

MONDAY, JANUARY 28, 1889

Rule for finding Lat near moon

Forenoon
 10..16..15 51..48
 3..69 1..41
 22 20 14 53 29
 11..17 40
 11 02 34 36 19
 4..80 22..37
 10..58..04 58..56 Lat
 12 00 00 Long 169.25
 1 01 56 July 6th 94
 8.259
 2.208
 8 467

Chronometer time with variation

Chronometer	Cal
12 29 00	12.34.35
	2.04
	12 27 31
12..30 00	12 12 18
	15.55
	12 31 13

TUESDAY, JANUARY 29, 1889

To find the Longitude by setting sun.

If the lower limb be observed, subtract 21 miles from the Sum, and add 21 miles to the half sum to find the remainder.

If the upper limb be observed, use 53 miles instead of 21 miles.

Chronometer time ^{h m s} 11..01..43 Lat 35..38 Log 09004
 Pd 70..39 " 02525

To find the Latitude by double

Altitudes	All	alt	
Chronometer time 1.24.55	76.26	64.17	
2.37.15	76.38	64.29	
1.12.20	64.29	76.38	
	12.09	141.07	
	6.04	70.33	

Elapsed time	Cosec 10.80408	Col 2.	Col 3.
Declination	Sec 10.00087		Cosec 11.20010
A	Cosec 10.80495	Cosine 9.99460	Cosine 9.99460
Half sum alt	Cosine 9.52242	Cosec 10.02552	B 3.40 11.19470 South
Half diff alt	Sine 9.02402	Sec 10.00244	Cosec (Blue than 90° like Sec North)
B	Sine 9.35139	Cosine 9.98875	Cosine 9.98875
L less than 90° North or South like bearing of zenith)	Sec 10.01131		Z 13.01 N.
			E 9.21 Sine 9.21076
			Lat 9.07 North Sine 9.19951