paragraph 509-7 Rocks. Old information in black. New information in red.

Sheet	Locality	Boat	Day	Position	Chart	Loc. water on	Loc. water actually found	Officer in charge of Boat	Remarks.
8	0.4 mile, S.W. O	Obe Launch 22	d	1	✓		4.6 ft	W.A. Edgar	"Temper Knot Rock."
8	0.2 mile, South O	Tree Launch 22	d	2	✓		4.1 ft	W.A. Edgar	
8	0.2 mile, South O	Tree Launch 22	d	3	✓		16.1 ft	W.A. Edgar	
8	0.2 mile N.W. O	Club Launch 22	d	4	✓		-3.8 ft	W.A. Edgar	
8	0.4 mile S.W. O	Rock Launch 22	d	15	✓		2.6 ft	W.A. Edgar	
8	0.1 mile N.W. O	Board Launch 22	d	16	✓		2.0 ft	W.A. Edgar	
8	0.15 mile N.W. O	Board Launch 22	d	34	✓		-3.3 ft	W.A. Edgar	"The Dow."
8	0.2 mile S.W. O	Board Launch 22	d	35	✓		3.0 ft	W.A. Edgar	
8	0.2 mile S.W. O	Tree Launch 22	g	1	✓		12.4 ft	W.A. Edgar	
8	0.2 mile S.W. O	Tree Launch 22	g	2	✓		11.8 ft	W.A. Edgar	
8	0.2 mile S.W. O	Club Launch 22	y	101	✓		2.4 ft	W.A. Edgar	
8	0.1 mile N.W. O	Hog Launch 22	z	53	✓		-0.1 ft	W.A. Edgar	
8	0.1 mile South O	Rock Launch 22	z	88	✓		1.9 ft	W.A. Edgar	

Paragraph 209-7 Old information in black. New information in red.

Sheet	Locality	Boat	Day	Position	Chart.	Least water on	Least water actually found.	Officer in charge of Boat.	Remarks.
T	1430 metres South of Isle Launce	23	p	29	✓		2.0 ft	A. S. D. Proctor.	
F	700 metres S.W. of Isle Launce	23	t	21	✓		0.4 ft	J. F. Hubbard	Tempers Knot Rock
F	1/2 mile S.W. of Isle Launce	23	t	32	✓		2.1 ft	J. F. Hubbard	
F	1 mile S.W. of Isle Launce	23	t	60	✓	3.0 ft	6.6 ft	J. F. Hubbard	
F	280 metres S.W. of Chim	23	u	18-19	✓		0.0-0.4 ft	J. F. Hubbard	
				20	✓		0.4 ft	J. F. Hubbard	

Paragraph 209-7. Old information in black.

New information in red.

Sheet	Locality.	Boat	Day	Position	Chart.	Least water on found.	Least water actually found.	Officer in charge of Boat.	Remarks.
8	125 metres SxS of Sash Whale Boat		g	34-35 36	✓		0.9 - 2.47 4.4 ft.	J. F. Hubbard.	
8	0.2 mile South of Marsh Whale Boat		k	45-46	✓		0.4 - 1.0 ft.	M. A. Edgar.	
8	220 metres E of E of Free Whale Boat		w	66	✓		5.8 ft.	W. B. Proctor.	

Paragraph 209-7 Old information in black, New information in red.

Sheet	Locality	Boat	Day	Position Chart	Least water or actually found.	Least water actually found.	Officer in charge of Boat.	Remarks.
8	240 metres Ex. S. Train	Dinghy	b	14	16.0 ft	-1.9 ft.	W. B. Proctor.	
8	250 metres S. N. Dog	Dinghy	e	53	✓	0.6 ft.	W. B. Proctor.	
8	180 metres W. N. Dog	Dinghy	u	83-84 85-86	✓ ✓	3.0 to 6.0 ft.	W. B. Proctor.	
8	180 metres N. N. Dog	Dinghy	s	25	✓	-5.8 ft.	W. B. Proctor.	

Paragraph 509. 12.

Fresh water can be procured only from wells at Wareham, Monument Beach and Pocasset.

At Onset there are water works and pipes leading to the steamboat wharf where water can be procured.

At Marion by special arrangement water is delivered at the docks in casks.

Anthracite coal in limited quantities can be procured at Wareham, Onset, Marion and Pocasset.

Descriptive Report

Wharves and data relating to them.

Information with reference to wharves is given in the following table so arranged that any particular data required can be readily found.

