

**THE PACIFIC COASTER'S
NAUTICAL
ALMANAC FOR THE
YEAR 1898 TO 1906**

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The Pacific Coaster's Nautical Almanac for the Year 1898 to 1906 by Various

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VARIOUS

**THE PACIFIC COASTER'S
NAUTICAL
ALMANAC FOR THE
YEAR 1898 TO 1906**

THE
PACIFIC COASTER'S
NAUTICAL ALMANAC
16866

FOR THE YEAR

1898

FIRST EDITION

PUBLISHED BY AUTHORITY OF THE SECRETARY OF THE NAVY

WASHINGTON
BUREAU OF EQUIPMENT
1897

CONTENTS.

	Page
Notices respecting Government publications for the use of Navigators.....	3
Notice to Mariners	4
Ephemeris of the Sun for Greenwich Apparent Noon.....	6-29
Mean Places of one hundred and fifty Fixed Stars for the beginning of 1898.....	30-32
Latitude by observed Altitude of Polaris.....	33
Reduction of Mean Solar into Sidereal Time.....	34, 35
Explanation of the Ephemeris of the Sun.....	36
Latitude by Meridian Altitude of the Sun.....	37
Longitude by Chronometer.....	37, 38
Tide tables.....	39-63
Tidal Constants.....	64-74
Sunrise and Sunset Tables for San Francisco, Cal.....	75-77

**NOTICE RESPECTING GOVERNMENT PUBLICATIONS FOR THE USE OF
NAVIGATORS.**

The original publications of the various Government Bureaus, from which the Coaster's Almanac has been compiled, may be obtained from the leading dealers in Nautical publications in the principal cities of the United States, generally at prices not exceeding the estimated cost of printing and paper.

The following is a list of these and of kindred Nautical publications:

PUBLICATIONS OF THE NAUTICAL ALMANAC OFFICE.

The American Ephemeris and Nautical Almanac;
The American Nautical Almanac;
The Pacific Coaster's Nautical Almanac.

PUBLICATIONS OF THE HYDROGRAPHIC OFFICE.

These comprise—

The American Practical Navigator;
Pilot Charts of the North Atlantic and North Pacific;
Notices to Mariners; Weekly Bulletins;
Foreign Light List;
Sailing Directions;
Charts of Foreign Coasts, etc.

Detailed notices and suggestions respecting these publications are given in the notice to mariners on the next page.

PUBLICATIONS OF THE UNITED STATES LIGHT-HOUSE BOARD.

A detailed official list of light-houses may be obtained free of charge by any shipmaster by addressing a request to that effect to the Light-House Board, Treasury Department, Washington, D. C.

PUBLICATIONS OF THE UNITED STATES COAST AND GEODETIC SURVEY.

The charts, tide tables, and other publications of the Coast Survey may generally be obtained from the same dealers who supply the publications of the Navy Department.

NOTICE TO MARINERS.

For the purpose of gathering and disseminating information upon subjects connected with navigation, Branch Hydrographic Offices have been established in the following cities:

Boston, in the Custom-house; New York, Maritime Exchange; Philadelphia, Maritime Exchange; Baltimore, Custom-house; Norfolk, Custom-house; Savannah, Custom-house; New Orleans, Maritime Association; Chicago, Masonic Temple; San Francisco, Merchants' Exchange; Portland (Oregon), Chamber of Commerce; Port Townsend, Custom-house.

These offices are being supplied with all publications of the Hydrographic Office and Coast Survey, and those of the British Admiralty of ground not covered by the publications of the two U. S. Offices; and any information which may be derived from these or other sources is at the disposal of the maritime community, or others interested in maritime affairs, free of charge.

Copies of the following publications are furnished upon application: Weekly Notice to Mariners, U. S. Beacon and Buoy List, U. S. Light List. Copies of the North Pacific Pilot Chart and the weekly Hydrographic Bulletin are supplied to all cooperating with this Office in obtaining the information covered by them. Standard barometers and thermometers, with which the ship's instruments may be compared, are kept at each Branch Office.

Copies of the Pilot Chart, and all Notices to Mariners, will also be found in the offices of the United States consuls in all parts of the world. To assist in the preparation of the Pilot Chart, masters of vessels are requested to send to the branch offices of the port where they arrive a notice giving the limits of the trade winds, the position of all wrecks, floating spars, icebergs, waterspouts, and any danger which they may have encountered.

Masters of vessels making extended voyages are asked to keep the log books prepared by the Hydrographic Office.

Those who will keep these logs will be supplied gratuitously with general sailing charts for their voyage. These logs may be obtained from the branch offices or by application to the Hydrographic Office in Washington.

Abstract journals to enter storm data, and other blanks, can also be obtained.

All persons connected with navigation are earnestly requested to join with the Hydrographic Office in endeavoring to extend the scope and usefulness of this work and render it as valuable as possible to the maritime interests.

THE PACIFIC COASTER'S

NAUTICAL ALMANAC.

