Subject: Re: Question on MODIS Conversion Toolkit
Posted by devin.white on Thu, 29 Apr 2010 10:35:40 GMT
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I downloaded the same file you're using and ran it through a modified version of the example grid conversion program that comes with the MCTK user guide (below). All I changed was the file name, out path, out root, and pixel sizes. It runs as expected. If you cannot get this version to work for you and/or you require assistance with batch processing a large number of files, I suggest contacting ITT VIS Technical Support.

```
pro test_batch_modis_conversion_grid
  compile_opt idl2

  modis_grid_file = 'C:\MCTK
\MYD11A1.A2002189.h28v05.005.2007216150809.hdf'

  ;The specified output location MUST end in the appropriate path
  ;separator for your OS
  output_location = 'C:\MCTK\'

  output_rootname = 'MYD11A1_LST'

  grid_name = 'MODIS_Grid_Daily_1km_LST'

  sd_names = 'LST_Day_1km'

  ;Output method schema is:
  ;0 = Standard, 1 = Reprojected, 2 = Standard and reprojected
  out_method = 1

  output_projection = envi_proj_create(/geographic)

  ;Specify the output X and Y pixel sizes in double precision
floating
  ;point. Sizes must be in units relevant to selected output
projection
  ;(degrees in this example).
  out_ps_x = 0.008365d
  out_ps_y = 0.008365d

  ;The interp_method keyword uses the same numbering scheme as
  ;ENVI_REGISTER_DOIT's METHOD keyword
  ;Choosing Triangulation with Nearest Neighbor.
  interpolation_method = 6
```

```
  ;Set reprojection background and any native fill values to -999
  ;Setting num_x_pts to 50 and num_y_pts to 50 results in 2500 GCPs.
  ;That should be more than enough....
  convert_modis_data, in_file=modis_grid_file, $
    out_path=output_location, out_root=output_rootname, $
    /higher_product, /grid, gd_name=grid_name, sd_names=sd_names, $
    out_method=out_method, out_proj=output_projection, $
    out_ps_x=out_ps_x, out_ps_y=out_ps_y, num_x_pts=50, $
    num_y_pts=50, interp_method=interpolation_method, $
    background=-999, fill_replace_value=-999, $
    r_fid_array=r_fid_array, r_fname_array=r_fname_array

end
```

On Apr 28, 9:29 pm, Harry Kim <kim4ecohy...@gmail.com> wrote:

```
>  Devin,
>
>  Sorry for the confusion. out_ps_y was already set to 0.008365. I made
>  a mistake in re-typing my source code here.
>
>  Based on your suggestion, I changed my code using /UTM projection.
>
>  However, I got different error message this time saying that...
>
>  "Unable to attach to specified grid. Check name against HDF file
>  contents."
>
>  I don't understand. The *.hdf file is in the location designated in
>  the code.
>
>  --------------------------------
>  PRO MCTK_MOD11
>  compile_opt idl2
>
>  modis_grid_file = 'D:\MYD11A1.A2002191.h28v05.005.2007216150810.hdf'
>  output_location = 'D:\MODIS11\output'
>  output_rootname = 'MYD11_TEST'
>
>  grid_name = 'MOD_Grid_Daily_1km_LST'
>  sd_names = ['LST_Day_1km']
>
>  out_method = 1
>
>  output_projection = envi_proj_create(/UTM) ;/geographic) ;, /
>  datum=WGS-84)
>
>  ;ps_x = 0.008365d
```

```
>  ;ps_y = 0.008365d
>
>  ps_x = 1000.0
>  ps_y = 1000.0
>
>  print, 'Now IDL is making an image!!!'
>
>  interpolation_method = 6
>
>     convert_modis_data, in_file=modis_grid_file, $
>       out_path = output_location, out_root= output_rootname, $
>       /higher_product, /grid, gd_name=grid_name, sd_names=sd_names, $
>        out_method= out_method, out_proj=output_projection, $
>       ;out_ps_x = 0.008365d, out_ps_y = 0.008365d, num_x_pts=50,
>  num_y_pts=50, interp_method=interpolation_method ;, $
>       out_ps_x=ps_x, out_ps_y=ps_y, num_x_pts=50, num_y_pts=50,
>  interp_method=interpolation_method, $
>       background = -999
>
>  print, 'It is done!'
>
>  end
```