Sheet	No of Wharf	Owners	Boat	Day	Position	Officer in Charge	Depths of outquod sides of wharves.
7			Whaleboat	S	10	W.B. Proctor	North Corner 3.3 ft
7			Launch 23	C'	104	W.B. Proctor	South Corner 4.6 ft
7		Kyle's Wharf	Whaleboat	X	8-9	W.B. Proctor	South to North 10.3 to 12.8 ft
7		Delano's Long Wharf	"	X	38-39	W.B. Proctor	West to East -1.2 to +5.4 ft
7		"	"	X	39-40	W.B. Proctor	South to North 6.4, 4.9 + 6.0 ft
7		"	"	X	40-41	W.B. Proctor	East to West 6.0 to 0.0 ft
7		George F. Luce Estate	"	X	54-55	W.B. Proctor	North to South 4.0 ft
7		Crocker's Coal Wharf	"	X	58-59	W.B. Proctor	North to South 4.5 ft
7		Willet Wharf	"	X	59-60	W.B. Proctor	North to South 5.6 to 0.6 ft
7		Delano's Wharf	"	X	61-62	W.B. Proctor	South to North 5.4, 4.9 + 5.4 ft
7		"	"	X	63-64	W.B. Proctor	South to North 3.9 to 4.4 ft
8		Burgess Wharf	"	✓	20	W.A. Edgar	Outer end 7.0 ft
8		Tremont Nail Company	"	✓	W	1-3-5 J.F. Hubbard	6.9, 10.4 + 6.9 ft
8		"	"	✓	W	7-11 J.F. Hubbard	7.9, 7.3 + 10.3 ft
8		"	"	✓	W	14-16 J.F. Hubbard	4.7, 7.2 + 2.7 ft
8		"	"	✓	W	20 J.F. Hubbard	7.1 ft.

Paragraph 209, 14.

No weather service nearer than New Bedford.

Paragraph 209, 15.

No branch hydrographic office, no station for reporting vessels, no special signals, no ice codes etc.

Paragraph 209, 16.

No marine railways nearer than New Bedford.

Paragraph 209, 17.

There is an excursion steamer between Quset and New Bedford during the summer and also a regular passenger steamer between Quset and Monument Beach.

There are telephone and telegraph stations at Marion, Wareham, Quset, Buzzards Bay, Monument Beach and Pocasset. Except during the summer season the telegraph station at Sippican or Marion village is discontinued, but telegrams can be sent and are received at the Railroad Station a little over a mile from the village.

There is more or less railroad communication

at all these places during the entire year.

Paragraph 209-19.

The most important of these places is Wareham and the information given in the Sailing Directions is quite complete, except so far as Ouset is concerned. This place has grown to a considerable extent in recent years. During the summer season it is a place which numerous excursions seek as a resort, and it is the summer headquarters in New England for a sect known as spiritualists. There is a street railway connecting the village with the railroad at Ouset junction distant $1\frac{1}{2}$ miles.

Sheet No 7.

○	N.O.	Signal, natural Object.	45
○	C.S.	" Constructed.	38
△	N.O.	Triangulation point, natural Object.	5
△	C.S.	" Constructed Signal.	5
Total			93

Name	Char.	Loc.	Description.
Range	○ C.S.	.7 of mile E.S. of Con on road with S's station & Con	White flag on pole on Allen's Point
Bush	○ C.S.	.8 of mile E x S of S from Con.	White flag in small pine tree on Allen's Point.
Hoist	○ N.O.	.6 mile S.E. of Con	Hoist is mast of denick on end of wharf at Ram Island.
Ram	○ N.O.	.7 mile S.E. of Con & .1 mile S of Hoist	Ram is S.E. Chimney of house on Ram Island.
Spit	○ C.S.	.1 mile E.S.E. of Con	Spit is red flag on sand spit on island at the entrance to Planting Cove
Wheel	○ N.O.	.12 mile E x S of Con	Windmill in Blankenship's Cove.
Crab	○ N.O.	.4 mile S.E. of Range	Large crab windmill on eastern shore of Planting Island Cove.
Plant	○ C.S.	.8 mile S.E. of Range	Plant is a large upright mast with white barrel & flags on Planting Island
Dark	○ N.O.	.1 mile N.W. of S Lip	Small shanty on Lippican neck.
Post	○ N.O.	.5 mile W. of S Lip	Chimney of house on Ruggles' Farm Lippican neck.

