
Subject: Re: resampling on irregular grid

Posted by [natha](#) on Fri, 08 Jun 2012 13:00:09 GMT

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When I re-sampling grids I normally use nearest neighbour interpolation. I create a matrix with the "projection" indices.

Something like :

```
FOR i=0I, N_ELEMENTS(lon_cart)-1 DO BEGIN
```

```
    diff=(lon1-lon_cart[i])^2.+(lat1-lat_cart[i])^2.
```

```
    min_latlon=MIN(diff,pos)
```

```
    IF min_latlon LE tol THEN BEGIN
```

```
        cart_xindex[i]=(pos MOD nlon)
```

```
        cart_yindex[i]=(pos / nlon) + yy_ini
```

```
    ENDIF
```

```
ENDFOR
```

This loop normally takes a lot of time but if one of your grids is regular you can improve it.

Hope this will help !

natha
