

MONTHLY REPORT OF SUNSPOT OBSERVATION

Jan.2020

Observer-K.. Fujimori Suwa City, Nagano

Date	Time (UT)	N			S			Total		10g+f		Cent			Seeing 5-1	Remarks
		g	f	r	g	f	r	g	f	r	g	f	r			
1	2:10	0	0	0	0	0	0	0	0	0	0	0	0	3		
2	2:20	0	0	0	0	0	0	0	0	0	0	0	0	3		
3	2:50	0	0	0	0	0	0	0	0	0	0	0	0	3		
4	2:30	0	0	0	0	0	0	0	0	0	0	0	0	3		
5	3:05	0	0	0	0	0	0	0	0	0	0	0	0	3		
6	3:25	0	0	0	0	0	0	0	0	0	0	0	0	3		
7															C	
8															C-S	
9	3:10	0	0	0	0	0	0	0	0	0	0	0	0	3		
10	3:40	0	0	0	0	0	0	0	0	0	0	0	0	2		
11	2:50	0	0	0	0	0	0	0	0	0	0	0	0	3		
12															C	
13	2:10	0	0	0	0	0	0	0	0	0	0	0	0	3		
14															M	
15	4:00	0	0	0	0	0	0	0	0	0	0	0	0	3		
16	2:20	0	0	0	0	0	0	0	0	0	0	0	0	2		
17	1:55	0	0	0	0	0	0	0	0	0	0	0	0	2		
18															C	
19	2:20	0	0	0	0	0	0	0	0	0	0	0	0	3		
20	2:00	0	0	0	0	0	0	0	0	0	0	0	0	3		
21	2:20	0	0	0	0	0	0	0	0	0	0	0	0	3		
22	3:00	0	0	0	0	0	0	0	0	0	0	0	0	3		
23	3:45	0	0	0	0	0	0	0	0	0	0	0	0	3		
24	3:45	0	0	0	0	0	0	0	0	0	0	0	0	2		
25															C	
26	2:30	1	4	14	0	0	0	1	4	14	1	4	14	2		
27															C	
28															C	
29	7:19	0	0	0	1	2	12	1	2	12	0	0	0	2		
30	3:00	0	0	0	1	2	12	1	2	12	0	0	0	2		
31	2:30	0	0	0	0	0	0	0	0	0	0	0	0	3		
Sum				14			24			38			14			
Mean				0.6			1.0			1.7			0.6			

MONTHLY REPORT OF SUNSPOT OBSERVATION

Feb. 2020

Observer-K.. Fujimori Suwa City, Nagano

Date	Time (UT)	N			S			Total		10g+f			Cent			Seeing 5-1	Remarks
		g	f	r	g	f	r	g	f	r	g	f	r				
1	3:50	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
2	3:15	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
3	2:50	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
4	3:15	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
5																C	
6	3:40	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
7	2:55	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
8	3:15	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
9	3:10	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
10	2:20	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
11	2:20	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
12																M	
13	2:25	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
14																C	
15																C	
16	2:50	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
17	2:10	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
18																C	
19	1:20	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
20																C	
21	2:15	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
22																C	
23	3:20	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
24	2:10	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
25																C-R	
26																C-R	
27	2:10	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
28	3:00	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
29	1:50	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
Sum				0			0			0			0				
Mean				0.0			0.0			0.0			0.0				

MONTHLY REPORT OF SUNSPOT OBSERVATION

March-2020

Observer-K.. Fujimori Suwa City, Nagano

Date	Time (UT)	N			S			Total			10g+f			Cent			Seeing 5-1	Remarks
		g	f	r	g	f	r	g	f	r	g	f	r	g	f	r		
1	2:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
2	5:40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
3	2:10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
4																		C
5	2:20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
6	1:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
7	2:40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
8																		R
9	1:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
10																		R
11	2:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
12	2:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
13	2:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
14																		S
15	2:55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
16	2:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
17	3:05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
18	2:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
19	2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
20	4:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
21	2:40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
22	1:40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
23	0:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
24	6:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
25	3:20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
26																		M
27	5:10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
28	4:10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
29																		S
30																		C
31																		C
Sum		0			0			0			0			0				
Mean		0.0			0.0			0.0			0.0			0.0				