Name	On ^{Char} _{Act}	Location	Description
Bath	○	N.O., 6 mile E. N. O. Hiller	Bath is bath house on N. E. shore of Aucott Cove.
Hall	○	C.S., 4 mile E. Hall	Small red flag.
Stake	○	C.S., 2 mile N. O. Bound	Small red flag.
Bound	△	C.S., 2.1 mile N. W. W. Bird	Small tripod
Hiller	▲	C.S., 1.9 mile N. x N. Bird	Large tripod at entrance to Aucott's Cove on Point of land
Poor	○	N.O., 3 mile W. 1/2 N. Hiller	Cupola of Mattaposett poor house.
Cove	△	C.S., 2.0 miles N. S. W. Bird	Large tripod
Black	○	N.O., 6 mile N. x E. Range	Black is windmill.
Wash	○	N.O., 5 mile N. x N. of Range	Centre of bath house owned by Kellen.
High	○	N.O., 3 mile N. of Range	High is windmill.
Paul	○	C.S., 1 mile N. E. of King	Tripod on Kenanmet neck.
John	○	C.S., 2 mile N. E. of King	Tripod on Kenanmet neck.

Name	Char acter	Location	Description
New	○	N.O. 7 mile Nth Δ Con	New is a new barn near Old Landing, Inner Sippican Harbor
Peak	○	N.O. 4 mile NthW Δ Con	Carpola of Red Rock schoolhouse Marion.
Man	○	N.O. 3 mile NthW Δ Con	Windmill S.E. of Peak.
Del	○	N.O. 6 mile NthE Δ Con	Del is bath house owned by Mr Delano
Marion	Δ	N.O. 2 mile West Δ Con	Marion is spire of Marion Academy at Marion
Con	Δ	N.O. Cor of Main & South Streets	Con is spire of Congregational church at Marion
Cleve	○	N.O. 3 mile SE Δ Con.	Cleve is southern chimney of house formerly occupied by Pres Cleveland.
Shoe	○	N.O. 7 mile S Δ Con.	House with white trimmings. Stands alone.
Swim	○	N.O. 6 mile E.N Δ Bound	Small red bath house on Charles Neck,
Charles	○	C.S. 8 mile E.N.E. Δ Hiller 9 mile E.N.E. Δ Bound	Charles is red flag on Charles Neck.
Pole	○	N.O. 7 mile E.N Δ Hiller	Pole is flag pole on point at Charles Neck.
Blake	○	N.O. 7 mile E.N Δ Hiller	Blake is Windmill or base at Charles Neck.

Name	on Δ	char. act.	location	Description
Lip	Δ	C.S.	.5 mile N N E of Bird Island lho	large tripod on Butters Point
Bird	Δ	N.O.		Bird Island light house.
Tom	○	C.S.	.9 mile N x E Δ Lip	large tripod
Bill	○	C.S.	.2 mile N W x N Tom	Tripod in Kings Cove.
Stone	○	C.S.	.5 mile N W Tom.	Tripod in Kings Cove.
Jack	○	C.S.	.8 mile N N W Tom	Tripod in Kings Cove on an Island
Stump	○	C.S.	1.0 mile N N W Tom	Tripod in Kings Cove.
Nye	○	C.S.	.6 mile N x E Tom	Tripod on northern point of land at entrance to Kings Cove.
Boat	○	N.O.	1.0 mile S. W. O Isle	Boat is small boat house at Great Hill.
Hot	○	N.O.	1.0 mile S. W. O Isle	Hot is S.O chimney of Hotel at Great Hill
Barn	○	N.O.	1.0 mile S. W. O Isle	Barn is cupola of barn at Great Hill
Round	○	N.O.	1.0 mile S. W. O Isle.	Round is water tank on Great Hill

Name	Char etc.	Location	Description
Brick	○	N.O. 1.1 mile N N O Δ Mont	Southeast chimney of large house in South Pocasset
Green	○	N.O. 0.2 mile N x O Δ Mont	Large green windmill in Cataumet.
Law	○	N.O. 1.2 mile North Δ Mont	Southern Peak of house on northern point of Bassette Island
Pete	○	C.S. 0.2 mile N x N ○ Law	Small tripod on Nemaumet neck at entrance to Pocasset Harbor.
lime	○	C.S. 0.4 mile S. W. ○ Law	Prominent rock on Bassette Island
Bass	○	C.S. 0.6 mile S. W. ○ Law	Small tripod on Bassette Island on N.W. point
Shin	○	N.O. 0.03 mile East ○ King	Chimney of house to East of King's Neck light house.
neck	Δ	C.S. 0.1 mile N x O ○ King	neck is small tripod on Nemaumet neck
King	○	N.O.	King is the light house on Nemaumet neck
Rob	○	C.S. 0.9 mile S.E. ○ King	Rob is small tripod on Scraggy neck
Scrag	○	C.S. 0.9 mile S.E. ○ King	Scrag is large tripod on Scraggy neck
Shanty	○	N.O. 9 mile N Δ Con	Shanty is a low shanty on little neck

