
Subject: Re: Code to convert grib spherical harmonic coefficients to gridded lat/lon
Posted by [wgallery](#) on Fri, 30 Nov 2007 14:34:10 GMT

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On Nov 29, 5:41 pm, "Kenneth P. Bowman" <k-bow...@removethis.tamu.edu>
wrote:

> In article
> <30b87d0d-e14a-4c09-abca-31ed7971f...@g30g2000hsb.googlegroup s.com >,
> Bill Gallery <wgall...@aer.com> wrote:
>
>> I have some ECMWF grib files where the data is stored as spherical
>> harmonics. Does anyone have idl code to convert the coefficients to
>> gridded (lat/lon) data? Alternatively, do you have other programs to
>> dump the data from the grib file, convert the spherical harmonics, and
>> write it out? (I know there is a lot of stuff out there to handle
>> grib files [ncl_convert2nc, wgrib, emos, PyNIO, ..] but I need someone
>> with real experience to sort it out.
>
> The do-it-yourself approach is to use SPHEREPACK from NCAR
>
> <http://www.cisl.ucar.edu/softlib/SPHERE.html>
>
> You will have to figure out how to read the GRIB files also.
> The wgrib utility can be used to convert the GRIB files to
> plain binary files. The wgrib pages have some good examples
> of how to extract a particular field from a GRIB file.
>
> Ken Bowman

Ken, thanks. I'll check it out.

BTW, there is now an add on (IDL_GRIB.zip) to IDL that reads grid
files (idl 6.3 or higher). See:

<http://www.ittvis.com/codebank/search.asp?FID=488>

I've used it and it works fine.

Bill Gallery
