
Subject: Stretching MODIS data

Posted by [titan](#) on Tue, 31 Jan 2012 11:36:23 GMT

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Hi everybody,

I'm trying to obtain an RGB image using MODIS data channel 01,02,06 (daytime) and channels 20, 21 and 32 (night time).

My code is working fine except for the stretching result in the sense that for the images obtained using "daytime channels" are darker than the ones obtained with the "nighttime channels" and this happens only for images belonging to winter season.

In the following you can find a piece of the code I'm using

```
ch01_modis_meteo_fname='ch01'
RESTORE, path+ch01_modis_meteo_fname
```

```
ch01_v=ch01[where(ch01 gt 0.0)]
  print, 'min(ch01_v)', MIN(ch01_v)
  print, 'max(ch01_v)', MAX(ch01_v)
ch01_modis_meteo_fname_ENVI_format_outname='modis_meteo_ch01 '
```

```
ENVI_WRITE_ENVI_FILE, ch01, DATA_TYPE=4, NS=4400, NL=3300, NB=1,
OFFSET=0, INTERLEAVE=0, PIXEL_SIZE=ch01_fname_ps,$
      MAP_INFO=ch01_map_info_create,
OUT_NAME=ch01_modis_meteo_fname_ENVI_format_outname,
R_FID=ch01_modis_meteo_fname_ENVI_format_r_fid
```

```
ch01_bs=BYTSCL(ch01, min = MIN(ch01_v), max = MAX(ch01_v))
ch01_modis_meteo_fname_ENVI_format_bs_outname='modis_meteo_ch01_bs'
ENVI_WRITE_ENVI_FILE, ch01_bs, DATA_TYPE=1, NS=4400, NL=3300, NB=1,
OFFSET=0, INTERLEAVE=0, PIXEL_SIZE=ch01_fname_ps,$
      MAP_INFO=ch01_map_info_create,
OUT_NAME=ch01_modis_meteo_fname_ENVI_format_bs_outname,
R_FID=ch01_modis_meteo_fname_ENVI_format_bs_r_fid
```

```
ch01_bs2 = BYTSCL(ch01_bs, min = 3, max = 157)
```

```
ch01_modis_meteo_fname_ENVI_format_bs2_outname='modis_meteo_ch01_bs2'
ENVI_WRITE_ENVI_FILE, ch01_bs2, DATA_TYPE=1, NS=4400, NL=3300, NB=1,
OFFSET=0, INTERLEAVE=0, PIXEL_SIZE=ch01_fname_ps,$
      MAP_INFO=ch01_map_info_create,
OUT_NAME=ch01_modis_meteo_fname_ENVI_format_bs2_outname,
R_FID=ch01_modis_meteo_fname_ENVI_format_bs2_r_fid
```

the same code is used for the other channels except for the value in the bytscl function

```
ch02_bs = bytscl(ch02_bs, min = 3, max = 169)  
ch06_bs = bytscl(ch06_bs, min = 2, max = 121)
```

Since at this moment I'm only interested in a visual inspection of my result, Is there a way to harmonize the different results?

If you need other info please let me know

thanks in advance
