
Subject: zenpos vs. SkyCalendar

Posted by [Gray](#) on Tue, 15 Mar 2011 23:04:03 GMT

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Hi all,

I'm trying to use ZENPOS from the IDL Astronomy Library, but I'm not getting the results I expect. If I compare with SkyCalendar (<http://preview.tinyurl.com/495ys8l>) for Kitt Peak, I get:

Date (eve/morn)	JDmid	LMSTmidn	LST twilight:
(2011 at start)	(-2450000)		eve morn

Tue Mar 01/Wed Mar 02	5622.8	10 12 26	5 57 15 45
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But when I use ZENPOS, I get this:

```
IDL> observatory, 'kpno', obs
IDL> common site, lat, lng, tzone
IDL> lat = obs.latitude
IDL> lng = obs.longitude
IDL> tzone = obs.tz
IDL> day = julday(3,1,2011,24,0,0)
IDL> zenpos, day, ra, dec
IDL> print, day-2450000
      5622.5000
IDL> print, ra/(!dtr*15.)
      18.069183
```

Am I missing something? Am I interpreting either piece of information incorrectly? Help?

Thanks!

--Gray
