

MONTHLY REPORT OF SUNSPOT OBSERVATION

JANUARY 1984 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	1h24m	1	1	0	0	1	1	11	1	1	4	
2	1:41	1	6	0	0	1	6	16	1	5	3	
3		-	-	-	-	-	-	-	-	-		C - S
4	1:40	1	12	0	0	1	12	22	0	0	3	
5	1:57	1	9	0	0	1	9	19	0	0	4	
6	1:00	1	2	3	6	4	8	48	1	3	4	
7		-	-	-	-	-	-	-	-	-		M
8	1:36	0	0	4	14	4	14	54	2	6	4	
9	1:27	0	0	4	21	4	21	61	2	14	3	
10	2:20	0	0	4	15	4	15	55	3	100	1 - 2	
11		-	-	-	-	-	-	-	-	-		M
12	2:33	0	0	4	17	4	17	57	2	4	3	
13	4:07	0	0	3	26	3	26	56	1	4	3	
14	1:57	0	0	3	35	3	35	65	3	18	3	
15		-	-	-	-	-	-	-	-	-		C
16	3:21	0	0	2	19	2	19	39	2	19	1	
17	1:50	0	0	3	22	3	22	52	2	19	3	
18	3:41	0	0	4	17	4	17	57	1	7	2	
19		-	-	-	-	-	-	-	-	-		S
20	3:14	0	0	5	27	5	27	77	2	9	2	
21	4:40	1	3	5	35	6	38	98	3	21	2	
22		-	-	-	-	-	-	-	-	-		S - C
23	2:54	3	15	2	19	5	34	84	1	17	4	
24	3:48	3	31	1	11	4	42	82	1	8	2 - 3	
25	2:30	4	56	2	11	6	67	127	2	10	2	
26	3:58	4	80	1	14	5	94	144	2	48	2	naked eye=1c,1b
27	4:35	4	75	1	10	5	85	135	3	54	2	naked eye=1c,1b
28		-	-	-	-	-	-	-	-	-		C
29	1:32	5	83	1	2	6	85	145	2	75	2	naked eye=1a,1b
30	1:55	5	90	0	0	5	90	140	3	47	2	naked eye=2b
31		-	-	-	-	-	-	-	-	-		S

Sum 803 841 1644 799

Mean 34.9 36.6 71.5 34.7

25.1 26.4 51.5

Days 23

POLAR FACULA

N S

8cm Refractor X67 Projection 15cm 0.00 0.57

0.57

MONTHLY REPORT OF SUNSPOT OBSERVATION

FEBRUARY 1984 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	2h53m	4	73	2	8	6	81	141	2	24	3	naked eye=lc
2		-	-	-	-	-	-	-	-	-		C
3		-	-	-	-	-	-	-	-	-		C
4	4:28	2	16	2	13	4	29	69	0	0	2	
5	1:12	2	4	4	22	6	26	86	1	8	3	
6	2:43	1	6	5	31	6	37	97	2	12	2	
7	4:32	1	12	5	33	6	45	105	4	20	2	
8	3:33	1	11	5	37	6	48	108	4	39	1 - 2	
9	3:57	1	7	5	66	6	73	103	5	36	2	
10	1:20	1	9	5	83	6	92	152	5	57	2 - 3	naked eye=lc
11	1:50	1	4	6	80	7	84	154	4	61	2 - 3	naked eye=lc
12	0:52	1	3	5	72	6	75	135	3	49	2	
13	4:24	0	0	7	53	7	53	123	2	37	3	
14	2:53	0	0	5	40	5	40	90	1	29	2 - 3	
15	3:15	1	3	4	25	5	28	78	0	0	2	
16	1:47	1	2	4	19	5	21	71	1	2	4	
17		-	-	-	-	-	-	-	-	-		S
18	3:27	1	21	3	8	4	29	69	0	0	2	
19	4:07	2	28	3	4	5	32	82	3	4	2 - 3	
20	4:06	2	46	0	0	2	46	66	0	0	2	
21	3:13	2	65	1	1	3	66	96	1	1	2 - 3	naked eye=lc
22	4:43	2	61	2	15	4	76	116	2	46	2	naked eye=lc
23		-	-	-	-	-	-	-	-	-		S
24	5:00	3	50	2	29	5	79	129	2	49	1 - 2	naked eye=lc
25		-	-	-	-	-	-	-	-	-		C
26		-	-	-	-	-	-	-	-	-		S
27	4:07	2	31	1	30	3	61	91	2	49	2	
28	3:03	2	25	2	30	4	55	95	2	30	2 - 3	
29	3:30	2	21	3	31	5	52	102	2	28	2	
Sum			848		1540			2388		1061		
Mean			36.9		67.0			103.8		46.1		

