

MONTHLY REPORT OF SUNSPOT OBSERVATION

JANUARY 2015 Observer - K. Fujimori Suwa City, Nagano

Date	Time	N		S		Total 10g+f			Cent.		Seeing	Remarks
		g	f	g	f	g	f	R	g	f		
1		-	-	-	-	-	-	-	-	-		C
2	2h39m	1	2	7	39	8	41	121	4	14	3 - 4	
3	2:52	0	0	6	34	6	34	94	3	28	2	
4	2:29	0	0	6	42	6	42	102	2	26	3	
5	2:27	0	0	5	38	5	38	88	1	23	4	
6		-	-	-	-	-	-	-	-	-		R-C
7	3:02	1	8	3	25	4	33	73	3	20	2	
8	5:20	2	14	3	21	5	35	85	2	15	3	
9	3:12	4	28	3	11	7	39	109	3	27	3	
10	2:57	4	31	3	9	7	40	110	3	21	3	
11	2:40	1	16	5	22	6	38	98	1	2	2	
12	2:21	2	24	5	23	7	47	117	2	5	3	
13	2:52	2	16	4	22	6	38	98	2	12	2 - 3	
14		-	-	-	-	-	-	-	-	-		M
15		-	-	-	-	-	-	-	-	-		S
16	4:50	1	5	2	11	3	16	46	2	11	3	
17		-	-	-	-	-	-	-	-	-		C
18	2:19	0	0	3	12	3	12	42	2	8	2 - 3	
19		-	-	-	-	-	-	-	-	-		C
20	2:35	1	2	3	12	4	14	54	2	10	2 - 3	
21	4:22	1	2	2	11	3	13	43	2	11	2 - 3	
22		-	-	-	-	-	-	-	-	-		S-R
23	4:12	1	2	2	13	3	15	45	1	2	4	
24	4:05	1	2	2	12	3	14	44	1	2	3	
25		-	-	-	-	-	-	-	-	-		C
26	2:42	2	15	3	14	5	29	79	5	21	2 - 3	
27		-	-	-	-	-	-	-	-	-		M
28	5:02	2	18	3	38	5	56	106	4	54	2	
29	2:09	3	26	5	40	8	66	146	3	28	3	
30		-	-	-	-	-	-	-	-	-		S
31	2:54	3	36	4	26	7	62	132	3	14	2 - 3	
Sum		567		1265		1832			864			
Mean		27.0		60.2		87.2			41.1			

Days 21

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

FEBRUARY 2015 Observer - K. Fujimori Suwa City, Nagano

Date	Time	N		S		Total 10g+f			Cent.		Seeing	Remarks
		g	f	g	f	g	f	R	g	f		
1	2h21m	3	24	1	9	4	33	73	2	14	2	
2	2:35	1	19	1	6	2	25	45	1	13	2 - 3	
3	2:34	1	17	3	10	4	27	67	1	17	3	
4	2:10	2	32	2	8	4	40	80	1	30	3	
5	5:20	2	24	1	11	3	35	65	2	28	3	
6	2:16	2	17	1	12	3	29	59	2	20	3	
7	2:55	2	11	1	17	3	28	58	1	17	2	
8		-	-	-	-	-	-	-	-	-	-	S-C
9	3:02	3	10	1	15	4	25	65	2	20	2 - 3	
10	4:47	4	18	1	10	5	28	78	1	11	2 - 3	
11	2:39	3	9	1	7	4	16	56	1	3	2 - 3	
12	2:26	2	5	1	4	3	9	39	1	1	4	
13	2:20	2	5	1	2	3	7	37	2	5	3 - 4	
14	2:50	3	9	0	0	3	9	39	2	7	3 - 4	
15	2:20	2	7	0	0	2	7	27	2	7	2 - 3	
16	5:41	2	6	1	1	3	7	37	2	3	3	
17		-	-	-	-	-	-	-	-	-	-	C
18		-	-	-	-	-	-	-	-	-	-	C
19	3:13	3	9	3	7	6	16	76	1	3	3	
20	3:05	1	6	2	6	3	12	42	1	6	2	
21	3:39	2	4	1	4	3	8	38	1	3	3	
22		-	-	-	-	-	-	-	-	-	-	C
23		-	-	-	-	-	-	-	-	-	-	C
24		-	-	-	-	-	-	-	-	-	-	C
25	3:23	1	5	0	0	1	5	15	1	5	4	
26		-	-	-	-	-	-	-	-	-	-	C-R
27	2:36	2	7	1	7	3	14	44	1	7	2 - 3	
28	2:35	2	17	1	14	3	31	61	2	21	2 - 3	
Sum		711		390		1101			541			
Mean		33.9		18.6		52.4			25.8			

