

MONTHLY REPORT OF SUNSPOT OBSERVATION

JANUARY 1998 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	4h25m	1	10	2	12	3	22	52	1	8	2 - 3	
3	2:24	1	13	1	5	2	18	38	0	0	3	
4		-	-	-	-	-	-	-	-	-		C
5	3:31	1	5	0	0	1	5	15	0	0	2	
6		-	-	-	-	-	-	-	-	-		C
7	3:25	0	0	0	0	0	0	0	0	0	2	
8		-	-	-	-	-	-	-	-	-		S
9	3:55	0	0	0	0	0	0	0	0	0	2 - 3	
10	3:50	0	0	0	0	0	0	0	0	0	1	
11		-	-	-	-	-	-	-	-	-		C
12		-	-	-	-	-	-	-	-	-		S
13	3:33	0	0	3	40	3	40	70	2	39	4	
14		-	-	-	-	-	-	-	-	-		M
15		-	-	-	-	-	-	-	-	-		S
16	4:11	1	6	3	35	4	41	81	2	9	2	
17	4:40	1	6	4	24	5	30	80	2	3	2	
18		-	-	-	-	-	-	-	-	-		R
19	4:02	1	2	4	10	5	12	62	1	2	2 - 3	
20	2:18	1	1	1	3	2	4	24	1	3	3 - 4	
21	2:46	1	5	1	1	2	6	26	1	1	3	
22	3:08	1	2	2	5	3	7	37	2	5	3	
23		-	-	-	-	-	-	-	-	-		C
24		-	-	-	-	-	-	-	-	-		M
25	2:14	3	9	3	39	6	48	108	2	19	2	
26	4:52	3	18	3	33	6	51	111	1	1	2	
27	5:04	2	11	2	27	4	38	78	1	3	2	
28	4:30	2	16	2	22	4	38	78	2	21	2	
29	3:58	2	11	2	22	4	33	73	2	7	2 - 3	
30	2:36	1	5	1	5	2	10	30	1	5	1 - 2	
31	5:22	1	2	1	4	2	6	26	0	0	1	
Sum			352		637			989		336		
Mean			17.6		31.9			49.5		16.8		

Days 20

8cm Refractor X67 Projection 15cm

POLAR FACULAE(Days 16)

<u>N</u>	<u>S</u>
0.25	0.50

0.75

MONTHLY REPORT OF SUNSPOT OBSERVATION

FEBRUARY 1998 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	3h10m	0	0	1	2	1	2	12	0	0	2	
2	2:51	1	2	2	6	3	8	38	1	3	2 - 3	
3	3:40	1	1	2	4	3	5	35	0	0	1 - 2	
4	4:06	1	9	1	4	2	13	33	0	0	3	
5	1:47	1	5	1	4	2	9	29	0	0	3	
6	3:40	1	4	2	7	3	11	41	0	0	4	
7	0:50	0	0	2	7	2	7	27	0	0	1 - 2	
8	3:30	0	0	2	6	2	6	26	1	2	2	
9	4:43	0	0	2	7	2	7	27	1	2	1 - 2	
10		-	-	-	-	-	-	-	-	-		S-C
11	1:18	0	0	3	8	3	8	38	1	2	2	
12		-	-	-	-	-	-	-	-	-		R
13	3:57	0	0	3	25	3	25	55	0	0	3	
14		-	-	-	-	-	-	-	-	-		M
15		-	-	-	-	-	-	-	-	-		S
16	2:43	2	8	2	39	4	47	87	2	39	2 naked eye=1c	
17		-	-	-	-	-	-	-	-	-		C
18	1:10	2	9	1	24	3	33	63	2	24	2 naked eye=1c	
19	1:33	1	1	2	30	3	31	61	2	11	2	
20		-	-	-	-	-	-	-	-	-		R
21	6:53	0	0	2	10	2	10	30	0	0	2	
22	3:06	0	0	2	6	2	6	26	0	0	3	
23	0:20	1	2	2	15	3	17	47	1	1	2	
24		-	-	-	-	-	-	-	-	-		M
25		-	-	-	-	-	-	-	-	-		M
26		-	-	-	-	-	-	-	-	-		M
27		-	-	-	-	-	-	-	-	-		M
28		-	-	-	-	-	-	-	-	-		M
Sum		151		524		675			194			
Mean		8.9		30.8		39.7			11.4			

Days 17

POLAR FACULAE (Days 17)

8cm Refractor X67 Projection 15cm

<u>N</u>	<u>S</u>
0.00	0.47
<u>0.47</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

MARCH 1998 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	3h10m	2	7	4	40	6	47	107	2	30	2	
3	1:47	0	0	2	34	2	34	54	0	0	3	
4	4:00	1	5	1	24	2	29	49	0	0	5	
5		-	-	-	-	-	-	-	-	-		C
6	3:43	1	7	2	14	3	21	51	1	2	4	
7	5:31	2	9	2	8	4	17	57	0	0	2	
8	3:48	1	2	2	12	3	14	44	0	0	2	
9	2:11	1	2	2	21	3	23	53	1	12	4	
10	2:01	1	2	3	30	4	32	72	1	10	2	
11	3:06	1	2	4	38	5	40	90	1	8	3	
12		-	-	-	-	-	-	-	-	-		C
13	2:30	1	2	4	28	5	30	80	0	0	2	
14		-	-	-	-	-	-	-	-	-		M
15		-	-	-	-	-	-	-	-	-		M
16	4:29	0	0	4	76	4	76	116	2	60	2 - 3	naked eye=1c
17	1:17	0	0	3	69	3	69	99	2	63	3	naked eye=1c
18	2:38	1	1	4	49	5	50	100	2	10	2	naked eye=1c
19	1:50	1	11	3	53	4	64	104	0	0	2	naked eye=1c
20		-	-	-	-	-	-	-	-	-		R
21	3:44	2	13	5	43	7	56	126	0	0	2 - 3	
22	3:48	1	14	6	50	7	64	134	2	5	2	
23	2:05	1	12	5	40	6	52	112	3	19	2	
24	3:36	1	20	4	45	5	65	115	2	15	2 - 3	
25	3:54	1	16	4	43	5	59	109	3	9	3	
26	3:40	2	17	3	49	5	66	116	3	38	3 - 4	naked eye=1c
27		-	-	-	-	-	-	-	-	-		R
28	3:10	2	11	3	46	5	57	107	3	46	2 - 3	naked eye=1c
29	2:45	2	9	4	41	6	50	110	2	22	4	naked eye=1b
30	3:33	1	2	4	36	5	38	88	1	11	4	naked eye=1c
31	2:38	0	0	5	48	5	48	98	0	0	2	
Sum			424		1767			2191		670		
Mean			17.7		73.6			91.3		27.9		

Days 24

8cm Refractor X67 Projection 15cm

POLAR FACULAE (Days 23)

<u>N</u>	<u>S</u>
0.00	0.87
<u>0.87</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

APRIL 1998 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-S
2		-	-	-	-	-	-	-	-	-		R-C
3	3h29m	0	0	4	53	4	53	93	1	40	3	
4	1:52	0	0	3	44	3	44	74	1	35	4	
5	2:25	0	0	3	39	3	39	69	1	18	2	
6		-	-	-	-	-	-	-	-	-		R
7	4:54	2	8	5	52	7	60	130	1	33	2	
8		-	-	-	-	-	-	-	-	-		C
9		-	-	-	-	-	-	-	-	-		R
10	1:05	1	1	9	86	10	87	187	5	36	4	
11	4:21	0	0	9	71	9	71	161	3	35	3	
12	1:37	0	0	10	75	10	75	175	7	51	3	
13		-	-	-	-	-	-	-	-	-		C-R
14		-	-	-	-	-	-	-	-	-		R
15	6:25	1	16	4	27	5	43	93	2	13	2	
16	3:36	1	17	4	21	5	38	88	1	12	2	
17		-	-	-	-	-	-	-	-	-		C-R
18		-	-	-	-	-	-	-	-	-		C
19	3:20	2	26	0	0	2	26	46	1	17	3	
20	8:00	2	20	0	0	2	20	40	0	0	2	
21	5:50	2	22	1	3	3	25	55	1	3	3	
22	4:12	2	15	0	0	2	15	35	1	1	3 - 4	
23		-	-	-	-	-	-	-	-	-		C
24		-	-	-	-	-	-	-	-	-		R
25	6:50	0	0	1	6	1	6	16	0	0	3	
26		-	-	-	-	-	-	-	-	-		M
27	3:00	0	0	1	8	1	8	18	0	0	2	
28	1:56	0	0	2	15	2	15	35	0	0	3	
29	3:26	0	0	2	28	2	28	48	1	16	4 - 5	
30	4:24	1	8	2	17	3	25	55	1	16	3	
Sum		273		1145		1418			596			
Mean		15.2		63.6		78.8			33.1			

