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Subject: Re: time-series monthly averages rainfall  
Posted by [Russell Ryan](#) on Mon, 21 May 2012 19:15:14 GMT  
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On May 21, 3:06 pm, k\_ghr...@yahoo.com wrote:

> Dear all,  
> I wrote my own code to calculate a time-series monthly averages  
> rainfall .  
> the measured data are recorded as follows

> ++++++

> 9/15/1988	0.00
> 9/16/1988	0.20
> 9/17/1988	0.00
> 9/18/1988	0.00
> 9/19/1988	19.70
> 9/20/1988	0.00
> 9/21/1988	0.00
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> 11/11/1988	0.00
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> 12/1/1999	2.70
> 12/2/1999	3.10
> 12/3/1999	9.70
> 12/4/1999	0.00
> 12/5/1999	5.80
> 12/6/1999	28.80
> 12/7/1999	6.50
> 12/8/1999	5.80
> 12/9/1999	0.00
> 12/10/1999	0.00
> 12/11/1999	0.00
> 12/12/1999	0.00
> 12/13/1999	0.00
> 12/14/1999	0.00
> 12/15/1999	0.00
> 12/16/1999	0.00
> 12/17/1999	0.00

> 12/18/1999	0.00
> 12/19/1999	0.00
> 12/20/1999	0.00
> 12/21/1999	0.00
> 12/22/1999	0.00
> 12/23/1999	0.20
> 12/24/1999	0.10
> 12/25/1999	0.00
> 12/26/1999	0.00
> 12/27/1999	0.00
> 12/28/1999	0.00
> 12/29/1999	0.00
> 12/30/1999	1.40
> 12/31/1999	1.30
> 1/1/2000	5.00
> 1/2/2000	1.10
> 1/3/2000	8.60
> 1/4/2000	0.00
> 1/5/2000	0.00
> 1/6/2000	0.00
> 1/7/2000	0.00
> 1/8/2000	0.00
> 1/9/2000	0.00
> 1/10/2000	0.00
> 1/11/2000	0.00
> 1/12/2000	0.00
> 1/13/2000	5.70
> 1/14/2000	0.00
> 1/15/2000	0.00
> 1/16/2000	0.00
> 1/17/2000	0.00
> 1/18/2000	0.00
> 1/19/2000	0.00
> 1/20/2000	0.00
> 1/21/2000	0.20
> 1/22/2000	0.00
> 1/23/2000	0.00
> 1/24/2000	0.00
> 1/25/2000	0.00
> 1/26/2000	0.00
> 1/27/2000	0.00
> 1/28/2000	0.00
> 1/29/2000	0.00
> 1/30/2000	0.00
> 1/31/2000	0.00
> 2/1/2000	0.00
> 2/2/2000	0.00
> 2/3/2000	0.00

> 2/4/2000	12.00
> 2/5/2000	8.00
> 2/6/2000	15.60
> 2/7/2000	0.00
> 2/8/2000	0.00
> 2/9/2000	0.00
> 2/10/2000	6.10
> 2/11/2000	12.20
> 2/12/2000	0.00
> 2/13/2000	4.90
> 2/14/2000	0.80
> 2/15/2000	0.00
> 2/16/2000	0.00
> 2/17/2000	0.00
> 2/18/2000	0.00
> 2/19/2000	0.00
> 2/20/2000	0.00
> 2/21/2000	0.00
> 2/22/2000	0.00
> 2/23/2000	3.50
> 2/24/2000	12.80
> 2/25/2000	1.20
> 2/26/2000	0.00
> 2/27/2000	0.00
> 2/28/2000	0.00
> 2/29/2000	0.00
> 3/1/2000	0.00
> 3/2/2000	0.00
> 3/3/2000	0.00
> 3/4/2000	0.00
> 3/5/2000	0.00
> 3/6/2000	0.00
> 3/7/2000	0.00
> 3/8/2000	0.00
> 3/9/2000	0.00
> 3/10/2000	0.00
> 3/11/2000	0.00
> 3/12/2000	0.00
> 3/13/2000	0.00
> 3/14/2000	0.00
> 3/15/2000	0.00
> 3/16/2000	5.60
> 3/17/2000	3.50
> 3/18/2000	0.00
> 3/19/2000	0.00
> 3/20/2000	0.00
> 3/21/2000	0.00
> 3/22/2000	0.00

> 3/23/2000	0.00
> 3/24/2000	0.00
> 3/25/2000	0.00
> 3/26/2000	0.00
> 3/27/2000	0.00
> 3/28/2000	0.00
> 3/29/2000	0.00
> 3/30/2000	0.00
> 3/31/2000	0.00
> 4/1/2000	0.00
> 4/2/2000	0.00
> 4/3/2000	0.30
> 4/4/2000	0.00
> 4/5/2000	0.00
> 4/6/2000	0.00
> 4/7/2000	0.00
> 4/8/2000	0.00
> 4/9/2000	0.00
> 4/10/2000	0.00
> 4/11/2000	0.00
> 4/12/2000	0.00
> 4/13/2000	0.00
> 4/14/2000	0.00
> 4/15/2000	0.00
> 4/16/2000	0.00
> 4/17/2000	0.00
> 4/18/2000	0.00
> 4/19/2000	0.00
> 4/20/2000	0.00
> 4/21/2000	0.00
> 4/22/2000	0.00
> 4/23/2000	0.00
> 4/24/2000	0.00
> 4/25/2000	0.00
> 4/26/2000	0.00
> 4/27/2000	0.00
> 4/28/2000	0.00
> 4/29/2000	0.00
> 4/30/2000	1.50
> 5/1/2000	0.00
> 5/2/2000	0.00
> 5/3/2000	0.00
> 5/4/2000	0.00
> 5/5/2000	0.00
> 5/6/2000	0.00
> 5/7/2000	0.20
> 5/8/2000	0.50
> 5/9/2000	0.00

> 5/10/2000	0.00
> 5/11/2000	0.00
> 5/12/2000	0.00
> 5/13/2000	0.00
> 5/14/2000	0.00
> 5/15/2000	0.00
> 5/16/2000	0.00
> 5/17/2000	0.00
> 5/18/2000	0.00
> 5/19/2000	0.00
> 5/20/2000	0.00
> 5/21/2000	0.00
> 5/22/2000	0.00
> 5/23/2000	0.00
> 5/24/2000	0.00
> 5/25/2000	0.00
> 5/26/2000	0.20
> 5/27/2000	0.00
> 5/28/2000	0.00
> 5/29/2000	0.00
> 5/30/2000	0.00
> 5/31/2000	0.00
> 6/1/2000	0.00
> 6/2/2000	0.00
> 6/3/2000	0.00
> 6/4/2000	0.00
> 6/5/2000	0.00
> 6/6/2000	0.00
> 6/7/2000	0.00
> 6/8/2000	0.00
> 6/9/2000	0.00
> 6/10/2000	0.00
> 6/11/2000	0.00
> 6/12/2000	0.00
> 6/13/2000	0.00
> 6/14/2000	0.00
> 6/15/2000	0.00
> 6/16/2000	0.00
> 6/17/2000	0.00
> 6/18/2000	0.00
> 6/19/2000	0.00
> 6/20/2000	0.00
> 6/21/2000	0.00
> 6/22/2000	0.00
> 6/23/2000	0.00
> 6/24/2000	0.00
> 6/25/2000	0.00
> 6/26/2000	0.00

> 6/27/2000	0.00
> 6/28/2000	0.00
> 6/29/2000	0.00
> 6/30/2000	0.00
> 7/1/2000	0.00
> 7/2/2000	0.00
> 7/3/2000	0.00
> 7/4/2000	0.00
> 7/5/2000	0.00
> 7/6/2000	0.00
> 7/7/2000	0.00
> 7/8/2000	0.00
> 7/9/2000	0.00
> 7/10/2000	0.00
> 7/11/2000	0.00
> 7/12/2000	0.00
> 7/13/2000	0.00
> 7/14/2000	0.00
> 7/15/2000	0.00
> 7/16/2000	0.00
> 7/17/2000	0.00
> 7/18/2000	0.00
> 7/19/2000	0.00
> 7/20/2000	0.00
> 7/21/2000	0.00
> 7/22/2000	0.00
> 7/23/2000	0.00
> 7/24/2000	0.00
> 7/25/2000	0.00
> 7/26/2000	0.00
> 7/27/2000	0.00
> 7/28/2000	0.00
> 7/29/2000	0.00
> 7/30/2000	0.00
> 7/31/2000	0.00
> 8/1/2000	0.00
> 8/2/2000	0.00
> 8/3/2000	0.00
> 8/4/2000	0.00
> 8/5/2000	0.00
> 8/6/2000	0.00
> 8/7/2000	0.00
> 8/8/2000	0.00
> 8/9/2000	0.00
> 8/10/2000	0.00
> 8/11/2000	0.00
> 8/12/2000	0.00
> 8/13/2000	0.00

