

MONTHLY REPORT OF SUNSPOT OBSERVATION

JANUARY 2004 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	3h27m	0	0	3	22	3	22	52	1	1	2 - 3	
2	2:36	0	0	3	38	3	38	68	1	20	1 - 2	
3	2:41	0	0	3	47	3	47	77	1	17	2	
4	3:05	0	0	3	51	3	51	81	1	15	2	
5	2:55	0	0	3	43	3	43	73	1	8	2 - 3	naked eye=1c
6	2:39	0	0	2	45	2	45	65	2	45	4	naked eye=1b
7	3:46	1	11	2	47	3	58	88	1	46	2 - 3	naked eye=1b
8	3:31	2	13	1	45	3	58	88	2	47	2	naked eye=1b
9	4:40	1	18	1	40	2	58	78	1	40	2	naked eye=1b
10	3:00	1	15	1	33	2	48	68	1	16	2	naked eye=1c
11	2:49	1	13	1	21	2	34	54	1	13	3	
12	2:15	1	10	1	10	2	20	40	1	10	1 - 2	
13	2:21	1	10	2	10	3	20	50	1	10	2	
14	2:50	1	9	3	14	4	23	63	2	12	2 - 3	
15	2:42	1	10	2	17	3	27	57	2	6	2	
16		-	-	-	-	-	-	-	-	-		M
17		-	-	-	-	-	-	-	-	-		R
18		-	-	-	-	-	-	-	-	-		M
19	4:23	3	18	3	38	6	56	116	3	40	2 - 3	
20	2:33	2	29	2	33	4	62	102	4	62	4	
21		-	-	-	-	-	-	-	-	-		M
22	3:49	2	32	2	14	4	46	86	3	39	1 - 2	
23	2:50	2	22	2	8	4	30	70	1	12	2	
24	3:05	2	11	2	5	4	16	56	0	0	2	
25	2:16	2	3	2	4	4	7	47	0	0	2	
26	2:50	1	1	1	2	2	3	23	0	0	4	
27	3:03	0	0	0	0	0	0	0	0	0	2	
28	2:15	0	0	1	1	1	1	11	1	1	2	
29	2:16	0	0	1	2	1	2	12	0	0	4	
30	3:09	0	0	3	13	3	13	43	2	9	4	
31	3:01	2	6	3	14	5	20	70	1	7	2	
Sum		491		1147		1638			816			
Mean		18.2		42.5		60.7			30.2			

Days 27

8cm Refractor X67 Projection 15cm

POLAR FACULAE(Days 23)

<u>N</u>	<u>S</u>
0.39	0.87
<u>1.26</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

FEBRUARY 2004 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	3h03m	2	17	2	14	4	31	71	1	10	2	
2		-	-	-	-	-	-	-	-	-		R
3		-	-	-	-	-	-	-	-	-		C
4	2:48	1	20	5	31	6	51	111	4	13	2	
5	4:50	1	15	4	25	5	40	90	3	23	1 - 2	
6	2:42	1	29	3	30	4	59	99	3	58	3	
7		-	-	-	-	-	-	-	-	-		M
8	2:31	1	18	2	34	3	52	82	2	37	2 - 3	
9	2:10	1	7	3	30	4	37	77	2	22	1 - 2	
10	2:24	2	3	3	36	5	39	89	1	15	4	
11	1:29	2	8	3	31	5	39	89	0	0	3	
12	1:18	1	9	4	23	5	32	82	3	21	2 - 3	
13	2:53	1	10	4	18	5	28	78	3	21	3	
14	2:31	2	10	3	11	5	21	71	2	13	2	
15	3:33	3	14	3	12	6	26	86	2	9	2 - 3	
16	2:10	3	7	4	12	7	19	89	4	9	2 - 3	
17	3:29	1	2	1	2	2	4	24	0	0	2	
18	1:51	1	2	1	2	2	4	24	0	0	2	
19	3:58	1	2	1	3	2	5	25	1	2	3	
20	2:30	2	3	2	4	4	7	47	1	2	4 - 5	
21	3:30	2	8	2	5	4	13	53	1	2	2	
22		-	-	-	-	-	-	-	-	-		M
23	2:20	1	27	3	11	4	38	78	2	9	1 - 2	
24	2:40	2	27	2	14	4	41	81	3	33	1 - 2	
25	3:50	1	46	2	16	3	62	92	3	62	2	
26	3:27	1	49	2	21	3	70	100	2	70	2 - 3	naked eye=1c
27	3:15	1	33	4	22	5	55	105	3	20	2	naked eye=1c
28	2:50	1	35	5	35	6	70	130	2	21	2	
29		-	-	-	-	-	-	-	-	-		R
Sum		751		1122		1873			952			
Mean		31.3		46.8		78.0			39.7			

