Subject: Re: 2D Pearson correlation coefficient
Posted by robinson.inj on Fri, 31 Jan 2014 11:09:19 GMT
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http://www.idlcoyote.com/code_tips/eof_analysis.html

http://stackoverflow.com/questions/10633773/how-to-do-area-weighted-regridding-of-regular-lat-lon-data-using-python

On Thursday, January 30, 2014 9:43:54 AM UTC-5, Lim wrote:
> Dear all,
>
> I would like to ask if someone know a code to calculate a 2D Pearson correlation as:
>
>
>
> r^2=(Sum wi*(Mi-M)*(Oi-O))^2 /((Sum wi*(Mi-M)^2)*(Sum wi*(Oi-O)^2))
>
>
>
> Sum runs from i=1 to N. N is the total number of grid cells.
>
> Mi and Oi are the values in the grid cell i and wi is a normalized weight (area) of grid cell i. Sum wi=1 (Sum from i=1 to N).
>
>
>
> IDL has C_Correlate and R_correlate but none of them include the wi factor.
>
>
>
> I will appreciate any assistance.
>
>
>
> Lim