> 8/14/2000	0.00
> 8/15/2000	0.00
> 8/16/2000	0.00
> 8/17/2000	0.00
> 8/18/2000	0.00
> 8/19/2000	0.00
> 8/20/2000	0.00
> 8/21/2000	0.00
> 8/22/2000	0.00
> 8/23/2000	0.00
> 8/24/2000	0.00
> 8/25/2000	0.00
> 8/26/2000	0.00
> 8/27/2000	0.00
> 8/28/2000	0.00
> 8/29/2000	0.00
> 8/30/2000	0.00
> 8/31/2000	0.00
> 9/1/2000	0.00
> 9/2/2000	0.00
> 9/3/2000	0.00
> 9/4/2000	0.00
> 9/5/2000	0.00
> 9/6/2000	0.00
> 9/7/2000	0.00
> 9/8/2000	0.00
> 9/9/2000	0.00
> 9/10/2000	0.00
> 10/8/2000	0.00
> 10/9/2000	0.00
> 10/10/2000	0.00
> 10/11/2000	0.00
> 10/12/2000	0.00
> 10/13/2000	0.00
> 10/14/2000	1.90
> 10/15/2000	0.00
> 10/16/2000	0.00
> 10/17/2000	7.50
> 10/18/2000	9.10
> 10/19/2000	0.50
> 10/20/2000	3.00
> 10/21/2000	3.70
> 10/22/2000	0.40
> 10/23/2000	0.00
> 10/24/2000	0.00
> 10/25/2000	0.00
> 10/26/2000	0.00
> 10/27/2000	0.00

> 10/28/2000	0.40
> 10/29/2000	0.00
> 10/30/2000	0.00
> 10/31/2000	0.00
> 11/1/2000	0.00
> 11/2/2000	0.00
> 11/3/2000	0.00
> 11/4/2000	0.00
> 11/5/2000	0.00
> 11/6/2000	0.00
> 11/7/2000	0.00
> 11/8/2000	0.00
> 11/9/2000	0.00
> 11/10/2000	0.00
> 11/11/2000	0.00
> 11/12/2000	0.00
> 11/13/2000	0.00
> 11/14/2000	0.00
> 11/15/2000	0.00
> 11/16/2000	0.00
> 11/17/2000	0.00
> 11/18/2000	0.00
> 11/19/2000	0.00
> 11/20/2000	0.00
> 11/21/2000	0.00
> 11/22/2000	0.00
> 11/23/2000	0.00
> 11/24/2000	0.00
> 11/25/2000	0.00
> 11/26/2000	0.00
> 11/27/2000	0.00
> 11/28/2000	0.00
> 11/29/2000	0.00
> 11/30/2000	0.00
> 12/1/2000	0.00
> 12/2/2000	0.00
> 12/3/2000	0.30
> 12/4/2000	0.20
> 12/5/2000	6.70
> 12/6/2000	0.00
> 12/7/2000	0.00
> 12/8/2000	0.00
> 12/9/2000	0.00
> 12/10/2000	0.00
> 12/11/2000	0.00
> 12/12/2000	0.00
> 12/13/2000	0.00
> 12/14/2000	0.00

```

> 12/15/2000      0.00
> 12/16/2000      0.00
> 12/17/2000      3.70
> ++++++ please note that the data are not recorded
> regularly.
> I wrote my one code to skip the non measured intervals in the
> large data set we have as follows.
> ----- the code
> Pro rain_monthly_mean
>
> Device, Decomposed=0, Get_Decomposed=theState
>
> ;cccccccccccccc
>
> IF N_Elements(filename) EQ 0 THEN BEGIN
>   filename = Dialog_Pickfile(Filter='*.prn', Title='Select Rain
> file for READING')
>   IF filename EQ "" THEN RETURN
>   ENDIF
>
> ;Read the input data
> OpenR, lun, filename, /Get_Lun
> data =strarr(3065)
> READF, lun, data
> close, lun
>
> ;Open an output file to hold the date and rain information
> ;openw, lun, 'C:\Documents and Settings\test\agro1002f.txt'
> openw, lun, 'C:\Documents and Settings\test.txt'
>
> for i=0,n_elements(data)-1 do begin
>
>   ;Divide the input string into pieces for date and rain amount
>   pieces = STRSPLIT(data[i], ' ', /EXTRACT)
>   date_sub = pieces[0]
>   ra_sub = pieces[1]
>
>   ;Get the day, month, year from the date substring
>   ; Also convert them to integers
>   date_pieces = STRSPLIT(date_sub, '/', /EXTRACT)
>   day = long(date_pieces[1])
>   month = long(date_pieces[0])
>   yy = long(date_pieces[2])
>
>   ;Write to output file
>   printf,lun, yy, month,day, ra_sub, format='(I4, 5x,I3, 5x, I3, 5x,
> f7.2) '
>
>

