

MONTHLY REPORT OF SUNSPOT OBSERVATION

January-2017

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	2:50	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
2	2:40	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
3	3:05	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
4	2:40	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
5	3:25	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
6	2:15	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
7	4:15	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
8																S		
9	2:55	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
10	2:40	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
11	5:45	0	0	0	0	0	0	0	0	0	0	0	0	0	3			
12	3:30	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
13	2:40	1	2	12	0	0	0	1	2	12	0	0	0	0	2			
14																C		
15																S		
16	2:35	2	7	27	0	0	0	2	7	27	1	2	12	3				
17	3:20	2	7	27	0	0	0	2	7	27	2	7	27	3				
18	2:20	2	8	28	0	0	0	2	8	28	2	8	28	3				
19	3:35	2	8	28	0	0	0	2	8	28	2	8	28	4				
20																M		
21	3:40	4	21	61	0	0	0	4	21	61	2	15	35	3				
22	2:35	3	23	53	0	0	0	3	23	53	1	10	20	2				
23	2:40	3	23	53	0	0	0	3	23	53	2	23	43	2				
24	2:20	2	12	32	0	0	0	2	12	32	2	12	32	2				
25	1:20	2	10	30	0	0	0	2	10	30	1	5	15	2				
26	2:05	2	13	33	0	0	0	2	13	33	1	6	16	3				
27	4:05	2	6	26	0	0	0	2	6	26	0	0	0	2				
28	2:05	2	6	26	0	0	0	2	6	26	1	4	14	3				
29	2:10	2	6	26	0	0	0	2	6	26	1	4	14	3				
30	4:45	1	2	12	0	0	0	1	2	12	1	2	12	2				
31	3:40	1	2	12	1	5	15	2	7	27	1	5	15	3				
Sum				486			15			501			311					
Mean				18.0			0.6			18.6			11.5					

Days

27

8cm Refractor X67 Projeciton 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

February-2017

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	2:40	2	7	27	0	0	0	2	7	27	1	5	15	2				
2	2:40	3	12	42	0	0	0	3	12	42	1	8	18	2				
3	2:20	1	4	14	0	0	0	1	4	14	0	0	0	3				
4	4:30	0	0	0	0	0	0	0	0	0	0	0	0	3				
5															S			
6	4:50	0	0	0	0	0	0	0	0	0	0	0	0	3				
7	2:20	0	0	0	0	0	0	0	0	0	0	0	0	2				
8	3:20	0	0	0	0	0	0	0	0	0	0	0	0	3				
9															S			
10	5:40	1	9	19	0	0	0	1	9	19	1	9	19	3				
11	2:00	1	8	18	0	0	0	1	8	18	1	8	18	5				
12	2:20	1	7	17	0	0	0	1	7	17	1	7	17	3				
13	3:05	1	5	15	0	0	0	1	5	15	0	0	0	3				
14	2:30	1	2	12	0	0	0	1	2	12	0	0	0	3				
15	2:45	1	2	12	0	0	0	1	2	12	0	0	0	3				
16	3:05	0	0	0	0	0	0	0	0	0	0	0	0	3				
17															R			
18	5:35	0	0	0	0	0	0	0	0	0	0	0	0	3				
19	2:30	0	0	0	0	0	0	0	0	0	0	0	0	3				
20															C			
21	2:25	1	4	14	0	0	0	1	4	14	0	0	0	3				
22	4:25	1	5	15	0	0	0	1	5	15	0	0	0	2				
23	4:50	1	3	13	0	0	0	1	3	13	0	0	0	3				
24	3:00	1	2	12	0	0	0	1	2	12	0	0	0	3				
25	2:00	1	2	12	1	3	13	2	5	25	1	2	12	3				
26	2:40	1	2	12	1	2	12	2	4	24	1	2	12	3				
27	4:10	2	8	28	0	0	0	2	8	28	2	8	28	3				
28	2:50	3	17	47	0	0	0	3	17	47	1	5	15	3				
Sum				329			25			354			154					
Mean				13.7			1.0			14.8			6.4					