Days 18

8cmRefractor X67 Projection 15cm

POLAR FACULAE(Days 18)

<u>N</u>	<u>S</u>
0.06	0.50
<u>0.56</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

MAY 1998 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	3h21m	2	23	2	28	4	51	91	1	27	4	naked eye=1c
2		-	-	-	-	-	-	-	-	-	-	C
3	6:24	1	46	2	24	3	70	100	2	17	2 - 3	naked eye=1c
4	2:57	1	57	2	18	3	75	105	1	38	4	
5	2:50	1	51	2	15	3	66	96	1	24	2	
6	4:13	2	65	3	18	5	83	133	0	0	3	
7		-	-	-	-	-	-	-	-	-	-	M
8		-	-	-	-	-	-	-	-	-	-	R
9	1:39	1	16	2	26	3	42	72	1	2	3	
10		-	-	-	-	-	-	-	-	-	-	M
11		-	-	-	-	-	-	-	-	-	-	C
12		-	-	-	-	-	-	-	-	-	-	R
13	4:41	1	15	3	46	4	61	101	1	31	4	
14	7:50	1	21	3	42	4	63	103	1	21	3	
15		-	-	-	-	-	-	-	-	-	-	M
16	0:50	2	25	2	50	4	75	115	3	22	2	
17	4:07	1	27	2	41	3	68	98	2	50	3	
18		-	-	-	-	-	-	-	-	-	-	C
19	2:06	1	20	3	17	4	37	77	2	20	3 - 4	
20	3:55	2	20	2	9	4	29	69	0	0	3 - 4	
21	2:59	1	10	1	2	2	12	32	0	0	3	
22	3:30	2	11	0	0	2	11	31	0	0	5	
23	4:06	2	11	1	1	3	12	42	1	8	3	
24		-	-	-	-	-	-	-	-	-	-	R
25		-	-	-	-	-	-	-	-	-	-	R
26		-	-	-	-	-	-	-	-	-	-	C
27	2:18	2	23	2	6	4	29	69	1	3	3	
28	3:30	2	22	0	0	2	22	42	0	0	2	
29		-	-	-	-	-	-	-	-	-	-	R
30	4:20	1	10	1	3	2	13	33	0	0	2 - 3	
31	2:05	1	12	3	24	4	36	76	1	12	3	
Sum		755		730		1485			455			
Mean		39.7		38.4		78.2			23.9			

Days 19

8cm Refractor X67 Projection 15cm

POLAR FACULAE(Days 18)

<u>N</u>	<u>S</u>
0.22	0.50
0.72	

MONTHLY REPORT OF SUNSPOT OBSERVATION

JUNE 1998 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	2h10m	1	12	2	23	3	35	65	1	12	4	
2		-	-	-	-	-	-	-	-	-	-	C
3	8:23	2	15	3	20	5	35	85	1	17	3	
4	1:54	3	14	3	25	6	39	99	1	21	3	
5		-	-	-	-	-	-	-	-	-	-	C
6	3:05	5	23	2	25	7	48	118	3	28	3 - 4	naked eye=1c
7	3:40	2	12	4	34	6	46	106	3	26	3	naked eye=1c
8	3:32	2	11	4	30	6	41	101	4	26	3 - 4	naked eye=1c
9		-	-	-	-	-	-	-	-	-	-	C
10		-	-	-	-	-	-	-	-	-	-	C
11	5:52	1	2	4	30	5	32	82	1	7	3	
12	3:20	2	11	5	32	7	43	113	2	8	4	
13		-	-	-	-	-	-	-	-	-	-	C
14		-	-	-	-	-	-	-	-	-	-	R
15	4:10	2	9	2	6	4	15	55	0	0	2	
16	4:00	2	12	2	6	4	18	58	1	4	1 - 2	
17	2:34	2	29	3	7	5	36	86	3	17	4	
18	3:06	3	17	3	8	6	25	85	3	10	4 - 5	
19		-	-	-	-	-	-	-	-	-	-	R
20	1:49	3	21	1	2	4	23	63	2	18	3	
21		-	-	-	-	-	-	-	-	-	-	C-R
22		-	-	-	-	-	-	-	-	-	-	R
23	5:50	3	17	2	4	5	21	71	1	2	2	
24	3:30	2	13	1	3	3	16	46	0	0	1 - 2	
25	6:16	3	22	3	8	6	30	90	0	0	3	
26		-	-	-	-	-	-	-	-	-	-	C
27		-	-	-	-	-	-	-	-	-	-	R
28		-	-	-	-	-	-	-	-	-	-	C
29	2:06	4	31	6	29	10	60	160	2	26	3	
30	2:23	3	17	8	29	11	46	156	4	17	3	
Sum			738		901			1639		559		
Mean			41.0		50.1			91.1		31.1		

