
Subject: Re: Five days mean values

Posted by [K. Bowman](#) on Wed, 05 Oct 2005 21:57:16 GMT

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In article <1128546470.965721.312300@g49g2000cwa.googlegroups.com>,
"Julio" <julio@cpa.unicamp.br> wrote:

> Hello people,
>
> I have meteorological data from several years, like these:
>
> Date Temp (max) Temp (min)
> 01/08/2001 27.2 12.7
> 02/08/2001 27.8 12.4
> 03/08/2001 26.8 16.3
> 04/08/2001 26.6 12
> 05/08/2001 27.4 11
> 06/08/2001 27.6 16.1
> 07/08/2001 27.6 11.2
> 08/08/2001 28.4 13.4
> 09/08/2001 27.2 10.9
> 10/08/2001 26 9.7
>
> I want to calculate mean value from 01-05 days, 05-10 days, 10-15 days
> and so on.
> In other words, I must get the mean value at each five days.
> I'm trying to make some code to get it automatically. I think this kind
> of work is trivial for meteorological data users. Does anybody have
> some idea?
>
> Regards,

If the data are in an array T, this is a very quick way to compute averages

```
IDL> T = findgen(15)
IDL> print, T
   0.00000   1.00000   2.00000   3.00000   4.00000   5.00000
  6.00000
   7.00000   8.00000   9.00000  10.0000   11.0000  12.0000
 13.0000
  14.0000
IDL> print, rebin(T, 3)
   2.00000   7.00000  12.0000
```

but make sure that the number of days is a multiple of 5 and that you have no missing data. Also, watch out for leap days.

