

IV. A Total Eclipse of the Sun, but only *partial* in the United States, on the last day of the year. The Sun will *rise* in a state of partial eclipse—visible. The eclipse in the Atlantic States, will be, when greatest, about half the diameter of the Sun's disc, and finally leaves it at about 8h. 49m. in the morning.

NOTE—There will be a transit of Mercury across the Sun's disc, November 12th, invisible in America.

OCCULTATION.

There will be an occultation of Mars by the Moon, May 12th, visible, at 7h. 42m., eve. The planet re-appears at about 8h. 44m.

NEW TIDE TABLE.

AG—The Tides given in the Calendar pages are for the Port of New York.

In the last column but one of the Calendar pages, you have the time the Moon is South, and by adding thereto the hours and minutes in the following table, you will have the time of High Water at all the places named below; also the rise of water in feet.

	h.	m.	ft.		h.	m.	ft.		h.	m.	ft.
Albany, N. Y.	3	20	1	Egg Harbor, Gt.	9	34	5	Montauk Point,	8	10	2.6
Ambray, N. J.	8	15	5	Egg Harbor, Litt.	10	3	5	Mount Desert,	11	2	25.9
Baltimore,	6	33	1.3	Elizabeth Point,	8	57	5	Nantucket,	12	24	3.8
Bay of Fundy,	12	00	60	Fairfield, Conn.,	10	58	6	Narrows, N. Y.,	8	2	5
Blue Hill Bay,	11	00	12	Guildford, Conn.,	10	28	5	New Bedford,	7	57	3.2
Boston,	11	27	10.6	Halifax, N. S.,	7	20	9	New Haven,	11	16	5.0
Bridgeport, Ct.,	11	11	6.5	Hampton, N. H.,	11	15	12	New London,	9	28	2.1
Brunswick, N. J.,	9	5	5	Hampton Roads,	8	37	5	Newport,	7	45	3
Campo Bello,	11	00	25	Hartford, Conn.,	9	25		New York,	8	13	3.8
Cape Ann,	11	30	11	Hell Gate,	9	35	6	Norwalk, Conn.,	10	54	
Cape Cod,	11	30	6	Huntington, L. I.,	11	30	5	Norwich,	10	56	
Cape Fear,	7	19	4.5	Islip, L. I.,	8	6	6	Philadelphia,	1	18	6.0
Cape Hatteras,	9	4	5	Jamaica Bay,	8	0	5	Portland,	11	25	8.8
Cape Henlopen,	5	45	5	Kennebunk, Me.,	11	15	10	Portsmouth N.H.,	11	23	8.6
Cape Henry,	7	51	6	Kingston, N. Y.,	2	30	2	Providence,	8	25	5
Castine, Me.,	11	00	12	Lubec,	11	30	26	Sag Harbor,	9	52	
Charleston,	7	15	5.3	Marblehead,	11	30	10	Sandy Hook,	7	29	4.8
Eastport, Me.,	11	30	15	Martha's Vineyard,	7	37		St. John's,	12	00	30

The actual rise of the Tides depends on the strength and direction of the Wind, and it not unfrequently happens that a Tide which would, independently of these, have been small, is higher than another, otherwise much greater. But when a Tide which arrives when the Sun and Moon are in a favorable position for producing a great elevation, is still further increased by a very strong wind, the rise of the water will be uncommonly great, sufficient, perhaps, to cause damage.

The Table above, is corrected from the Official Tide Table, published by A. D. Bache, Superintendent United States Coast Survey. But only those Ports, or places indicated by *italics* are thus corrected. The others remain as they have been for a long time, and are supposed to be nearly correct.

NOTE.—The calculations of this Almanac have been made exclusively for it. The Sun Rising and Setting are adapted to *apparent time*, this being most in use.—All the other tables are in *clock time*. The column of *Moon's Place* shows the Signs of the Zodiac or Constellation of Stars in which the Moon is situated at noon.

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1st M

M

Last Q
New M
First C
Full M

Day of Mon

Day of Week

1 Tue A
2 Wed C
3 Thu I
4 Fri I
5 Sat I
6 F I
7 Mon S
8 Tue I
9 Wed I
10 Thu C
11 Fri I
12 Sat C
13 F S
14 Mon F
15 Tue 7
16 Wed C
17 Thu C
18 Fri I
19 Sat F
20 F I
21 Mon S
22 Tue C
23 Wed S
24 Thu 7
25 Fri P
26 Sat I
27 F S
28 Mon V
29 Tue C
30 Wed I
31 Thu C