Subject: Re: latitude, longitude and a data point Posted by David Fanning on Tue, 11 Nov 2008 14:22:32 GMT View Forum Message <> Reply to Message

kramerpeterk@gmail.com writes:

```
I have 3 one dimension arrays,
LATITUDE FLOAT = Array[15979]
LONGITUDE FLOAT = Array[15979]
VALUES LONG = Array[15979]
```

_

- > and I want to be able to create a 2D array where each X,Y pair is the
- > value at a particular latitude and longitude. To do this i've tried
- > using David Fanning's scatter3d_on_map which I think plotted it
- > correctly (hard for me to tell in direct graphics), but I am still
- > not sure how to retrieve my 2D array with the floating values I
- > want.

>

- > I'm sure someone will give me an exceedingly simple 1 line solution
- > but any help would be appreciated =)

If you just want a 2D array, and you know the dimensions of the rectangle (I would guess 177 by 90), then you can just reform your array:

```
values = Reform(values, 177, 90)
```

If you want a *projected* 2D array, then I would use MAP_PATCH to create one. You will have to set up the correct map projection first.

Cheers,

David

--

David Fanning, Ph.D. Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Sepore ma de ni thui. ("Perhaps thou speakest truth.")