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Subject: Re: Map an image onto a sphere

Posted by [chris\\_torrence@NOSPAM](mailto:chris_torrence@NOSPAM) on Thu, 14 May 2015 14:27:10 GMT

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On Monday, May 11, 2015 at 12:23:02 PM UTC-6, Joe Llama wrote:

> Hi all,

>

> I'm sure this has been answered before but I can't find the answer. I have an array that is 360 x 180 and I want to project it onto a sphere for display purposes. I've had success using the Mollweide projection with the documentation

>

>

> arr = randomu(seed, [360, 180])

> mollmap = IMAGE(arr, \$

> LIMIT=[-90,-180,90,180], GRID\_UNITS=2, \$

> IMAGE\_LOCATION=[-180,-90], IMAGE\_DIMENSIONS=[360,180], \$

> MAP\_PROJECTION='Mollweide', rgb\_table=13)

>

> But I can't seem to change it so that the projection is onto a sphere instead. Any help would be greatly appreciated. I would also ideally like to be able to specify the central longitude and latitude.

>

> Thanks!

Can you use a Stereographic projection?

```
arr = randomu(seed, [360, 180])
```

```
mollmap = IMAGE(arr, $
```

```
  CENTER_LONGITUDE=-105, $
```

```
  LIMIT=[-90,-185,90,-15], GRID_UNITS=2, $
```

```
  IMAGE_LOCATION=[-180,-90], IMAGE_DIMENSIONS=[360,180], $
```

```
  MAP_PROJECTION='Stereographic', rgb_table=13)
```

```
m = MapContinents(FILL_COLOR='gray')
```

If you change the center lon/lat, you will need to mess with the LIMIT to restrict it to a single hemisphere. Otherwise it starts to look really crazy because of the projection.

Cheers,  
Chris

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