AT GREENWICH APPARENT NOON.									
Day of the Week.	Day of the Month.	THE SUN'S					Sideral Time of Semi-diameter Passing Meridian.	Equation of Time, to be Added to Apparent Time.	Diff. for 1 Hour.
		Apparent Right Ascension.	Diff. for 1 Hour.	Apparent Declination.	Diff. for 1 Hour.	Semi-diameter.			
		h m s	"	° ' "	"	' "			
Sat.	1	18 48 33.88	11.037	S. 22 59 1.6	+12.81	16 18.37	71.04	m 3 55.32	1.177
SUN.	2	18 52 58.55	11.021	22 53 40.7	13.94	16 18.37	70.98	4 23.36	1.160
Mon.	3	18 57 22.85	11.004	22 47 52.4	15.07	16 18.37	70.92	4 51.02	1.143
Tues.	4	19 1 46.73	10.986	22 41 37.1	+16.20	16 18.36	70.86	5 18.26	1.126
Wed.	5	19 6 10.18	10.967	22 34 54.8	17.32	16 18.35	70.81	5 45.08	1.108
Thur.	6	19 10 33.16	10.947	22 27 45.7	18.43	16 18.33	70.75	6 11.42	1.088
Frid.	7	19 14 55.65	10.927	22 20 10.2	+19.53	16 18.30	70.69	6 37.29	1.067
Sat.	8	19 19 17.63	10.905	22 12 8.3	20.62	16 18.26	70.63	7 2.64	1.045
SUN.	9	19 23 39.08	10.882	22 3 40.3	21.71	16 18.22	70.56	7 27.47	1.023
Mon.	10	19 27 59.98	10.859	21 54 46.4	+22.78	16 18.18	70.48	7 51.74	1.000
Tues.	11	19 32 20.31	10.835	21 45 26.9	23.84	16 18.13	70.40	8 15.46	0.975
Wed.	12	19 36 40.05	10.810	21 35 42.0	24.89	16 18.07	70.32	8 38.57	0.950
Thur.	13	19 40 59.18	10.784	21 25 32.0	+25.93	16 18.00	70.23	9 1.08	0.925
Frid.	14	19 45 17.69	10.757	21 14 57.1	26.96	16 17.93	70.14	9 22.96	0.899
Sat.	15	19 49 35.54	10.730	21 3 57.7	27.98	16 17.86	70.05	9 44.21	0.871
SUN.	16	19 53 52.73	10.702	20 52 34.1	+28.98	16 17.78	69.96	10 4.79	0.842
Mon.	17	19 58 9.25	10.673	20 40 46.5	29.97	16 17.70	69.86	10 24.69	0.814
Tues.	18	20 2 25.06	10.643	20 28 35.3	30.95	16 17.61	69.76	10 43.89	0.785
Wed.	19	20 6 40.15	10.613	20 16 0.9	+31.91	16 17.52	69.66	11 2.38	0.755
Thur.	20	20 10 54.50	10.582	20 3 3.6	32.86	16 17.42	69.56	11 20.12	0.724
Frid.	21	20 15 8.11	10.551	19 49 43.7	33.79	16 17.32	69.46	11 37.11	0.693
Sat.	22	20 19 20.94	10.519	19 36 1.6	+34.71	16 17.22	69.35	11 53.36	0.661
SUN.	23	20 23 33.00	10.486	19 21 57.8	35.61	16 17.11	69.24	12 8.82	0.628
Mon.	24	20 27 44.25	10.452	19 7 32.6	36.49	16 17.00	69.13	12 23.47	0.595
Tues.	25	20 31 54.71	10.418	18 52 46.4	+37.35	16 16.89	69.02	12 37.34	0.561
Wed.	26	20 36 4.34	10.384	18 37 39.6	38.20	16 16.77	68.91	12 50.37	0.526
Thur.	27	20 40 13.15	10.350	18 22 12.6	39.04	16 16.65	68.80	13 2.59	0.492
Frid.	28	20 44 21.12	10.315	18 6 25.8	+39.85	16 16.53	68.68	13 13.97	0.457
Sat.	29	20 48 28.26	10.280	17 50 19.7	40.65	16 16.40	68.57	13 24.53	0.422
SUN.	30	20 52 34.55	10.245	17 33 54.6	41.43	16 16.27	68.46	13 34.23	0.387
Mon.	31	20 56 40.00	10.209	17 17 10.9	42.20	16 16.13	68.35	13 43.10	0.352
Tues.	32	21 0 44.60	10.174	S. 17 0 9.0	+42.95	16 15.99	68.23	13 51.12	0.318

NOTE.—The mean time of semi-diameter passing may be found by subtracting 0.19 from the sideral time.

The sign + prefixed to the hourly change of declination indicates that south declinations are decreasing.

PHASES OF THE MOON.

Pacific Standard Time.

○ Full Moon	Jan.	d	h	m	24.3 P. M.		
☾ Last Quarter		15	7	44.5	A. M.	☾ Apogee	Jan. 4 8.3 A. M.
● New Moon		21	11	24.7	P. M.	☾ Perigee	20 4.5 A. M.
☽ First Quarter		29	6	32.7	A. M.		

Day of the Month.	Sidereal Time at Greenwich Mean Noon.			Chronometer Rate. G., if gaining. L., if losing.	Chronometer Error. P., if fast. S., if slow.	Noon Position.	
	h	m	s			Latitude.	Longitude.
1	18	44	37.92				
2	18	48	34.48				
3	18	52	31.04				
4	18	56	27.60				
5	19	0	24.15				
6	19	4	20.71				
7	19	8	17.27				
8	19	12	13.83				
9	19	16	10.39				
10	19	20	6.95				
11	19	24	3.50				
12	19	28	0.06				
13	19	31	56.62				
14	19	35	53.18				
15	19	39	49.73				
16	19	43	46.29				
17	19	47	42.85				
18	19	51	39.40				
19	19	55	35.96				
20	19	59	32.52				
21	20	3	29.08				
22	20	7	25.63				
23	20	11	22.19				
24	20	15	18.75				
25	20	19	15.30				
26	20	23	11.86				
27	20	27	8.42				
28	20	31	4.97				
29	20	35	1.53				
30	20	38	58.09				
31	20	42	54.64				
32	20	46	51.20				

Diff. for 1 Hour,
+9.8565.
(Table II.)

NOTE.—The chronometer error and rate should be entered opposite the date of their determination in port, whether by observation, time-ball, or comparison. The same rate, with the accumulated or diminished error, should be entered on every successive day until a new rate and new error have been ascertained.