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++ Lunar calculation -Moon-Jupiter
+ inputs:
date= 09/05/2010
watch time= 18:15:52 GMT
IC= 1.0'  (index correction)
+ sextant readings:
hs Moon= 21°06.3'
hs Jupiter= 22°04.0'
ds Moon-Jupiter=  7°20.8'    (sextant distance)

+ corrections
obj1: Moon
SD=14.9'
    + 0.1' (moon disc augmentation)
    =15.0'
Lower limb for Moon
ha = 21°22.3'
 parlx=50.9'
 refr =-2.5'
 (c_Moon=-48.4'  refr+parlx)
hc = 20°33.9'

obj2: Jupiter
ha = 22°05.0'
 parlx= 0.0'
 refr =-2.4'
 (c_Jupiter= 2.4'  refr+parlx)
hc = 22°02.6'

Near limb for Moon
 SD1+SD2=15.0'
da =  7°36.8'  (apparent dist.- corr. for IC & SDs)

+refraction and parallax projection factors
A=0.2188 (Moon)
B=-0.1689 (Jupiter)
Q= 2.7'  (moon quadratic correction)

+ results
dc =  7°28.5'  (cleared distance)

+ lunar time determination
linear interpolation 1 (1 hour interval)
NA dist @  2:00:00   =  7°46.4'
NA dist @  3:00:00   =  7°27.8'
Lunar Time =  2:57:42  GMT

linear interpolation 2 (5 minute interval)
error: distance not found in time range
 dist @  2:00:00   =  7°46.4'
 dist @  3:00:00   =  7°27.8'
Navigator - www.tecepe.com.br/nav
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