A. S. Like-saving Service.

INSTRUCTIONS TO MARINERS
IN CASE OF
SHIPWRECK.



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## LIFE-SAVING SERVICE.

# INSTRUCTIONS TO MARINERS

IN CASE OF

# SHIPWRECK,

WITH INFORMATION CONCERNING THE

### LIFE-SAVING STATIONS

UPON THE

COASTS OF THE UNITED STATES.

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1881.

TREASURY DEPARTMENT,
Document No. 75.
Life-Saving.

# TREASURY DEPARTMENT, U. S. LIFE-SAVING SERVICE, WASHINGTON, D. C., January 15, 1881.

The following pages contain such information and instructions as the experience of the Life-Saving Service has shown it desirable that navigators should possess, with the view of securing their effectual co-operation with the station crews in efforts to rescue persons from their vessels when wrecked or imperiled.

The book is prepared in a form convenient to be carried always upon the person for ready reference if necessary, but it is hoped that the part required to be performed on shipboard in operating with the breeches-buoy or life-car may be thoroughly learned by masters of vessels and also by their subordinate officers, if not their crews, in order that they may act with the greatest promptitude.

SUMNER I. KIMBALL.

General Superintendent.

### GENERAL INFORMATION.

Life-saving stations, life-boat stations, and houses of refuge are located upon the Atlantic and Pacific seaboard of the United States, the Gulf of Mexico, and the Lake coasts, as shown in the list in the latter part of this book, the latitude and longitude being given so far as determined.

All stations on the Atlantic coast from the eastern extremity of the State of Maine to Cape Fear, North Carolina, are manned annually by crews of experienced surfmen from the 1st of September until the 1st of May following.

Upon the Lake coasts the stations are manned from the opening until the close of navigation, and upon the Pacific coast they are open the year round, but, with the exception of stations Nos. 3 and 7, are not manned, depending upon volunteer effort from the neighboring people in case of shipwreck.

All life-saving and life-boat stations are fully supplied with boats, wreck-gun, beach apparatus, restoratives, &c.

Houses of refuge are supplied with boats, provisions, and restoratives, but not manned by crews; a keeper, however, resides in each throughout the year, who after every storm is required to make extended excursions along the

coast with a view of ascertaining if any shipwreck has occurred and finding and succoring any persons that may have been cast ashore.

Houses of refuge are located exclusively upon the Florida coast, where the requirements of relief are widely different from those of any

other portion of the seaboard.

Most of the life-saving and life-boat stations are provided with the International Code of Signals, and vessels can, by opening communication, be reported or obtain the latitude and longitude of the station where determined, information as to the weather probabilities in most cases, or, if crippled or disabled, a steam tug or revenue cutter will be telegraphed for, where facilities for telegraphing exist, to the nearest port if requested.

All services are performed by the life-saving crews without other compensation than their wages from the Government, though, in view of the meagerness of their pay, they are not prohibited from receiving such rewards for labor performed or risks incurred at wrecks as owners or masters of vessels or other persons may see fit to voluntarily bestow upon them, but they are strictly forbidden to solicit such rewards.

Destitute seafarers are provided with food and lodgings at the nearest station by the Government as long as necessarily detained by the circumstances of shipwreck. The station crews patrol the beach from two to four miles each side of their stations four times between sunset and sunrise, and if the weather is foggy the patrol is continued through the day.

Each patrolmen carries Coston signals. Upon discovering a vessel standing into danger he ignites one of them, which emits a brilliant red flame of about two minutes' duration, to warn her off, or should the vessel be ashore to let her crew know that they are discovered and assistance is at hand.

If the vessel is not discovered by the patrol immediately after striking, rockets or flare-up lights should be burned, or if the weather be foggy guns should be fired to attract attention, as the patrolman may be some distance away on the other end of his beat.

Masters are partiularly cautioned, if they should be driven ashore anywhere in the neighborhood of the stations, especially on any of the sandy coasts where there is not much danger of vessels breaking up immediately, to remain on board until assistance arrives, and under no circumstances should they attempt to land through the surf in their own boats until the last hope of assistance from the shore has vanished. Often when comparatively smooth at sea a dangerous surf is running which is not perceptible four hundred yards off shore, and the surf when viewed from a vessel never

appears as dangerous as it is. Many lives have unnecessarily been lost by the crews of stranded vessels being thus deceived and attempting to land in the ships' boats.