Days <sup>26.6</sup> 23 <sup>48.2</sup> <sup>79.7</sup>

8cm Refractor X67 Projection	POLAR FACULA	
	N	S
	0.00	0.95
	0.95	

MONTHLY REPORT OF SUNSPOT OBSERVATION

MARCH 1984 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	1:52	2	17	4	37	6	54	114	2	22	3	
2	2:57	2	11	4	33	6	44	104	2	14	2	
3	2:10	1	2	3	20	4	22	62	2	7	1	
4	2:20	1	5	5	20	6	25	85	3	12	3	
5	0:39	1	1	7	18	8	19	99	4	6	4	
6	3:53	0	0	4	18	4	18	58	2	5	2	
7	2:03	0	0	4	22	4	22	62	3	14	2	
8	3:29	0	0	4	23	4	23	63	4	23	1 - 2	
9	0:30	0	0	5	22	5	22	72	5	20	4	
10		-	-	-	-	-	-	-	-	-	-	S
11	2:45	0	0	5	25	5	25	75	5	21	4	
12		-	-	-	-	-	-	-	-	-	-	C
13	1:58	0	0	6	40	6	40	100	2	31	1 - 2	
14		-	-	-	-	-	-	-	-	-	-	S
15	1:38	2	8	6	47	8	55	135	2	21	3	
16		-	-	-	-	-	-	-	-	-	-	R
17	1:41	4	15	5	48	9	63	153	4	15	4	
18	2:53	5	16	2	30	7	46	116	3	11	2 - 3	
19		-	-	-	-	-	-	-	-	-	-	S
20		-	-	-	-	-	-	-	-	-	-	S
21	1:50	7	18	2	8	9	26	116	3	8	1 - 2	
22	1:23	7	32	2	11	9	43	133	3	22	2 - 3	
23	0:38	6	24	2	16	8	40	120	5	22	2	
24		-	-	-	-	-	-	-	-	-	-	C
25	3:45	4	12	3	23	7	35	105	5	30	2	
26	2:47	3	5	4	28	7	33	103	4	22	2	
27	1:25	3	5	5	33	8	38	118	3	12	4	
28		-	-	-	-	-	-	-	-	-	-	M
29	2:04	2	9	4	55	6	64	124	2	10	2	
30	1:59	3	14	3	57	6	71	131	2	20	4	
31	2:00	2	14	4	56	6	70	130	4	35	2	
Sum			758		1620			2378		1143		
Mean			33.0		70.4			103.4		49.7		