Days

24

8cm Refractor X67 Projecton 15cm

MONTHLY REPORT OF SUNSPOT OBSERVAITON

March-2017

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	2:40	2	16	36	0	0	0	2	16	36	1	14	24	2				
2															C			
3	3:20	2	4	24	0	0	0	2	4	24	1	2	12	3				
4	3:10	0	0	0	0	0	0	0	0	0	0	0	0	3				
5	3:20	0	0	0	0	0	0	0	0	0	0	0	0	2				
6															C			
7	3:40	0	0	0	0	0	0	0	0	0	0	0	0	3				
8	3:00	0	0	0	0	0	0	0	0	0	0	0	0	3				
9	3:55	0	0	0	0	0	0	0	0	0	0	0	0	2				
10	4:10	0	0	0	0	0	0	0	0	0	0	0	0	3				
11															C			
12	3:05	0	0	0	0	0	0	0	0	0	0	0	0	3				
13															C			
14	2:50	0	0	0	0	0	0	0	0	0	0	0	0	3				
15	3:40	0	0	0	0	0	0	0	0	0	0	0	0	2				
16															M			
17															M			
18															M			
19	1:44	0	0	0	0	0	0	0	0	0	0	0	0	4				
20	1:00	0	0	0	0	0	0	0	0	0	0	0	0	3				
21															C			
22	2:40	1	2	12	0	0	0	1	2	12	0	0	0	3				
23	4:10	1	2	12	0	0	0	1	2	12	0	0	0	2				
24	3:10	1	2	12	0	0	0	1	2	12	0	0	0	3				
25	1:20	1	2	12	0	0	0	1	2	12	0	0	0	3				
26															C			
27															C-S			
28															C			
29	2:10	1	7	17	1	10	20	2	17	37	1	7	17	3				
30	0:50	1	7	17	1	17	27	2	24	44	2	24	44	3				
31															R			
Sum		142			47			189			97							
Mean		7.5			2.5			9.9			5.1							

Days

19

8cm Refractor X67 Projeciton 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

April-2017

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																M	
3	2:40	2	19	39	1	25	35	3	44	74	1	25	35	3			
4	4:10	3	11	41	2	36	56	5	47	97	0	0	0	3			
5	3:20	0	0	0	2	22	42	2	22	42	1	1	11	3			
6																C-R	
7																C	
8																C-R	
9	6:50	0	0	0	0	0	0	0	0	0	0	0	0	3			
10	2:35	1	2	12	0	0	0	1	2	12	0	0	0	3			
11																R	
12	3:10	1	2	12	0	0	0	1	2	12	0	0	0	3			
13	2:50	1	2	12	0	0	0	1	2	12	1	2	12	4			
14	3:30	1	2	12	0	0	0	1	2	12	1	2	12	4			
15																C	
16	2:10	0	0	0	0	0	0	0	0	0	0	0	0	3			
17	1:10	0	0	0	0	0	0	0	0	0	0	0	0	2			
18	1:00	0	0	0	0	0	0	0	0	0	0	0	0	3			
19	2:50	1	5	15	0	0	0	1	5	15	0	0	0	3			
20	2:20	1	9	19	0	0	0	1	9	19	0	0	0	3			
21																C	
22	3:10	1	6	16	1	3	13	2	9	29	0	0	0	3			
23	2:00	1	3	13	1	3	13	2	6	26	1	3	13	3			
24	2:40	2	11	31	1	4	14	3	15	45	2	11	31	3			
25	0:40	2	7	27	1	3	13	3	10	40	2	7	27	3			
26																C	
27	4:30	1	4	14	1	2	12	2	6	26	1	2	12	2			
28	3:05	1	3	13	1	2	12	2	5	25	1	2	12	3			
29	1:40	1	2	12	1	2	12	2	4	24	1	2	12	3			
30	2:05	1	2	12	1	2	12	2	4	24	0	0	0	3			
Sum				300			234			534			177				
Mean				14.3			11.1			25.4			8.4				

Days

21

8cm Refractor X67 Projeciton 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

