
Subject: IDL: Extracting Bit values in VIIRS Aerosol product

Posted by [Ian C.](#) on Fri, 16 Oct 2015 21:37:30 GMT

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I want to extract the fire QC value for this VIIRS file in IDL:

```
GAERO-VAOOO_npp_d20120803_t1243401_e1249205_b03974_c20140312
203414016823_noaa_ops.h5
```

I can access the raw value using the path:

```
/All_Data/VIIRS-Aeros-EDR-GEO_All/GAERO-VAOOO_npp_d20120803
_t1243401_e1249205_b03974_c20140312203414016823_noaa_ops.h5/ QF2_VIIRSAEROEDR'
```

Now, I would like to extract the 8th element of this dataset (Fire detected in cell-valid over land and ocean). According to the pg 151 of the documentation (Joint Polar Satellite System (JPSS) Common Data Format Control Book - External (CDFCB-X) Volume IV- Part II - Imagery, Atmospheric, and Cloud EDRs)

Is there a code to decipher each element in QF2_VIIRSAEROEDR ?

Thanks,
-Ian

Subject: Re: IDL: Extracting Bit values in VIIRS Aerosol product

Posted by [Steve Super](#) on Wed, 29 Jun 2016 18:53:35 GMT

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Ian,

Not sure if you have found the solution to your problem yet or not, but I would refer you to the VIIRS Aerosol Products User's Guide at the following link:

```
http://www.star.nesdis.noaa.gov/smcd/emb/viirs_aerosol/docum
ents/Aerosol_Product_Users_Guide_V2.0.1.pdf
```

In the appendix it gives a summary of all the aerosol quality flags and some code examples for extracting the bit values.

Regards,
Steve

On Friday, October 16, 2015 at 5:37:36 PM UTC-4, Ian Chang wrote:

> I want to extract the fire QC value for this VIIRS file in IDL:

>

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> Volume IV- Part II - Imagery, Atmospheric, and Cloud EDRs)
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> Is there a code to decipher each element in QF2_VIIRSAEROEDR ?
>
> Thanks,
> -lan
