Subject: Re: Local solar time
Posted by Craig Markwardt on Tue, 29 Jun 2004 18:54:59 GMT
View Forum Message <> Reply to Message

David Oesch <oesch@giub.nospam.unibe.ch> writes:

>> With some massaging, I think you can get what you want by using the
>> IDL Astronomy Library routines SUNPOS to compute the (RA, DEC)
>> position of the sun, and CT2LST, to compute the local mean sidereal
>> time, and then use the definition,
>>
>>
>>
> I got the Sun Azimuth and Sun zenith already, and use the LMST routine
> from the Johns Hopkins University/Applied Physics Laboratory to
> calculate the local mean sidereal time. Is the "local mean sideral time"
> the same as "local solar time"?

No, that's why I supplied the formula below. The local hour angle of
the sun is effectively the local solar time, plus a constant:

>> local hour angle of the sun = local sidereal time[1] - RA of sun[2]

and local apparent solar time = local hour angle + 12 hours

[1] is calculated with CT2LST
[2] is calculated with SUNPOS

Craig

--
---------- ----------
Craig B. Markwardt, Ph.D. EMAIL: craigmnet@REMOVEcow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
---------- ----------