Subject: How to represent the spatial distribution of a parameter
Posted by duxiyu@gmail.com on Wed, 10 Dec 2008 09:16:29 GMT
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Dear all,

I have three array X, Y and V.
X and Y represent the position, and they are not distributed uniformly
on the X-Y plane.
V represent the parameter values corresponding to their position.

I want to take some 2D figures which can represent the spatial
distribution of the parameter values.
Is there any recommended representation?

I find some figures in a paper which is shown in the web link below.
 http://lh5.ggpht.com/_NSjLmdFf0ac/ST9_aR0A8zI/AAAAAAAAFA/8H 3m5pkbLO0/1.png
 http://lh6.ggpht.com/_NSjLmdFf0ac/ST9_a51bQII/AAAAAAAAFI/2Z oP59xdyYw/2.png
He divided the X-Y plane into small grids, and used the mean of the
parameter at the points, which are located in each grid, to represent
the parameter value in that grid.
I wander whether there is a simple way to do this in IDL.
For example, I want to use the 0.1*0.1 grid to divide the X-Y plane.
How do I plot the figures like that from X, Y and V?

Best regards,
Du