

20 SEPT 2022 (+7.15)

MOON ☾

Aldebaran \*

R: LUNARS RATE OF CHANGE : geocentric and Topocentric.

From unchanged POSITION ①

at N40°/W010°  
As seen from Sextant:

- 05:25 FAR LIMB LUNAR DISTANCE : -44°12.926'
- 05:30 FAR LIMB LUNAR DISTANCE : -44°14.750' (see below)
- 05:35 FAR LIMB LUNAR DISTANCE : -44°16.580'

+16.455/0.1'

From UNCHANGED POSITION TOPOCENTRIC LD RATE OF CHANGE as seen in SEXTANT:

POSITION ②

T2 = 05:35:00.0 UT  
 unchanged ☾ height = 50°39.346'  
 unchanged \* height = 66°28.687'  
 N39°59.782' / W011°12.278'

This "Blue Line" is the locus as a function of UT of all points "running westwards" and from which ☾ & \* heights remain unchanged.

POSITION ③

T3 = 05:25:00.0 UT  
 unchanged ☾ height = 50°39.346'  
 unchanged \* height = 66°28.687'  
 N40°00.214' / W008°47.722'

POSITION ①

T1 = 05:30:00.0 UT  
 N40°00.000' / W010°00.000'  
 ☾ height = 50°39.346'  
 \* height = 66°28.687'

Sextant LD (FAR LIMB) = -44°17.182'

TOPOCENTRIC LD RATE OF CHANGE between Position 05:25 UT and Position 2/05:35 UT, as seen in Sextant with unchanged unchanged heights : +12.385 / 0.1'

Geocentric cleared Distance: 43°35'042"

GEOCENTRIC RATE OF CHANGE between 05:25 UT and 05:35 UT : +12.385/0.1'

Sextant LD (FAR LIMB) = -44°12.380'

Geocentric cleared Distance: 43°30'197"

A.M. "KERMIT" COUSINE