The difficulties of rescue by operations from the shore are greatly increased in cases where the anchors are let go after entering the breakers, as is frequently done, and the chances of saving life correspondingly lessened.

### INSTRUCTIONS.

Rescue with the Life-Boat or Surf-Boat.

The patrolman after discovering your vessel ashore and burning a Coston signal hastens to his station for assistance. If the use of a boat is practicable, either the large life-boat is launched from its ways in the station and proceeds to the wreck by water, or the lighter surf-boat is hauled overland to a point opposite the wreck and launched, as circumstances may require.

Upon the boat reaching your vessel, the directions and orders of the keeper (who always commands and steers the boat) should be implicitly obeyed. Any headlong rushing and crowding should be prevented, and the captain of the vessel should remain on board, to preserve order, until every other person has left.

Women, children, helpless persons, and passengers should be passed into the boat first.

Goods or laggage will positively not be taken into the boat until all are landed. If any be passed in against the keeper's remonstrance he is fully authorized to throw the same overboard.

Rescue with the Breeches-Buoy or Life-Car.

Should it be inexpedient to use either the lifeboat or surf-boat, recourse will be had to the wreck-gun and beach apparatus for the rescue by the breeches-buoy or the life-car. A shot with a small line attached will be fired across your vessel.

Get hold of the line as soon as possible and haul on board until you get a tail-block with a whip or endless line rove through it. This tail-block should be hauled on board as quickly as possible to prevent the whip drifting off with the set or fouling with wreckage, &c. Therefore, if you have been driven into the rigging where but one or two men can work to advantage, cut the shot-line and run it through some available block, such as the throat or peak hallards block or any block which will afford a clear lead, or even between the ratlines, that as many as possible may assist in hauling

Attached to the tail-block will be a tally-board with the following directions in English on one side and French on the other:

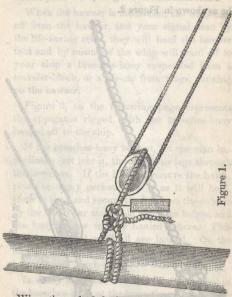
"Make the tail of the block fast to the lower mast, well up. If the masts are gone, then to the best place you can find. Cast off shot-line, see that the rope in the block runs free, and show signal to the shore."

The above instructions being complied with the result will be as shown in Figure 1 on the following page.

As soon as your signal is seen a three-inch hawser will be bent on to the whip and hauled off to your ship by the life-saving crew.

If circumstances will admit, you can assist

the life-saving crew by manning that part of the whip to which the hawser is bent and hauling with them.

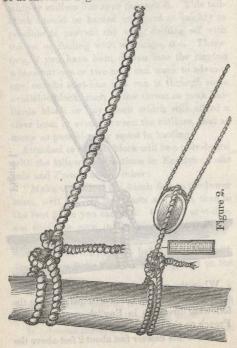


When the end of the hawser is got on board a tally-board will be found attached, bearing the following directions in English on one side and French on the other:

"Make this hawser fast about 2 feet above the

tail-block, see all clear, and that the rope in the block runs free, and show signal to the shore."

These instructions being obeyed the result will be as shown in Figure 2.



Take particular care that there are no turns of the whip-line round the hawser before making the hawser fast.

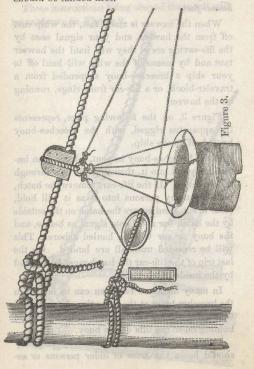
When the hawser is made fast, the whip cast off from the hawser, and your signal seen by the life-saving crew, they will haul the hawser taut and by means of the whip will haul off to your ship a breeches-buoy suspended from a traveler-block, or a life-car from rings, running on the hawser.

Figure 3, on the following page, represents the apparatus rigged, with the breeches-buoy hauled off to the ship.

If the breeches-buoy be sent, let one man immediately get into it, thrusting his legs through the breeches. If the life-car, remove the hatch, place as many persons into it as it will hold, (four to six,) and secure the hatch on the outside by the hatch-bar and hook, signal as before, and the buoy or car will be hauled ashore. This will be repeated until all are landed. On the last trip of the life-car the hatch must be secured by the inside hatch-bar.

