
Subject: Re: IDL code for multi-dimensional FFT analysis

Posted by [wmc](#) on Tue, 30 Jun 1998 07:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

Charlotte DeMott <demott@summit.atmos.colostate.edu> writes:

> I know I've seen this question asked before, so hopefully
> someone can point me in the right direction.
>
> Does anyone know of or have code to perform
> multi-dimensional FFT analysis on time series data? In my
> case, I would like to do a space-time analysis of upper
> tropospheric winds to determine the distribution of variance
> for both eastward and westward propagating waves.
>
> Thanks for any suggestions and/or pointers.

I have recently written some stuff to do this. See:

<http://www.nbs.ac.uk/public/icd/wmc/idl/>

(this wasn't the answer published earlier!)

My stuff is was written with time-longitude in mind so might prove useful.

It isn't difficult - fft does it all for you - but figuring out which
bits of the output mean what needs some wrapping up, which is what my pro's do.
Possibly even correctly...

- William

William M Connolley | wmc@bas.ac.uk | <http://www.nbs.ac.uk/public/icd/wmc/>
Climate Modeller, British Antarctic Survey | Disclaimer: I speak for myself
