Subject: Re: Area-and-time-weighted regridding of satellite data query
Posted by Klemen on Tue, 24 Jul 2012 12:31:10 GMT
View Forum Message <> Reply to Message

How about if you interpolated everything using nearest neighbors to a finer grid than your resulting grid would be?

For example you can interpolate everything to 1 km grid assuming you want to have results in 10 km grid. You will then have grid partial coverage of your original data gridded to 1 km. Then you can proceede...

Cheers, Klemen

Subject: Re: Area-and-time-weighted regridding of satellite data query
Posted by David Fanning on Tue, 24 Jul 2012 13:36:59 GMT
View Forum Message <> Reply to Message

Jasdeep Anand writes:

> I have several months worth of satellite data that I would like to bin
> to a more regular grid, creating a time-averaged dataset (e.g a
> monthly, rather than daily dataset)

This kind of gridding is something that IDL has always done poorly, in my opinion. And it is something that is so needed with satellite data that it is hard to believe it is missing in IDL.

I've always used the Mapx coordinate transformation package from the National Snow and Ice Data Center (NSIDC):

http://geospatialmethods.org/mapx

It has a number of robust gridding parameters that can be used to grid satellite data into a map projection. Alas, it is only available for UNIX machines and can be quite difficult to install. Fortunately, the folks at NSIDC are always happy to help.

Cheers,

David

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