May-2017

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	6:30	0	0	0	1	2	12	1	2	12	0	0	0	2	
2	2:40	0	0	0	1	1	11	1	1	11	0	0	0	3	
3	4:00	1	5	15	0	0	0	1	5	15	1	5	15	2	
4	6:30	1	5	15	0	0	0	1	5	15	1	5	15	3	
5	3:40	1	3	13	0	0	0	1	3	13	0	0	0	3	
6															R
7															C
8	2:30	1	2	12	0	0	0	1	2	12	0	0	0	4	
9															C
10															C
11	2:40	0	0	0	0	0	0	0	0	0	0	0	0	2	
12															C
13															R
14	1:00	0	0	0	0	0	0	0	0	0	0	0	0	3	
15															C
16	2:35	1	1	11	0	0	0	1	1	11	0	0	0	3	
17															C
18	2:10	1	2	12	0	0	0	1	2	12	0	0	0	3	
19	2:00	1	2	12	1	4	14	2	6	26	0	0	0	3	
20	2:40	1	2	12	1	2	12	2	4	24	2	4	24	3	
21	3:20	1	2	12	1	2	12	2	4	24	2	4	24	3	
22	2:15	2	6	26	1	3	13	3	9	39	3	9	39	4	
23	2:15	2	4	24	1	4	14	3	8	38	3	8	38	3	
24															C
25															R
26															C
27	1:40	1	18	28	0	0	0	1	18	28	0	0	0	4	
28	2:40	1	11	21	0	0	0	1	11	21	0	0	0	4	
29	2:45	1	5	15	0	0	0	1	5	15	0	0	0	4	
30	2:10	0	0	0	0	0	0	0	0	0	0	0	0	3	
31	3:10	0	0	0	0	0	0	0	0	0	0	0	0	2	
Sum		228			88			316		155					
Mean		11.4			4.4			15.8		7.8					

Days

20

8cm Refractor X67 Projeciton 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

June-2017

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	2:00	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
2	4:40	1	6	16	0	0	0	1	6	16	0	0	0	0	3		
3	2:20	1	10	20	0	0	0	1	10	20	0	0	0	0	2		
4	1:30	1	14	24	0	0	0	1	14	24	0	0	0	0	4		
5	2:25	1	11	21	0	0	0	1	11	21	1	11	21	3			
6	4:20	1	9	19	0	0	0	1	9	19	1	9	19	3			
7																C	
8																R-C	
9	1:30	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
10																M	
11	5:25	0	0	0	0	0	0	0	0	0	0	0	0	0	4		
12	2:30	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
13	2:35	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
14	2:40	1	2	12	0	0	0	1	2	12	0	0	0	0	3		
15	3:15	2	8	28	0	0	0	2	8	28	1	6	16	3			
16	3:15	2	9	29	0	0	0	2	9	29	1	7	17	3			
17	2:05	2	7	27	0	0	0	2	7	27	2	7	27	3			
18																C	
19	2:20	2	8	28	0	0	0	2	8	28	1	3	13	3			
20	1:50	2	5	25	0	0	0	2	5	25	1	3	13	3			
21																R	
22	2:30	2	4	24	0	0	0	2	4	24	0	0	0	0	3		
23																M	
24	4:10	1	2	12	0	0	0	1	2	12	0	0	0	0	2		
25																R-C	
26	2:30	1	9	19	0	0	0	1	9	19	1	9	19	4			
27	5:10	1	11	21	0	0	0	1	11	21	1	11	21	3			
28	5:40	1	5	15	0	0	0	1	5	15	1	5	15	3			
29	3:30	1	3	13	0	0	0	1	3	13	0	0	0	0	3		
30																R-C	
Sum				353			0			353			181				
Mean				16.0			0.0			16.0			8.2				