Days 21

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

MARCH 2015 Observer - K.Fujimori Suwa City, Nagano

Date	Time	N		S		Total 10g+f			Cent.		Seeing	Remarks
		g	f	g	f	g	f	R	g	f		
1		-	-	-	-	-	-	-	-	-		C-R
2	2h31m	1	8	1	8	2	16	36	2	12	3	
3		-	-	-	-	-	-	-	-	-		C
4	2:21	1	4	1	10	2	14	34	1	1	2 - 3	
5	2:34	1	5	1	2	2	7	27	0	0	3 - 4	
6	2:14	1	3	1	2	2	5	25	1	2	3 - 4	
7		-	-	-	-	-	-	-	-	-		C
8		-	-	-	-	-	-	-	-	-		R-C
9		-	-	-	-	-	-	-	-	-		C
10		-	-	-	-	-	-	-	-	-		C
11	4:45	0	0	1	14	1	14	24	1	14	2 - 3	
12	2:52	0	0	2	21	2	21	41	1	19	2	
13	2:30	0	0	2	23	2	23	43	1	22	2	
14	6:23	0	0	1	20	1	20	30	1	20	4	
15	3:06	0	0	2	22	2	22	42	2	20	3	
16	4:30	1	1	2	13	3	14	44	1	1	3	
17	2:32	1	2	1	9	2	11	31	0	0	3	
18	2:30	2	8	1	4	3	12	42	0	0	2 - 3	
19		-	-	-	-	-	-	-	-	-		R
20	2:20	1	2	0	0	1	2	12	0	0	2	
21	2:30	1	2	1	2	2	4	24	0	0	2 - 3	
22	2:35	1	3	3	10	4	13	53	1	3	2 - 3	
23	5:23	3	10	2	16	5	26	76	3	11	3	
24	5:40	5	11	1	16	6	27	87	1	2	2 - 3	
25	3:02	5	12	2	15	7	27	97	2	8	3	
26	2:39	4	8	2	16	6	24	84	3	17	3	
27	3:19	5	9	2	20	7	29	99	4	24	4	
28	2:50	3	6	1	13	4	19	59	1	13	2 - 3	
29		-	-	-	-	-	-	-	-	-		C
30	2:23	2	4	2	17	4	21	61	3	9	3	
31	3:22	0	0	2	9	2	9	29	0	0	3	
Sum		478		622		1100			488			
Mean		20.8		27.0		47.8			21.2			

Days 23

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

APRIL 2015 Observer - K. Fujimori Suwa City, Nagabo

Date	Time U. T.	N		S		Total 10g+f			Cent.		Seeing 5 - 1	Remarks
		g	f	g	f	g	f	R	g	f		
1		-	-	-	-	-	-	-	-	-	-	C
2	2h48m	1	6	1	2	2	8	28	0	0	3	
3		-	-	-	-	-	-	-	-	-	-	R
4	2:59	2	6	1	5	3	11	41	1	5	2	
5		-	-	-	-	-	-	-	-	-	-	R
6		-	-	-	-	-	-	-	-	-	-	C-R
7		-	-	-	-	-	-	-	-	-	-	R
8		-	-	-	-	-	-	-	-	-	-	S-C
9	3:24	1	2	1	14	2	16	36	2	16	3	
10		-	-	-	-	-	-	-	-	-	-	C
11		-	-	-	-	-	-	-	-	-	-	C
12	3:30	4	14	2	10	6	24	84	0	0	2	
13		-	-	-	-	-	-	-	-	-	-	R-C
14		-	-	-	-	-	-	-	-	-	-	R-C
15		-	-	-	-	-	-	-	-	-	-	R
16	4:00	5	37	0	0	5	37	87	3	23	3	
17	3:52	5	37	1	2	6	39	99	3	24	3	
18	3:21	6	37	1	2	7	39	109	5	28	3	
19		-	-	-	-	-	-	-	-	-	-	C-R
20		-	-	-	-	-	-	-	-	-	-	R
21	3:40	4	25	3	8	7	33	103	4	11	3	
22	2:40	3	19	2	10	5	29	79	3	14	2	
23	2:51	5	16	2	10	7	26	96	3	11	3	
24	2:50	3	8	2	12	5	20	70	2	12	3	
25	2:28	2	5	2	16	4	21	61	1	2	2 - 3	
26	2:32	2	5	3	15	5	20	70	1	2	4	
27	3:45	1	2	2	9	3	11	41	1	2	3	
28	5:01	0	0	2	5	2	5	25	0	0	2 - 3	
29	4:09	0	0	1	2	1	2	12	0	0	3	
30	2:24	0	0	1	2	1	2	12	1	2	4	
Sum		659		394		1053			452			
Mean		38.8		23.2		61.9			26.6			

Days 17

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

MAY 2015 Observer - K. Fujimori Suwa City, Nagano

Date	Time U. T.	N		S		Total 10g+f			Cent.		Seeing 5 - 1	Remarks
		g	f	g	f	g	f	R	g	f		
1	3h31m	0	0	2	6	2	6	26	1	2	4	
2	3:30	0	0	1	9	1	9	19	0	0	4	
3	4:40	0	0	1	12	1	12	22	0	0	2 - 3	
4		-	-	-	-	-	-	-	-	-	-	C
5	2:42	2	15	1	24	3	39	69	2	32	3	
6	3:50	3	23	1	24	4	47	87	3	33	2 - 3	
7		-	-	-	-	-	-	-	-	-	-	M
8	3:26	3	37	4	28	7	65	135	3	28	2 - 3	
9		-	-	-	-	-	-	-	-	-	-	C
10	2:59	2	35	4	14	6	49	109	2	37	3 - 4	
11	3:07	4	46	5	12	9	58	148	3	44	3	
12		-	-	-	-	-	-	-	-	-	-	C
13	2:50	4	37	3	8	7	45	115	4	34	2	
14	2:20	3	28	4	12	7	40	110	4	17	3	
15	4:00	2	18	4	12	6	30	90	4	15	2	
16		-	-	-	-	-	-	-	-	-	-	R-C
17	2:50	2	8	4	9	6	17	77	2	4	2 - 3	
18	5:00	1	2	5	13	6	15	75	2	5	2	
19	5:30	1	2	3	7	4	9	49	1	3	2	
20	3:52	1	3	2	3	3	6	36	1	2	2 - 3	
21	2:41	0	0	2	3	2	3	23	1	2	3	
22	2:32	2	11	1	2	3	13	43	2	11	3	
23	3:05	2	7	2	4	4	11	51	3	9	2	
24	8:30	1	9	3	13	4	22	62	1	9	2	
25	2:20	1	5	4	10	5	15	65	1	1	2 - 3	
26	2:56	1	3	3	6	4	9	49	1	3	2 - 3	
27	2:50	1	2	0	0	1	2	12	0	0	3	
28	3:50	0	0	1	2	1	2	12	0	0	3	
29		-	-	-	-	-	-	-	-	-	-	C
30	3:32	0	0	1	2	1	2	12	0	0	3	
31	2:56	0	0	1	2	1	2	12	0	0	3	
Sum		651		857		1508			701			
Mean		26.0		34.3		60.3			28.0			

