Chronomics Analysis Toolbox (CAT)

30 Jan, 2020−−21:17:45

Parameters

Functions

These parameters describe the functions run, and key modifiers for those functions:

Smoothing= TRUE
(k= 5)

Actogram= TRUE
(modulo= 1440)

AutoCorr= TRUE
(LagPcnt= 1)

CrossCorr= FALSE

yLab= " NA "

Data and Processing

Indicate columns to be processed, interval between observations, desired bin sizes, and other details:

TimeFormat= %Y−%m−%d %H:%M:%S
TimeCol= 1
valCols= 2 , sumCols= NULL
Avg= FALSE
sizePts= 1 , binPts= 30
RmaxGap= 3000
Span = 0 , Increment= 0
lum= NA
Darkness1= 0
Darkness2= 0
header= TRUE , Skip= 0
nFiles= 1

Output Format

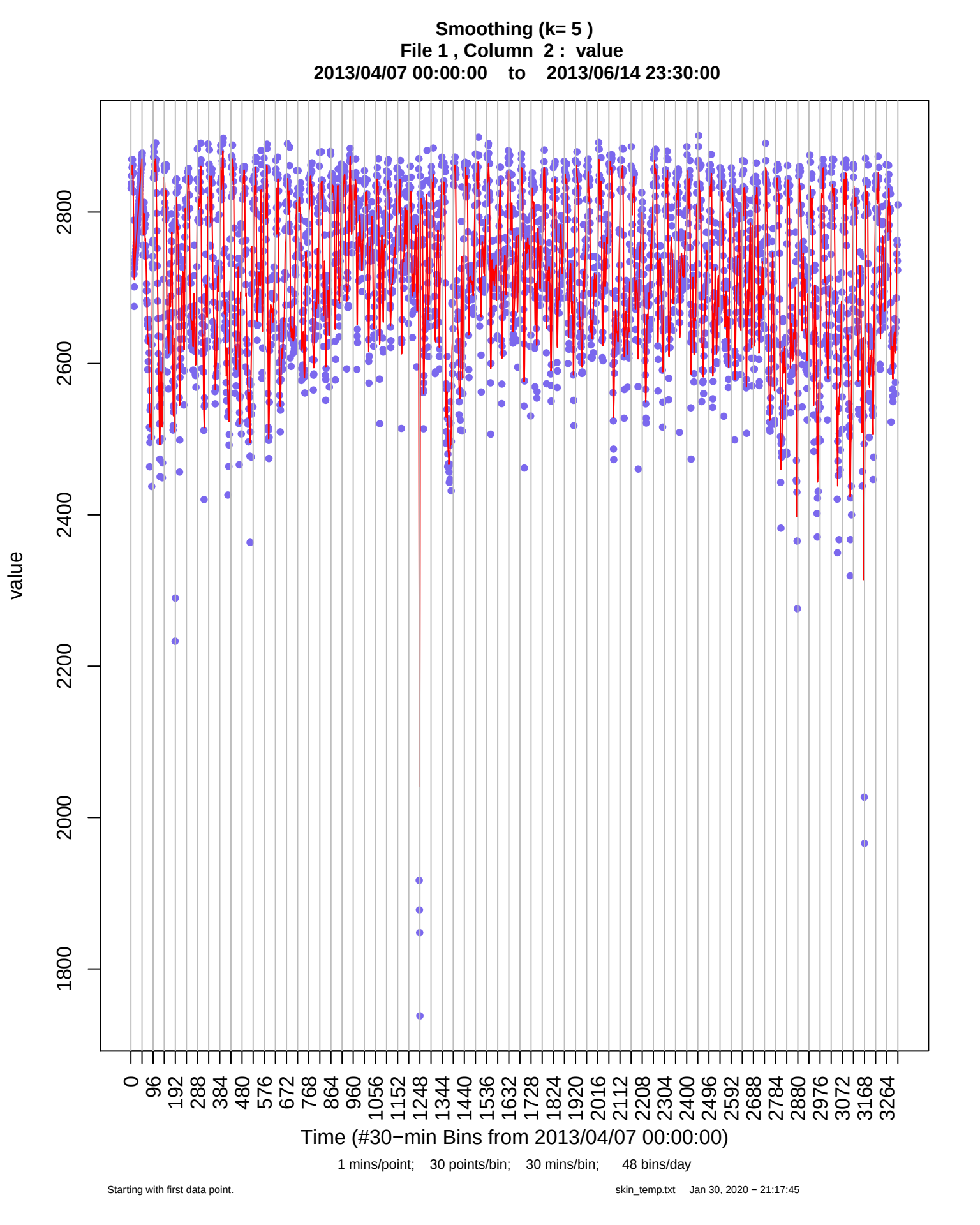
Graphic format, whether to export the data, verbosity, and other details:

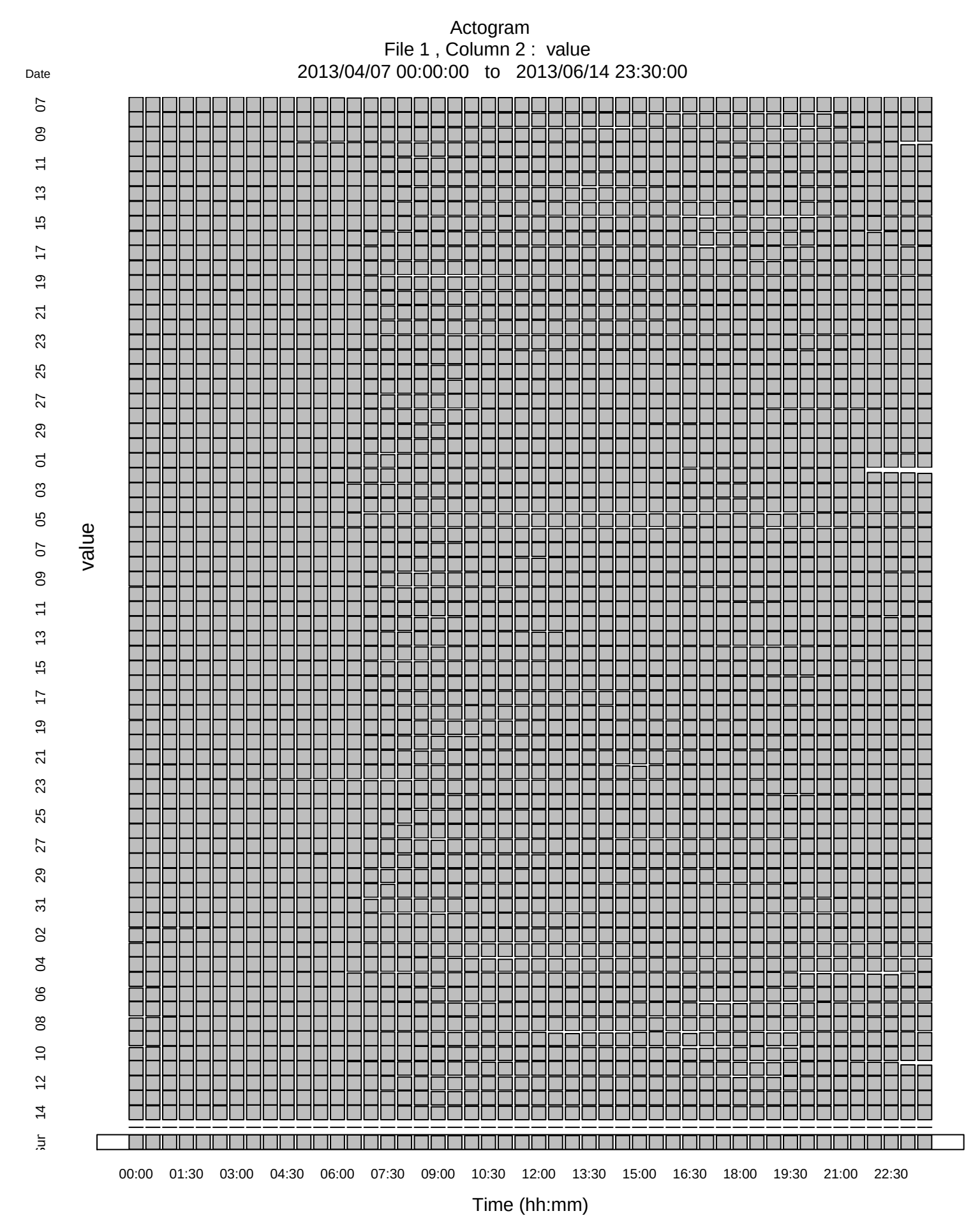
Rverbose= 0
Console= FALSE
Graphics= pdf
export= TRUE

Data Files:

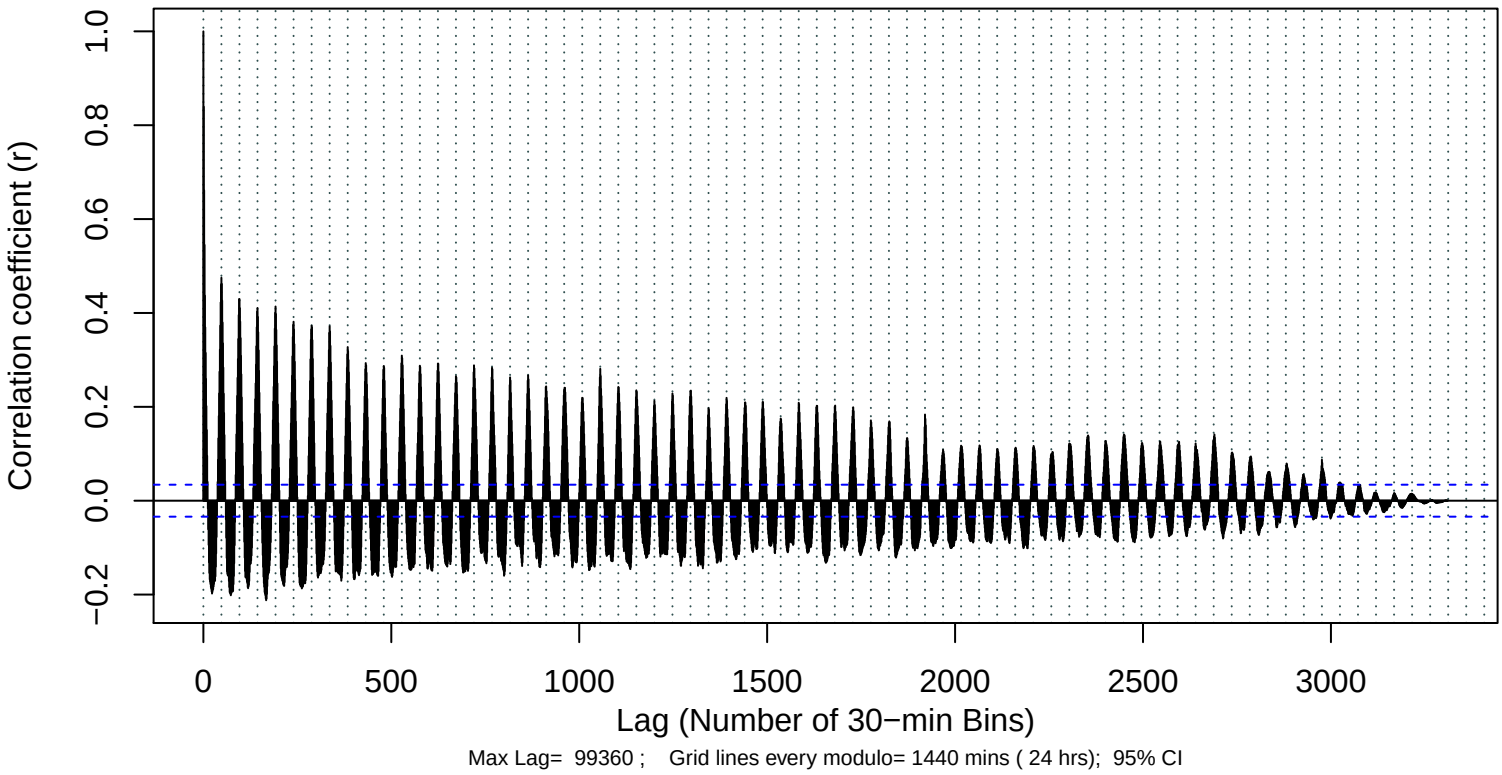
File1: 0 % missing data; max gap: 0

Input
File1 = C:/Users/yanru/Downloads/skin_temp/data/skin_temp.txt
File2 =
Output: Binned and interpolated data
File1out =... C:/Users/yanru/Downloads/skin_temp/data/skin_temp.txt−−30Jan2020−−21−17−44CATfile1binned.txt
File2out =...


Smoothing (k= 5)
File 1 , Column 2 : value
2013/04/07 00:00:00 to 2013/06/14 23:30:00
value
1800
2000
2200
2400
2600
2800
0
96
192
288
384
480
576
672
768
864
960
1056
1152
1248
1344
1440
1536
1632
1728
1824
1920
2016
2112
2208
2304
2400
2496
2592
2688
2784
2880
2976
3072
3168
3264
Time (#30−min Bins from 2013/04/07 00:00:00)
1 mins/point; 30 points/bin; 30 mins/bin; 48 bins/day
Starting with first data point.
skin_temp.txt Jan 30, 2020 − 21:17:45