Days 24

8cm Refractor X67 Projection 15cm

POLAR FACULAE (Days 18)

<u>N</u>	<u>S</u>
<u>0.06</u>	<u>1.78</u>
<u>1.83</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

MARCH 2004 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	4h30m	0	0	2	25	2	25	45	1	20	2 - 3	
3	3:10	0	0	2	24	2	24	44	1	22	1 - 2	
4	2:33	0	0	1	16	1	16	26	1	16	2 - 3	
5	2:16	0	0	2	28	2	28	48	2	21	2	
6	2:39	0	0	3	36	3	36	66	1	10	2	
7	2:04	0	0	4	31	4	31	71	2	9	2 - 3	
8	3:32	0	0	3	23	3	23	53	1	3	2	
9	3:57	0	0	5	31	5	31	81	2	4	3 - 4	
10	3:21	1	1	4	26	5	27	77	2	11	3	naked eye=1c
11		-	-	-	-	-	-	-	-	-		R-C
12		-	-	-	-	-	-	-	-	-		C
13	2:57	1	9	2	20	3	29	59	2	26	1 - 2	naked eye=1c
14	2:51	1	12	2	19	3	31	61	1	16	2	
15	2:51	1	9	2	10	3	19	49	0	0	2	
16	3:11	1	5	3	11	4	16	56	1	3	3	
17	3:40	1	2	5	16	6	18	78	2	4	3	
18		-	-	-	-	-	-	-	-	-		R
19	4:35	1	7	4	40	5	47	97	1	2	3	
20		-	-	-	-	-	-	-	-	-		C
21	3:40	1	14	2	26	3	40	70	1	24	2	
22		-	-	-	-	-	-	-	-	-		S
23	3:20	1	29	4	32	5	61	111	4	50	4 - 5	
24		-	-	-	-	-	-	-	-	-		M
25		-	-	-	-	-	-	-	-	-		C
26	2:27	3	39	5	25	8	64	144	2	21	3	
27	0:53	3	38	5	19	8	57	137	1	2	2 - 3	
28	2:36	3	35	5	23	8	58	138	2	7	4	
29	4:09	2	29	5	16	7	45	115	3	4	4	
30	1:20	1	33	3	14	4	47	87	3	37	2	
31	2:50	1	25	3	23	4	48	88	3	33	2	
Sum			507		1294			1801		735		
Mean			22.0		56.3			78.3		32.0		

Days 23

8cm Refractor X67 Projection 15cm

POLAR FACULAE (Days 20)

<u>N</u>	<u>S</u>
0.10	1.80
<u>1.90</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

