Subject: Re: Question on collection change - MOD07 air profile
Posted by devin.white on Fri, 03 Aug 2007 11:15:41 GMT
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This page on the MODIS Atmosphere site might be useful:

http://modis-atmos.gsfc.nasa.gov/MOD07_L2/format.html

On Aug 3, 2:29 am, DirtyHarry <kim20...@gmail.com> wrote:
> Goodday, Everyone...
>
> I don't know this is a good place to ask my questions, but I had
> already sent several e-mails to someone in Wisconsin (i.e: Dr. Suzanne
> Seemann and Dr. Paul Menzel) since last week. None of them didn't
> reply to us yet. They must be very busy thesedays. I feel like I am
> 'grabbing a floating straw to get out of a swamp!'
>
> Our research team is currently studying on several meteorological and
> ecological topics with various MODIS products. At this point, we are
> trying to compare MOD07-retrieved air temperatures with those measured
> from 72 locations of national weather stations in Korea.
>
> To do this, we have used MOD07 collection 4, but recently we found
> MOD07 collection 5 have been already provided. Now I have two
> questions.
>
> 1. We checked the images shown in MODIS official website and compared
> collection 4 image with collection 5 image at the same day. We found
> air temperature at near-surface level (i.e. 20th band) mostly appeared
> on the land part of the collection 4 image. However, Air temperature
> at near-surface level was black out in the collection 5 image. We are
> very curious about this phenomenon. Why is it?
>
> 2. MOD07 provides 20 bands. If I understand correctly, 20th band is
> the nearest band to the land surface, and the air pressure of this
> band indicates 1000 hPa in the image. What does '1000hPa' exactly
> mean? Is that the height where the air pressure is exactly 1000 hPa?
> Or... Is the value of 1000hPa just representing a layer (i.e.
> 975~1025 hPa -> 1000 hPa; 925~975 -> 950 hPa...)?
>
> If I missed something in my explanation and you guys don't understand
> my situation, please reply me. Thank you in advance!
>
> Harry from Korea