

# ALMANAC

UT1    Year    Month    Day  
Date:     
Time:     
          Seconds                      Seconds  
TAI-UTC:     UT1-UTC:

AP    °    '    ''  
Lat.:     
°  
Lon.:     
Body:

Use internal values for TAI-UT1:

Time Zone:

## Celestial Navigation Data for the Sun    2021, Jan 1    00:00:00 UT1

GHA:   
Dec.:   
LHA:   
Hc:   
Zn:

Ha:   
R:   
PA:   
SD:   
Total:

GHA ∇':   
LHA ∇':   
SHA Sun:   
Mag. / % Ill.:   
EoT:

## Miscellaneous Data

JD:   
GMST:   
GAST:   
LMST:   
LAST:

Nutation in longitude:   
Nutation in obliquity:   
Mean obliquity of the ecliptic:   
True obliquity of the ecliptic: