

MONTHLY REPORT OF SUNSPOT OBSERVATION

JANUARY 2014 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
2	2h42m	1	4	6	35	7	39	109	1	4	2	
3	2:46	2	7	7	41	9	48	138	3	10	2 - 3	
4	5:20	2	5	4	45	6	50	110	3	8	2 - 3	
5	2:30	2	11	4	54	6	65	125	3	7	3	
6	3:01	4	20	4	50	8	70	150	4	50	2 - 3	Naked eye=1c
7	2:23	2	14	2	48	4	62	102	2	58	2	Naked eye=1c
8		-	-	-	-	-	-	-	-	-		C-S
9		-	-	-	-	-	-	-	-	-		C
10	2:32	3	20	3	31	6	51	111	4	27	2	
11	2:50	3	17	3	28	6	45	105	2	5	2	
12	2:06	3	6	5	30	8	36	116	5	12	3	
13	2:07	3	5	5	28	8	33	113	5	13	2 - 3	
14		-	-	-	-	-	-	-	-	-		C
15	3:04	2	8	3	15	5	23	73	3	13	3	
16	2:45	1	3	5	14	6	17	77	1	4	3	
17	2:23	1	3	5	11	6	14	74	1	2	3	
18	5:34	2	9	6	14	8	23	103	1	2	4	
19	2:51	1	6	6	17	7	23	93	1	2	4 - 5	
20		-	-	-	-	-	-	-	-	-		C
21		-	-	-	-	-	-	-	-	-		M
22	2:22	1	14	9	29	10	43	143	4	19		
23	2:56	1	14	8	30	9	44	134	5	32	3	
24	2:40	1	15	5	14	6	29	89	3	9	2	
25		-	-	-	-	-	-	-	-	-		C
26	2:42	1	2	5	18	6	20	80	3	16	3	
27	2:40	0	0	3	14	3	14	44	2	3	2 - 3	
28	2:56	1	2	3	12	4	14	54	0	0	2 - 3	
29	3:49	1	8	4	27	5	35	85	1	2	2 - 3	
30		-	-	-	-	-	-	-	-	-		R
31	2:23	1	10	1	24	2	34	54	0	0	1 - 2	
Sum			593		1689			2282		868		
Mean			25.8		73.4			99.2		37.3		

Days 23

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

FEBRUARY 2014 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	2h20m	1	15	1	39	2	54	74	2	34	1 - 2		
2	6:10	1	16	2	41	3	57	87	2	53	1 - 2	Naked eye=1c	
3		-	-	-	-	-	-	-	-	-	-	C	
4	2:40	1	22	2	38	3	60	90	2	58	1 - 2		
5	2:18	2	33	3	44	5	77	127	4	63	2 - 3		
6		-	-	-	-	-	-	-	-	-	-	C	
7	2:58	2	28	4	41	6	69	129	2	12	2 - 3		
8		-	-	-	-	-	-	-	-	-	-	S	
9	2:58	2	17	5	39	7	56	126	3	22	2 - 3		
10	2:19	1	8	5	44	6	52	112	3	27	3		
11	4:44	2	9	5	51	7	60	130	3	35	3		
12	2:50	3	8	4	53	7	61	131	2	40	2 - 3		
13	2:10	2	7	4	56	6	63	123	2	40	2 - 3		
14		-	-	-	-	-	-	-	-	-	-	S	
15		-	-	-	-	-	-	-	-	-	-	S-C	
16	3:34	0	0	3	49	3	49	79	2	24	2 - 3		
17	3:11	0	0	3	37	3	37	67	2	18	2		
18	3:07	0	0	6	43	6	43	103	1	13	2 - 3		
19	3:00	0	0	5	37	5	37	87	1	5	2 - 3		
20	3:10	1	2	5	40	6	42	102	2	8	2 - 3		
21	2:45	1	4	3	36	4	40	80	2	26	2 - 3		
22	2:16	1	4	3	44	4	48	88	2	40	2 - 3		
23	3:51	2	5	3	63	5	68	118	2	57	4		
24	2:26	2	8	3	53	5	61	111	3	49	2 - 3		
25	2:22	2	11	4	61	6	72	132	3	50	2 - 3		
26	2:57	3	9	6	51	9	60	150	3	19	2 - 3		
27		-	-	-	-	-	-	-	-	-	-	R	
28	5:40	1	6	10	49	11	55	165	4	22	4		
Sum		512		1899		2411			1235				
Mean		23.3		86.3		109.6			56.1				

