

Solution to Frank's Lunar Example

Jan 12, 2018 GMT 00:55:00 Lat 20°00'S Lon 176°30' W
EH 17 feet Corr -4.0'

Moon:

UL 20°10'
SD 14.8'
HP 54.5'

Sun

LL 75°30'
SD 16.3'

LDa 55°17.3' Near limbs
LDpc 55°48.4' = 55°17.3'+16.3'+14.8'

Altitude Corrections

Moon 20°10.0' UL
-4.0' Dip
+ -14.8' SD

Ho 19°51.2'

Sun 75°30.0' LL
-4.0' Dip
+ 16.3' SD

Ho 75°42.3'

62.2' Main Cor
+ 1.3' Avg U/L bubble

63.5'
- 15.0' Bubble Cor

-48.5' With reversed sign

+ 00.2' With reversed sign

Reed Method

A %moon 1.000
B %Sun -1.004
Q -4.64E-6

LDC 54°59.7'

GMT Moon-Sun LD
00:00:00 55°24.8'
00:54:58 54°59.7' GMT computed from LDC
01:00:00 54°57.4'