## Subject: Re: Overlay multiple filled contour plots? Posted by Sarah on Thu, 10 Nov 2005 02:47:24 GMT

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Thanks Peter.

This has helped alot. You were right in assuming that 'some other variable' is defined and to be plotted over both land and sea, but does not fill the entire region. And further I had hoped to overlay several (non-overlapping) filled variables in the plot. Creating the colour table and appropriately filling a 'plot\_array' works well. I will certainly use this in the future.

Unfortunately, I want to make use of the map projections and continents within the mapping routines as well!

The solution I've come up with is to use tvrd to capture each screen I want, then merge them together, in a similar fashion as you suggested above.

It's a bit clunky, but this is the script I came up with:

```
points = where(array_points ne 0, count)
; get variable image
contour, xland, xlong, xlat, levels = [2], $
  c_colors = [64], /fill, /overplot
array_2 = tvrd(true=1)
; overlay array_2 onto array_1 at overlay points
if count ne 0 then begin
  array_temp = reform(array_1[0,*,*])
  array_temp[points] = (array_2[0,*,*])[points]
  array_1[0,*,*] = array_temp
  array_temp = reform(array_1[1,*,*])
  array_temp[points] = (array_2[1,*,*])[points]
  array_1[1,*,*] = array_temp
  array_temp = reform(array_1[2,*,*])
  array_temp[points] = (array_2[2,*,*])[points]
  array_1[2,*,*] = array_temp
endif
tv, array_1, true = 1
It seems to do okay!
Cheers, Sarah
```