

REPORT OF THE SUPERINTENDENT OF

Motion, backward.

104.340	104.844	114.342	114.843
0	2	3	2
1	3	1	3
1	2	2	2
1	3	2	2

From the record, I deduce the following result:

At 85° Fahrenheit, measured distance of test-lines, in turns and decimals, of the upper screw.

Readings.	1 to 3.	2 to 4.	Mean.	
68 to 78	10.0002	10.0011	10.0006 ± 0.0003	Part little used.
88 to 96	10.0005	9.9997	10.0001	2 Part much used.
104 to 114	10.0010	10.0004	10.0007	2 Part little used.
Mean			10.0005 ± 0.0001	

The effect of wear would probably show itself most in the probable error (the measures being half with motion forward and half with motion backward). The actual differences are sufficiently accounted for by the probable errors of measures and a possible irregularity in the screw, and do not seem, as yet, to indicate any injurious wear. Supposing an irregularity of 0.0004 in ten turns its effect on the measured radius of the photographed sun would be 0.0006, which is equal to 0".03, one turn being nearly 58". This small quantity is of no consequence in the results reached. The measures of the photographs are nearly all comprised between the readings of the upper screw 91 and 101 (turns), and between these limits no possible defect could have crept into the results.

[C. A. S.]

Table of geographical positions determined by the Coast Survey and occupied for observations of the eclipse of the sun August 7, 1869.

	Latitude.	Longitude.	Approximate elevation.
Bristol, Tennessee (E. S.)	36 35 49.10 ± 0.2	83 28 44.90 ± 0.23	Feet. 1,760
Shelbyville, Kentucky (A. S.)	38 12 45.36 ± 0.1	5 40 53.05	
Shelbyville, Kentucky (E. S.)	38 12 44.62 ± 0.1	5 40 53.04	
Falmouth, Kentucky (A. S.)	38 40 37.39 ± 0.1	15 37 09.3	
Oakland, Kentucky (E. S.)	37 02 29.80 ± 0.1	15 45 01.2	
Springfield, Illinois (E. S.)	39 49 02.50 ± 0.1	5 58 33.62 ± 0.26	500
Springfield, Illinois (new State-house dome) ..	39 47 56.71	5 58 37.18	
Mattoon, Illinois (A. S.)	39 29 10.20 ± 0.2	5 53 32.50 ± 0.26	
Des Moines, Iowa (A. S.)	41 35 02.60 ± 0.1	6 14 29.08 ± 0.27	833
Des Moines, Iowa (E. S.)	41 35 04.61 ± 0.1	6 14 29.04 ± 0.25	
Burlington, Iowa (A. S.)	40 48 22.04 ± 0.2	6 04 25.60 ± 0.26	
Cedar Falls, Iowa (A. S.)	42 32 32.3 ± 0.5	16 09 46.8 ± 0.30	
Saint Louis, Missouri (A. S.)	38 38 03.2 ± 0.2	6 00 48.98 ± 0.26	
Kohklux, Alaska (E. S.)	59 23 41.6 ± 0.3	9 03 33.85	

The longitude of the Naval Observatory (dome) is taken as 5h. 08m. 12s.06 ± 0s.23.
The letters E. S. and A. S. indicate "eclipse-station," and "astronomical station," from which the eclipse-station is to be derived geodetically. The longitudes are reckoned west of Greenwich.
† Approximate value.

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THE ATLANTIC ALMANAC 1873

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THE ATLANTIC ALMANAC FOR 1873.

ASTRONOMICAL.

EXPLANATION OF THE CALENDAR.

THE SUN. The time of sunrise or sunset is the time when the uppermost point of the sun reaches the true horizon.

The columns headed Latitude of Boston are good for New England, New York, the shores of Lakes Erie and Michigan, Michigan, Wisconsin, Iowa, Minnesota, Dakota, Montana, Washington, and Oregon.

The columns headed Latitude of New York are good for Long Island, and the shore of the Sound, New York City, New Jersey, Pennsylvania, Ohio, Indiana, Illinois, Nebraska, and Wyoming.

The columns headed Latitude of Washington are good for Delaware, Maryland, Virginia, West Virginia, Kentucky, Missouri, Kansas, Colorado, Utah, Nevada, California, and will serve for all the Southern States.

THE MOON. The time of Moon's rising and setting are defined like the sun's, but the uppermost point of the moon at those times is not illuminated.

The column headed San Francisco should be used for all points west of the Rocky Mountains; but for any other State use the column headed with the name of the same place that appears above those entered for sunrise and sunset.