APRIL 2004 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	2h18m	1	22	3	19	4	41	81	4	30	4		
2	4:05	1	11	3	21	4	32	72	3	24	2 - 3		
3	3:40	1	5	3	24	4	29	69	1	18	2		
4		-	-	-	-	-	-	-	-	-		R-S	
5	2:46	2	4	3	32	5	36	86	1	14	2 - 3		
6	2:40	2	4	2	27	4	31	71	2	21	2 - 3		
7	3:08	0	0	3	28	3	28	58	1	18	3		
8	2:50	0	0	2	17	2	17	37	1	15	2		
9	0:52	0	0	1	13	1	13	23	1	13	3 - 4		
10	2:35	0	0	1	8	1	8	18	1	6	3 - 4		
11		-	-	-	-	-	-	-	-	-		M	
12	2:49	0	0	2	12	2	12	32	1	5	3		
13	3:59	0	0	3	15	3	15	45	1	11	3		
14		-	-	-	-	-	-	-	-	-		C-R	
15	3:40	1	2	2	16	3	18	48	1	12	3		
16	2:19	1	3	2	9	3	12	42	1	2	3 - 4		
17	2:56	1	2	3	12	4	14	54	1	2	3 - 4		
18	3:12	1	4	5	28	6	32	92	2	7	3 - 4		
19		-	-	-	-	-	-	-	-	-		C-R	
20	3:02	1	1	4	49	5	50	100	3	24	2 - 3		
21	3:12	0	0	5	47	5	47	97	3	23	4		
22	3:37	0	0	5	37	5	37	87	3	28	3		
23	7:30	0	0	2	28	2	28	48	2	28	1 - 2		
24	2:27	1	2	3	21	4	23	63	3	21	2		
25	2:20	1	13	2	12	3	25	55	2	12	2 - 3		
26	3:40	2	17	1	4	3	21	51	2	9	2		
27		-	-	-	-	-	-	-	-	-		R	
28	3:20	1	8	1	4	2	12	32	1	8	2		
29	2:45	1	6	2	4	3	10	40	2	8	3		
30		-	-	-	-	-	-	-	-	-		M	
Sum		284		1117		1401			789				
Mean		11.8		46.5		58.4			32.9				

Days 24

8cm Refractor X67 Projection 15cm

POLAR FACULAE(Days 21)

<u>N</u>	<u>S</u>
0.43	1.81
<u>2.24</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

MAY 2004 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	3h58m	1	4	3	28	4	32	72	2	22	4	
2	3:17	1	1	2	27	3	28	58	0	0	4	
3		-	-	-	-	-	-	-	-	-	-	C
4		-	-	-	-	-	-	-	-	-	-	R
5		-	-	-	-	-	-	-	-	-	-	R
6	4:07	0	0	2	12	2	12	32	2	12	2 - 3	
7	3:17	0	0	2	4	2	4	24	1	2	3	
8	1:00	0	0	3	5	3	5	35	1	1	2	
9		-	-	-	-	-	-	-	-	-	-	R
10		-	-	-	-	-	-	-	-	-	-	R
11	2:56	0	0	4	10	4	10	50	0	0	3	
12		-	-	-	-	-	-	-	-	-	-	M
13		-	-	-	-	-	-	-	-	-	-	R
14	3:00	2	10	4	42	6	52	112	5	50	3	
15	3:27	1	12	4	47	5	59	109	4	57	4 - 5	
16		-	-	-	-	-	-	-	-	-	-	R
17		-	-	-	-	-	-	-	-	-	-	R
18		-	-	-	-	-	-	-	-	-	-	M
19		-	-	-	-	-	-	-	-	-	-	C-R
20		-	-	-	-	-	-	-	-	-	-	R
21		-	-	-	-	-	-	-	-	-	-	M
22		-	-	-	-	-	-	-	-	-	-	C
23		-	-	-	-	-	-	-	-	-	-	C-R
24	3:39	1	3	4	56	5	59	109	1	43	2 - 3	
25	3:01	1	2	4	64	5	66	116	2	57	2 - 3	
26	2:52	1	2	3	48	4	50	90	1	45	4	
27	4:22	1	2	1	47	2	49	69	1	47	4	
28	3:35	1	2	1	32	2	34	54	1	11	3 - 4	
29	6:05	0	0	3	30	3	30	60	0	0	3	
30		-	-	-	-	-	-	-	-	-	-	M
31	2:40	0	0	3	31	3	31	61	0	0	2	
Sum			138		913			1051		557		
Mean			9.2		60.9			70.1		37.1		

Days 15

8cm Refractor X67 Projection 15cm

POLAR FACULAE(Days 14)