Days 22

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

MARCH 2014 Observer - K. Fujimori Suwa City, Nagano

Date	Time	N		S		Total 10g+f			Cent.		Seeing 5 - 1	Remarks
		g	f	g	f	g	f	R	g	f		
1		-	-	-	-	-	-	-	-	-		C
2		-	-	-	-	-	-	-	-	-		R-C
3	3h39	3	16	5	33	8	49	129	5	33	2 - 3	
4	2:23	3	14	5	30	8	44	124	4	30	2 - 3	
5		-	-	-	-	-	-	-	-	-		R
6	2:26	0	0	5	25	5	25	75	2	8	2	
7		-	-	-	-	-	-	-	-	-		M
8	4:54	1	7	5	15	6	22	82	1	5	2 - 3	
9	2:20	1	7	4	11	5	18	68	2	6	2 - 3	
10	4:40	1	11	2	13	3	24	54	1	4	1 - 2	
11	2:48	2	20	3	27	5	47	97	3	12	4	
12	3:31	3	20	3	24	6	44	104	3	32	3	
13		-	-	-	-	-	-	-	-	-		R
14	3:22	4	15	2	23	6	38	98	1	20	3	
15	3:07	4	18	2	22	6	40	100	1	21	3	
16		-	-	-	-	-	-	-	-	-		M
17	2:32	3	10	3	23	6	33	93	3	10	3	
18		-	-	-	-	-	-	-	-	-		C
19	3:40	2	4	6	28	8	32	112	3	14	2 - 3	
20		-	-	-	-	-	-	-	-	-		R
21	6:10	2	4	5	30	7	34	104	2	16	2	
22		-	-	-	-	-	-	-	-	-		M
23	3:26	3	7	5	41	8	48	128	5	27	3	
24	3:03	3	8	3	35	6	43	103	2	34	2 - 3	
25		-	-	-	-	-	-	-	-	-		M
26		-	-	-	-	-	-	-	-	-		C-R
27		-	-	-	-	-	-	-	-	-		C
28	2:17	2	16	3	14	5	30	80	3	17	3 - 4	
29	6:40	3	14	4	18	7	32	102	3	7	4	
30	7:20	2	9	3	14	5	23	73	2	9	1 - 2	
31	3:18	3	8	5	23	8	31	111	3	17	3 - 4	
Sum		658		1179		1837			812			
Mean		34.6		62.1		96.7			42.7			

Days 19

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

APRIL 2014 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	2h20m	2	4	3	24	5	28	78	1	12	2	
2	2:40	2	4	3	24	5	28	78	2	11	2	
3		-	-	-	-	-	-	-	-	-		C
4	2:15	6	20	3	43	9	63	153	5	34	3	
5	3:00	4	21	3	38	7	59	129	6	32	2 - 3	
6		-	-	-	-	-	-	-	-	-		C
7	2:28	4	21	2	8	6	29	89	4	21	3	
8	3:01	5	19	1	14	6	33	93	3	16	3	
9	2:42	4	16	2	6	6	22	82	2	4	3	
10		-	-	-	-	-	-	-	-	-		C
11	4:12	3	14	0	0	3	14	44	0	0	3	
12	3:00	3	14	1	6	4	20	60	1	2	3	
13		-	-	-	-	-	-	-	-	-		M
14	3:11	2	13	3	27	5	40	90	4	24	3	
15	2:41	2	18	4	32	6	50	110	5	38	4	
16		-	-	-	-	-	-	-	-	-		M
17	2:20	4	21	5	37	9	58	108	5	45	4	
18		-	-	-	-	-	-	-	-	-		C
19	3:10	3	20	4	54	7	74	144	2	32	4	
20		-	-	-	-	-	-	-	-	-		C
21		-	-	-	-	-	-	-	-	-		R-C
22		-	-	-	-	-	-	-	-	-		C
23	5:17	1	4	4	23	5	27	77	1	4	4	
24	3:01	1	2	4	16	5	18	68	2	9	2 - 3	
25	2:20	1	2	3	9	4	11	51	2	7	2 - 3	
26	2:43	1	2	2	4	3	6	36	1	3	2 - 3	
27	2:19	2	5	3	6	5	11	61	1	3	3	
28		-	-	-	-	-	-	-	-	-		C
29		-	-	-	-	-	-	-	-	-		C-R
30		-	-	-	-	-	-	-	-	-		R
Sum		720		871		1591			767			
Mean		40.0		48.4		88.4			42.6			

Days 18

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

MAY 2014 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	3h50m	1	2	4	27	5	29	79	3	17	1 - 2	
2	2:31	1	2	3	46	4	48	88	4	48	3 - 4	
3	3:40	1	2	4	44	5	46	96	3	22	2 - 3	
4	2:17	1	2	5	49	6	51	111	2	14	3	
5		-	-	-	-	-	-	-	-	-		C-R
6	3:30	3	16	5	18	8	34	114	2	10	2	
7	3:09	6	25	3	7	9	32	122	2	7	3 - 4	
8	2:20	5	22	3	6	8	28	108	2	5	2 - 3	
9	3:09	5	23	4	8	9	31	121	3	6	4	
10	2:37	6	23	3	6	9	29	119	3	12	4	
11	2:55	5	23	4	17	9	40	130	5	25	4	
12		-	-	-	-	-	-	-	-	-		C-R
13	2:16	3	18	3	21	6	39	99	4	37	2 - 3	
14	2:30	4	24	3	17	7	41	111	3	25	2	
15		-	-	-	-	-	-	-	-	-		C-R
16	3:54	4	25	3	11	7	36	106	3	15	3	
17	3:25	4	21	5	24	9	45	135	3	20	4 - 5	
18	5:09	1	6	4	12	5	18	68	4	16	3	
19	3:30	1	2	4	13	5	15	65	3	9	3 - 4	
20	3:10	1	2	5	15	6	17	77	1	2	4	
21		-	-	-	-	-	-	-	-	-		R-C
22	2:30	0	0	4	14	4	14	54	1	3	2 - 3	
23	3:37	0	0	4	21	4	21	61	2	9	2 - 3	
24	2:26	0	0	5	38	5	38	88	1	11	3	
25	2:50	0	0	5	40	5	40	90	2	9	2 - 3	
26		-	-	-	-	-	-	-	-	-		C
27	2:23	0	0	4	20	4	20	60	2	15	3	
28	3:42	0	0	4	15	4	15	55	3	13	2 - 3	
29	2:33	0	0	3	11	3	11	41	3	10	3 - 4	
30	6:11	0	0	3	13	3	13	43	1	3	3	
31	2:40	0	0	3	8	3	8	38	1	3	3	
Sum			758		1521			2279		1024		
Mean			29.2		58.5			87.7		39.4		