Name	on	Char act.	Location	Description
Bev	○	n.O.	0.7 miles north o. law	South chimney of Beverly Hatch Club's house.
Cream	○	n.O.	0.3 mile S.W. o Brick	Bath house in Pocasset
Trip	○	C.S.	0.4 mile north Δ mont	Small tripod on point of land at S. Pocasset.
Poke	○	n.O.	150 metres north Δ mont	Cupola of Barn in S. Pocasset
Mont	Δ	n.O.		Water tank at Beaumont
Coast	○	C.S.	0.5 mile N.W. Δ mont	Small tripod on Bassett's Island
Dinky	○	C.S.	0.5 mile N.W. Δ mont	Small tripod on Southern extremity of Bassett's Island.
Blue	○	n.O.	0.25 mile N.W. Δ mont	Wind mill in South Pocasset.
Crank	○	n.O.	0.5 mile West Δ mont	low house on Scraggy neck.
Spin	○	C.S.	0.7 mile N.W. Δ mont	Small flag on Scraggy neck.
Car	○	C.S.	0.25 mile N.W. Δ mont	Small tripod on northern end of Island at S. Pocasset.
Red	○	n.O.	0.25 mile E.S. o Club	Chimney of large house East of Cobey's Island.

Name	or Δ	Char act.	Location	Description
Isle	○	C.S.	Little Bird Island	Isle is large tripod on Little Bird Island
Shan	Δ	N.O.	1.2 mile East ○ Isle	Cupola of Mr O. Shoughness's house on Tempes Knob.
Obs	○	N.O.	1.1 mile S.E. Δ Shan	White flag on large observatory on Tempes Knob.
Rock	○	C.S.	1.2 mile E.S.E. Δ Shan	Small tripod on Western end of Mashree Island.
Tree	○	C.S.	1.3 mile E.S.E. Δ Shan	White flag in pine tree on Eastern end of Mashree Island.
Club	○	N.O.	2.1 mile S.E. Δ Shan	Chimney on Southeast end of Club house on Tobey's Island.
South	○	C.S.	0.4 miles S.W. ○ Club	Small tripod on Southern Point of Tobey's Island.
Mill	○	N.O.	0.4 miles S.E. ○ Club	Wind mill in North Pocasset.
Gray	○	N.O.	0.7 mile E.S.E. Δ Shan	Wind mill on Tempes Knob.
Wood	○	N.O.	0.4 mile N.N.E. ○ Law	Flag pole in Pocasset
Brook	○	N.O.	0.5 mile N.E. ○ Law	Cupola of barn in Pocasset
Gold	○	N.O.	0.2 mile N.E. ○ Law	Cupola of house in Pocasset East of Law ○

Name	Char o vs o c t w	Location	Description
Erik	o	C.S. 0.4 mile S.E. o Club	Small tripod in Tobey Island cove on oo with dynamite mill
Lynn	o	C.S. 0.5 mile S.E. o Club	Small tripod at entrance to Tobey Island cove.
Yel	o	N.O. 0.8 mile S.W. o Club	Chimney of yellow house in N. Poedrett.
Dil	o	C.S. 0.4 mile South o Club	Small tripod on Tobey's Island East of o South.
Peb	o	C.S. 0.7 mile N.E. o Con	Small tripod on Gravelly Island.
An	o	N.O. 0.8 mile N.E. o Con	Cupola of Mr Deland's barn on Little Neck.
Shot	o	C.S. 0.9 mile N.E. o Con	Small tripod in Bigg's Cove.
Oh	o	C.S. 1.0 mile North o Con	Small tripod in Bigg's Cove.
Tim	o	C.S. 1.1 mile N.E. o Con	Small tripod at head of Bigg's Cove.
Grand	o	C.S. 1.2 mile S.E. o Tree	Small flag.
Jim	o	C.S. 1.2 mile S.E. o Tree	Small flag.
Ship	o	.4 mile N.W. o Club	Smoke stack of launch.
Launch	o	.5 mile S.W. o Club	Smoke stack of launch.

Sheet No 8.