<u>N</u>	<u>S</u>
0.50	1.00
1.50	

MONTHLY REPORT OF SUNSPOT OBSERVATION

JUNE 2004 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	3h12m	0	0	3	27	3	27	57	0	0	3	
2	3:40	1	2	3	19	4	21	61	2	17	2	
3	2:19	0	0	3	21	3	21	51	1	17	2	
4	2:10	0	0	3	18	3	18	48	1	14	5	
5	3:35	1	3	3	18	4	21	61	3	16	4 - 5	
6		-	-	-	-	-	-	-	-	-	-	C
7	2:40	0	0	2	7	2	7	27	1	6	2	
8		-	-	-	-	-	-	-	-	-	-	R
9	3:07	0	0	3	12	3	12	42	3	12	4	
10		-	-	-	-	-	-	-	-	-	-	C
11		-	-	-	-	-	-	-	-	-	-	C-R
12		-	-	-	-	-	-	-	-	-	-	C
13	2:00	1	2	2	4	3	6	36	1	2	1 - 2	
14	2:16	2	16	3	8	5	24	74	1	3	5	
15	3:22	1	13	2	14	3	27	57	1	2	4	
16	0:20	1	24	4	29	5	53	103	2	3	2 - 3	
17		-	-	-	-	-	-	-	-	-	-	M
18	3:22	1	33	3	46	4	79	119	3	45	3	
19	0:40	1	18	2	48	3	66	96	2	41	2 - 3	
20		-	-	-	-	-	-	-	-	-	-	C
21		-	-	-	-	-	-	-	-	-	-	R
22	2:18	1	12	4	67	5	79	129	3	66	3 - 4	
23		-	-	-	-	-	-	-	-	-	-	M
24	2:31	2	9	1	39	3	48	78	0	0	4 - 5	
25		-	-	-	-	-	-	-	-	-	-	R
26		-	-	-	-	-	-	-	-	-	-	C
27	2:26	1	5	2	5	3	10	40	1	5	3	
28	3:10	2	12	1	3	3	15	45	1	7	2 - 3	
29	4:29	2	7	1	6	3	13	43	0	0	4 - 5	
30	4:40	1	8	1	4	2	12	32	0	0	2	
Sum		344		855		1199			516			
Mean		18.1		45.0		63.1			27.2			

Days 19

POLAR FACULAE (Days 18)

8cm Refractor X67 Projection 15cm

<u>N</u>	<u>S</u>
1.83	0.61
<u>2.44</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

JULY 2004 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	3h16m	1	7	1	3	2	10	30	2	7	4	
2	1:46	1	8	1	5	2	13	33	2	13	4	
3	1:53	1	6	1	6	2	12	32	2	12	3	
4	3:30	1	7	1	5	2	12	32	2	12	3 - 4	
5		-	-	-	-	-	-	-	-	-		C
6	2:40	1	4	1	1	2	5	25	0	0	3	
7	5:55	0	0	1	2	1	2	12	0	0	3	
8	2:44	1	1	1	4	2	5	25	0	0	3 - 4	
9	0:03	0	0	2	16	2	16	36	1	6	3	
10	- 30	1	2	2	15	3	17	47	1	4	3	
11	2:43	3	8	3	25	6	33	93	4	30	3 - 4	
12		-	-	-	-	-	-	-	-	-		C
13	1:25	3	33	4	34	7	67	137	2	25	3	
14		-	-	-	-	-	-	-	-	-		M
15	3:30	3	13	5	49	8	62	142	2	9	2	
16		-	-	-	-	-	-	-	-	-		M
17	2:30	2	17	5	44	7	61	131	5	43	3	
18	2:38	2	33	5	58	7	91	161	4	56	2 - 3	
19	2:10	3	46	3	55	6	101	161	3	47	3	
20	2:19	2	59	3	57	5	116	166	2	43	2 - 3	naked eye=1c
21	1:28	2	83	3	42	5	125	175	3	46	3	naked eye=1b
22	2:03	2	88	2	32	4	120	160	2	98	3	naked eye=1b
23	2:12	2	99	2	24	4	123	163	3	115	4 - 5	naked eye=1a
24	2:55	1	102	2	15	3	117	147	2	114	2 - 3	naked eye=1a
25	3:51	1	92	1	4	2	96	116	2	93	3	naked eye=1c
26		-	-	-	-	-	-	-	-	-		M
27	2:05	2	61	1	4	3	65	95	0	0	3	
28	2:33	2	42	1	1	3	43	73	1	11	4	
29		-	-	-	-	-	-	-	-	-		C
30	2:12	1	15	1	2	2	17	37	1	15	3	
31	4:04	1	11	1	3	2	14	34	1	11	2 - 3	
Sum		1227		1036		2263			1280			
Mean		49.1		41.4		90.5			51.2			