MONTHLY REPORT OF SUNSPOT OBSERVATION

Apr-2020

Observer-K.. Fujimori Suwa City, Nagano

Date	Time (UT)	N			S			Total			10g+f			Cent			Seeing 5-1	Remarks
		g	f	r	g	f	r	g	f	r	g	f	r	g	f	r		
1																		C
2	04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
3	04:10	1	2	12	0	0	0	1	2	12	0	0	0	0	0	0	2	
4	01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
5	02:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
6	03:40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
7	02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
8	02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
9	02:10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
10	01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
11	02:10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
12	00:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
13																		R
14	01:40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
15	03:20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
16	01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
17																		C
18																		R
19	01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
20																		R
21																		C
22	02:35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
23	01:05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
24																		M
25	02:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
26	01:40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
27	01:40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
28	01:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
29	01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
30	01:55	1	5	15	0	0	0	1	5	15	1	5	15	1	5	15	3	
Sum				27			0			27			15					
Mean				1.2			0.0			1.2			0.7					

MONTHLY REPORT OF SUNSPOT OBSERVATION

May-2020

Observer-K. Fujimori Suwa City, Nagano

Date	Time (UT)	N			S			Total			10g+f			Cent			Seeing 5-1	Remarks
		g	f	r	g	f	r	g	f	r	g	f	r	g	f	r		
1	1:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
2	02:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
3																		C
4	04:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
5	01:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
6																		C-R
7	06:05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
8	02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
9																		C
10																		R
11	02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
12	01:20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
13	01:55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
14	01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
15																		C
16																		R
17																		C
18	02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
19																		M
20	01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
21																		C
22	01:25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
23	02:20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
24	02:25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
25																		M
26																		C
27	01:05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
28	01:10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
29	01:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
30	01:35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
31																		C-R
Sum				0			0			0			0			0		
Mean				0.0			0.0			0.0			0.0			0.0		

MONTHLY REPORT OF SUNSPOT OBSERVATION

Jun-2020

Observer-K. Fujimori Suwa City, Nagano

Date	Time (UT)	N			S			Total		10g+f	Cent			Seeing 5-1	Remarks
		g	f	r	g	f	r	g	f	r	g	f	r		
1															C
2	03:30	0	0	0	0	0	0	0	0	0	0	0	0	2	
3	00:40	0	0	0	0	0	0	0	0	0	0	0	0	2	
4	01:25	0	0	0	0	0	0	0	0	0	0	0	0	2	
5	07:16	0	0	0	0	0	0	0	0	0	0	0	0	3	
6	04:15	0	0	0	1	10	20	1	10	20	0	0	0	2	
7	03:00	0	0	0	1	2	12	1	2	12	0	0	0	2	
8	04:15	0	0	0	1	10	20	1	10	20	1	10	20	3	
9	01:10	0	0	0	1	2	12	1	2	12	1	2	12	2	
10	01:30	0	0	0	1	2	12	1	2	12	0	0	0	2	
11	01:25	0	0	0	1	2	12	1	2	12	1	2	12	2	
12															C
13															R
14															R-C
15	00:25	0	0	0	0	0	0	0	0	0	0	0	0	3	
16	02:40	0	0	0	0	0	0	0	0	0	0	0	0	3	
17	04:30	0	0	0	0	0	0	0	0	0	0	0	0	3	
18															C
19															R
20	02:07	0	0	0	0	0	0	0	0	0	0	0	0	3	
21	01:35	0	0	0	0	0	0	0	0	0	0	0	0	3	
22															C
23	06:00	0	0	0	0	0	0	0	0	0	0	0	0	3	
24															M
25	03:25	0	0	0	0	0	0	0	0	0	0	0	0	3	
26															C
27	04:10	0	0	0	0	0	0	0	0	0	0	0	0	2	
28	03:10	0	0	0	0	0	0	0	0	0	0	0	0	2	
29															C
30															R
Sum				0			88			88			44		
Mean				0.0			4.6			4.6			2.3		

MONTHLY REPORT OF SUNSPOT OBSERVATION

July 2020

Observer-K.. Fujimori Suwa City, Nagano

Date	Time (UT)	N			S			Total		10g+f	Cent			Seeing 5-1	Remarks
		g	f	r	g	f	r	g	f	r	g	f	r		
1															R
2															M
3															C
4															R
5															C
6															C
7															C
8															R
9															R
10															R
11															R
12	02:00	0	0	0	0	0	0	0	0	0	0	0	0	2	
13	02:50	0	0	0	0	0	0	0	0	0	0	0	0	2	
14															C
15															R
16	02:50	0	0	0	0	0	0	0	0	0	0	0	0	2	
17															R
18	05:40	0	0	0	0	0	0	0	0	0	0	0	0	3	
19	05:40	0	0	0	0	0	0	0	0	0	0	0	0	3	
20															M
21	02:50	0	0	0	0	0	0	0	0	0	0	0	0	2	
22	01:20	0	0	0	0	0	0	0	0	0	0	0	0	3	
23															R
24															C
25															R
26															R
27															R
28															R
29															C
30	02:15	0	0	0	1	2	12	1	2	12	0	0	0	3	
31	02:20	0	0	0	1	2	12	1	2	12	0	0	0	3	
Sum				0			24			24				0	
Mean				0.0			2.7			2.7				0.0	

