Subject: Elevation data
Posted by d.poreh on Mon, 25 Jan 2010 13:13:51 GMT
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Folks
Hi;
I have an elevation data (elevation.dat), which has lat-long and
elevation information. I want to save this file as a .tiff image and
doing some surface, shade_surf, and… presentations.
Could someone give me some tiny help for doing that?
Any help highly appreciated
Cheers
Dave

Subject: Re: Elevation data
Posted by jkeller on Tue, 26 Jan 2010 11:12:07 GMT
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On Jan 25, 2:13 pm, Dave_Poreh <d.po...@gmail.com> wrote:
> Folks
> Hi;
> I have an elevation data (elevation.dat), which has lat-long and
> elevation information. I want to save this file as a .tiff image and
> doing some surface, shade_surf, and… presentations.
> Could someone give me some tiny help for doing that?
> Any help highly appreciated
> Cheers
> Dave

Hi Dave,

do you want to save the data as tiff or do you want to save the
contour, shade_surf output images as tiff-file?

Using contour and surface is pretty easy. Assuming your elevation data
is the variable "elev" and your longitude and latitude information is
stored in "lon" and "lat" then you yan issue a filled contour plot by
using
contour,elev,lon,lat,/fill,level=mylevels,c_color=mycolors
giving "mylevels" is an array containing the height levels for which
contours are desired and "mycolors" is an array defining the color
indices for the according level.

The surface plot would be even simplier:
surface,elev,lon,lat

Thats some good points, where you can start. If you are more specific

about what you would like to do, I could give you a more specific
answer.

Regards,
Jan

Subject: Re: Elevation data
Posted by d.poreh on Wed, 27 Jan 2010 08:00:45 GMT
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On Jan 26, 3:12 am, jkeller <jkel...@uni-bonn.de> wrote:
> On Jan 25, 2:13 pm, Dave_Poreh <d.po...@gmail.com> wrote:
>
>> Folks
>> Hi;
>> I have an elevation data (elevation.dat), which has lat-long and
>> elevation information. I want to save this file as a .tiff image and
>> doing some surface, shade_surf, and… presentations.
>> Could someone give me some tiny help for doing that?
>> Any help highly appreciated
>> Cheers
>> Dave
>
> Hi Dave,
>
> do you want to save the data as tiff or do you want to save the
> contour, shade_surf output images as tiff-file?
>
> Using contour and surface is pretty easy. Assuming your elevation data
> is the variable "elev" and your longitude and latitude information is
> stored in "lon" and "lat" then you yan issue a filled contour plot by
> using
> contour,elev,lon,lat,/fill,level=mylevels,c_color=mycolors
> giving "mylevels" is an array containing the height levels for which
> contours are desired and "mycolors" is an array defining the color
> indices for the according level.
>
> The surface plot would be even simplier:
> surface,elev,lon,lat
>
> Thats some good points, where you can start. If you are more specific
> about what you would like to do, I could give you a more specific
> answer.
>
> Regards,
> Jan

Thanks Jan. how could save the loaded data as tiff and geotiff?
Cheers

Subject: Re: Elevation data
Posted by Klemen on Wed, 27 Jan 2010 08:42:38 GMT
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> Thanks Jan. how could save the loaded data as tiff and geotiff?
> Cheers

Here is an example:

```
; Set GeoTiff geotags: http://www.remotesensing.org/geotiff/spec/contents.html
s_geotag = {$
 MODELPIXELSCALETAG: [d_resolution, d_resolution, 0], $ ;resolution
 MODELTIEPOINTTAG: [ 0, 0, 0, d_xL, d_yA, 0], $  ;coordinates left
above
; GEOGGEODETICDATUMGEOKEY: 6326, $   ;geodetic datum WGS84
 GTMODELTYPEGEOKEY: 2, $     ;Geographic latitude-longitude System
       GTRASTERTYPEGEOKEY: 1, $    ;raster type
 GEOGRAPHICTYPEGEOKEY: 4326, $
; GEOGLINEARUNITSGEOKEY: 9001, $    ;linear unit meter
 GEOGANGULARUNITSGEOKEY: 9102}    ;angular unit decimal degree

;write 16-bit geotiff - data 16 can be 3D matrix - dimension 1 for
channel, D2 for columns, D3 for lines
write_tiff, 'output_16b.tif', data16, compression=1,
geotiff=s_geotag, /float
```

Hope it helps!
Klemen

Subject: Re: Elevation data
Posted by d.poreh on Thu, 28 Jan 2010 13:22:41 GMT
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On Jan 27, 12:42 am, Klemen <klemen.zak...@gmail.com> wrote:
>> Thanks Jan. how could save the loaded data as tiff and geotiff?
>> Cheers
>
> Here is an example:
>
> ; Set GeoTiff geotags:http://www.remotesensing.org/geotiff/spec/contents.h tml
> s_geotag = {$
> MODELPIXELSCALETAG: [d_resolution, d_resolution, 0], $;resolution

> MODELTIEPOINTTAG: [0, 0, 0, d_xL, d_yA, 0], $;coordinates left
> above
> ; GEOGGEODETICDATUMGEOKEY: 6326, $
;geodetic datum WGS84
> GTMODELTYPEGEOKEY: 2, $
;Geographic latitude-longitude System
> GTRASTERTYPEGEOKEY: 1, $;raster
type
> GEOGRAPHICTYPEGEOKEY: 4326, $
> ; GEOGLINEARUNITSGEOKEY: 9001, $;linear
unit meter
> GEOGANGULARUNITSGEOKEY: 9102}
;angular unit decimal degree
>
> ;write 16-bit geotiff - data 16 can be 3D matrix - dimension 1 for
> channel, D2 for columns, D3 for lines
> write_tiff, 'output_16b.tif', data16, compression=1,
> geotiff=s_geotag, /float
>
> Hope it helps!
> Klemen

Thanks
It‘s help a lot. This is exactly what I want.
Cheers
Dave