Days 25

POLAR FACULAE(Days 25)

8cm Refractor X67 Projection 15cm

<u>N</u>	<u>S</u>
<u>0.92</u>	<u>0.04</u>
<u>0.96</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

AUGUST 2004 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	3h11m	1	7	1	9	2	16	36	1	5	4		
2	4:41	1	8	1	19	2	27	47	0	0	4 - 5		
3	3:38	1	6	1	22	2	28	48	1	11	2		
4	3:44	1	4	1	24	2	28	48	1	24	3		
5		-	-	-	-	-	-	-	-	-		M	
6		-	-	-	-	-	-	-	-	-		M	
7	2:30	1	2	3	33	4	35	75	1	14	2 - 3		
8	2:50	1	2	3	29	4	31	71	0	0	4 - 5		
9	1:57	1	2	2	38	3	40	70	0	0	3		
10	2:16	2	4	3	57	5	61	111	1	6	3	naked eye=1c	
11	2:08	2	6	3	73	5	79	129	2	72	4	naked eye=1b	
12	3:30	2	5	2	77	4	82	122	2	74	4	naked eye=1b	
13	3:00	3	9	2	91	5	100	150	2	88	4	naked eye=1b	
14	3:19	2	6	3	82	5	88	138	4	35	4	naked eye=1c	
15		-	-	-	-	-	-	-	-	-		C	
16	2:53	2	10	2	56	4	66	106	1	2	3		
17		-	-	-	-	-	-	-	-	-		R	
18	4:20	4	31	1	19	5	50	100	3	26	2	naked eye=1c	
19	3:33	4	25	1	1	5	26	76	4	24	2 - 3	naked eye=1c	
20	2:20	4	29	0	0	4	29	69	3	25	2 - 3	naked eye=1c	
21	0:00	3	37	1	12	4	49	89	2	29	2	naked eye=1c	
22	4:30	4	36	1	23	5	59	109	3	37	2		
23		-	-	-	-	-	-	-	-	-		C-R	
24	5:42	2	10	1	17	3	27	57	2	22	2		
25	2:48	2	20	1	13	3	33	63	2	26	3 - 4		
26	4:24	2	10	1	11	3	21	51	2	10	2		
27	5:10	1	12	1	2	2	14	34	1	12	3		
28	2:37	1	9	1	2	2	11	31	1	4	2 - 3		
29	3:20	1	4	1	2	2	6	26	0	0	2 - 3		
30		-	-	-	-	-	-	-	-	-		C-R	
31	2:13	2	4	0	0	2	4	24	0	0	2		
Sum		798		1082		1880			936				
Mean		31.9		43.3		75.2			37.4				

Days 25

POLAR FACULAE(Days 19)

8cm Refractor X67 Projection 15cm

N	S
1.58	0.16
1.74	



MONTHLY REPORT OF SUNSPOT OBSERVATION

SEPTEMBER 2004 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		-	-	-	-	-	-	-	-	-		M	
2		-	-	-	-	-	-	-	-	-		C-R	
3	2h35m	0	0	2	4	2	4	24	1	2	3		
4		-	-	-	-	-	-	-	-	-		C-R	
5		-	-	-	-	-	-	-	-	-		R	
6	6:28	0	0	3	17	3	17	47	2	9	2		
7	0:30	0	0	3	28	3	28	58	3	25	2		
8	2:33	0	0	4	39	4	39	79	3	23	2 - 3		
9	2:28	1	2	3	45	4	47	87	2	29	2 - 3		
10		-	-	-	-	-	-	-	-	-		C	
11	2:30	2	21	3	19	5	40	90	1	1	3		
12	2:05	1	26	3	10	4	36	76	0	0	3		
13	2:02	1	34	2	6	3	40	70	1	4	3		
14	3:04	1	46	1	2	2	48	68	1	46	3		
15	3:07	1	40	1	2	2	42	62	1	40	4		
16	2:24	2	46	1	3	3	49	79	2	46	4 - 5		
17	3:18	1	31	1	11	2	42	62	1	31	2 - 3		
18	2:10	1	18	1	14	2	32	52	1	6	2 - 3		
19	2:43	2	11	1	24	3	35	65	1	6	2 - 3		
20	3:02	1	8	2	22	3	30	60	2	22	2 - 3		
21		-	-	-	-	-	-	-	-	-		M	
22	3:49	0	0	1	13	1	13	23	1	13	2		
23		-	-	-	-	-	-	-	-	-		C	
24	2:50	0	0	1	5	1	5	15	0	0	2		
25	3:08	0	0	1	2	1	2	12	0	0	3 - 4		
26	2:50	0	0	2	4	2	4	24	0	0	2		
27		-	-	-	-	-	-	-	-	-		M	
28	2:20	0	0	1	2	1	2	12	0	0	2 - 3		
29		-	-	-	-	-	-	-	-	-		R	
30	2:33	3	8	3	6	6	14	74	4	11	3		
Sum		461		678		1139			584				
Mean		21.9		32.3		54.2			27.8				