Days 25

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

JUNE 2015 Observer - K. Fujimori Suwa City, Nagano

Date	Time U. T.	N		S		Total 10g+f			Cent.		Seeing 5 - 1	Remarks
		g	f	g	f	g	f	R	g	f		
1	2h30m	0	0	2	5	2	5	25	1	3	2 - 3	
2	4:55	0	0	2	10	2	10	30	1	8	2	
3		-	-	-	-	-	-	-	-	-		R-C
4	3:19	2	11	1	4	3	15	45	1	4	3	
5		-	-	-	-	-	-	-	-	-		C-R
6	2:39	4	25	2	4	6	29	89	2	5	3	
7	3:40	3	24	2	4	5	28	78	1	10	2 - 3	
8	2:55	3	26	2	5	5	31	81	3	25	2	
9		-	-	-	-	-	-	-	-	-		R-C
10	2:02	4	28	1	2	5	30	80	5	17	2 - 3	
11	2:40	4	16	1	3	5	19	69	4	13	2 - 3	
12	4:30	3	28	2	13	5	41	91	3	17	2	
13	2:35	3	17	2	7	5	24	74	2	9	1 - 2	
14		-	-	-	-	-	-	-	-	-		C
15	2:40	1	4	2	18	3	22	52	1	4	2	
16		-	-	-	-	-	-	-	-	-		C
17	2:18	2	13	2	23	4	36	76	2	22	3	
18		-	-	-	-	-	-	-	-	-		C
19		-	-	-	-	-	-	-	-	-		R
20	2:50	1	24	1	13	2	37	57	1	13	2	
21	6:10	1	18	1	10	2	28	48	1	18	2	
22	2:50	1	24	1	11	2	35	55	1	24	2 - 3	
23	1:09	1	31	0	0	1	31	41	1	31	3	
24	3:55	1	22	0	0	1	22	32	1	14	4	
25	1:56	1	15	0	0	1	15	25	0	0	2 - 3	
26		-	-	-	-	-	-	-	-	-		C-R
27		-	-	-	-	-	-	-	-	-		C
28	0:40	2	6	0	0	2	6	26	0	0	2 - 3	
29	3:14	2	6	0	0	2	6	26	0	0	4	
30	3:10	2	7	1	2	3	9	39	0	0	2	
Sum		755		384		1139			547			
Mean		36.0		18.3		54.2			26.0			

Days 21

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

JULY 2015 Observer - K. Fujimori Suwa City, Nagano

Date	Time U. T.	N		S		Total 10g+f			Cent.		Seeing 5 - 1	Remarks
		g	f	g	f	g	f	R	g	f		
1		-	-	-	-	-	-	-	-	-		R
2	6h10m	2	16	3	6	5	22	72	2	8	3	
3		-	-	-	-	-	-	-	-	-		R-C
4		-	-	-	-	-	-	-	-	-		C
5		-	-	-	-	-	-	-	-	-		C
6		-	-	-	-	-	-	-	-	-		C
7		-	-	-	-	-	-	-	-	-		R
8		-	-	-	-	-	-	-	-	-		C
9		-	-	-	-	-	-	-	-	-		R
10	2:50	2	18	4	13	6	31	91	3	18	3	
11	2:24	2	19	3	7	5	26	76	1	10	3	
12	2:53	2	12	1	4	3	16	46	1	2	2 - 3	
13	3:50	2	8	1	4	3	12	42	1	4	2	
14	2:13	2	6	1	4	3	10	40	1	4	3	
15	4:13	2	4	1	4	3	8	38	1	4	3	
16		-	-	-	-	-	-	-	-	-		R
17		-	-	-	-	-	-	-	-	-		R-C
18		-	-	-	-	-	-	-	-	-		R-C
19		-	-	-	-	-	-	-	-	-		M
20	3:31	2	11	0	0	2	11	31	2	11	3	
21	1:57	2	13	0	0	2	13	33	1	10	3	
22		-	-	-	-	-	-	-	-	-		M
23		-	-	-	-	-	-	-	-	-		R
24	4:10	1	1	0	0	1	1	11	0	0	3	
25	5:22	0	0	2	11	2	11	31	1	4	4	
26	2:30	0	0	2	19	2	19	39	1	12	3 - 4	
27	2:41	1	1	2	20	3	21	51	1	15	3	
28	2:58	1	2	2	24	3	26	56	2	24	2 - 3	
29	3:12	1	2	2	19	3	21	51	2	6	2 - 3	
30	3:16	3	8	1	10	4	18	58	0	0	2 - 3	
31	2:34	3	10	2	9	5	19	69	1	3	3	
Sum		411		424		835			345			
Mean		24.2		24.9		49.1			20.3			

Days 17

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

AUGUST 2015 Observer - K. Fujimori Suwa City, Nagano

Date	Time U. T.	N		S		Total 10g+f			Cent.		Seeing 5 - 1	Remarks
		g	f	g	f	g	f	R	g	f		
1	2h20m	3	6	1	3	4	9	49	1	2	2 - 3	
2	2:25	3	6	1	1	4	7	47	2	4	4	
3	3:00	3	6	0	0	3	6	36	2	4	3	
4	2:29	3	10	1	8	4	18	58	2	8	3	
5	2:06	3	8	1	12	4	20	60	2	6	3	
6	2:56	3	8	1	22	4	30	70	1	4	3 - 4	
7	2:20	4	12	1	31	5	43	93	3	39	4	
8	3:20	3	6	1	27	4	33	73	2	28	3	
9	5:07	2	4	1	28	3	22	62	1	28	3	
10	3:14	2	4	1	29	3	33	63	1	21	2 - 3	
11	3:00	2	4	1	21	3	25	55	1	2	2 - 3	
12		-	-	-	-	-	-	-	-	-	-	C
13		-	-	-	-	-	-	-	-	-	-	C
14	5:01	1	6	1	5	2	11	31	1	6	3	
15	2:39	1	2	1	9	2	11	31	1	2	4	
16	3:42	1	2	1	7	2	9	29	2	9	3	
17		-	-	-	-	-	-	-	-	-	-	R
18	2:55	0	0	1	6	1	6	16	1	6	3	
19	3:10	0	0	2	11	2	11	31	1	7	2	
20	5:20	0	0	2	26	2	26	46	0	0	2 - 3	
21		-	-	-	-	-	-	-	-	-	-	C
22	5:39	1	2	1	31	2	33	53	2	21	3	
23	2:21	1	4	1	32	2	36	56	2	36	3	
24	2:38	1	2	1	36	2	38	58	2	38	3	
25		-	-	-	-	-	-	-	-	-	-	C
26		-	-	-	-	-	-	-	-	-	-	C
27	3:06	0	0	1	27	1	27	37	0	0	4	
28	3:31	0	0	1	19	1	19	29	0	0	2 - 3	
29		-	-	-	-	-	-	-	-	-	-	R-C
30		-	-	-	-	-	-	-	-	-	-	R
31		-	-	-	-	-	-	-	-	-	-	C
Sum		462		621		1083			571			
Mean		21.0		28.2		49.2			26.0			

Days 22

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

SEPTEMBER 2015 Observer - K. Fujimori Suwa City, Nagano

Date	Time U. T.	N		S		Total 10g+f			Cent.		Seeing 5 - 1	Remarks
		g	f	g	f	g	f	R	g	f		
1		-	-	-	-	-	-	-	-	-		R
2	4h15m	1	5	0	0	1	5	15	0	0	3	
3		-	-	-	-	-	-	-	-	-		R
4	2:20	2	6	1	2	3	8	38	1	4	3	
5	1:40	2	4	0	0	2	4	24	1	2	2 - 3	
6		-	-	-	-	-	-	-	-	-		C-R
7		-	-	-	-	-	-	-	-	-		C
8		-	-	-	-	-	-	-	-	-		R
9	4:11	1	2	1	4	2	6	26	2	4	2 - 3	
10	6:31	1	2	2	6	3	8	38	3	8	3	
11	2:34	1	2	2	6	3	8	33	2	7	4	
12	3:53	2	4	2	17	4	21	51	2	10	2 - 3	
13	6:00	1	1	3	15	4	16	56	0	0	3 - 4	
14	3:00	0	0	3	12	3	12	42	0	0	3	
15	3:46	1	2	3	19	4	21	51	0	0	4 - 5	
16		-	-	-	-	-	-	-	-	-		C
17		-	-	-	-	-	-	-	-	-		R-C
18		-	-	-	-	-	-	-	-	-		C
19	4:02	1	8	2	16	3	24	54	2	10	3	
20	2:30	1	3	2	11	3	14	44	2	5	3	
21		-	-	-	-	-	-	-	-	-		M
22	2:21	2	15	2	10	4	25	65	0	0	3	
23	2:45	2	19	3	12	5	31	81	2	3	3	
24		-	-	-	-	-	-	-	-	-		C-R
25		-	-	-	-	-	-	-	-	-		R
26	4:26	3	26	2	21	5	47	97	5	46	2 - 3	
27	3:55	4	19	3	31	7	50	120	3	37	2 - 3	
28	2:20	3	16	2	42	5	58	108	2	15	2 - 3	
29	2:30	2	18	2	28	4	46	86	1	3	2 - 3	
30	3:31	2	19	1	25	3	44	74	1	12	3	
Sum		491		637		1128			456			
Mean		25.8		33.5		59.4			24.0			