○	N.O.	Signal, Natural Object.	73
○	C.S.	" Constructed.	51
△	N.O.	Triangulation Point, Natural Object.	3
△	C.S.	" Constructed Signal.	1
Total			128

Name	on	Char.	Locality	Description.
Con	△	N.O.	Wareham Centre.	Spire of the Congregational Church at Wareham Centre.
Cath	△	N.O.	Wareham.	Spire of Catholic Church at Wareham
Vane	○	N.O.	0.3 mile S.E. Cath.	Vane is weather vane on large barn at Wareham
Smoke	○	N.O.	0.4 mile S.E. Cath.	Smoke is yellow chimney on E. corner of rolling mill at Wareham.
Cross	○	N.O.	0.2 mile E.S. Cath	Cross is railroad crossing pole on N. side of roadway at East end of bridge at Wareham.
First	○	N.O.	0.4 mile E.S. Cath	First is the first shanty opposite rolling mill as you enter Wareham.
Brush	○	C.S.	0.8 mile S.E. Cath	Brush small tripod with white and black flag.
Bite	○	C.S.	0.9 mile S.E. Cath	Bite is small tripod with white flag.
Pine	○	C.S.	0.9 mile S.E. Cath	Pine is small tripod with red, white & black flags on Burney's Point.
Ham	○	C.S.	0.6 mile S.E. Cath	Small tripod with white flag on Wareham neck

Name	Char on aster	Location	Description
Lone	○	N.O. 0.7 mile Sx E. Δ Cath	Lone is a small hut on Hareham neck.
Swift	○	C.S. 1.0 mile Sx E. Δ Cath	Swift is small tripod on Swifts neck
Low	○	N.O. 1.0 mile Sx E. Δ Cath	Low is low hut on Swifts neck
Clam	○	N.O. 1.0 mile South Δ Cath	Clam is chimney of house on Swifts neck in way between O's low + Air
Air	○	N.O. 0.5 mile N x E. Δ Crow	Air is wind mill
Blow	○	C.S. 0.4 mile N x E. Δ Crow	Blow is small tripod on Island at entrance of Mark's Cove and is on soo with O's Bar + Bright
Prom	○	N.O. 0.5 mile N x N. Δ Crow	Prom is prominent rock in Mark's Cove.
Fish	○	N.O. 0.9 mile N.E. Δ Crow	Fish is red house on long Beach Point
Bar	○	C.S. 0.4 mile N.E. Δ Crow	Bar is barrel beacon at Warren's Point.
Sand	○	C.S. 0.5 mile East Δ Crow	Sand is small tripod on Warren's Point.
Flat	○	N.O. 0.7 mile East Δ Crow	Flat is S.E. chimney of north house on Warren's Point.
Chim	○	N.O. 0.7 mile East Δ Crow	Chim is S.E. chimney of Southern house on Warren's Point.

name	on Δ	Char act.	Location	Description
Hot	○	N.O.	1.3 mile South Δ Crow	Hot is S.E. Chimney of hotel at Great Hill
Point	○	C.S.	100 meters East Δ Hot	Point is a flag at Great Hill.
Isle	○	C.S.	1.5 mile S.E. Δ Crow	Isle is large tripod on little Bird Island.
Cup	○	N.O.	1.1 mile East Δ Crow	Cupola of barn near Harvets Point
Bright	○	N.O.	1.4 mile E.S. Δ Crow	Wind mill.
Hill	○	C.S.	0.3 mile N.W. Δ Shan	Hill is tripod on Tempes Knob
Shan	Δ	N.O.	2.5 miles E.S.E. Δ Crow	Shan is cupola of Mr. O'Shaughnessy's house at Tempes Knob.
Obs	○	N.O.	0.2 mile S.E. Δ Shan	Obs is an observatory at Tempes Knob
Gray	○	N.O.	0.7 mile E.S.E. Δ Shan	Wind mill on Tempes Knob
Red	○	N.O.	0.5 mile N.E. Δ Shan	Cupola of red barn on Tempes Knob.
Stable	○	N.O.	0.8 mile North Δ Shan	Stable is cupola of barn with red roof at Onset
Lark	○	N.O.	1.1 mile N.N.E. Δ Shan	Lark is chimney of fish house with white window frames.