Days 21

8cm Refractor X67 Projection 15cm

POLAR FACULAE (Days 17)  
N                      S  
1.00                      0.00  
1.00

MONTHLY REPORT OF SUNSPOT OBSERVATION

OCTOBER 2004 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		-	-	-	-	-	-	-	-	-		M
2		-	-	-	-	-	-	-	-	-		M
3		-	-	-	-	-	-	-	-	-		R
4		-	-	-	-	-	-	-	-	-		C
5		-	-	-	-	-	-	-	-	-		R
6	2h17m	0	0	2	8	2	8	28	1	6	2 - 3	
7	2:19	1	1	2	4	3	5	35	0	0	3	
8		-	-	-	-	-	-	-	-	-		R
9		-	-	-	-	-	-	-	-	-		R
10	2:48	0	0	0	0	0	0	0	0	0	3	
11		-	-	-	-	-	-	-	-	-		M
12	2:41	1	6	1	1	2	7	27	2	7	2	
13	2:41	1	7	1	3	2	10	30	1	7	2 - 3	
14	3:37	1	2	1	12	2	14	34	1	2	4	
15	2:29	0	0	1	12	1	12	22	0	0	3	
16	6:40	0	0	1	16	1	16	26	0	0	2	
17	2:54	0	0	4	33	4	33	73	1	22	4	
18	2:30	1	1	5	36	6	37	97	3	31	2 - 3	
19		-	-	-	-	-	-	-	-	-		R
20		-	-	-	-	-	-	-	-	-		R
21	2:58	1	11	5	45	6	56	116	3	22	2 - 3	
22	2:27	2	16	4	38	6	54	114	2	18	2 - 3	
23	1:58	3	30	5	39	8	69	149	1	23	3	
24	4:43	3	45	5	31	8	76	156	2	52	4	
25	0:42	3	74	4	28	7	102	172	2	67	3 - 4	
26		-	-	-	-	-	-	-	-	-		R
27	2:20	4	61	4	20	8	81	161	6	72	2 - 3	
28	4:50	4	54	4	19	8	73	153	6	57	3 - 4	
29	2:41	4	53	4	27	8	80	160	4	40	4	
30		-	-	-	-	-	-	-	-	-		R
31	1:40	4	34	4	46	8	80	160	5	20	2 - 3	
Sum		725		988		1713			846			
Mean		38.2		52.0		90.2			44.5			

Days 19

POLAR FACULAE (Days 17)

8cm Refractor X67 Projection 15cm

<u>N</u>	<u>S</u>
1.47	0.18
<u>1.65</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

