Subject: Re: Day/Night Terminator on Map Projection Posted by David Fanning on Thu, 13 Apr 2006 06:00:41 GMT

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David Fanning writes:

- > Does anyone have IDL code for calculating the day/night
- > terminator on a map projection? Or perhaps an example of
- > a map in which you have done this?

Thanks to Kelly Dean and Andrew Cool for suppling me with a few (slightly buggy!) examples of how to do this. :-)

After spending most of the day scratching my head and pondering yet again the shear beauty of Ray Sterner's JHUAPL code, I finally came up with something I like.

Rather than just drawing the day/night terminator, I wanted to see it in living color. So I used the AVHRR data set that comes in the IDL demo directory for this purpose. It makes a very pretty map, if I do say so myself!

You can see the code I came up with and a nice picture here:

http://www.dfanning.com/map_tips/terminator.html

To run the code, you will need to have both the Coyote Library and the JHUAPL Library on your IDL path.

I'll probably spend some time tomorrow making a little stand-alone application out of this with widgets so you can change the time interactively. It's more interesting than I would have thought to change the time and watch the sun and shadows move though the day and year. :-)

Cheers,

David

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Coyote's Guide to IDL Programming: http://www.dfanning.com/