Name	On Δ	Character	Location	Description
White	0	N.O.	1.0 mile N.E. Δ Shan	White is white windmill on Hog Neck.
Stain	0	N.O.	1.0 mile N.E. Δ Shan	Stain is windmill with stained shingles, on Hog Neck.
Hog	0	C.S.	1.3 mile East Δ Shan	Hog is small tripod on the West end of Hog Island.
Rock	0	C.S.	1.3 mile E.S.E. Δ Shan	Rock is flag on West end of Mashree Island
Tree	0	C.S.	1.6 mile E.S.E. Δ Shan	Tree is flag in tree at Eastern end of Mashree Island.
Dark	0	N.O.	1.3 mile N.E. Δ Shan	Dark is second house, S of Onset Island, painted red. Tallest chimney.
Onse	0	C.S.	1.2 mile N.E. Δ Shan	Onse is flag on Southern extremity of Onset Island
Nick	0	N.O.	0.4 mile S.E. \circ Church	Nick is centre of cupola of house on Nickets Island.
Hotel	0	N.O.	0.4 mile E.S.E. \circ Church	Hotel is flag staff on cupola of hotel called Pine Tree Inn.
Steam	0	C.S.	0.1 mile S.E. \circ Church	Small flag on S.E. corner of steamboat wharf.
High	0	N.O.	0.1 mile S.W. \circ Church	High is a high windmill at Onset
Church	0	N.O.	1.4 mile N.N.E. Δ Shan	Church is red church spire at Onset.

Name	Char- acter	location	Description.
Sand	○	C.S. 0.6 mile N x E Train	Small flag on island
Ran	○	C.S. 0.6 mile N x E Train	Small flag from with sand fence in cutting a system of lines
Cork	○	N.O. 0.6 mile West of Church	Cork is a shanty
Shed	○	N.O. 0.6 mile S.W. of Church	Shed is a shanty
Bank	○	N.O. 0.5 mile S.W. of Church	Bank is a shanty
Tire	○	N.O. 0.6 mile S.W. of Church	Foremast of old schooner on beach.
Knoll	○	C.S. 0.5 mile South of Staff	Small flag at northern entrance to Back river.
Stall	○	N.O. 0.5 mile S of Staff	Cupola of barn.
Trog	○	C.S. 0.7 mile S.E. of Staff	Flag on prominent hill.
Bog	○	C.S. 0.8 mile S.E. of Staff	Small flag.
Sharp	○	N.O. 0.5 mile S.E. of Staff	Chimney of a house.
Pipe	○	N.O. 0.5 mile S.E. of Staff	Iron smoke stack

Name	Char act ^r	Location	Description
Taf	○	N.O. 0.2 mile N.E. N Train	But is small tripod on bluff between the first & second house to left of bridge Butter milk Bay
But	○	C.S. 0.3 miles N x E Train	Small tripod.
Jeff	○	N.O. 0.5 mile N x E. Train	Chimney of Joseph Jefferson's house.
Je	○	N.O. 0.5 mile N x E. Train	Je is small o opposite Jefferson's house and on ooo with same.
Ter	○	N.O. 0.7 mile N. E. x N Train	Small flag.
Milk	○	N.O. 0.7 mile N. E. x N Train	
Sou	○	N.O. 0.7 mile N. E. Train	
Bay	○	C.S. 0.8 mile N. E. Train	Small flag.
Core	○	C.S. 1.1 mile N x E. Train	Core is small flag on sand bluff near old sand wharf.
Mouth	○	C.S. 1.0 mile N x E. Train	Mouth is small o on sand bluff.
Ride	○	N.O. 1.1 mile N x E. Train	Small flag.
Ply.	○	C.S. 0.9 mile North Train	Ply is small o at right hand entrance to small creek approach Plymouth.

Name	On A	Character	Location	Description
Stake	○	N.O.	0.8 mile East ○ Staff	Chimney of slate colored house.
Lunch	○	C.S.	0.6 mile S.E. ○ Staff	Small flag.
Shrub	○	C.S.	0.6 mile S.E. ○ Staff	Small flag.
Stake	○	C.S.	0.7 mile South ○ Staff	Small flag on South side of entrance to Back River.
Shire	○	N.O.	1.2 mile East ○ Staff	Chimney of house.
Age	○	N.O.	0.7 mile East ○ Staff	Chimney of an old house.
Smelt	○	N.O.	0.6 mile S.E. ○ Staff	Fisherman's shanty.
Rain	○	C.S.	0.4 mile West ○ Church	Small flag.
Stop	○	C.S.	0.4 mile S.W. ○ Church	Small flag.
marsh	○	C.S.	0.3 mile N.E. ○ Staff	Small flag.
Grass	○	C.S.	0.4 mile N.N.E. ○ Staff	Small flag.
Pump	○	N.O.	0.3 mile N.E. ○ Staff	Wind mill S.E. of ○ Staff.