Days 23 2317 50.7

8cm Refractor X67 Projection 74.4

POLAR FACULA	
N	S
0.05	1.00
1.05	

MONTHLY REPORT OF SUNSPOT OBSERVATION

APRIL 1984 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	2h46m	1	5	5	50	6	55	115	4	43	2	naked eye=lc
3		-	-	-	-	-	-	-	-	-		C
4	4:02	1	6	3	35	4	41	81	3	25	1 - 2	
5		-	-	-	-	-	-	-	-	-		R
6	3:43	2	4	4	22	6	26	86	2	9	3	
7	3:49	1	4	3	17	4	21	61	2	10	2	
8	2:13	0	0	3	9	3	9	39	0	0	2	
9	0:30	1	2	0	0	1	2	12	1	2	2	
10		-	-	-	-	-	-	-	-	-		C
11		-	-	-	-	-	-	-	-	-		R
12	3:42	1	15	0	0	1	15	25	0	0	3	
13	3:02	1	22	0	0	1	22	32	0	0	4	
14	3:21	1	26	0	0	1	26	36	1	7	3	
15		-	-	-	-	-	-	-	-	-		C
16		-	-	-	-	-	-	-	-	-		R
17	3:07	2	30	2	15	4	45	85	3	31	2 - 3	naked eye=lc
18	2:35	3	30	-	17	5	47	97	2	26	3	naked eye=lc
19		-	-	-	-	-	-	-	-	-		R
20	2:51	2	18	3	13	5	31	81	2	11	2 - 3	
21	2:51	2	18	3	17	5	35	85	1	8	1 - 2	
22	4:35	1	5	4	15	5	20	70	2	6	2	
23	4:05	0	0	5	35	5	35	85	3	4	4	
24	2:49	0	0	6	52	6	52	112	2	8	3	
25	3:49	0	0	5	72	5	72	122	2	16	3 - 4	naked eye=lc
26	1:04	1	2	5	95	6	97	157	4	56	4	naked eye=lb
27	3:23	0	0	5	95	5	95	145	3	87	2 - 3	naked eye=la
28	4:27	1	1	5	120	6	121	181	4	103	3	naked eye=lb
29	3:32	0	0	6	130	6	133	193	5	128	4	naked eye=lb
30	4:10	0	0	4	101	4	101	141	2	66	1	naked eye=lc

Sum 398 1643 2041 1126

Mean 18.1 74.7 92.8 51.2

Days 22 <sup>13.0</sup> <sup>53.8</sup> <sup>66.8</sup>

8cm Refractor X67 Projection 15cm

POLAR FACULA	
N	S
0.10	0.70
0.80	

MONTHLY REPORT OF SUNSPOT OBSERVATION

MAY 1984 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	4h51m	0	0	5	74	5	74	124	2	26	2	
3	2:54	0	0	5	55	5	55	105	1	2	2 - 3	
4	3:53	0	0	2	36	2	36	56	0	0	2	
5	3:39	0	0	2	16	2	16	36	0	0	2	
6	3:39	1	4	2	6	3	10	40	0	0	3 - 4	
7	3:54	1	22	1	2	2	24	44	0	0	3	
8	4:18	1	36	2	5	3	41	71	0	0	2 - 3	
9	3:18	1	56	2	4	3	60	90	1	1	4	
10	2:07	2	63	2	7	4	70	110	4	22	3	naked eye=lb
11	4:07	2	81	3	9	5	90	140	4	87	4	naked eye=lb
12	0:09	2	87	2	6	4	93	133	4	93	4	naked eye=lc
13		-	-	-	-	-	-	-	-	-		C
14	4:29	2	74	2	15	4	89	129	4	88	3	naked eye=lc
15	3:26	2	56	2	9	4	65	105	2	31	4	
16		-	-	-	-	-	-	-	-	-		R
17	4:07	1	35	4	20	5	55	105	2	16	2	
18	3:40	1	30	3	18	4	48	88	1	11	4	
19	3:43	1	11	4	29	5	40	90	2	12	4 - 5	
20		-	-	-	-	-	-	-	-	-		C
21	2:30	0	0	3	43	3	43	73	1	3	2 - 3	
22		-	-	-	-	-	-	-	-	-		M
23	3:30	0	0	5	65	5	65	115	2	40	5	
24	3:21	1	1	5	63	6	64	124	3	60	3	
25	3:27	0	0	2	61	2	61	81	2	61	2 - 3	
26	3:50	1	2	3	40	4	42	82	3	38	1 - 2	
27		-	-	-	-	-	-	-	-	-		C
28	3:59	0	0	5	34	5	34	84	2	9	4	
29	2:50	0	0	4	28	4	28	68	1	3	2	
30	4:00	0	0	3	25	3	25	55	2	6	1	
31		-	-	-	-	-	-	-	-	-		C

Sum                    748            1400                    2148            1039

Mean                    31.2            58.3                    89.5            43.3

Days 24

8cm Refractor X67 Projection 15cm

POLAR FACULA

N	S
0.45	0.75

1.20

MONTHLY REPORT OF SUNSPOT OBSERVATION

JUNE 1984 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	2h16m	0	0	2	24	2	24	44	2	24	2 - 3	
2	3:52	0	0	2	25	2	25	45	2	25	2 - 3	
3		-	-	-	-	-	-	-	-	-		C
4	2:46	1	4	2	11	3	15	45	1	3	2	
5	3:43	1	5	1	10	2	15	35	0	0	3	
6	3:21	1	5	1	3	2	8	28	0	0	3	
7	3:26	1	6	1	2	2	8	28	1	6	2	
8		-	-	-	-	-	-	-	-	-		M
9	2:13	1	8	1	3	2	11	31	1	8	3	
10		-	-	-	-	-	-	-	-	-		C
11		-	-	-	-	-	-	-	-	-		C
12	2:41	1	3	2	16	3	19	49	1	10	3	
13		-	-	-	-	-	-	-	-	-		C
14	3:21	0	0	3	26	3	26	56	2	14	3	
15		-	-	-	-	-	-	-	-	-		M
16	1:06	3	9	4	35	7	44	114	3	11	4	
17		-	-	-	-	-	-	-	-	-		C
18		-	-	-	-	-	-	-	-	-		C
19	4:50	0	0	3	18	3	18	48	2	17	1 - 2	
20	2:41	1	2	2	23	3	25	55	3	25	3	
21	3:50	0	0	3	18	3	18	48	3	8	1	
22		-	-	-	-	-	-	-	-	-		C-R
23	4:10	0	0	4	27	4	27	67	2	22	2	
24	- 45	0	0	4	36	4	36	76	1	29	3	
25		-	-	-	-	-	-	-	-	-		R-C
26		-	-	-	-	-	-	-	-	-		R
27	3:41	1	2	2	19	3	21	51	1	4	3 - 4	
28	0:29	1	2	2	16	3	18	48	1	3	3	
29	3:50	3	10	2	9	5	19	69	1	3	2 - 3	
30	1:09	2	10	2	5	4	15	55	2	5	3	

Sum                      236                      756                      992                      507

Mean                      12.4                      39.8                      52.2                      26.7

                    8.9                      28.6                      37.6

Days 19

POLAR FACULA

N	S
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3cm Refractor X67 Projection 15cm

0.41	0.24
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0.65

MONTHLY REPORT OF SUNSPOT OBSERVATION

JULY 1984 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	0h55m	2	13	1	3	3	16	46	1	5	4	
2	2:22	2	15	1	3	3	18	48	1	7	3	
3	3:02	4	20	1	2	5	22	72	2	15	3	
4	3:42	4	19	3	10	7	29	99	2	12	4	
5	2:38	4	17	2	9	6	26	86	1	8	2	
6		-	-	-	-	-	-	-	-	-	-	M
7	2:39	6	11	1	7	7	18	88	6	11	5	
8		-	-	-	-	-	-	-	-	-	-	R
9		-	-	-	-	-	-	-	-	-	-	M
10	0:41	2	8	3	23	5	31	81	2	19	3	
11	2:00	0	0	3	17	3	17	47	2	16	2	
12	1:56	0	0	4	20	4	20	60	1	8	4	
13		-	-	-	-	-	-	-	-	-	-	M
14	2:00	0	0	3	10	3	10	40	2	9	1 - 2	
15	2:35	0	0	3	7	3	7	37	1	2	2	
16		-	-	-	-	-	-	-	-	-	-	C
17		-	-	-	-	-	-	-	-	-	-	C
18		-	-	-	-	-	-	-	-	-	-	C
19	3:16	0	0	1	3	1	3	13	0	0	4	
20	3:09	1	3	2	4	3	7	37	2	4	5	
21		-	-	-	-	-	-	-	-	-	-	M
22	0:02	0	0	1	11	1	11	21	1	11	3	
23	2:43	0	0	2	9	2	9	29	1	4	3	
24	2:50	1	2	2	7	3	9	39	0	0	2	
25	3:25	1	1	2	8	3	9	39	0	0	2	
26	3:40	0	0	2	4	2	4	24	0	0	1	
27	1:54	0	0	1	2	1	2	12	1	2	2	
28	1:07	0	0	1	2	1	2	12	1	2	3	
29	3:35	0	0	2	3	2	3	23	2	3	4	
30	2:26	0	0	2	2	2	2	22	1	1	2 - 3	
31	2:40	0	0	1	2	1	2	12	0	0	2	
Sum		379		608		987			439			
Mean		16.5		26.4		42.9			19.1			

Days 23

8cm Refractor X67 Projection 15cm

POLAR FACULAE	
N	S
1.55	0.35
1.90	

MONTHLY REPORT OF SUNSPOT OBSERVATION

August 1984 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		-	-	-	-	-	-	-	-	-		
2	04m	0	0	1	4	1	4	14	0	0	3	M
3	3h50m	0	0	1	7	1	7	17	0	0	2	
4	2:15	1	3	1	4	2	7	27	1	4	2	
5	3:04	1	2	0	0	1	2	12	0	0	2	
6	4:08	1	3	1	1	2	4	24	0	0	2 - 3	
7		-	-	-	-	-	-	-	-	-		
8	3:12	3	18	0	0	3	18	48	2	17	3	C
9	1:46	1	25	0	0	1	25	35	1	25	2 - 3	
10	4:16	2	22	0	0	2	22	42	2	22	2	
11	1:55	2	18	0	0	2	18	38	2	18	2	
12	3:54	3	12	0	0	3	12	42	3	12	2 - 3	
13		-	-	-	-	-	-	-	-	-		
14	0:01	2	10	0	0	2	10	30	1	5	3	M
15	0:30	3	4	0	0	3	4	34	2	2	3	
16	1:45	2	2	0	0	2	2	22	0	0	3	
17	3:41	0	0	1	2	1	2	12	0	0	3	
18	2:51	1	2	1	2	2	4	24	0	0	4	
19	2:29	0	0	1	2	1	2	12	0	0	2	
20	1:51	0	0	2	3	2	3	23	0	0	4	
21	2:39	0	0	1	2	1	2	12	1	2	3	
22		-	-	-	-	-	-	-	-	-		
23	1:50	0	0	2	5	2	5	25	2	5	3	C
24	4:07	0	0	2	9	2	9	29	2	9	2 - 3	
25	3:27	0	0	3	15	3	15	45	1	12	4	
26	2:26	0	0	3	21	3	21	51	1	9	2 - 3	
27		-	-	-	-	-	-	-	-	-		
28	2:27	0	0	2	23	2	23	43	0	0	3	R-C
29	2:48	0	0	2	19	2	19	39	1	15	3	
30	3:07	0	0	1	21	1	21	31	1	21	2 - 3	
31	2:38	0	0	1	23	1	23	33	1	23	2 - 3	

Sum	341	423	764	441
Mean	13.1	16.3	29.4	17.0

Days 26 84 117 212  
 8cm Refractor X67 Projection 15cm  
POLAR FACULAE  
 N S  
1.04 0.12  
1.15



MONTHLY REPORT OF SUNSPOT OBSERVATION

SEPTEMBER 1984 Observer - K. Fujimori Suwa City, Nagano

Date	Time U. T.	N		S		Total 10g+f		Cent. g f	Seeing 5 - 1	Remarks	
		g	f	g	f	g	f				R
1	3h06m	1	1	1	29	2	30	50	1 29	2	
2	2:49	1	1	1	24	2	25	45	1 7	3	
3	5:15	2	4	3	27	5	31	81	1 7	1	
4	0:37	2	2	3	30	5	32	82	2 12	4	
5	2:39	2	9	2	12	4	21	61	2 9	3	
6	0:20	2	6	2	4	4	10	50	1 4	3	
7		-	-	-	-	-	-	-	- -	-	
8	4:50	1	4	2	3	3	7	37	1 1	2	C
9		-	-	-	-	-	-	-	- -	-	
10	2:37	0	0	1	2	1	2	12	1 2	3	R
11	2:20	0	0	1	1	1	1	11	1 1	2	
12	1:42	0	0	0	0	0	0	0	0 0	3	
13	3:20	0	0	0	0	0	0	0	0 0	3 - 2	
14		-	-	-	-	-	-	-	- -	-	R
15		-	-	-	-	-	-	-	- -	-	R
16		-	-	-	-	-	-	-	- -	-	C
17	2:14	0	0	0	0	0	0	0	0 0	2	
18		-	-	-	-	-	-	-	- -	-	C
19		-	-	-	-	-	-	-	- -	-	R
20	3:41	0	0	0	0	0	0	0	0 0	2	
21	1:04	0	0	0	0	0	0	0	0 0	2	
22	2:27	0	0	1	1	1	1	11	0 0	2 - 3	
23	2:24	0	0	1	1	1	1	11	0 0	2	
24	2:04	0	0	0	0	0	0	0	0 0	3	
25	-1:40	0	0	0	0	0	0	0	0 0	3	
26		-	-	-	-	-	-	-	- -	-	M
27	2:50	0	0	0	0	0	0	0	0 0	2 - 3	
28	2:56	0	0	0	0	0	0	0	0 0	2	
29	3:02	0	0	0	0	0	0	0	0 0	2 - 3	
30	2:52	0	0	0	0	0	0	0	0 0	2	