In many instances two men can be landed in the breeches-buoy at the same time by each putting a leg through a leg of the breeches and holding on to the lifts of the buoy.

Children when brought ashore by the buoy should be in the arms of older persons or securely lashed to the buoy. Women and children should be landed first.



In signalling as directed in the foregoing instructions, if in the daytime, let one man separate himself from the rest and swing his hat, a handkerchief, or his haud; if at night, the showing of a light, and concealing it once or twice, will be understood; and like signals will be made from the shore.

Circumstances may arise, owing to the strength of the current or set, or the danger of the wreck breaking up immediately, when it would be impossible to send off the hawser. In such a case a breeches-buoy or life-car will be hauled off instead by the whip, or sent off to you by the shotline, and you will be hauled ashore through the surf.

If your vessel is stranded during the night and discovered by the patrolman, which you will know by his burning a brilliant red light, keep a bright lookout for signs of the arrival of the life-saving crew abreast of your vessel.

From one to four hours may intervene between the burning of the light and their arrival, as the patrolman will have to return to his station, perhaps three or four miles distant, and the lifesaving crew draw the apparatus or surf-boat through the sand or over bad roads to where your vessel is stranded.

Lights on the beach will indicate their arrival, and the sound of cannon-firing from the shore may be taken as evidence that a line has been fired across your vessel. Therefore upon hearing the cannon make strict search aloft, fore and aft, for the shot-line, for it is almost certain to be there. Though the movements of the life-saving crew may not be perceptible to you, owing to the darkness, your ship will be a good mark for the men experienced in the use of the wreck-gun, and the first shot seldom fails.

of the current or set, or the danger of the wreck breaking up immediately, when a would be impossible to send off the hawser. In such a case a breeches bucy or life-car will be hauled off instead by the whip, or sent off to yoldy the shotline, and you will be hauled astore through the

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and the same or are connected in the last same and the same between the taken as evidence that a line has been

### RECAPITULATION.

Remain by the wreck until assistance arrives from the shore unless your vessel shows signs of immediately breaking up.

If not discovered immediately by the patrol, burn rockets, flare-up, or other lights, or, if the weather be foggy, fire guns.

Take particular care that there are no turns of the whip line round the hawser before making the hawser fast.

Send the women, children, helpless persons, and passengers ashore first.

Make yourself thoroughly familiar with these instructions, and remember that on your coolness and strict attention to them will greatly depend the chances of success in bringing you and your people safely to land.

# LIST OF

LIFE-SAVING DISTRICTS AND STATIONS

ON THE

COASTS OF THE UNITED STATES.

# LIFE-SAVING DISTRICTS AND STATIONS ON THE COASTS OF THE UNITED STATES.

FIRST DISTRICT.

### EMBRACING COASTS OF MAINE AND NEW HAMPSHIRE.

	Name.			Approximate position.						
To.		State.	Locality.		I	at. 1	v.	Lon	g. V	٧.
				THE STATE OF	0	1	11	0	,	11
1	West Quoddy Head	Me	Carrying Point Cove		_ 44	48	25	66	58	25
2	Cross Island	Me	Off Machiasport		_ 44	37	28	67	16	20
3	Crumple Island	Me_	Off Jonesborough		_ 44	28	30	67	37	00
4	Little Cranberry Island		Off Mount Desert			t de	term	ined.		
5	Whitehead Island		Near Whitehead light			58	41	69	07	3
6	Biddeford Pool		Fletcher's Neck			26	32	70	20	0
7	Locke's Point					59	31	70	45	01

### SECOND DISTRICT.

### EMBRACING COAST OF MASSACHUSETTS.

1	Plum Island	Mass	Near Newburyport, 3 miles distant	42	47	05	70	48	41
2	Davis Neck	Mass	Near Annisquam light	42	40	03	70	40	03
3	Scituate	Mass	South end of fourth cliff	Not	de	erm	ined.		
4	Gurnett's	Mass	8 miles northeast of Plymouth	42	00	10	70	35	50
5	Manomet Point	Mass	7 miles southeast of Plymouth	41	55	29	70	32	18
6	Race Point	Mass	5 mile northeast of Race Point light, Cape Cod.	42	04	120	70	13	58
7	Peaked Hill Bar	Mass	21 miles northeast of Provincetown,	42	04	34	70	08	54
8	Highlands	Mass	Cape Cod.  Table northwest of light, Cape Cod	42	02	47	70	04	05
9	Parmet River	Mass	3½ miles south of Highland light	41	59	59	70	00	53
10	Cahoon's Hollow	Mass	2½ miles east of the town of Wellfleet_	41	56	38	69	58	40
1	Nausett	Mass	13 miles south of lights	41	50	29	69	56	20
2	Orleans	Mass	Abreast of Ponchet Island	41	45	31	69	55	3
13	Chatham	Mass	2 miles north of Chatham light	41	42	12	69	56	34
4	Monomoy	Mass	2 miles north of Monomoy light	41	36	00	69	58	41
15	Surfside	Mass	21 miles south of the town of Nantucket	41	14	33	70	08	36