Days 19

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

OCTOSER 2015 Observer - K. Fujimori Suwa City, Nagano

Date	Time U. T.	N		S		Total 10g+f			Cent.		Seeing 5 - 1	Remarks
		g	f	g	f	g	f	R	g	f		
1		-	-	-	-	-	-	-	-	-		C-R
2	3h26m	1	10	1	16	2	26	46	1	10	3	
3	3:51	1	8	1	3	2	11	31	1	8	2 - 3	
4	3:20	1	8	0	0	1	8	18	1	3	2 - 3	
5	2:21	1	6	0	0	1	6	16	0	0	2 - 3	
6	3:21	1	3	0	0	1	3	13	0	0	3	
7	3:04	1	2	1	2	2	4	24	0	0	4	
8	3:00	0	0	0	0	0	0	0	0	0	3	
9	3:20	0	0	1	2	1	2	12	0	0	4	
10		-	-	-	-	-	-	-	-	-		C
11		-	-	-	-	-	-	-	-	-		R
12	4:28	1	3	2	4	3	7	37	0	0	3	
13	3:21	1	6	2	9	3	15	45	0	0	3	
14	3:46	0	0	3	12	3	12	42	1	4	3	
15	4:23	0	0	3	13	3	13	43	2	7	3	
16	2:40	0	0	3	14	3	14	44	2	5	3	
17	2:10	1	2	2	10	3	12	42	1	2	2	
18	1:47	1	5	3	12	4	17	57	2	10	3	
19	2:44	1	7	4	13	5	20	70	1	7	2 - 3	
20	3:28	1	12	3	10	4	22	62	1	6	3	
21	2:04	1	17	3	9	4	26	66	3	15	3 - 4	
22		-	-	-	-	-	-	-	-	-		M
23	2:38	2	19	3	6	5	25	75	3	21	3	
24	3:54	2	11	3	6	5	17	67	3	13	3	
25	4:51	2	15	2	3	4	18	58	2	15	2	
26	4:06	2	14	1	1	3	15	45	1	3	3	
27	4:50	3	13	0	0	3	13	43	2	8	2	
28	4:09	4	16	1	1	5	17	67	2	10	4	
29	3:11	5	21	1	2	6	23	83	1	5	4	
30		-	-	-	-	-	-	-	-	-		M
31	2:12	3	22	0	0	3	22	52	2	4	2	
Sum		580		578		1158			476			
Mean		22.3		22.2		44.5			18.3			