Days 26

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

JUNE 2014 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	2h35m	1	2	3	11	4	13	53	2	4	3	
2		-	-	-	-	-	-	-	-	-	-	M
3	3:55	1	2	3	12	4	14	54	2	10	3	
4	3:00	1	2	2	6	3	8	38	2	6	2	
5	2:20	1	2	2	9	3	11	41	2	7	1 - 2	
6	2:20	2	11	3	15	5	26	76	3	11	2 - 3	
7		-	-	-	-	-	-	-	-	-	-	R-C
8	5:30	2	14	3	39	5	53	103	4	50	2 - 3	
9	3:10	2	10	4	40	6	50	110	4	44	3	
10	5:30	2	17	5	46	7	63	133	3	52	2 - 3	
11		-	-	-	-	-	-	-	-	-	-	C
12		-	-	-	-	-	-	-	-	-	-	C
13	3:19	3	17	5	40	8	57	137	2	10	2 - 3	
14	5:22	3	14	6	27	9	41	131	3	9	3	
15	2:27	3	19	2	9	5	28	78	2	17	3	
16	2:42	2	12	1	5	3	17	47	2	7	2 - 3	
17	2:09	2	13	3	10	5	23	73	2	8	2	
18		-	-	-	-	-	-	-	-	-	-	C
19	2:22	2	4	5	19	7	23	93	1	2	4 - 5	
20	2:40	1	2	5	15	6	17	77	1	7	2	
21		-	-	-	-	-	-	-	-	-	-	C
22		-	-	-	-	-	-	-	-	-	-	R-C
23	5:00	2	5	0	0	2	5	25	0	0	2	
24	3:27	1	4	1	3	2	7	27	0	0	3	
25	4:20	1	5	1	6	2	11	31	1	6	2 - 3	
26	2:30	1	6	2	8	3	14	44	2	10	2 - 3	
27	2:47	1	4	2	5	3	9	39	3	9	3	
28		-	-	-	-	-	-	-	-	-	-	C
29	2:42	2	6	1	6	3	12	42	1	4	3 - 4	
30		-	-	-	-	-	-	-	-	-	-	C
Sum			531		921			1452		693		
Mean			25.3		43.9			69.1		33.0		

Days 21

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

JULY 2014 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	2h20m	4	19	2	15	6	44	104	1	10	4	
2	3:19	5	27	4	29	9	56	146	2	15	4 - 5	
3		-	-	-	-	-	-	-	-	-		C
4		-	-	-	-	-	-	-	-	-		R-C
5		-	-	-	-	-	-	-	-	-		C
6		-	-	-	-	-	-	-	-	-		C
7		-	-	-	-	-	-	-	-	-		R
8		-	-	-	-	-	-	-	-	-		M
9	3:23	4	20	5	48	9	68	158	3	26	2 - 3	
10		-	-	-	-	-	-	-	-	-		R-C
11	5:10	3	13	5	37	8	50	130	3	13	2 - 3	
12	1:30	3	17	4	35	7	52	122	3	15	2 - 3	
13		-	-	-	-	-	-	-	-	-		C-R
14		-	-	-	-	-	-	-	-	-		C
15	3:07	1	3	0	0	1	3	13	1	2	3	
16	3:06	1	1	0	0	1	1	11	0	0	3	
17	2:40	0	0	0	0	0	0	0	0	0	2 - 3	
18	4:30	1	5	0	0	1	5	15	1	5	2 - 3	
19		-	-	-	-	-	-	-	-	-		C
20	3:12	0	0	1	7	1	7	17	1	7	2 - 3	
21	4:24	0	0	1	6	1	6	16	1	6	3	
22	2:35	1	2	1	4	2	6	26	0	0	3	
23	4:10	1	5	2	8	3	13	43	0	0	2 - 3	
24	3:20	1	6	3	11	4	17	57	0	0	2	
25	6:32	2	9	1	5	3	14	44	0	0	3 - 4	
26	3:18	1	7	1	5	2	12	32	2	9	4	
27	6:47	1	4	3	12	4	16	56	3	14	3 - 4	
28	3:32	1	5	5	33	6	38	98	3	29	4 - 5	
29	3:01	1	3	6	33	7	36	106	3	22	3 - 4	
30	2:43	1	5	7	30	8	35	115	2	9	4	
31	2:54	1	6	6	36	7	42	112	1	2	3 - 4	
Sum		497		924		1421			484			
Mean		23.7		44.0		67.7			23.0			

Days 21

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

AUGUST 2014 Observer - K. Fujimoru 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	2h50m	1	6	7	33	8	39	119	2	10	3 - 2	
2		-	-	-	-	-	-	-	-	-		M
3		-	-	-	-	-	-	-	-	-		M
4	3:50	1	9	7	44	8	53	133	6	41	2 - 3	
5	5:20	1	7	5	26	6	33	93	4	22	1 - 2	
6	6:14	1	10	5	33	6	43	103	4	33	2 - 3	
7	5:10	2	17	3	16	5	33	83	2	15	2 - 3	
8		-	-	-	-	-	-	-	-	-		C-R
9		-	-	-	-	-	-	-	-	-		R-C
10		-	-	-	-	-	-	-	-	-		R
11	3:00	2	9	1	2	3	11	41	1	7	2	
12		-	-	-	-	-	-	-	-	-		M
13		-	-	-	-	-	-	-	-	-		C
14		-	-	-	-	-	-	-	-	-		R
15	5:00	3	22	1	4	4	26	66	1	9	2 - 3	
16		-	-	-	-	-	-	-	-	-		R
17		-	-	-	-	-	-	-	-	-		C
18	2:30	3	24	3	11	6	35	95	3	25	3 - 4	
19		-	-	-	-	-	-	-	-	-		C
20	1:46	4	16	2	12	6	28	88	2	12	3	
21	3:12	3	19	2	15	5	34	84	3	21	3	
22	3:50	5	36	3	23	8	59	139	3	23	4 - 5	
23	2:20	4	27	3	15	7	42	112	3	17	2 - 3	
24		-	-	-	-	-	-	-	-	-		C
25		-	-	-	-	-	-	-	-	-		R-C
26		-	-	-	-	-	-	-	-	-		C
27	4:10	3	13	2	5	5	18	68	2	9	2	
28		-	-	-	-	-	-	-	-	-		C
29	5:20	1	5	3	7	4	12	52	3	10	2	
30	3:40	1	13	3	12	4	25	35	2	5	3	
31	6:22	1	7	3	18	4	25	65	2	5	2 - 3	
Sum		577		764		1341			669			
Mean		36.1		47.8		83.8			41.8			

Days 16

8cm Refractor X67 Projection 15cm



MONTHLY REPORT OF SUNSPOT OBSERVATION

SEPTEMBER 2014 Observer - K. Fujimori Suwa City, Nagano

Date	Time	N		S		Total 10g+f			Cent.		Seeing 5 - 1	Remarks
		g	f	g	f	g	f	R	g	f		
1		-	-	-	-	-	-	-	-	-		C
2	4h10m	1	6	4	33	5	39	89	2	25	3	
3		-	-	-	-	-	-	-	-	-		C
4		-	-	-	-	-	-	-	-	-		C
5		-	-	-	-	-	-	-	-	-		C
6	2:04	2	19	5	31	7	41	111	2	5	2 - 3	
7	2:39	2	9	6	38	8	47	127	2	7	3	
8	7:00	2	11	5	35	7	46	116	3	12	2	
9	2:19	3	20	5	40	8	60	140	4	45	3	
10	4:40	2	20	3	34	5	54	104	3	45	2	
11	3:55	2	17	6	38	8	55	135	4	43	3	
12	2:45	1	17	4	24	5	41	91	4	31	3	
13	2:35	1	8	4	32	5	40	90	3	22	2 - 3	
14	2:22	2	11	3	23	5	34	84	2	14	4	
15		-	-	-	-	-	-	-	-	-		C
16	2:20	2	7	2	40	4	17	57	3	7	2 - 3	
17	2:30	4	11	3	15	7	26	96	3	11	2	
18		-	-	-	-	-	-	-	-	-		C
19	4:40	3	6	2	4	5	10	60	1	2	1 - 2	
20		-	-	-	-	-	-	-	-	-		C
21	3:04	2	4	3	16	5	20	70	2	4	2 - 3	
22	2:16	2	4	3	24	5	28	78	2	4	2 - 3	
23	2:40	3	7	3	24	6	31	91	3	9	2 - 3	
24		-	-	-	-	-	-	-	-	-		C
25		-	-	-	-	-	-	-	-	-		R-C
26	2:23	2	25	3	40	5	65	115	4	61	3	
27	2:31	2	25	3	43	5	68	118	4	57	3	
28	6:49	2	23	4	43	6	66	126	1	13	3	
29	2:49	2	28	5	40	7	68	138	1	4	3 - 4	
30	2:30	3	29	6	37	9	66	156	2	13	3	
Sum		748		1444		2192			984			
Mean		35.6		68.8		104.4			46.9			