Name	Class	Location	Description
Fence	CS.	0.5 mile E. N.E. Staff	Small flag.
Pete	N.O.	0.6 mile N.E. Staff	Chimney of square red roofed house
Grand	N.O.	0.7 mile N.E. Staff	Large windmill at Buzzards Bay Station.
Track	N.O.	0.9 mile N.E. Staff	Signal pole on the railroad
Hen	CS.	1.0 mile N.E. Staff	Small flag.
Gus	CS.	1.1 mile N.E. Staff	Small flag.
Ike	CS.	1.1 mile E. N.E. Staff	Small flag.
Fish	CS.	1.4 mile E. N.E. Staff	Small flag.
Bray	CS.	1.3 mile E. N.E. Staff	Small flag
School	N.O.	1.3 mile E. N.E. Staff	School house in Monument Beach.
Gold	N.O.	0.7 mile S.E. Church	Golden ball on yellow house on Jacob's neck
Howe	N.O.	1.0 mile S.E. Church	Chimney of house on Jacob's neck

Name	On Δ	Char acter	Location	Description
Tank	○	N.O.	0.2 mile N. N. E. Church	Tank is large water tank at Onset
Pole	○	N.O.	1.0 mile E. S. ○ Church	Pole is flag pole on Jacobs neck
Wood	○	N.O.	0.6 mile North ○ Staff	Wood is ○ chimney of large house N. of RR bridge at entrance to Buttermilk Bay.
Train	○	N.O.	0.8 mile N. E. ○ Staff	Train is semaphore pole at W end of RR bridge at Buttermilk Bay.
Cone	○	N.O.	0.6 mile N. E. ○ Staff	Cone is conical shaped windmill at E end of RR bridge at Buzzards Bay Sta
Staff	○	N.O.	2.1 mile E. N. Δ Shan	Staff is flag pole in front of Pres Cleveland's residence.
Bluff	○	C.S.	0.3 mile S. N. N. ○ Staff	Bluff is flag on bluff south of ○ staff.
Wind	○	N.O.	0.3 mile S. N. ○ Staff	Wind is windmill near house S of Pres Cleveland's house Gray Gables
Board	○	N.O.	1.0 mile S. E. ○ Staff	Board is flag staff on hotel at Monument Beach.
Club	○	N.O.	2.2 mile S. E. E. Δ Shan	Club is N. chimney of club house on elevation on Bennets neck.
South	○	C.S.	2.3 mile S. E. Δ Shan	South is flag on Southern extremity of Bennets neck.

Name	Char-acter	Location	Description
Crow	△	C.S. 2.3 miles South △ Crow	Large tripod on Crowset Neck
Twin	○	N.O. 0.3 mile South △ Crow	Twin is windmill on point at Crowset Neck.
Flag	○	C.S. 0.3 mile South △ Crow	Flag is small tripod on Crowset Neck.
Top	○	C.S. 0.4 mile West △ Crow	Tripod in Neweantic River.
Shell	○	N.O. 0.5 mile W x S △ Crow	Small shanty.
Look	○	N.O. 0.5 mile W x S △ Crow	Cupola of house painted brown
Bath	○	N.O. 0.5 mile S.W. △ Crow	Bath house.
Can	○	N.O. 0.6 mile S.W. △ Crow	Can on pole.
Beach	○	C.S. 0.8 mile S.W. △ Crow	Small flag on Southern shore at the entrance to Neweantic River.
Old	○	N.O. 0.8 mile S.S.W. △ Crow	Old is the cupola of an octagonal shaped barn
Round	○	N.O. 1.2 mile South △ Crow	Round is water tank at Great Hill
Barn	○	N.O. 1.3 mile South △ Crow	Barn is cupola of barn at Great Hill

Name	Co. & Char. act.	Location	Description
Square	Co. H.O.	0.9 mile N.E. Δ Shaw	Square cupola of large house on hog neck.
Plum	Co. C.S.	0.7 mile S.S.E. Δ Cath	Flag in tree at entrance to Johnson's Creek.
Hum	Co. C.S.	0.8 mile S.E. Δ Cath	Small flag.
Cab	Co. H.O.	0.9 mile S.E. Δ Cath	Small fish house on Barney's Point
Fly	Co. C.S.	0.2 mile West Δ Crow	Small flag in Neweantic River
Limb	Co. C.S.	0.6 mile N.W. Δ Crow	Flag in tree
Last	Co. C.S.	0.9 mile N.W. Δ Crow	Small flag.
Branch	Co. C.S.	1.0 mile N.W. Δ Crow	Flag in tree
Swamp	Co. C.S.	0.2 mile West Δ Crow	Small flag.
Tap	Co. H.O.	0.2 mile N.E. ○ Hind	Large Windmill
Stack	Co. H.O.	0.4 mile S.E. ○ Bright	Smoke stack of steam launch

Specimens.

