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Subject: Re: day or night

Posted by [David Fanning](#) on Thu, 27 Dec 2012 16:06:47 GMT

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Gompie writes:

> I have more than 62000 points that are spread over different seasons and lat lons ,on which I have to apply the day/night test.

>

> Is it possible to map the lat lon onto the image coordinates of the image output of cgterminator or sunclock and get a number telling me if it is day or night at that point.

>

> PS:

> sunclock routine in the link you gave ( [http://fermi.jhuapl.edu/s1r/idl/s1rlib/local\\_idl.html](http://fermi.jhuapl.edu/s1r/idl/s1rlib/local_idl.html)) looks promising if takes care of seasonal variations.

>

> If I use cgterminator, due to its problem with flip, I have visually inspect each of the 62000 points so practically not possible unless you give a way out.

Well, if there is a way out, you aren't going to get it from me. I'm spending the day with the family celebrating a late Christmas. I'm just say that IF there is an answer, it will probably be found among the JHUAPL time routines.

It is certainly possible to map lat/lon positions to image coordinates. I find Value\_Locate, used in conjunction with projected XY values, to be invaluable for this purpose.

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thue. ("Perhaps thou speakest truth.")

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