Sunspots Observation 2017 DECEMBER

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Year: 2017
Month: December

OBSERVER: German Morales C.
           Astronomia Sigma Octante

Instr.: SCT
    Fl: 2000mm   Aperture: 200mm   Aperture stop used: 90mm

    Method: Projection   Image diameter: 140mm

Day	UT	Q	g	s	R	Ng	Ns	NR	Sg	Ss	SR	cR	CV	IS	M	Cld	Remarks
1	1530	3	0	0	0	0	0	0	0	0	0	0	0	0		100	cirrus
2	1500	4	0	0	0	0	0	0	0	0	0	0	0	0		5	
3	1550	3	0	0	0	0	0	0	0	0	0	0	0	0		30	
4															*	100	rain
5															!	100	RAIn
6	1520	2	1	3	13	1	3	13	0	0	0	13	7	4		100	st. cirrus
7	1540	3	0	0	0	0	0	0	0	0	0	0	0	0		5	
8															!	100	rain
9	1430	3	0	0	0	0	0	0	0	0	0	0	0	0		90	
10															!	100	RAIn
11	1640	3	1	4	14	0	0	0	1	4	14	0	13	5		85	
12	1530	3	0	0	0	0	0	0	0	0	0	0	0	0		0	
13	1540	4	0	0	0	0	0	0	0	0	0	0	0	0		5	
14	1600	3	0	0	0	0	0	0	0	0	0	0	0	0		80	
15	1850	3	0	0	0	0	0	0	0	0	0	0	0	0		20	
16	1510	3	0	0	0	0	0	0	0	0	0	0	0	0		15	
17															X		
18															!	100	RAin
19	1520	2	0	0	0	0	0	0	0	0	0	0	0	0		0	
20	1450	4	1	9	19	1	9	19	0	0	0	0	28	10		5	
21	1740	3	1	9	19	1	9	19	0	0	0	0	28	10		60	
22	1710	3	1	16	26	1	16	26	0	0	0	26	34	17		70	
23	1750	3	1	17	27	1	17	27	0	0	0	27	28	18		70	
24															!	100	rAin
25	1610	3	1	9	19	1	9	19	0	0	0	19	25	10		10	
26	1550	3	1	10	20	1	10	20	0	0	0	0	25	11		5	
27															*	100	rAin
28	1410	3	0	0	0	0	0	0	0	0	0	0	0	0		0	
29															!	100	raIn
30	1550	3	0	0	0	0	0	0	0	0	0	0	0	0		100	cirrus
31	1420	3	0	0	0	0	0	0	0	0	0	0	0	0		40	

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Sunspots observation summary
Year: 2017
Month: December

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Monthly Mean R = 7.1

NR = 6.5 SR = 0.6 cR = 3.9

CV = 8.5 IS = 3.9

Q = 3.0 Cld = 56.5%

The Sun has been observed 22 days on 31 possible.
8 cloudy days impede observe the Sun

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Column Headings

UT: UTC at middle of observation
Q: Quality seeing
    1 Bad, 2 Poor, 3 Fair, 4 Good, 5 Excelent

R: Wolf relative number for whole disc
    g: Total Groups, s: Total Spots
NR: Wolf Relative number North hemisphere
    Ng: North Groups, Ns: North Spots
SR: Wolf Relative number South hemisphere
    Sg: South Groups, Ss: South Spots
cR: Wolf Relative number Central
CV: Classification Value after Malde for whole disc
IS: Inter Sol index for whole disc

M: ! Cloudy all day
    * Cloudy at observation hours
    X Impossible to make any kind of observation
Cld: Percentage of cloudy sky

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