Days 18

POLAR FACULAE(Days 14)

8cm Refractor X67 Projection 15cm

<u>N</u>	<u>S</u>
0.57	0.00
<u>0.57</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

JULY 1998 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		-	-	-	-	-	-	-	-	-		M
2	4h17m	3	20	6	33	9	53	143	3	12	3	
3	2:57	3	18	5	28	8	46	126	3	21	3	
4	3:06	3	21	5	55	8	76	156	2	26	3 - 4	
5	2:18	2	14	5	46	7	60	130	4	33	3	
6	4:00	4	15	4	23	8	38	118	2	16	2	
7	1:53	3	14	3	9	6	23	83	2	13	2 - 3	
8	4:04	3	17	1	4	4	21	61	1	11	3	
9	3:54	1	5	1	10	2	15	35	0	0	3	
10		-	-	-	-	-	-	-	-	-		R
11	5:10	2	4	2	10	4	14	54	0	0	1 - 2	
12	0:59	2	6	3	22	5	28	78	0	0	3	
13	2:51	1	4	3	24	4	28	68	1	1	3 - 4	
14	3:35	1	3	2	19	3	22	52	3	5	3 - 4	
15	3:31	1	5	3	19	4	24	64	3	23	3 - 4	
16		-	-	-	-	-	-	-	-	-		R
17	3:42	0	0	3	23	3	23	53	2	15	1 - 2	
18	2:11	1	1	4	27	5	28	78	1	12	4	
19	4:26	0	0	3	18	3	18	48	0	0	3	
20		-	-	-	-	-	-	-	-	-		C
21	2:20	1	2	5	24	6	26	86	0	0	2	
22	1:40	3	10	5	42	8	52	132	0	0	2 - 3	
23	1:48	3	18	5	35	8	53	133	1	8	3 - 4	
24		-	-	-	-	-	-	-	-	-		C
25	1:54	4	41	1	18	5	59	109	2	9	3	
26	1:50	3	32	1	16	4	48	88	2	7	1 - 2	
27		-	-	-	-	-	-	-	-	-		M
28		-	-	-	-	-	-	-	-	-		R
29	3:53	6	43	1	9	7	52	122	3	29	3	
30		-	-	-	-	-	-	-	-	-		C
31	2:07	4	26	2	5	6	31	91	0	0	3	
Sum		859		1249		2108			591			
Mean		37.3		54.3		91.7			25.7			

Days 23

8cm Refractor X67 Projection 15cm

POLAR FACULAE (Days 20)

<u>N</u>	<u>S</u>
<u>0.60</u>	<u>0.00</u>
<u>0.60</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

AUGUST 1998 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		-	-	-	-	-	-	-	-	-		M
2	2h40m	3	9	2	5	5	14	64	1	2	2	
3	4:12	4	13	3	12	7	25	95	3	10	3	
4	1:44	5	28	1	19	6	47	107	3	22	3	
5		-	-	-	-	-	-	-	-	-		M
6		-	-	-	-	-	-	-	-	-		M
7	3:50	7	30	1	43	8	73	153	2	13	2 - 3	
8	4:33	5	16	1	53	6	69	129	1	45	2 - 3	
9	2:41	4	34	3	76	7	110	180	2	53	3 - 4	
10	4:09	4	37	4	74	8	111	191	3	13	3	
11		-	-	-	-	-	-	-	-	-		C
12		-	-	-	-	-	-	-	-	-		C
13		-	-	-	-	-	-	-	-	-		R
14	3:08	4	40	5	21	9	61	151	6	42	3	naked eye=1c
15		-	-	-	-	-	-	-	-	-		C
16	5:50	3	27	4	15	7	42	112	3	10	1 - 2	
17		-	-	-	-	-	-	-	-	-		C
18	6:10	3	15	5	11	8	26	106	0	0	1 - 2	
19	5:22	5	24	5	11	10	35	135	1	7	2 - 3	
20	3:04	4	31	6	13	10	44	144	1	7	2 - 3	
21	2:00	4	37	5	10	9	47	137	2	19	3	
22	3:21	4	38	3	9	7	47	117	1	12	2 - 3	
23	3:21	4	52	3	7	7	59	129	1	19	3	
24	1:37	4	48	2	4	6	52	112	3	30	3	naked eye=1c
25	1:04	4	45	2	5	6	50	110	2	25	4	naked eye=1c
26	4:32	5	37	2	5	7	42	112	3	27	2	
27		-	-	-	-	-	-	-	-	-		R
28	1:15	5	62	1	2	6	64	124	2	41	3	
29		-	-	-	-	-	-	-	-	-		C
30		-	-	-	-	-	-	-	-	-		R
31		-	-	-	-	-	-	-	-	-		R
Sum		1433		975		2408		797				
Mean		75.4		51.3		126.7		41.9				