Ö

THIRD DISTRICT.

### EMBRACING COASTS OF RHODE ISLAND AND LONG ISLAND.

No.	Name.	Name. State. Locality.	Approximate position.							
No.	Name.	State.	Locality.	1	Lat. N.			Long. W.		
2	THE RESERVE OF THE PARTY OF THE	Market 1	of sense some of regeneral regres	0	,	"	0	,	"	
1	Narragansett Pier	R. I _	Northern part of the town	41	25	59	71	27	04	
2	Point Judith	R.I.	Near light-house	41	21	38	71	28	54	
3	Watch Hill	R.I_	Near light-house	Not determ ined.						
4	New Shoreham	R. I.	Block Island, east side, near landing	41	10	30	71	33	07	
5	Block Island	R. I _	Block Island, west side, near Dicken's Point.	41	09	41	71	36	13	
6	Montauk Point	N.Y.	At the light	41	04	07	71	51	00	
7	Ditch Plain	N.Y.	3 miles southwest of Montauk light	41	02	19	71	54	38	
8	Hither Plain	N.Y_	½ mile southwest of Fort Pond	41	01	33	71	57	26	
9	Napeague	N.Y.	Abreast Nepeague Harbor	40	59	38	72	02	24	
10	Amagansett	N.Y_	Abreast of the town	40	58	05	72	07	24	
11	Georgica	N.Y.	1 mile south of East Hampton	40	56	35	72	11	19	

			The statement of the st	-			-			
12	Bridgehampton	N.Y.	2 miles south of town	40	54	06	72	17	41	
13	Southampton	N.Y.	3 mile south of town	40	52	13	72	23	07	
14	Shinnecock	N.Y_	3 miles from head of Shinnecock Bay	40	50	40	72	27	30	
15	Tyana	N.Y_	4 miles east of Quogue	40	49	36	72	31	16	
16	Quogue	N.Y_	mile south of the village	40	48	23	72	35	41	
17	Tanner's Point	N.Y.	1½ miles southwest of Patunk village	40	47	52	72	39	01	
18	Moriches	N.Y.	21 miles southwest of Speonk village	40	46	25	72	42	49	
19	Forge River	N.Y.	31 miles south of Moriches	40	44	56	72	48	12	
20	Smith's Point	N.Y.	Abreast of the point	40	43	51	72	52	20	
21	Bellport	N.Y.	4 miles south of the village	40	42	42	72	55	46	
22	Blue Point	N.Y.	4½ miles south of Patchogue	40	40	40	73	01	15	
23	Lone Hill	N. Y.	4½ miles south of Sayville	40	39	46	73	04	27	
24	Point of Woods	N.Y.	5 miles south of Islip	40	38	55	73	08	11	
25	Fire Island	N.Y_	East side Fire Island Inlet	40	37	34	73	13	36	
26	Oak Island, east end	N.Y.		40	38	15	73	17	39	
27	Oak Island, west end	N.Y.	Locality	40	37	16	73	22	24	
28	Jones's Beach, east end.	N.Y_		40	36	27	73	25	20	
29	Jones's Beach, west end_	N.Y.	6 miles south of South Oyster Bay	40	36	10	73	28	43	
			TEL DIRECTO LETT CARLINGS							

