Subject: Re: day or night
Posted by David Fanning on Thu, 27 Dec 2012 06:21:35 GMT

Gompie writes:

> I know the lat lon and time of a place on earth. How do I know if it is day or night.

Well, that's a good question. For which I don't have
a off-the-top-of-my-head answer, although I'm sure the
astronomers will and I'm reasonably sure the answer
is going to involve converting the time to a Julian time.

What does come immediately to mind, of course, is
my cgTerminatorMap program, which has to do something
reasonable similar.

  http://www.idlcoyote.com/idldoc/cg/cgterminatormap.html

On about line 240 or so you see a number of calls to the "time"
functions of the Johns Hopkins University Applied Physics Lab.
I feel 100 percent certain that the answer to this question
is going to be found in the IDL routines that can be found
there:

  http://fermi.jhuapl.edu/s1r/idl/s1rlib/local_idl.html

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.")