

Cape Norman 02 August 1764

Assumed Position = CMI position of 51°37'46.7"N 55°54'01.8"W

HA Sun = 0h00m0.09s at Az = 180°00'02.2"

“On 2 August, *Grenville* stood off Cape Norman, the most northerly point of Newfoundland, while Cook went ashore . . . to take the sun’s meridian altitude. It allowed him to calculate the cape’s latitude, and use it as a base figure when calculating the latitude of other locations along the coast.”
(John Robson: the CCS website is attached the to the ‘Retrieve web page’ popup menu for the CMI’s entry for Cape Norman)

Sun

Type: **star**
 Magnitude: **-26.71** (reduced to **-26.55** by **1.21** Airmasses)
 Absolute Magnitude: 4.83
 Color Index (B-V): **0.66**
 RA/Dec (J2000.0): 9h05m45.07s/+16°39'18.0"
 RA/Dec (on date): 8h52m33.24s/+17°34'49.2"
 HA/Dec: 0h00m00.09s/+17°35'29.8" (apparent)
 Az./Alt.: +180°00'02.2"/+55°57'43.1" (apparent)
 Gal. long./lat.: +211°57'55.9"/+37°01'57.5"
 Supergal. long./lat.: +72°45'35.2"/-44°19'04.2"
 Ecl. long./lat. (J2000.0): +133°57'56.4"/+0°01'08.7"
 Ecl. long./lat. (on date): +130°40'46.6"/-0°00'04.7"
 Ecliptic obliquity (on date): +23°28'20.8"
 Mean Sidereal Time: 8h52m33.2s
 Apparent Sidereal Time: 8h52m33.3s
 Rise: 4h38m
 Transit: 12h19m
 Set: 19h59m
 Morning twilight (h=6.0°): 3h58m
 Evening twilight (h=6.0°): 20h40m
 Daytime: 15h21m
 Parallax Angle: +0°00'01.4"
 Earth, Cape Norman, 100 m

Date and Time

Date and Time			Julian Day		
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Moon

Type: **moon**
 Magnitude: **-9.17** (reduced to **-8.63** by **4.20** Airmasses)
 Absolute Magnitude: 0.21
 Mean Opposition Magnitude: -12.74
 RA/Dec (J2000.0): 12h56m16.81s/-8°04'40.2"
 RA/Dec (on date): 12h44m04.61s/-6°47'55.6"
 HA/Dec: 20h08m37.41s/-6°44'34.1" (apparent)
 Az./Alt.: +120°05'42.5"/+13°39'09.7" (apparent)
 Gal. long./lat.: +305°00'36.5"/+54°46'27.8"
 Supergal. long./lat.: +124°18'51.4"/-1°52'44.6"
 Ecl. long./lat. (J2000.0): +196°04'26.9"/-1°54'05.1"
 Ecl. long./lat. (on date): +192°47'20.6"/-1°53'26.0"
 Ecliptic obliquity (on date): +23°28'20.8"
 Mean Sidereal Time: 8h52m33.2s
 Apparent Sidereal Time: 8h52m33.3s
 Rise: 10h34m
 Transit: 16h16m
 Set: 21h42m
 Parallax Angle: -32°44'18.0"
 IAU Constellation: Vir
 Hourly motion: +0°31'31" towards 123.7°
 Hourly motion: da=+0°26'21" dδ=0°17'34"
 Earth, Cape Norman, 100 m

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