While for purposes of Navigation specimens of the bottom in our work may be of little value, still for scientific purposes they may be of use and specimens have been taken. The bottles containing them are retained on board until a sufficient number have been obtained in the spring when the whole number will be transmitted to the Office.

Tides.

Ensign J. T. Hubbard was placed in charge of tidal data for the season of 1896. The following data is prepared by him.

Tide Gauges.

On April 24, 1896 a staff gauge was set up in the sheltered angle of a stone wharf at Great Hill. Comparisons were made with the standard gauge at Clark Pt. (fully described in Ensign's report 1895) and during the season a man was constantly stationed at Great Hill to observe day tides.

As noted in the report of 1895, the tides of this vicinity are of simple character and differ in no respect (except extent of rise) at Clark Pt., Great Hill, and sub-stations set up as the work progressed. Either Clark Pt. or Great Hill can be used for reducing soundings on these sheets (7+8) but - as a check - the sub-gauges were read when work was being done in their immediate vicinity. At the beginning of each day's work will be found a note stating what gauge record was used to reduce soundings.

In addition to the gauge at Great Hill were established staff gauges at:

Marion. - This gauge is located on 5th pile from outer western side of coal wharf and was used to reduce soundings taken in Nippican Harbor.

Wareham. - This gauge was set up at wharf used by Tobey's Grain Store at the foot of Bowen's Hill. It was never used as it was "carried away" by a merchant-vessel coming to the wharf.

Upper Wareham. - This gauge was set up on pier of a bridge crossing the Wareham river and was used to reduce soundings taken in Wareham river and above the bridge.

Onset. - This gauge was set up beside the boat landing and steps of "Steamer Wharf" in Onset harbor; used for soundings taken in Onset harbor.

Buzzard's Bay Station. - This gauge was set up on the bridge - north of R.R. bridge at Buzzard's Bay Station. It was used for soundings taken in Buttermilk Bay.

Williams's Landing. - This gauge was set up on a temporary structure used by Mr. Williams as a boat landing on the place owned by him. It was used for work in the immediate vicinity.

Tides.

Comparison of gauges:-

Clark Pt. ('95 standard)	M. L. W. reading	2.0 feet.
Great Hill	"	2.0 "
Marion	"	2.3 "
Wareham	"	5.1 "
Onset	"	4.1 "
Upper Wareham (Bridge)	"	5.1 "
Buzzard's Bay Station	"	4.3 "
William's Landing	"	1.4 "

Bench Marks.

- Clark Pt. - fully described in Eagan's report of 1895
- Great Hill. - B.M. No. 1 is an iron band supporting spile on which tide gauge is nailed, corresponding to reading 8 feet and 6 tenths (8.6')
- B.M. No. 2 - two wire nails driven in spile, corresponding to reading of 8 feet (8')
- B.M. No. 3 - a screw and four iron nails driven in first spile E.S.E. of gauge, corresponding to reading on gauge of 4 feet + 9 tenths (4.9')
- Marion. - B.M. is 5 nails in form of a cross (⋈) on 5th spile from outer end of wharf (shore side) - center of cross corresponds to seven foot mark (7')
- Upper Wareham. - B.M. is nine copper nails thus (⋈) driven in spile to which gauge is attached, on right side of gauge with center opposite nine foot mark (9')
- Onset. - B.M. a gash in spile on which gauge is nailed. In the gash are 3 nails. Their plane corresponds to ten foot mark (10') on gauge.
- Buzzard's Bay Station. - B.M. is made on 9 iron nails and a brass screw, marking letter E (thus ⋈) 1/4 inch from gauge on wharf. Screw corresponds to reading of twelve feet (12') on gauge.

Tides.

Tidal Data:-

The results obtained from observations at Clark Pt. and inclosed in report of 1895 from this vessel are true of gauges used in reducing soundings during the present season. An additional Table of results obtained at Great Hill is given. The gauges at Great Hill, Marion and Madapoiset show the same increase of rise over Clark Pt, i.e. $\frac{1}{2}$ ft.

Great Hill:

Plane of reference - M.L.W.		on gauge	2.00 ft.
Mean Rise above M.L.W. -----	4.0'	" "	6.00 "
Rise of highest-tide observed (above M.L.W.)	6.0'	" "	8.00 "
Lowest fall observed (below M.L.W.)	1.6'	" "	.4 "

There were no unusual tides.