
Subject: Re: Using POLYGON to plot unstructured mesh
Posted by [Laurent Testut](#) on Wed, 23 Oct 2013 11:54:10 GMT
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Hi Dick,

Thanks for your reply, specially because the POLYGON is obviously not a sexy subject in this newsgroup :). You clearly understood my needs.

My mesh is a 2D mesh from ADCIRC model (which I was able to visualize)

```
> oModel = OBJ_NEW('IDLgrModel')  
> oPolygon = OBJ_NEW('IDLgrPolygon', vertices, POLYGONS = connectivity, STYLE = 1)  
> oPolygon->SetProperty, STYLE=1, thick=1  
> oModel->Add, oPolygon  
> XOBJVIEW, oModel, /BLOCK, TITLE = 'Original Mesh'
```

I want now to be able to plot some properties of my model (bathymetry, rugosity, velocity, etc) at each grid node or some properties associate with each triangle (surface, ...). I also want to be able to simply visualize the boundaries with a different color and to plot the polygon segments with a size (km) dependant color scale (each segments has color with depend on his length (in km). As you can see I want to do a lot of things. I was wondering if there is a simple way to associate to my polygon (x,y) and connectivity some additional 'properties/data' (bathy, velocity, ...) which can be easily added to my polygon objects and then plotted.

Thanks for your help,
Laurent