22 Car 6		-	72 72 72						
No.	Name.	State.	T W	A	ppro	xima	te po	sitio	n.
347	Oak Island, suit and	state.	Locality.	40.1	Lat.	N.	Lo	ng, 1	w.
	Fire Island	N.Y.	East side Fire Island Infot.	10	34	11	70	III.	"
0.	Short Beach	N.Y_	1 mile east of Jones's Inlet	No			ined.	08	TE
1	Discontinued.	N.A.	Af miles south of Bayville	WO?			13		
2	Long Beach, east end	N.Y.	2 miles west of Jones's Inlet	40	35	18	73	35	47
3	Long Beach, west end	N.Y.	Near Lucy's Inlet	40	35	03	73	39	09
4	Hog Island, west end	N.Y_	Near Hog Island Inlet	40	35	22	73	43	50
5	Rockaway Beach	N.Y.	Near the village of Rockaway	40	35	25	73	46	55
6	Rockaway Beach	N.Y.	West end	40	34	15	73	51	08
7	Coney Island	N.Y.	Manhattan Beach	40	34	21	73	56	06
8	Eaton's Neck	N.Y_	East side entrance to Huntington Bay,	40	57	12	73	23	45
		22	Long Island Sound.	100				28	100
	Shianwork	Z L	3 miles from hear of Sittemerors, bayer	46	26	10	181	582	900
			glunila sould of lower Section and						

# FOURTH DISTRICT. EMBRAGING COAST OF NEW JERSEY.

1	Sandy Hook	N. J.	383 yards east of main light	40	27	42	73	59	34
2	Spermaceti Cove	N. J.	East of the upper end of cove	40	25	39	73	58	50
3	Seabright	N. J.	About a mile south of Navesink lights	40	22	46	73	58	11
4	Monmouth Beach	N. J.	3½ miles south of Navesink lights	40	20	30	73	58	07
5	Long Branch	N. J.	Near Green's Pond	40	16	36	73	58	43
6	Deal	N. J.	Near the town, 328 yards north of Great Pond.	40	14	00	73	59	29
7	Shark River	N. J.		40	11	25	74	00	19
8	Wreck Pond	N.J.	2½ miles below Shark River	40	09	20	74	00	56
9	Squan Beach	N. J_	1 mile southeast of Squan village	40	06	52	74	01	43
10	Point Pleasant	N. J_	At the head of Barnegat Bay	40	03	58	74	02	20
11	Swan Point	N. J_	2½ miles below head of Barnegat Bay	40	01	37	74	03	15
12	Green Island	N. J_	5 miles below head of Barnegat Bay	39	59	06	74	03	33
13	Tom's River	N. J.	On the beach abreast of its mouth	39	56	15	74	04	30
14	Island Beach	N. J.		39	53	42	74	04	57
15	Forked River	N. J.	REAL PARENTS OF SECURITION OF	39	51	06	74	05	16

No.	No. Name.				Approximate position.						
110.					Lat. N.			Long. W.			
16 17 18 19 20 21 22 23 24 25	South end Island Beach Barnegat Loveladies Island Harvey Cedars Ship Bottom Long Beach Bond's Little Egg Little Beach Brigantine	N. J. N. J. N. J. N. J. N. J.	North side of Barnegat Inlet South side of Barnegat Inlet On the beach abreast of the island  Near the light north of inlet South side of Little Egg Inlet  \$\frac{1}{2}\$ miles above Absecom light	o 39 39 39 39 39 39 39 39	48 45 43 40 38 35 31 30 27 25	" 08 34 47 23 13 03 59 05 23 23	0 74 74 74 74 74 74 74 74 74 74	, 05 06 07 08 10 13 15 17 19	" 40 12 01 13 42 03 16 28 28 02		
26 27	Discontinued. Atlantic City	N. J.	Near Absecom light	39	21	57	74	24			
28	Absecom	N. J_	3 miles below the light	39	20	45	74	27	27		

							100	0.0	-
29	Great Egg	N. J_	6 miles below the light			02		30	
30	Beazleys	N. J.	South side of the inlet	39	17	10	74	34	30
31	Peck's Beach	N. J_	31 miles above Corson's Inlet	39	14	47	74	36	29
32	Corson's Inlet	N. J.	Near the inlet, north side	39	12	59	74	38	06
33	Ludlam's Beach	N. J_	3½ miles above Townsend's Inlet	39	09	42	74	40	41
34	Townsend's Inlet	N. J.	Near the inlet, north side	39	07	30	74	42	21
35	Stone Harbor	N. J_	3½ miles above Hereford Inlet	39	03	35	74	44	50
36	Hereford Inlet	N. J_	Near Hereford light	39	00	14	74	46	55
37	Turtle Gut	N. J_	6 miles above Cape Island City	38	58	39	74	50	34
38	Two-Mile Beach	N. J_	4 miles above Cape Island City	38	57	08	74	51	00
39	Cape May	N. J.	2 miles above Cape Island City	38	56	01	74	54	-00
40	Cape May	N. J.	Near the light	38	55	50	74	57	36
41	Bay Shore	N. J_	2½ miles west of Cape Island City	38	56	37	74	58	03

FIFTH DISTRICT.