MONTHLY REPORT OF SUNSPOT OBSERVATION

Aug-2020

Observer-K.. Fujimori Suwa City, Nagano

Date	Time (UT)	N			S			Total			10g+f			Cent			Seeing 5-1	Remarks
		g	f	r	g	f	r	g	f	r	g	f	r	g	f	r		
1	2:15	0	0	0	1	2	12	1	2	12	0	0	0	0	0	0	3	
2	04:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
3	02:20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
4	01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
5	01:55	0	0	0	1	2	12	1	2	12	0	0	0	0	0	0	2	
6	02:35	0	0	0	1	2	12	1	2	12	0	0	0	0	0	0	2	
7																		C
8	03:50	1	2	12	0	0	0	1	2	12	1	2	12	1	2	12	2	
9																		C
10	01:30	1	4	14	0	0	0	1	4	14	1	4	14	1	4	14	3	
11	02:10	1	2	12	0	0	0	1	2	12	1	2	12	1	2	12	3	
12	03:55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
13																		C
14																		C
15	02:20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
16																		C
17	03:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
18	03:20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
19	03:20	1	4	14	0	0	0	1	4	14	1	4	14	1	4	14	3	
20	03:25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
21	03:10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
22	03:10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
23	02:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
24	02:20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
25																		M
26	02:10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
27	03:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
28	01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
29	01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
30	01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
31	01:40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
Sum				52			36			88			52					
Mean				2.1			1.4			3.5			2.1					

MONTHLY REPORT OF SUNSPOT OBSERVATION

Sep-2020

Observer-K.. Fujimori Suwa City, Nagano

Date	Time (UT)	N			S			Total		10g+f	Cent			Seeing	Remarks
		g	f	r	g	f	r	g	f	r	g	f	r	5-1	
1	1:40	0	0	0	0	0	0	0	0	0	0	0	0	2	
2	02:45	0	0	0	0	0	0	0	0	0	0	0	0	3	
3															C
4	01:00	0	0	0	0	0	0	0	0	0	0	0	0	3	
5	01:15	0	0	0	0	0	0	0	0	0	0	0	0	3	
6	03:45	0	0	0	0	0	0	0	0	0	0	0	0	3	
7															C
8	03:20	0	0	0	0	0	0	0	0	0	0	0	0	3	
9	02:05	0	0	0	0	0	0	0	0	0	0	0	0	3	
10															C
11	03:05	0	0	0	0	0	0	0	0	0	0	0	0	3	
12	03:10	0	0	0	0	0	0	0	0	0	0	0	0	2	
13	02:50	0	0	0	0	0	0	0	0	0	0	0	0	2	
14	02:50	0	0	0	0	0	0	0	0	0	0	0	0	2	
15	02:20	0	0	0	0	0	0	0	0	0	0	0	0	3	
16	04:05	0	0	0	0	0	0	0	0	0	0	0	0	3	
17	04:00	0	0	0	0	0	0	0	0	0	0	0	0	2	
18															C
19	02:30	0	0	0	0	0	0	0	0	0	0	0	0	2	
20	04:40	0	0	0	0	0	0	0	0	0	0	0	0	2	
21	03:15	0	0	0	0	0	0	0	0	0	0	0	0	3	
22	02:05	0	0	0	0	0	0	0	0	0	0	0	0	2	
23															C
24															C
25															C
26															C
27	02:20	0	0	0	0	0	0	0	0	0	0	0	0	2	
28															M
29															C
30	02:20	0	0	0	0	0	0	0	0	0	0	0	0	2	
Sum		0			0					0			0		
Mean		0.0			0.0					0.0			0.0		

