
Subject: TVIM and multiple plots.

Posted by [D.Kennedy](#) on Tue, 04 Feb 1997 08:00:00 GMT

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I have a problem with plotting several images using TVIM, specifically in getting them all to use the same scale.

I am putting multiple plots on the page with !P.MULTI=[0,2,3,0,0]

I have six images, so I want the scale on all images to go from [0, max([max(map1), max(map2), max(map3)..etc]) I call this 'range'

Fine, so I call TVIM like this (leaving out unimportant stuff):

```
tvim, map1, /scale, range=range
```

```
tvim, map2, /scale, range=range
```

```
tvim, map3, /scale, range=range
```

I _expect_ this to make all images use the same colours, so the features on each map can be directly compared at a glance without having to check the scales. If they use their own scales some are much stronger than others.

The plots are then misleading at a glance.

What TVIM actually is doing is somewhat different! Its seems to be taking all the data, say it actually goes from 0->5, and stretching it to

fit the 'master scale' on the side, given by range, say 0->9

So, say most of my data for a 'weak' plot is between 0->1, on the plot its boosted to between 2->3 for example.

This means that the page of plots effectively has a different zero level for each image. Most unacceptable to my supervisor I reckon! ;-)

Anyone have any ideas on how to fix this?

Someone must have, come on, don't be shy! You at the back? Ideas?

Erm...its late. Too much caffeine.

(Thanks in advance, please Email replies as well, posts can take as much as two weeks to make it through my arthritic newserver, its crazy!)

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