### EMBRACING COAST BETWEEN CAPE HENLOPEN AND CAPE CHARLES.

No.	Name.	Name.	State. Locality.	A	ppro	xima	te pos	sitio	n.
				I	at.	N.	Loi	ng. V	V.
1	Cape Henlopen	THE PER VI	Zesa dechina de la companya de la co	38	46	5 5 5 5 6 6 7	o 75		43
2 3	Rehoboth Beach Indian River Inlet	E PROPERTY.				term 40	ined.		30
4 5	Ocean City Green Run Inlet	1 15 14	Just north of town	1 18	t de	1	ined.	13	15
6	Pope's Island	_ Md	The state index against the state of the sta	No	t de	term	ined.		
7 8	Cedar Inlet		Abreast of Assateague light South end of Cedar Island	753	54 35	10	75 75	19 36	35 20
9	Hog Island	1000	South end of Hog island.  South end of Cobb's Island.	317.000		45 20	75 75	41	00
11		- 1 SS - B	South end of Smith's Island		06	20	75	55	00

SIXTH DISTRICT.

### EMBRACING COAST BETWEEN CAPE HENRY AND CAPE FEAR.

1	Cape Henry	Va	36 55 30	76	00	30
2	Seatack	Va	Not determ	ined.		
3	Dam Neck Mills	Va	Not determ	ined.		
4	Little Island	Va_	Not determ	ined.		
5	False Cape	Va	36 38 15	75	53	00
6	Deal's Island	N.C.	Not determ	ined.		
7	Old Currituck Inlet	N.C. Manual Manual Color Indiana Manual	Not determ	ined.		
8	Jones's Hill	N. C. Currituck Beach	36 22 00	75	49	00
9	Poyner's Hill	N.C.	Not determ	ined.		
10	Caffey's Inlet	N.C.	Not determ	ined.		
11	Paul Gamiel's Hill	N.C.	Not determ	ined.		
12	Kitty Hawk	N. C.	Not determ	ined.		
13	Kill Devil Hills	N. C.	Not determ	ined.		
14	Nag's Head	N. C. 8 miles north of Oregon Inlet.	35 55 30	75	36	15
15	Tommy's Hummock	N. C.	Not determ	ined.		
16		N. C. 1 mile south of Oregon Inlet.	The same and the s	75	32	60

No.	Nag a Mana	Name. State. Locality.		Approxima	nate position.				
NO.	Kill Devil Hills			Lat. N.	Long. W				
TS	Kitty Hawk	720		0 / 1/	0 11	, ,			
17	Pea Island	N.C.		Not determ	ined.				
18	Chicamicomico	N.C.	5 miles south of New Inlet	35 35 30	75 2	7 30			
19	Cedar Hummock	N. C.		Not determ	ined.				
20	Little Kinnakeet	N.C.	Caratach Beach	35 24 30	75 2	8 30			
21	Big Kinnakeet	N. C_	6 miles north of Cape Hatteras light-	Not determ	ined.				
22	Creed's Hill	N. C.	house.  4½ miles west of Cape Hatteras light-house.	Not determ	ined.	3 .0			
23	Hatteras	N. C.		Not determ	ined.				
24	Cape Lookout	N. C.	Station not yet built.	Not detern	Ined.				
25	Cape Fear	N.C.	Station not yet built.	Mor determ	inea.				

# SEVENTH DISTRICT. EASTERN COAST OF FLORIDA.

-					
1	Thirteen miles north of	Fla _		Not determined.	
2	Indian River Inlet.		Saint Lucie Rocks	Not determined.	
3	Orange Grove	Fla _	Cano - Buenanos of Cheranga Hari	Not determined.	
	Fort Lauderdale		Dato - Entrance of Fairport Harbe	Not determined.	,
5	Biscayne Bay	Fla _	- 1 Fa   Entrapes of Erie Harbor D	Not determined.	

