
Subject: Re: Interpolation from a regular to an irregular grid?

Posted by [btt](#) on Wed, 07 May 2003 14:05:35 GMT

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Evan Mason wrote:

> Hi, I am kind of new to IDL, and have just started a new job in
> physical oceanography in Portugal. At present I am familiarising
> myself with IDL, which I will be using extensively.
>
> One of my first tasks is to find a way to input satellite collected
> wind data into an ocean model that is being run here. The wind data
> are regularly spaced, whereas the model requires the data in a series
> of irregularly spaced intervals.
>
> Looking through the messages on this group I see many questions and
> answers about working from irregular to regular grids using
> Triangulate and Trigrd, but I wonder if anyone knows how to do the
> reverse?
>

Hello,

The XOUT and YOUT keywords to TRIGRID and GRIDDATA (IDL version 5.5 and higher) gives you control of irregular gridding.

This is from the online help for IDL 5.6

XOUT

Set this keyword to a vector specifying the output grid X values. If this keyword is supplied, the GS and Limits arguments are ignored. Use this keyword to specify irregularly spaced rectangular output grids. If XOUT is specified, YOUT must also be specified. If keyword NX is also supplied then only the first NX points of XOUT will be used.

Ben