Days

22

8cm Refractor X67 Projeciton 15cm

MONTHLY REPORT OF SUNSPOT OBSERVAITON

July-2017

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-C	
2	4:35	1	2	12	0	0	0	1	2	12	0	0	0	3			
3																C	
4																R	
5	2:50	0	0	0	0	0	0	0	0	0	0	0	0	3			
6	2:05	0	0	0	1	2	12	1	2	12	0	0	0	4			
7	3:10	0	0	0	1	5	15	1	5	15	0	0	0	3			
8	2:50	0	0	0	1	18	28	1	18	28	0	0	0	3			
9	5:00	0	0	0	1	25	35	1	25	35	0	0	0	3			
10	2:20	0	0	0	1	34	44	1	34	44	1	34	44	3			
11	2:30	0	0	0	1	27	37	1	27	37	1	27	37	3			
12	2:30	0	0	0	1	28	38	1	28	38	1	28	38	3			
13	2:20	1	14	24	1	18	28	2	32	52	2	32	52	3			
14	5:20	1	7	17	1	20	30	2	27	47	2	27	47	3			
15	2:20	0	0	0	1	15	25	1	15	25	0	0	0	3			
16																C	
17	3:40	0	0	0	1	4	14	1	4	14	0	0	0	3			
18	1:25	0	0	0	1	1	11	1	1	11	0	0	0	3			
19	2:30	0	0	0	0	0	0	0	0	0	0	0	0	3			
20	2:30	0	0	0	0	0	0	0	0	0	0	0	0	4			
21	2:20	0	0	0	0	0	0	0	0	0	0	0	0	3			
22	1:00	0	0	0	0	0	0	0	0	0	0	0	0	3			
23																R	
24	2:40	0	0	0	0	0	0	0	0	0	0	0	0	3			
25																C-R	
26	1:00	0	0	0	0	0	0	0	0	0	0	0	0	4			
27	5:50	0	0	0	0	0	0	0	0	0	0	0	0	3			
28	5:10	0	0	0	0	0	0	0	0	0	0	0	0	3			
29																C	
30	2:35	0	0	0	0	0	0	0	0	0	0	0	0	3			
31	5:10	0	0	0	0	0	0	0	0	0	0	0	0	3			
Sum				53			317			370			218				
Mean				2.2			13.2			15.4			9.1				

Days

24

8cm Refractor X67 Projeciton 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

August-2017

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	2:05	0	0	0	1	4	14	1	4	14	0	0	0	4			
3	4:55	0	0	0	1	4	14	1	4	14	0	0	0	4			
4	2:50	0	0	0	1	4	14	1	4	14	0	0	0	4			
5	1:00	0	0	0	1	4	14	1	4	14	1	4	14	2			
6	3:10	0	0	0	1	3	13	1	3	13	1	3	13	4			
7	3:10	0	0	0	1	2	12	1	2	12	1	2	12	2			
8															R-C		
9	2:20	0	0	0	1	3	13	1	3	13	1	3	13	4			
10	3:35	0	0	0	1	3	13	1	3	13	0	0	0	3			
11	1:40	0	0	0	1	2	12	1	2	12	0	0	0	3			
12	1:40	0	0	0	1	2	12	1	2	12	0	0	0	3			
13	2:50	0	0	0	1	2	12	1	2	12	0	0	0	3			
14															C		
15															R		
16															C		
17	2:25	1	30	40	0	0	0	1	30	40	0	0	0	3			
18	4:20	1	28	38	0	0	0	1	28	38	1	28	38	3			
19	3:55	1	32	42	0	0	0	1	32	42	1	32	42	3			
20	3:20	1	34	44	0	0	0	1	34	44	1	34	44	2			
21	1:50	2	28	48	0	0	0	2	28	48	1	21	31	3			
22															M		
23	3:30	2	34	54	0	0	0	2	34	54	1	18	28	3			
24	2:20	2	38	58	0	0	0	2	38	58	1	17	27	2			
25															R		
26	4:25	2	23	43	0	0	0	2	23	43	1	17	27	3			
27	3:40	2	15	35	0	0	0	2	15	35	1	13	23	4			
28	4:05	1	18	28	0	0	0	1	18	28	1	18	28	3			
29	3:05	1	2	12	1	2	12	2	4	24	0	0	0	3			
30															M		
31	2:00	2	20	40	1	2	12	3	22	52	0	0	0	2			
Sum				482			167			649			340				
Mean				21.0			7.3			28.2			14.8				

Days

23

8cm Refractor X67 Projeciton 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

