
Subject: Re: Daily to monthly

Posted by [lecacheux.alain](#) on Fri, 19 Dec 2014 09:31:59 GMT

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

On Wednesday, December 17, 2014 9:54:17 PM UTC+1, Craig Markwardt wrote:

> On Tuesday, December 16, 2014 1:21:46 PM UTC-5, mani...@gmail.com wrote:

>> Hi Craig,

>> I need Monthly means where missing values are taken care of

>

> Average = sum / n_points

>

> The only trick is that n_points could be different depending on missing data. So if I had an array of values DATA[*,*] where DATA[i,j] is the ith position on the jth day, and missing value is -999, I could sum them like this,

>

> tot = 0 ;; cumulative sum of data values

> npt = 0 ;; cumulative sum of number of good data values

> for j = 0, NDAYS-1 do begin

> mask = data[* ,j] NE -999 ;; mask of good values only, 1=good

> npt = npt + mask ;; add to number of good values

> tot = tot + (data[* ,j]*mask) ;; add good vals to cumulative data sum

> endfor

>

> ;; Compute average

> av = tot / npt

>

> Craig

Hi Craig,

Note that you might simply do:

mask = data ne -999

av = Total(data*mask, 2)/Total(mask, 2); daily average

av = Total(data*mask)/Total(mask); overall average

etc...

alx.