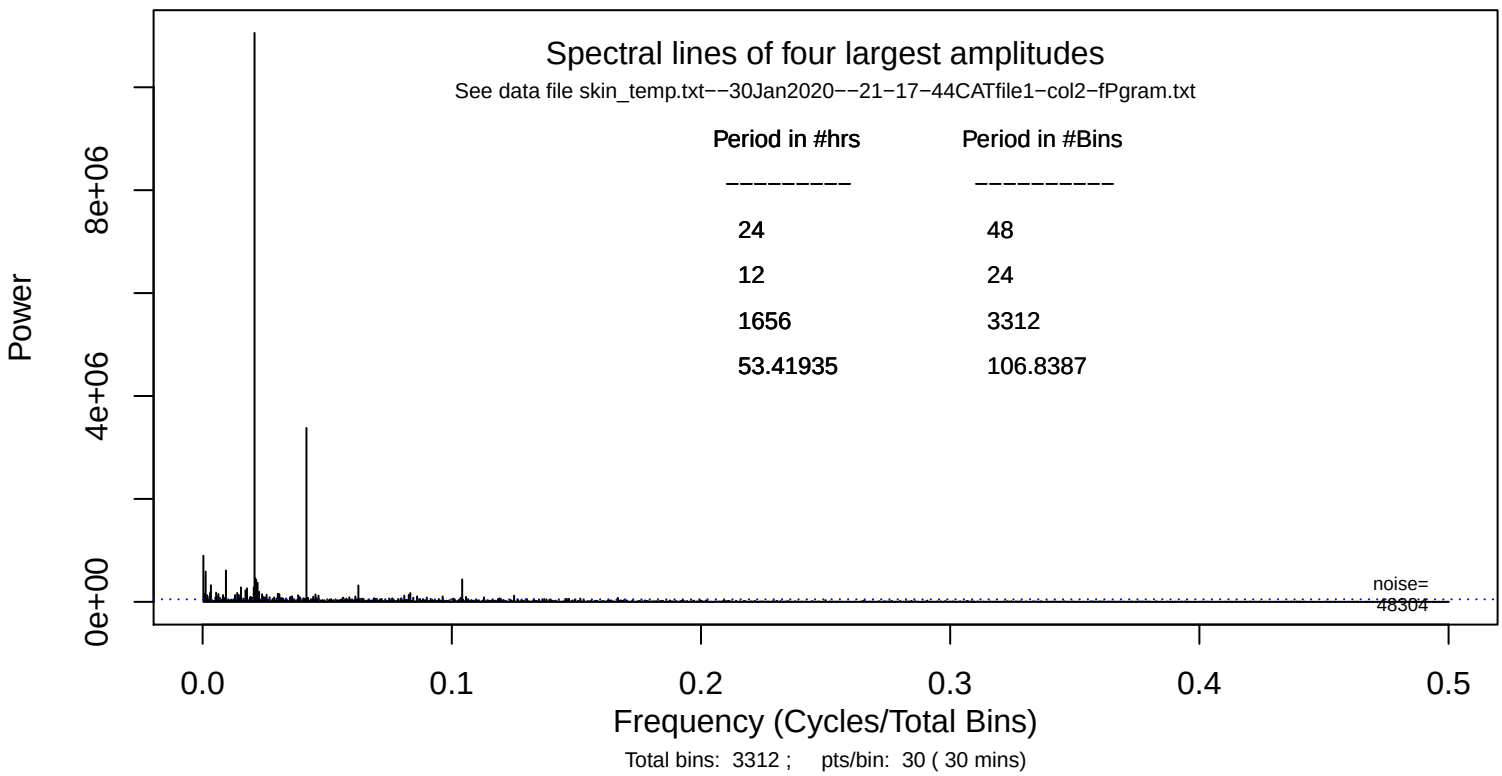

Actogram
File 1 , Column 2 : value
2013/04/07 00:00:00 to 2013/06/14 23:30:00
Date
07
09
11
13
15
17
19
21
23
25
27
29
01
03
05
07
09
11
13
15
17
19
21
23
25
27
29
31
02
04
06
08
10
12
14
value
00:00
01:30
03:00
04:30
06:00
07:30
09:00
10:30
12:00
13:30
15:00
16:30
18:00
19:30
21:00
22:30
Time (hh:mm)

AutoCorrelation
File 1 , Column 2 : value
2013/04/07 00:00:00 −− 2013/06/14 23:30:00



Max Lag= 99360 ; Grid lines every modulo= 1440 mins (24 hrs); 95% CI

Periodogram by FFT



Total bins: 3312 ; pts/bin: 30 (30 mins)

Span: 0 Inc: 0

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