Subject: 2D Pearson correlation coefficient
Posted by limiqt on Thu, 30 Jan 2014 14:43:54 GMT
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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