
Subject: Re: Daily to monthly

Posted by [Craig Markwardt](#) on Wed, 17 Dec 2014 20:54:15 GMT

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

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