Days 26

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

NOVEMBER 2015 Observer - K. Fujimori Suwa City, Nagano

Date	Time	N		S		Total 10g+f			Cent.		Seeing	Remarks
		g	f	g	f	g	f	R	g	f		
1	4h16m	3	34	0	0	3	34	64	2	4	2 - 3	
2		-	-	-	-	-	-	-	-	-		R-C
3	2:31	2	39	0	0	2	39	59	1	32	3	
4	2:45	3	40	0	0	3	40	70	2	24	3	
5	3:22	4	33	0	0	4	33	73	2	27	3	
6	3:09	2	23	0	0	2	23	43	1	18	3	
7	2:50	2	12	1	4	3	16	46	0	0	2 - 3	
8		-	-	-	-	-	-	-	-	-		R
9		-	-	-	-	-	-	-	-	-		C-R
10		-	-	-	-	-	-	-	-	-		C
11	2:09	1	3	3	8	4	11	51	4	11	2	
12	4:30	0	0	2	5	2	5	25	1	2	2	
13	2:40	0	0	1	2	1	2	12	1	2	2	
14		-	-	-	-	-	-	-	-	-		C-R
15	5:04	2	5	1	2	3	7	37	0	0	3	
16	3:40	2	6	0	0	2	6	26	1	5	2	
17		-	-	-	-	-	-	-	-	-		R
18		-	-	-	-	-	-	-	-	-		C-R
19	5:00	1	7	0	0	1	7	17	1	7	2	
20	3:10	2	7	0	0	2	7	27	1	5	2	
21	3:20	3	19	0	0	3	19	49	2	3	3	
22		-	-	-	-	-	-	-	-	-		C
23		-	-	-	-	-	-	-	-	-		C
24	3:30	2	11	0	0	2	11	31	1	6	2	
25		-	-	-	-	-	-	-	-	-		C
26	3:40	4	16	0	0	4	16	56	3	12	2	
27	2:00	4	11	0	0	4	11	51	3	9	2 - 3	
28	2:07	3	13	0	0	3	13	43	2	10	3	
29	2:40	3	8	0	0	3	8	38	2	6	2	
30	2:31	3	11	0	0	3	11	41	2	9	3	
Sum		758		101		859			512			
Mean		37.9		5.1		43.0			25.6			

Days 20

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

DECEMBER 2015 Observer - K. Fujimori Suwa City, Nagano

Date	Time	N		S		Total 10q+f			Cent.		Seeing 5 - 1	Remarks
		g	f	g	f	g	f	R	g	f		
1	2h29m	2	7	0	0	2	7	27	1	2	2 - 3	
2	2:58	2	9	0	0	2	9	29	1	2	2	
3		-	-	-	-	-	-	-	-	-		R-C
4	2:40	1	2	1	2	2	4	24	0	0	1 - 2	
5	6:15	1	2	1	4	2	6	26	0	0	1	
6		-	-	-	-	-	-	-	-	-		C
7	2:39	1	2	3	8	4	10	50	1	2	3	
8	2:30	1	2	3	9	4	11	51	2	6	4	
9	3:40	1	1	3	11	4	12	52	3	10	3	
10		-	-	-	-	-	-	-	-	-		C
11		-	-	-	-	-	-	-	-	-		R
12	2:44	0	0	5	12	5	12	62	3	6	3	
13		-	-	-	-	-	-	-	-	-		R-C
14	3:15	2	13	1	3	3	16	46	1	3	1 - 2	
15	3:10	2	14	1	1	3	15	45	1	1	3	
16		-	-	-	-	-	-	-	-	-		C
17	2:04	2	13	1	3	3	16	46	3	10	2 - 3	
18	3:29	2	12	1	2	3	14	44	3	14	3	
19	2:36	1	8	1	2	2	10	30	1	8	2 - 3	
20	4:52	1	7	0	0	1	7	17	1	7	2 - 3	
21		-	-	-	-	-	-	-	-	-		C
22	2:10	3	12	1	7	4	19	59	0	0	3	
23		-	-	-	-	-	-	-	-	-		C
24	3:06	2	14	1	15	3	29	59	0	0	3	
25	3:41	3	16	1	22	4	38	78	1	5	3	
26	2:46	1	4	1	36	2	40	60	2	25	2 - 3	
27	5:28	1	6	1	26	2	32	52	2	32	1 - 2	
28	3:11	1	5	1	30	2	35	55	2	35	2 - 3	
29	3:25	1	2	1	21	2	23	43	2	23	2 - 3	
30	2:37	1	1	1	11	2	12	32	2	3	3	
31	3:00	0	0	1	8	1	8	18	0	0	2 - 3	
Sum			472		533			1005		514		
Mean			20.5		23.2			43.7		22.3		

Days 23

8cm Refractor X67 Projection 15cm