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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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