THE TIMES. Boston is so situated with reference to the tidal wave that from the tides at this port those at any other can be readily calculated. The following table shows how to obtain the time of high water from any other port from that for Boston:—

For Eastport	subtract 19 minutes from time for Boston.
"Hallowell's Pt.	" 12 " " " "
"Portland	" 2 " " " "
"Portsmouth	" 4 " " " "
"Newburyport	" 6 " " " "
"Rockport	" 30 " " " "
"Salem	" 14 " " " "
"Boston Light	" 15 " " " "
"Plymouth	" 8 " " " "
"Wellfleet	" 22 " " " "
"Provincetown	" 5 " " " "
"Monomoy	add 31 " " " "
"Nantucket	" 57 " " " "
"Hyannis	" 55 " " " "
"Edgartown	" 49 " " " "
"Holmes' Hole	" 16 " " " "
"New York	subtract 8h 14 " " " "
"Philadelphia	add 2h 17 " " " "

Our predictions for Boston have been obtained from the office of the U. S. Coast Survey. The above table is made from data given in the Coast Survey Report for 1864.

PHENOMENA, ETC. The holidays marked in this column are those of the Calendar of the English Book of Common Prayer, with certain exceptions and additions. It is a mistake to suppose that the English Church Calendar has an exclusively religious significance. On the contrary, many Saints' days are there set down which clergymen are forbidden to observe. "The reasons why the names of these Saints' days and holidays were resumed into the calendar are various. Some of them being retained upon account of our Courts of Justice, which usually make their returns on these days, or else upon the days before or after them, which are called in the writs *Vigil, Fest, or Crast*, as in *Vigil, Martin, Fest, Martin, Crast, Martin*, and the like. Others are probably kept in the calendar for the sake of such tradesmen, handicraftsmen, and others as are wont to celebrate the memory of their tutelary saints; the *Welshmen* do of *St. David*, the shoemakers of *St. Crispin*, etc. And again, churches being in several places dedicated to some or other of these Saints, it has been the usual custom in such places to have *wakes* or *fairs* kept upon these days. Besides, the histories which were writ before the Reformation do frequently speak of transactions happening upon such a holiday, or about such a time, without mentioning the month; relating one thing to be done at *Lammas-tide*, and another about *Martinmas*, etc., so that, were these names left out of the calendar, we might be at a loss to know when several of these transactions happened."

The predictions in this column are adapted to the meridian of Washington, and are brought to any other by simply applying the correction of time. To obtain from Washington time, time in

New York	subtract 12 minutes.	Bancroft	subtract 23 minutes.
Boston	" 24 "	Buffalo	add 8 "
Philadelphia	" 8 "	Pittsburg	" 18 "
Chicago	add 42 "	Cincinnati	" 30 "
Albany	subtract 13 "	Springfield	" 51 "
New Orleans	add 53 "	Detroit	" 44 "
Louisville	" 35 "	Salt Lake	" 2h 20 "
St. Louis	" 52 "	San Francisco	" 3h 2 "
Portland	subtract 27 "		

ECLIPSES.

There will be four Eclipses this year, two of the Sun and two of the Moon, all of which will be invisible in the United States.

- I. A total eclipse of the moon, May 12, invisible in the United States.
- II. A partial eclipse of the sun, May 25, invisible in the United States.
- III. A total eclipse of the moon, Nov. 4, invisible in the United States.
- IV. A partial eclipse of the sun, Nov. 19, invisible in the United States.

COURSE OF THE PLANETS.

