
Subject: Has anyone used stippling in contour plot ?
Posted by [siumtesfai](#) on Tue, 05 Aug 2014 12:53:11 GMT
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How can one contour plot with stippling where it shows statistically significant of the trends (e.g temperature trends, zonal wind speed trends etc).

I have the follow 2D array which is filled with zeros and ones

```
nx = 144
ny = 73
lon = findgen(144)*2.5
lat = findgen(73)*2.5-90
```

```
Array=fltarr(nx,ny)
```

```
Array(0:20, 20:50)=1 ,anywhere else is zeros
```

First I have contoured the actual trend values. I want to display where the trends are statistically significant with stippling.

Any suggestion ?

Subject: Re: Has anyone used stippling in contour plot ?
Posted by [Jim Pendleton](#) on Sat, 16 Aug 2014 00:35:48 GMT
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On Tuesday, August 5, 2014 6:53:11 AM UTC-6, siumt...@gmail.com wrote:

> How can one contour plot with stippling where it shows statistically significant of the trends (e.g temperature trends, zonal wind speed trends etc).

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>
> Any suggestion ?

you might look into the IDLgrPattern object and the C_FILL_PATTERN keyword to the CONTOUR() function or IDLgrContour if you're using Object Graphics.

Subject: Re: Has anyone used stippling in contour plot ?
Posted by [Jim Pendleton](#) on Sat, 16 Aug 2014 00:46:04 GMT
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On Friday, August 15, 2014 6:35:48 PM UTC-6, Jim P wrote:
> On Tuesday, August 5, 2014 6:53:11 AM UTC-6, siumt...@gmail.com wrote:
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There is also a handy routine for generating degrees of stippling in lib\utilities\stipple_pattern.pro.

The output from this function can be used as input to the PATTERN property of an IDLgrPattern object.

Subject: Re: Has anyone used stippling in contour plot ?

Posted by [Fabzi](#) on Sun, 17 Aug 2014 14:51:09 GMT

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On 05.08.2014 14:53, siumtesfai@gmail.com wrote:

```
> nx = 144  
> ny = 73  
> lon = findgen(144)*2.5  
> lat = findgen(73)*2.5-90
```

with such a low resolution it is possible to simply plot dark points where the trend is significant, like for this IPCC plot:

http://makanaka.files.wordpress.com/2013/09/ipcc_ar5_wg_spm_trend.jpg

You can use cgPlotS for this.

Subject: Re: Has anyone used stippling in contour plot ?

Posted by [Fabzi](#) on Sun, 17 Aug 2014 14:58:11 GMT

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... and like IPCC, I would suggest not to colorize the non-significant trends but use NaN instead (the usual motto: if the trend is not significant, then there is no trend ;-)). Unfortunately, contour is quite bad with NaN, and you might get better results with cgImage.

On 17.08.2014 16:51, Fabien wrote:

> On 05.08.2014 14:53, siumtesfai@gmail.com wrote:

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> You can use `cgPlotS` for this.

Subject: Re: Has anyone used stippling in contour plot ?
Posted by [siumtesfai](#) on Sun, 16 Aug 2015 15:50:50 GMT
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Thanks Fabien