September-2017

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	1:40	2	14	34	2	8	28	4	22	62	1	6	16	3	
2	3:35	1	24	34	2	7	27	3	31	61	2	26	46	3	
3	5:04	1	26	36	2	22	42	3	48	78	2	26	46	3	
4	4:30	2	29	49	2	41	61	4	70	110	2	60	80	3	
5	2:20	2	23	43	1	30	40	3	53	83	2	52	72	2	
6															R-C
7															R
8	3:50	3	27	57	1	27	37	4	54	94	3	27	57	3	
9	2:30	2	14	34	1	12	22	3	26	56	1	5	15	3	
10	1:50	3	11	41	0	0	0	3	11	41	1	2	12	3	
11															C
12															R
13	2:20	1	3	13	0	0	0	1	3	13	0	0	0	3	
14	2:20	1	3	13	0	0	0	1	3	13	1	3	13	3	
15	3:10	1	2	12	0	0	0	1	2	12	1	2	12	3	
16															C-R
17															R
18	4:30	1	2	12	0	0	0	1	2	12	1	2	12	4	
19	4:05	1	2	12	0	0	0	1	2	12	0	0	0	3	
20	3:10	1	2	12	0	0	0	1	2	12	0	0	0	3	
21	2:10	1	2	12	1	2	12	2	4	24	0	0	0	4	
22															C
23	4:15	0	0	0	1	2	12	1	2	12	0	0	0	4	
24	1:50	0	0	0	1	2	12	1	2	12	0	0	0	4	
25	2:55	0	0	0	2	5	25	2	5	25	1	3	13	4	
26	3:00	1	5	15	2	9	29	3	14	44	1	6	16	3	
27															C
28															R
29	3:50	1	5	15	2	9	29	3	14	44	2	12	32	3	
30	3:40	1	6	16	2	7	27	3	13	43	2	11	31	3	
Sum		460			403			863			473				
Mean		21.9			19.2			41.1			22.5				

Days

21

8cm Refractor X67 Projeciton 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

October-2017

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															M
2															C
3	3:50	1	4	14	1	2	12	2	6	26	1	4	14	3	
4	3:10	1	6	16	1	2	12	2	8	28	1	6	16	3	
5	2:00	1	3	13	1	2	12	2	5	25	0	0	0	2	
6															R
7	2:20	1	3	13	0	0	0	1	3	13	0	0	0	2	
8	2:40	0	0	0	0	0	0	0	0	0	0	0	0	3	
9	5:20	0	0	0	0	0	0	0	0	0	0	0	0	3	
10	2:10	0	0	0	0	0	0	0	0	0	0	0	0	3	
11	1:50	0	0	0	0	0	0	0	0	0	0	0	0	3	
12	2:30	0	0	0	0	0	0	0	0	0	0	0	0	3	
13															R
14															C
15															R
16															R
17															C
18	1:50	0	0	0	0	0	0	0	0	0	0	0	0	3	
19															R
20															R
21															R
22															R
23	2:05	0	0	0	1	2	12	1	2	12	0	0	0	3	
24	6:45	0	0	0	1	2	12	1	2	12	0	0	0	2	
25															R
26	3:05	1	3	13	1	2	12	2	5	25	1	2	12	4	
27	3:05	1	2	12	1	2	12	2	4	24	2	4	24	3	
28															R
29															R
30	2:15	1	2	12	1	2	12	2	4	24	1	2	12	3	
31	2:20	0	0	0	0	0	0	0	0	0	0	0	0	3	
Sum				93			96			189			78		
Mean				5.8			6.0			11.8			4.9		