```

```

> endfor
> close, lun
>
> ;????????????????????????????????????????????????????????
> array=fltarr(4,3065)
>
> f='C:\Documents and Settings\test.txt'
> ;f='test_ebert.txt'
> openr,lun,f,/get_lun
> readf,lun,array
> free_lun,lun
>
> year      = reform(array[0,*])
> mon       = reform(array[1,*])
> Da        = reform(array[2,*])
> va_rain   = reform(array[3,*])
>
> y = year[UNIQ(year)]
> print, y , n_elements(y) ; my aim
>
> ;=====
>
> b = mon[UNIQ(mon)]
> print, b ; month_index 9 10, 11, 12, 1, 2, 4, 5, \\ my aim
>
> print, n_elements(b) ; number of months= ?
>
> end
>
> -----
>
> ++++++ the ouptput data as follows
> 1988.00 1989.00 1990.00 1991.00 1995.00 1996.00 1997.00 1998.00
> 1999.00 2000.00
> 10
> 9.00000 10.0000 11.0000 12.0000 1.00000 2.00000 3.00000 4.00000
> 7.00000 8.00000
> 9.00000 10.0000 11.0000 12.0000 1.00000 2.00000 3.00000 4.00000
> 5.00000 6.00000
> 7.00000 8.00000 9.00000 10.0000 11.0000 12.0000 1.00000 2.00000
> 3.00000 4.00000
> 5.00000 6.00000 7.00000 8.00000 9.00000 10.0000 11.0000 12.0000
> 3.00000 4.00000
> 5.00000 6.00000 7.00000 8.00000 9.00000 10.0000 11.0000 12.0000
> 1.00000 2.00000
> 3.00000 4.00000 5.00000 6.00000 7.00000 8.00000 9.00000 10.0000
> 11.0000 12.0000
> 1.00000 2.00000 3.00000 4.00000 5.00000 6.00000 7.00000 8.00000

```

```

> 9.00000 10.0000
> 11.0000 12.0000 1.00000 2.00000 3.00000 4.00000 9.00000 10.0000
> 11.0000 12.0000
> 1.00000 2.00000 3.00000 4.00000 5.00000 6.00000 7.00000 8.00000
> 9.00000 10.0000
> 11.0000 12.0000 1.00000 2.00000 3.00000 4.00000 5.00000 6.00000
> 7.00000 8.00000
> 9.00000 10.0000 11.0000 12.0000
> 104
> ++++++
> Now
> I would like to read the values of measured rainfall and count the
> rainy and non rainy days in each month in the large data set.
>
> the final output data must be as follows:-
>
> " year - month-number of rainy days - number of non rainy days-
> monthly total rainfall"
>
> I can't complete my own code.
>
> Thank you very much for your helping
> Khaled" k_ghr...@yahoo.com"

```

What is meant by rainy days? Simply a day on which it rained? If so, then you just need to use the histogram function and loop over month and year.

- (1) pick a month and year (say Jan 2000)
- (2) find all the dates which are in that month and year:

1/1/2000	5.00
1/2/2000	1.10
1/3/2000	8.60
1/4/2000	0.00
1/5/2000	0.00
1/6/2000	0.00
1/7/2000	0.00
1/8/2000	0.00
1/9/2000	0.00
1/10/2000	0.00
1/11/2000	0.00
1/12/2000	0.00
1/13/2000	5.70
1/14/2000	0.00
1/15/2000	0.00
1/16/2000	0.00

1/17/2000	0.00
1/18/2000	0.00
1/19/2000	0.00
1/20/2000	0.00
1/21/2000	0.20
1/22/2000	0.00
1/23/2000	0.00
1/24/2000	0.00
1/25/2000	0.00
1/26/2000	0.00
1/27/2000	0.00
1/28/2000	0.00
1/29/2000	0.00
1/30/2000	0.00
1/31/2000	0.00

(3) call histogram with the binsize set to your precision:

```
hist=histogram(rain(days_which_are_jan_2000),bin=0.01,locations=bins)
```

(4) obviously, days where it rained are days which are not bins=0. so total the histogram for bins ne 0.00

(5) go to next month/day

GOod luck,  
Russell

PS, you might look into using julian date for you time coordinate ---  
this caldate is nice but clunky...

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