MONTHLY REPORT OF SUNSPOT OBSERVATION

Oct-2020

Observer-K. Fujimori Suwa City, Nagano

Date	Time (UT)	N			S			Total			10g+f			Cent			Seeing 5-1	Remarks
		g	f	r	g	f	r	g	f	r	g	f	r	g	f	r		
1	2:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
2	02:25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
3																		C
4																		C
5	04:05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
6	02:20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
7																		C
8																		C
9																		C
10																		R
11																		R
12																		M
13	02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
14	02:05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
15	03:35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
16	03:10	0	0	0	1	2	12	1	2	12	0	0	0	0	0	0	2	
17																		C
18																		C
19																		C
20	02:25	0	0	0	1	2	12	1	2	12	1	2	12	1	2	12	3	
21	02:25	0	0	0	1	2	12	1	2	12	1	2	12	1	2	12	3	
22																		M
23																		M
24	02:30	0	0	0	1	2	12	1	2	12	0	0	0	0	0	0	3	
25	01:59	0	0	0	1	2	12	1	2	12	0	0	0	0	0	0	3	
26	03:10	0	0	0	1	14	24	1	14	24	1	14	24	1	14	24	3	
27	02:50	0	0	0	1	11	21	1	11	21	1	11	21	1	11	21	2	
28	03:40	1	3	13	6	71	131	7	74	144	0	0	0	0	0	0	2	
29	03:20	0	0	0	2	33	53	2	33	53	0	0	0	0	0	0	3	
30	02:50	0	0	0	1	22	32	1	22	32	0	0	0	0	0	0	3	
31	04:15	0	0	0	1	3	13	1	3	13	0	0	0	0	0	0	3	
Sum					13		334			347						69		
Mean					0.7		18.6			19.3						3.8		

MONTHLY REPORT OF SUNSPOT OBSERVATION

Nov-2020

Observer-K.. Fujimori Suwa City, Nagano

Date	Time (UT)	N			S			Total		10g+f	Cent			Seeing	Remarks
		g	f	r	g	f	r	g	f	r	g	f	r	5-1	
1															
2															M
3	02:45	0	0	0	1	2	12	1	2	12	1	2	12	3	M
4															M
5															M
6															M
7															M
8															M
9															M
10															M
11	02:20	0	0	0	1	2	12	1	2	12	1	2	12	3	M
12															M
13															M
14															M
15															M
16	03:10	0	0	0	0	0	0	0	0	0	0	0	0	3	
17	01:40	0	0	0	0	0	0	0	0	0	0	0	0	3	
18	02:30	0	0	0	1	2	12	1	2	12	0	0	0	2	
19	02:11	0	0	0	1	2	12	1	2	12	0	0	0	3	
20															
21															M
22															R
23	02:30	0	0	0	2	4	24	2	4	24	2	4	24	3	M
24															
25	02:10	0	0	0	2	33	53	2	33	53	2	33	53	3	M
26															
27	04:04	0	0	0	5	120	170	5	120	170	3	10	40	3	M
28	03:25	0	0	0	10	120	220	10	120	220	3	10	40	3	
29															
30															M
Sum				0			515			515			181		M
Mean				0.0			51.5			51.5			18.1		

MONTHLY REPORT OF SUNSPOT OBSERVATION

Dec-2020

Observer-K.. Fujimori Suwa City, Nagano

Date	Time (UT)	N			S			Total		10g+f			Cent			Seeing 5-1	Remarks
		g	f	r	g	f	r	g	f	r	g	f	r				
1	2:55	1	30	40	5	25	75	6	55	115	6	40	100	3			
2															M		
3															M		
4															M		
5															C		
6															M		
7															M		
8															M		
9															M		
10															M		
11															C		
12	02:20	0	0	0	0	0	0	0	0	0	0	0	0	2			
13	02:10	0	0	0	0	0	0	0	0	0	0	0	0	3			
14															M		
15	01:50	0	0	0	0	0	0	0	0	0	0	0	0	3			
16	05:20	0	0	0	0	0	0	0	0	0	0	0	0	3			
17	03:20	0	0	0	0	0	0	0	0	0	0	0	0	3			
18	03:10	0	0	0	0	0	0	0	0	0	0	0	0	3			
19															M		
20	01:20	0	0	0	0	0	0	0	0	0	0	0	0	3			
21	01:10	0	0	0	0	0	0	0	0	0	0	0	0	3			
22	02:20	0	0	0	1	2	12	1	2	12	0	0	0	3			
23	02:20	0	0	0	1	30	40	1	30	40	0	0	0	3			
24															C		
25	02:40	5	60	110	5	60	110	10	120	220	0	0	0	3			
26															M		
27															M		
28															M		
29															M		
30															M		
31	03:10	0	0	0	0	0	0	0	0	0	0	0	0	3			
Sum				150			237			387			100				
Mean				11.5			18.2			29.8			7.7				

13

8cm Refractor X67 Projection 15cm

体調不良により観測不确实