Days 21

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

OCTOBER 2014 Observer - K. Fujimori Suwa City, Nagano

Date	Time	N		S		Total 10g+f			Cent.		Seeing 5 - 1	Remarks
		g	f	g	f	g	f	R	g	f		
1	2h30m	3	20	4	21	7	41	111	3	17	3	
2		-	-	-	-	-	-	-	-	-	-	M
3	4:20	2	7	3	14	5	21	71	3	14	2 - 3	
4		-	-	-	-	-	-	-	-	-	-	C
5		-	-	-	-	-	-	-	-	-	-	R
6		-	-	-	-	-	-	-	-	-	-	R-C
7	2:03	1	1	3	12	4	13	53	2	7	4 - 5	
8	2:39	0	0	4	9	4	9	49	0	0	3	
9	3:30	0	0	4	21	4	21	61	1	3	3	
10	4:09	0	0	2	11	2	11	31	0	0	2 - 3	
11	2:20	0	0	2	7	2	7	27	0	0	2 - 3	
12	4:30	0	0	2	4	2	4	24	1	1	2 - 3	
13		-	-	-	-	-	-	-	-	-	-	R-C
14		-	-	-	-	-	-	-	-	-	-	R-C
15		-	-	-	-	-	-	-	-	-	-	C-R
16	2:25	1	2	2	5	3	7	37	2	4	3	
17	0:43	0	0	3	6	3	6	36	1	2	3	
18	4:49	0	0	3	18	3	18	48	1	3	3	
19	1:17	1	6	3	30	4	36	76	2	9	2 - 3	
20		-	-	-	-	-	-	-	-	-	-	C-R
21		-	-	-	-	-	-	-	-	-	-	C
22		-	-	-	-	-	-	-	-	-	-	R
23	6:20	2	11	3	50	5	61	111	1	45	2 - 3	naked eye=1b
24	3:23	2	7	3	57	5	64	114	1	52	4	naked eye=1b
25	6:34	2	9	3	48	5	57	107	2	32	2 - 3	naked eye=1b
26	2:05	2	7	4	42	6	49	109	3	5	2 - 3	naked eye=1c
27	2:06	1	4	4	44	5	48	98	2	6	2 - 3	
28	5:25	1	4	4	32	5	36	86	3	8	2	
29	4:27	1	4	5	24	6	28	88	4	12	3	
30	4:54	1	2	7	20	8	22	102	3	6	4	
31		-	-	-	-	-	-	-	-	-	-	C
Sum		284		1155		1439			576			
Mean		14.2		57.8		72.0			28.8			