JANUARY.	d.	h.	m.	P.M.	Q rises	JULY.	d.	h.	m.	A.M.	Q rises
Venus Q sets	5	8	3	P.M.	Q rises		6	1	51	A.M.	Q rises
Mars Q rises	12	0	38	A.M.	Q sets		11	11	64	P.M.	Q sets
Jupiter Q rises	18	7	27	P.M.	Q sets		18	9	14	P.M.	Q sets
Saturn Q rises	26	6	47	A.M.	Q rises		25	7	11	P.M.	Q rises
FEBRUARY.	d.	h.	m.	P.M.	Q rises	AUGUST.	d.	h.	m.	A.M.	Q rises
Q sets	4	8	9	P.M.	Q rises		5	1	36	A.M.	Q rises
Q rises	11	11	42	P.M.	Q sets		11	10	29	P.M.	Q sets
Q sets	19	6	50	A.M.	Q rises		18	7	27	P.M.	Q rises
Q rises	26	4	57	A.M.	Q sets		26	2	15	A.M.	Q sets
MARCH.	d.	h.	m.	P.M.	Q rises	SEPTEMBER.	d.	h.	m.	A.M.	Q rises
Q sets	4	9	53	P.M.	Q rises		5	2	11	A.M.	Q rises
Q rises	11	10	25	P.M.	Q sets		11	9	26	P.M.	Q sets
Q sets	19	4	52	A.M.	Q rises		19	4	49	A.M.	Q rises
Q rises	26	3	15	A.M.	Q sets		26	0	10	A.M.	Q sets
APRIL.	d.	h.	m.	P.M.	Q rises	OCTOBER.	d.	h.	m.	A.M.	Q rises
Q sets	4	9	54	P.M.	Q rises		5	3	13	A.M.	Q rises
Q rises	11	8	13	P.M.	Q sets		11	8	50	P.M.	Q sets
Q sets	19	2	46	A.M.	Q rises		19	3	22	A.M.	Q rises
Q rises	26	1	18	A.M.	Q sets		25	10	14	P.M.	Q sets
MAY.	d.	h.	m.	P.M.	Q rises	NOVEMBER.	d.	h.	m.	A.M.	Q rises
Q rises	5	4	31	A.M.	Q rises		5	4	25	A.M.	Q rises
Q sets	12	8	57	A.M.	Q sets		11	8	37	P.M.	Q sets
Q sets	19	0	52	A.M.	Q rises		19	1	48	A.M.	Q rises
Q rises	25	11	21	P.M.	Q sets		25	8	23	P.M.	Q sets
JUNE.	d.	h.	m.	P.M.	Q rises	DECEMBER.	d.	h.	m.	A.M.	Q rises
Q rises	5	2	44	A.M.	Q rises		5	5	4	A.M.	Q rises
Q sets	12	1	39	A.M.	Q sets		11	8	38	P.M.	Q sets
Q sets	18	11	0	P.M.	Q rises		19	0	9	A.M.	Q rises
Q rises	25	9	14	P.M.	Q sets		25	6	39	P.M.	Q sets

ing Star till May 6, then Morning Star the rest of the

ing Star till April 27, then Evening Star the rest of the

Morning Star till February 14, Evening Star till September

Morning Star the rest of the year.

Evening Star till January 13, Morning Star till July 22, then Evening Star the rest of the year.

CHRONOLOGICAL CYCLES FOR 1873.

Dominical Letter,	E	Golden Number,	13
Egypt,	1	Roman Indiction,	1
Solar Cycle,	6	Julian Period,	6586

MOVABLE FEASTS AND FASTS FOR 1873.

Septuagesima Sunday,	Feb. 9	Low Sunday,	April 20
Shrove Sunday,	" 23	Ascension Sunday,	May 15
First Wednesday,	" 26	Holy Thursday,	" 22
First Sunday in Lent,	March 2	Whit Sunday,	June 1
Palm Sunday,	March 6	Trinity Sunday,	" 8
Good Friday,	" 11	Corpus Christi,	" 12
Easter Sunday,	" 13	Advent Sunday,	Nov. 30

SYMBOLS OF THE PLANETS AND ASPECTS.

+ North.	h Saturn.
- South.	° Degrees.
° Conjunction.	' Minutes.
☉ Sun.	* Sextile, 60 degrees.
☾ Moon.	□ Quartile, 90 degrees.
☿ Mercury.	△ Trine, 120 degrees.
♀ Venus.	♌ Opposition.
♂ Mars.	♏ Dragon's Head, or Ascending Node.
♃ Jupiter.	♍ Dragon's Tail, or Descending Node.

NAMES AND CHARACTERS OF THE SIGNS OF THE ZODIAC.

1. ♈ Aries, head.	7. ♎ Libra, reins.
2. ♉ Taurus, neck.	8. ♏ Scorpio, secrets.
3. ♊ Gemini, arms.	9. ♐ Sagittarius, thighs.
4. ♋ Cancer, breast.	10. ♑ Capricornus, knees.
5. ♌ Leo, heart.	11. ♒ Aquarius, legs.
6. ♍ Virgo, belly.	12. ♏ Pisces, feet.

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" Salem	" 14 " " " " "
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- III. A total eclipse of the Moon, Nov. 4, invisible in the United States.
- IV. A partial eclipse of the sun, Nov. 19, invisible in the United States.

COURSE OF THE PLANETS.