# EIGHTH DISTRICT.

1	Sabine Pass	Tex_	- N. Y - Fast side of mouth of Salary	Not determined.
2	Galveston, east end of	Tex_	Station not yet built.	
3	island. Galveston, west end of island.	Tex_		Not determined.
4	Pass Cavallo	Tex		Not determined.
5	Aranzas Pass	Tex -	ING DEFINE PRICE SEND DESTRICT	Not determined.
6	Brazos Santiago	Tex_	Station not in operation	Not determined.

### NINTH DISTRICT.

### EMBRACING LAKES ERIE AND ONTARIO.

No.	Name.	State.	Locality.
1	Big Sandy Creek	N. Y	East side of mouth of Big Sandy Creek, Lake Ontario.
2	Salmon Creek	N. Y	East side of mouth of Salmon Creek, Lake Ontario.
3	Oswego	N. Y	Entrance of Oswego Harbor, Lake Ontario.
4	Charlotte	N. Y	Entrance of Charlotte Harbor, Lake Ontario.
5	Buffalo	N. Y	In the harbor, Buffalo, Lake Erie.
6	Presque Isle	Pa	Entrance of Erie Harbor, Lake Erie.
7	Fairport	Ohio	Entrance of Fairport Harbor, Lake Erie.
8	Cleveland	Ohio	Entrance of Cleveland Harbor, Lake Erie.
9	Marblehead Point	Ohio	Marblehead Island, near Quarry Docks, Lake Erie.

### TENTH DISTRICT.

## EMBRACING LAKES HURON AND SUPERIOR.

1	Sand Beach Harbor	Mich	Lake Huron. Station not yet built.
2	Point aux Barques	Mich	Near light-house, Lake Huron.
3	Port Austin	Mich	Lake Huron. Station not yet built.
4	Ottawa Point (Tawas)	Mich	Near light-house, Lake Huron.
5	Sturgeon Point	Mich	Near light-house, Lake Huron.
6	Thunder Bay Island	Mich	Near light-house, Lake Huron.
7	Middle Island	Mich	Lake Huron. Station not yet built.
8	Forty-Mile Point	Mich	Hammond's Bay, Lake Huron.
9	Vermillion Point	Mich	Lake Superior.
10	Seven miles west of Vermillion	Mich	Lake Superior.
11	Point. Two Heart River	Mich	Near mouth of Two Heart River, Lake Superior.
12	Sucker River	Mich	Near mouth of Sucker River, Lake Superior.
13	Ship Canal	The same of	

### ELEVENTH DISTRICT.

# LAKE MICHIGAN. Anthonography of her payer

No.	Bucket Black Name.	State.	car month of Sucker Locality, to Substitute
	TWO HEST MARK	March -	ear mouth of Two Mear, Liver, Dake Superior.
1	Beaver Island	Mich	Near light-house.
2	North Manitou Island	Mich	Near Pickard's wharf.
3	Sleeping Bear Point	Mich	Station not yet built.
4	Point au Bec Scies	Mich	Near light-house.
5	Manistee	Mich	In the harbor.
6	Grand Point au Sable	Mich	Near light-house.
7	Ludington	Mich	In the harbor.
8	Muskegon	Mich	In the harbor at Port Sherman.
9	Grand Haven	Mich	Entrance of harbor.
0	Saint Joseph	Mich	In the harbor.
1	Chicago	III	In the harbor.
2	Grosse Point	Ill	Evanston, Ill., on Northwestern University grounds
3	Kenosha	Wis	In the harbor, on Washington Island.

74	Racine	Wis	In the harbor.	
			Near entrance of harbor.	
	222211000000000000000000000000000000000	A CONTRACTOR OF THE PARTY OF TH	Entrance of harbor.	
	phonolem		Entrance of harbor.	
	THO INTOID TELEBRINE			
18	Bayley's Harbor	Wis	Station not yet built.	

### TWELFTH DISTRICT.

### PACIFIC COAST.

1	Neah Bay		On Indian reservation.
2	Shoalwater Bay	Wash. T_	Near light-house boat-landing.
3	Cape Disappointment	Wash, T.	Baker's Bay.
4	Cape Arago	Oreg	Coos Bay, near light-house.
5	Humboldt Bay	Cal	Near light-house.
6	Bolinas Bay	Cal	Station not yet built.
7	Golden Gate Park	Cal	On beach in Golden Gate Park, San Francisco.
8	Point Concepcion	Cal	Station not yet built.

34

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