
Subject: colour coded shaded relief DEM

Posted by [Bob Janssen](#) on Fri, 14 Jul 1995 07:00:00 GMT

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I.s.

I intend to produce a colour coded shaded relief DEM. The procedure would be as follows:

dem=bytarr(x,x)

(1) apply a colour lookup table appropriate for representing topography (eg. from light green to dark brown).

tvlct,r,g,b & tv,dem

(2) produce a monochrome shaded relief image (using topo.pro).

shades=topo(dem)

(3) decompose dem into h, s and v channels

dem_h, dem_s and dem_v

(4) replace the value channel dem_v by shades

(5) merge channels into a single image dem_hsv

(6) convert to rgb colour space and display !

This procedure works very well for GMT.

In IDL, steps (1) and (2) are straightforward, however, I did not manage to program steps (3) to (6). I fear that I hit a limit to what IDL can do. I do hope that someone out there already did it or is willing to pay some attention to this problem.

Yours,

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