Sum                      137                  314                                  451                  182

Mean                      6.2                  14.3                                  20.5                  8.3

Days   22      *9.5      10.3      17.8*

POLAR FACULAE

N    S

8cm Refractor X67 Projection 15cm      1.90                  0.00

1.90

MONTHLY REPORT OF SUNSPOT OBSERVATION

OCTOBER 1984 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	2h38m	0	0	0	0	0	0	0	0	0	2	
2	2:55	0	0	0	0	0	0	0	0	0	3	
3		-	-	-	-	-	-	-	-	-		R
4		-	-	-	-	-	-	-	-	-		C
5	- 37	0	0	0	0	0	0	0	0	0	3 - 4	
6	1:29	0	0	0	0	0	0	0	0	0	3	
7	3:29	0	0	0	0	0	0	0	0	0	2 - 3	
8	3:35	0	0	0	0	0	0	0	0	0	3	
9	3:40	0	0	1	5	1	5	15	1	5	1	
10		-	-	-	-	-	-	-	-	-		C
11		-	-	-	-	-	-	-	-	-		C
12		-	-	-	-	-	-	-	-	-		C
13		-	-	-	-	-	-	-	-	-		C
14	3:04	0	0	1	1	1	1	11	0	0	2 - 3	
15	2:49	1	2	0	0	1	2	12	0	0	2 - 3	
16	3:50	1	11	0	0	1	11	21	0	0	3	
17		-	-	-	-	-	-	-	-	-		R
18	1:55	1	14	0	0	1	14	24	1	14	2 - 3	
19		-	-	-	-	-	-	-	-	-		C-R
20		-	-	-	-	-	-	-	-	-		R-C
21	3:25	2	11	0	0	2	11	31	2	11	3	
22	3:12	1	4	0	0	1	4	14	1	1	2 - 3	
23	3:23	1	2	0	0	1	2	12	0	0	3	
24	3:10	1	2	0	0	1	2	12	0	0	2	
25	5:14	1	2	0	0	1	2	12	0	0	3	
26	3:33	0	0	0	0	0	0	0	0	0	3	
27	3:01	0	0	0	0	0	0	0	0	0	3	
28	3:40	0	0	0	0	0	0	0	0	0	1	
29	1:53	0	0	0	0	0	0	0	0	0	3	
30	4:25	0	0	0	0	0	0	0	0	0	2	
31	3:24	0	0	0	0	0	0	0	0	0	2	
Sum		138		26		164			81			
Mean		6.3		1.2		7.5			3.7			