Days

16

8cm Refractor X67 Projecton 15cm

MONTHLY REPORT OF SUNSPOT OBSERVAITON

November-2017

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															M
2	2:50	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	4	
4															C
5	3:20	0	0	0	0	0	0	0	0	0	0	0	0	3	
6	3:40	0	0	0	0	0	0	0	0	0	0	0	0	3	
7	3:40	0	0	0	0	0	0	0	0	0	0	0	0	3	
8															C
9	2:40	0	0	0	0	0	0	0	0	0	0	0	0	3	
10	2:30	0	0	0	0	0	0	0	0	0	0	0	0	3	
11	4:10	0	0	0	0	0	0	0	0	0	0	0	0	3	
12	2:10	0	0	0	0	0	0	0	0	0	0	0	0	4	
13	2:20	0	0	0	0	0	0	0	0	0	0	0	0	3	
14															C-R
15	5:30	0	0	0	1	4	14	1	4	14	0	0	0	2	
16	2:19	0	0	0	1	6	16	1	6	16	0	0	0	4	
17	0:05	0	0	0	1	4	14	1	4	14	0	0	0	4	
18															R
19	2:10	0	0	0	0	0	0	0	0	0	0	0	0	3	
20															C
21	1:55	0	0	0	0	0	0	0	0	0	0	0	0	3	
22															R
23	2:40	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	3	
25	3:05	0	0	0	0	0	0	0	0	0	0	0	0	3	
26	2:00	1	2	12	0	0	0	1	2	12	1	2	12	2	
27	4:00	1	3	13	0	0	0	1	3	13	1	3	13	3	
28	4:30	1	4	14	0	0	0	1	4	14	0	0	0	4	
29	4:25	1	2	12	0	0	0	1	2	12	0	0	0	3	
30															C
Sum				51			44			95			25		
Mean				2.3			2.0			4.3			1.1		

Days

22

8cm Refractor X67 Projeciton 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

December-2017

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	g	f	r				
1	2:05	0	0	0	0	0	0	0	0	0	0	0	0	3		
2	3:50	0	0	0	0	0	0	0	0	0	0	0	0	3		
3	2:30	0	0	0	0	0	0	0	0	0	0	0	0	4		
4															C	
5	2:10	0	0	0	0	0	0	0	0	0	0	0	0	3		
6	4:30	1	4	14	0	0	0	1	4	14	1	4	14	4		
7	3:10	1	1	11	0	0	0	1	1	11	1	1	11	3		
8															C	
9	2:20	0	0	0	0	0	0	0	0	0	0	0	0	3		
10	1:40	0	0	0	0	0	0	0	0	0	0	0	0	3		
11	5:10	0	0	0	0	0	0	0	0	0	0	0	0	4		
12	6:00	0	0	0	0	0	0	0	0	0	0	0	0	2		
13	3:00	0	0	0	0	0	0	0	0	0	0	0	0	3		
14	2:20	0	0	0	0	0	0	0	0	0	0	0	0	3		
15	3:30	0	0	0	0	0	0	0	0	0	0	0	0	3		
16	1:50	0	0	0	0	0	0	0	0	0	0	0	0	3		
17	2:20	0	0	0	0	0	0	0	0	0	0	0	0	3		
18	1:50	0	0	0	0	0	0	0	0	0	0	0	0	4		
19	3:40	0	0	0	0	0	0	0	0	0	0	0	0	3		
20	2:20	0	0	0	0	0	0	0	0	0	0	0	0	3		
21	3:20	1	8	18	0	0	0	1	8	18	0	0	0	3		
22	1:40	1	10	20	0	0	0	1	10	20	1	10	20	3		
23	2:20	1	18	28	0	0	0	1	18	28	1	18	28	3		
24	3:20	1	15	25	0	0	0	1	15	25	1	15	25	3		
25	3:15	1	9	19	0	0	0	1	9	19	1	9	19	2		
26															C	
27															C	
28	4:00	0	0	0	0	0	0	0	0	0	0	0	0	3		
29	2:20	0	0	0	0	0	0	0	0	0	0	0	0	3		
30	3:50	0	0	0	0	0	0	0	0	0	0	0	0	3		
31															C	
Sum		135			0			135		117						
Mean		5.2			0.0			5.2		4.5						

Days

26

8cm Refractor X 67 Projeciton 15cm

RELATIVE SUNSPOT NUMBER FOR 2017

Observer: Kenichi Fujimori
 Instrument - 8cm Refractor × 67 Projection 15cm
 Suwa City, Nagano Japan

Total days 239 R.S.N. Total: 4548 (N: 3112, S: 1436)

Yearly mean 19.0 (N: 13.0, S: 6.0)