JANUARY.				JULY.			
	d.	h.	m.		d.	h.	m.
Venus ♀ sets	12	8	3 P.M.	♀ rises	5	1	51 A.M.
Mars ♂ rises	12	0	38 A.M.	♂ sets	11	11	54 P.M.
Jupiter ♃ rises	18	7	27 P.M.	♃ sets	18	9	14 P.M.
Saturn ♄ rises	26	6	47 A.M.	♄ rises	25	7	11 P.M.
FEBRUARY.				AUGUST.			
♀ sets	4	8	9 P.M.	♀ rises	5	1	36 A.M.
♂ rises	11	11	42 P.M.	♂ sets	11	10	29 P.M.
♃ sets	19	6	50 A.M.	♃ rises	18	7	27 P.M.
♄ rises	26	4	57 A.M.	♄ sets	26	2	16 A.M.
MARCH.				SEPTEMBER.			
♀ sets	4	9	53 P.M.	♀ rises	5	2	11 A.M.
♂ rises	11	10	25 P.M.	♂ sets	11	9	26 P.M.
♃ sets	19	4	52 A.M.	♃ rises	19	4	49 A.M.
♄ rises	26	3	15 A.M.	♄ sets	26	0	10 A.M.
APRIL.				OCTOBER.			
♀ sets	4	9	54 P.M.	♀ rises	5	3	13 A.M.
♂ rises	11	8	13 P.M.	♂ sets	11	8	50 P.M.
♃ sets	19	2	46 A.M.	♃ rises	19	3	22 A.M.
♄ rises	26	1	18 A.M.	♄ sets	25	10	14 P.M.
MAY.				NOVEMBER.			
♀ rises	5	4	31 A.M.	♀ sets	5	4	25 A.M.
♂ sets	12	3	57 A.M.	♂ rises	11	8	37 P.M.
♃ sets	19	0	52 A.M.	♃ rises	19	1	48 A.M.
♄ rises	25	11	21 P.M.	♄ sets	25	8	23 P.M.
JUNE.				DECEMBER.			
♀ rises	5	2	44 A.M.	♀ sets	5	5	4 A.M.
♂ sets	12	1	38 A.M.	♂ rises	11	8	38 P.M.
♃ sets	18	11	0 P.M.	♃ rises	19	0	9 A.M.
♄ rises	25	9	14 P.M.	♄ sets	25	6	39 P.M.

Venus will be Evening Star till May 5, then Morning Star the rest of the year.

Mars will be Morning Star till April 27, then Evening Star the rest of the year.

Jupiter will be Morning Star till February 14, Evening Star till September 4, then Morning Star the rest of the year.

Saturn will be Evening Star till January 13, Morning Star till July 22, then Evening Star the rest of the year.

CHRONOLOGICAL CYCLES FOR 1873.

Dominical Letter,	E	Golden Number,	12
Epact,	1	Roman Indiction,	1
Solar Cycle,	6	Julian Period,	6586

MOVABLE FEASTS AND FASTS FOR 1873.

Septuagesima Sunday,	Feb. 9	Low Sunday,	April 20
Shrove Sunday,	" 23	Rogation Sunday,	May 15
Ash Wednesday,	" 26	Holy Thursday,	" 22
First Sunday in Lent,	March 2	Whit Sunday,	June 1
Palm Sunday,	April 6	Trinity Sunday,	" 9
Good Friday,	" 11	Corpus Christi,	" 12
Easter Sunday,	" 13	Advent Sunday,	Nov. 30

SYMBOLS OF THE PLANETS AND ASPECTS.

+ North.	♄ Saturn.
— South.	° Degrees.
♌ Conjunction.	' Minutes.
☉ Sun.	* Sextile, 60 degrees.
☾ Moon.	□ Quartile, 90 degrees.
♿ Mercury.	△ Trine, 120 degrees.
♊ Venus.	♌ Opposition.
♋ Mars.	♌ Dragon's Head, or Ascending Node.
♊ Jupiter.	♍ Dragon's Tail, or Descending Node.

NAMES AND CHARACTERS OF THE SIGNS OF THE ZODIAC.

1. ♈ Aries, head.
2. ♉ Taurus, neck.
3. ♊ Gemini, arms.
4. ♋ Cancer, breast.
5. ♌ Leo, heart.
6. ♍ Virgo, belly.
7. ♎ Libra, reins.
8. ♏ Scorpio, secrets.
9. ♐ Sagittarius, thighs.
10. ♑ Capricornus, knees.
11. ♒ Aquarius, legs.
12. ♓ Pisces, feet.