Days <sup>7.5</sup> 22 <sup>0.9</sup> <sup>5.4</sup>

8cm Refractor X67 Projection 15cm

POLAR FACULAE	
N	S
0.65	0.35
1.00	

MONTHLY REPORT OF SUNSPOT OBSERVATION

NOVEMBER 1984 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	3h05m	0	0	0	0	0	0	0	0	0	2	
3	2:55	0	0	0	0	0	0	0	0	0	2	
4	2:05	0	0	1	5	1	5	15	0	0	3	
5	3:18	0	0	2	2	2	2	22	0	0	2 - 3	
6	5:19	0	0	0	0	0	0	0	0	0	5	
7	2:15	0	0	0	0	0	0	0	0	0	2 - 3	
8	2:16	0	0	0	0	0	0	0	0	0	3	
9	3:42	1	5	0	0	1	5	15	1	2	3	
10	3:11	1	9	0	0	1	9	19	1	9	3	
11		-	-	-	-	-	-	-	-	-		R
12	3:41	1	10	0	0	1	10	20	1	10	2	
13	1:15	1	5	0	0	1	5	15	1	5	2 - 3	
14	1:53	1	6	1	1	2	7	27	0	0	4	
15		-	-	-	-	-	-	-	-	-		R
16	2:37	0	0	1	2	1	2	12	1	2	2	
17	2:03	0	0	1	2	1	2	12	1	2	2 - 3	
18		-	-	-	-	-	-	-	-	-		M
19		-	-	-	-	-	-	-	-	-		C
20		-	-	-	-	-	-	-	-	-		R-C
21	0:31	1	10	1	4	2	14	34	1	10	3	
22	1:33	1	8	1	5	2	13	33	0	0	2	
23	1:16	1	6	2	11	3	17	47	0	0	2	
24		-	-	-	-	-	-	-	-	-		C
25	3:34	1	2	3	27	4	29	69	1	19	2	
26	0:14	0	0	2	25	2	25	45	2	20	3	
27	2:45	0	0	2	19	2	19	39	2	19	2	
28	- 41	0	0	2	27	2	27	47	2	27	4	
29	1:55	0	0	2	19	2	19	39	2	10	2 - 3	
30	0:46	0	0	1	8	1	8	18	0	0	3 - 4	
Sum		151		377		528			295			
Mean		6.6		16.4		23.0			12.8			

Days 23 4-8 11-8 16-6

8cm Refractor X67 Projection 15cm 0.35 0.78

1.13

POLAR FACULAE  
N S

MONTHLY REPORT OF SUNSPOT OBSERVATION

DECEMBER 1984 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		
1		-	-	-	-	-	-	-	-	-	C
2	0h00m	0	0	2	7	2	7	27	0	0	4
3	1:50	1	1	2	2	3	3	33	0	0	3
4	- 24	1	6	1	1	2	7	27	0	0	2 - 3
5	2:53	1	5	1	1	2	6	26	0	0	1 - 2
6		-	-	-	-	-	-	-	-	-	C
7	1:58	1	1	1	6	2	7	27	2	7	3
8	4:03	0	0	2	7	2	7	27	1	5	2
9	1:19	0	0	2	6	2	6	26	2	6	4
10	0:15	1	1	0	0	1	1	11	1	1	4
11		-	-	-	-	-	-	-	-	-	R
12		-	-	-	-	-	-	-	-	-	C
13	2:36	1	2	1	11	2	13	33	1	11	3
14	3:30	1	3	1	7	2	10	30	0	0	2
15	4:33	1	3	1	7	2	10	30	1	1	2
16		-	-	-	-	-	-	-	-	-	C-S
17	1:56	1	8	1	4	2	12	32	1	8	4
18		-	-	-	-	-	-	-	-	-	R
19	3:42	1	2	0	0	1	2	12	1	2	3
20	2:57	1	2	0	0	1	2	12	0	0	2
21	1:06	2	3	0	0	2	3	23	1	1	3
22	4:50	0	0	0	0	0	0	0	0	0	1 - 2
23	3:30	0	0	0	0	0	0	0	0	0	1 - 2
24	1:02	0	0	1	2	1	2	12	1	2	2 - 3
25	4:19	0	0	2	5	2	5	25	1	3	2
26	2:17	0	0	2	6	2	6	26	1	3	4
27	4:20	0	0	1	1	1	1	11	1	1	1
28		-	-	-	-	-	-	-	-	-	C
29	0:43	0	0	1	3	1	3	13	1	3	3 - 4
30	1:31	0	0	0	0	0	0	0	0	0	3
31	1:27	0	0	1	1	1	1	11	1	1	3

Sum                    167            307                    474    225

Mean                    7.0            12.8                    19.8    9.4

Days 24

8cm Refractor X67 Projection 15cm

POLAR FACULAE	
N	S
0.20	0.50
0.70	

5.0      9.2      19.3