NOVEMBER 2004 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	5h52m	2	18	3	58	5	76	126	1	44	2	naked eye=1c
2	2:34	3	19	3	56	6	75	135	1	48	3	naked eye=1c
3	3:08	2	24	3	53	5	77	127	2	52	3 - 4	naked eye=1c
4	3:26	2	24	2	37	4	61	101	3	47	2 - 3	
5	3:15	1	26	2	40	3	66	96	2	34	3	naked eye=1b
6	2:43	2	42	2	26	4	68	108	2	46	3 - 4	naked eye=1b
7	3:02	2	43	3	34	5	77	127	2	44	3	naked eye=1b
8	2:57	1	49	3	29	4	78	118	1	49	4	naked eye=1c
9	3:00	1	39	3	16	4	55	95	0	0	4	
10	- 29	1	33	3	10	4	43	83	0	0	2	
11	1:40	1	16	2	5	3	21	51	0	0	2	
12		-	-	-	-	-	-	-	-	-		C
13	2:20	1	21	2	11	3	32	62	2	23	3	
14		-	-	-	-	-	-	-	-	-		C
15		-	-	-	-	-	-	-	-	-		R
16	3:51	1	18	3	11	4	29	69	3	11	3	
17	3:03	1	8	3	21	4	29	69	3	21	2 - 3	
18		-	-	-	-	-	-	-	-	-		R
19		-	-	-	-	-	-	-	-	-		R-C
20	2:24	2	4	3	6	5	10	60	0	0	3	
21	3:50	2	7	1	2	3	9	39	0	0	3	
22	4:28	2	12	2	4	4	16	56	1	3	3 - 4	
23	3:31	2	11	2	5	4	16	56	2	11	4	
24	2:41	2	6	3	6	5	12	62	2	6	4	
25	2:58	2	7	3	12	5	19	69	3	9	4	
26	3:10	2	5	2	14	4	19	59	2	5	1 - 2	
27	2:41	2	5	2	19	4	24	64	0	0	2 - 3	
28	4:26	2	3	2	12	4	15	55	2	9	3	
29	3:35	1	2	2	12	3	14	44	2	12	3	
30	3:05	1	2	2	16	3	18	48	2	16	3	

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Sum                      854      1125                      1979      870

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Mean                      34.2      45.0                      79.2      34.8

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Days 25

POLAR FACULAE(Days 22)

8cm Refractor X67 Projection 15cm

<u>N</u>	<u>S</u>
<u>0.82</u>	<u>0.41</u>
<u>1.23</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

DECEMBER 2004 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	3h46m	1	2	2	20	3	22	52	3	22	4 - 5	
2	3:06	1	2	3	19	4	21	61	4	16	4	
3	2:33	1	5	2	13	3	18	48	1	5	2	
4	3:00	1	2	2	6	3	8	38	1	2	1	
5	6:10	2	4	2	6	4	10	50	0	0	1 - 2	
6	3:54	2	4	2	4	4	8	48	1	1	3	
7	3:50	1	3	0	0	1	3	13	0	0	2	
8	2:07	2	3	1	1	3	4	34	1	1	4	
9	1:56	2	4	1	1	3	5	35	1	2	2	
10		-	-	-	-	-	-	-	-	-		M
11		-	-	-	-	-	-	-	-	-		M
12	3:47	1	17	1	1	2	18	38	1	1	2	
13	2:56	1	11	0	0	1	11	21	0	0	2 - 3	
14	2:48	1	11	1	1	2	12	32	0	0	2 - 3	
15	2:30	1	3	0	0	1	3	13	0	0	2	
16	3:00	0	0	1	3	1	3	13	0	0	4	
17	2:45	0	0	3	14	3	14	44	0	0	2 - 3	
18	3:29	0	0	3	9	3	9	39	0	0	2 - 3	
19		-	-	-	-	-	-	-	-	-		M
20	2:30	0	0	1	4	1	4	14	0	0	1 - 2	
21	2:28	0	0	1	14	1	14	24	1	6	2	
22	2:28	0	0	2	24	2	24	44	2	24	2	
23	2:43	0	0	2	19	2	19	39	2	19	2	
24	2:33	0	0	2	20	2	20	40	2	20	2 - 3	
25	2:24	0	0	1	12	1	12	22	1	12	2 - 3	
26	5:11	0	0	1	6	1	6	16	0	0	2 - 3	
27	3:50	0	0	1	2	1	2	12	0	0	2 - 3	
28	2:33	0	0	1	8	1	8	18	0	0	2 - 3	
29	6:10	1	8	1	1	2	9	29	1	1	1 - 2	
30	3:21	1	11	0	0	1	11	21	0	0	1 - 2	
31		-	-	-	-	-	-	-	-	-		S
Sum		280		578		858			352			
Mean		10.4		21.4		31.8			13.0			

Days 27

8cm Refractor x67 Projection 15cm

POLAR FACULAE(Days 18)

N	S
0.11	0.50
0.61	