Days 20

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

NOVEMBER 2014 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		-	-	-	-	-	-	-	-	-		C
3	1h23m	5	27	2	7	7	34	104	5	27	2 - 3	
4	2:50	3	11	3	8	6	19	79	4	15	2	
5	4:10	4	18	2	12	6	30	90	4	15	2 - 3	
6	2:53	3	20	1	10	4	30	70	2	12	2 - 3	
7	4:09	3	25	1	5	4	30	70	1	2	4	
8		-	-	-	-	-	-	-	-	-		M
9		-	-	-	-	-	-	-	-	-		R
10	4:30	1	19	2	5	3	24	54	1	19	4	
11	4:40	2	20	2	8	4	28	68	1	19	3	
12		-	-	-	-	-	-	-	-	-		C
13		-	-	-	-	-	-	-	-	-		C
14	2:33	3	21	3	22	6	43	103	2	13	3	
15	2:31	3	8	4	20	7	28	98	2	7	2	
16	2:26	1	2	4	24	5	26	76	2	9	2	
17		-	-	-	-	-	-	-	-	-		C
18	2:42	0	0	5	20	5	20	70	4	6	3 - 4	naked eye=1c
19	2:27	0	0	2	19	2	19	39	1	12	3 - 4	naked eye=1c
20		-	-	-	-	-	-	-	-	-		C
21	2:35	0	0	2	25	2	25	45	1	15	3	naked eye=1c
22	2:20	0	0	2	25	2	25	45	1	15	3	
23	2:06	0	0	3	28	3	28	58	0	0	2	
24	2:30	1	2	3	36	4	38	78	1	10	3	
25		-	-	-	-	-	-	-	-	-		R
26		-	-	-	-	-	-	-	-	-		R
27	2:28	3	24	4	20	7	44	114	3	24	2 - 3	
28	3:11	3	26	3	22	6	48	108	4	23	2	
29	5:20	4	26	4	20	8	46	126	2	4	2 - 3	
30	1:14	3	22	3	27	6	49	109	4	12	2	
Sum		691		936		1627			705			
Mean		34.6		46.8		81.4			35.3			

Days 20

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

DECEMBER 2014 Observer - K. Fujimoti Suwa City, Nagano

Date	Time	N		S		Total 10g+f			Cent.		Seeing	Remarks
		U.	T.	g	f	g	f	R	g	f		
1		-	-	-	-	-	-	-	-	-		R
2		-	-	-	-	-	-	-	-	-		C
3	3h06m	2	7	4	35	6	42	102	2	25	2	
4		-	-	-	-	-	-	-	-	-		R
5	2:40	1	2	2	18	3	20	50	0	0	2 - 3	
6		-	-	-	-	-	-	-	-	-		C
7	1:50	0	0	2	13	2	13	33	1	8	2	
8	2:27	1	4	2	15	3	19	49	1	10	2 - 3	
9	2:38	1	6	2	13	3	19	49	1	6	2 - 3	
10	4:40	2	12	3	21	5	33	83	3	22	2	
11		-	-	-	-	-	-	-	-	-		R
12		-	-	-	-	-	-	-	-	-		C
13	3:53	3	16	3	24	6	40	100	3	27	3	
14	5:30	4	14	6	18	10	32	132	2	4	2	
15	3:22	4	13	5	31	9	44	134	3	11	2	
16		-	-	-	-	-	-	-	-	-		S
17		-	-	-	-	-	-	-	-	-		C
18	3:40	3	7	4	72	7	79	149	5	74	2 - 3	
19	3:37	3	11	4	65	7	76	146	4	63	2 - 3	
20		-	-	-	-	-	-	-	-	-		C-R
21	3:06	2	5	4	54	6	59	119	2	19	3	
22	3:30	3	6	3	36	6	42	102	2	10	2	
23	4:02	3	8	4	23	7	31	101	1	7	2 - 3	
24	4:28	2	4	5	17	7	21	91	1	9	3	
25	4:47	1	2	5	18	6	20	80	2	12	2	
26	2:43	2	4	3	12	5	16	66	2	4	2 - 3	
27	2:24	1	2	4	23	5	25	75	2	4	3	
28	2:37	2	3	4	16	6	19	79	3	9	3	
29		-	-	-	-	-	-	-	-	-		S
30	3:50	2	4	3	17	5	21	71	2	6	2 - 3	
31	2:32	1	2	4	20	5	22	72	2	8	2 - 3	
Sum			562		1321			1883		778		
Mean			26.8		62.9			89.7		37.0		

Days 21

8cm Refractor X67 Projection 15cm