Days 19

POLAR FACULAE (Days 15)

8cm Refractor X67 Projection 15cm

<u>N</u>	<u>S</u>
0.73	0.00
<u>0.73</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

SEPTEMBER 1998 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	3h51m	4	50	1	47	5	97	147	1	2	3	
2	3:31	3	40	1	57	4	97	137	1	3	3	naked eye=1b
3	3:19	5	24	2	55	7	79	149	2	13	4 - 5	naked eye=1b
4	6:31	3	8	1	50	4	58	98	1	50	2 - 3	naked eye=1b
5	3:56	4	20	2	67	6	87	147	1	35	3	naked eye=1b
6		-	-	-	-	-	-	-	-	-		C
7		-	-	-	-	-	-	-	-	-		R
8	2:32	5	64	5	59	10	123	223	3	52	5	
9	4:12	6	69	5	41	11	110	220	6	62	3	
10	2:54	6	76	3	18	9	94	184	6	55	4 - 5	
11	5:46	7	75	3	11	10	86	186	8	51	3 - 4	
12	4:24	4	58	3	24	7	82	152	2	38	4 - 5	
13	6:05	4	46	4	23	8	69	149	2	37	3	
14	3:00	4	41	4	20	8	61	141	1	35	3	
15		-	-	-	-	-	-	-	-	-		C-R
16	3:40	2	14	6	20	8	34	114	0	0	3 - 4	
17		-	-	-	-	-	-	-	-	-		M
18	1:42	2	11	4	14	6	25	85	1	9	2 - 3	
19	1:24	4	25	4	35	8	60	140	2	6	3	
20	4:05	5	40	5	49	10	89	189	2	13	3	
21		-	-	-	-	-	-	-	-	-		C
22		-	-	-	-	-	-	-	-	-		R
23		-	-	-	-	-	-	-	-	-		M
24	5:30	4	38	3	18	7	56	126	5	41	1 - 2	
25		-	-	-	-	-	-	-	-	-		C
26		-	-	-	-	-	-	-	-	-		C
27		-	-	-	-	-	-	-	-	-		R
28		-	-	-	-	-	-	-	-	-		C
29		-	-	-	-	-	-	-	-	-		C
30		-	-	-	-	-	-	-	-	-		C
Sum		1419		1168		2587			942			
Mean		83.5		68.7		152.2			55.4			

Days 17

POLAR FACULAE (Days 16)

8cm Refractor X67 Projection 15cm

<u>N</u>	<u>S</u>
1.50	0.19
<u>1.69</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

OCTOBER 1998 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	1h21m	1	7	1	4	2	11	31	0	0	2	
3	3:08	1	7	1	4	2	11	31	0	0	4	
4	4:05	1	13	0	0	1	13	23	0	0	2	
5		-	-	-	-	-	-	-	-	-	-	M
6		-	-	-	-	-	-	-	-	-	-	M
7		-	-	-	-	-	-	-	-	-	-	C-R
8		-	-	-	-	-	-	-	-	-	-	M
9		-	-	-	-	-	-	-	-	-	-	M
10		-	-	-	-	-	-	-	-	-	-	M
11	4:06	1	18	2	21	3	39	69	0	0	3	
12	3:30	2	4	1	19	3	23	53	2	20	1 - 2	
13		-	-	-	-	-	-	-	-	-	-	C
14		-	-	-	-	-	-	-	-	-	-	R-C
15	1:40	4	19	2	27	6	46	106	3	35	2	
16		-	-	-	-	-	-	-	-	-	-	C
17		-	-	-	-	-	-	-	-	-	-	R
18		-	-	-	-	-	-	-	-	-	-	M
19	2:27	6	57	2	13	8	70	150	2	24	2	
20		-	-	-	-	-	-	-	-	-	-	C
21		-	-	-	-	-	-	-	-	-	-	R
22	3:27	2	19	1	20	3	39	69	1	16	1 - 2	
23	3:30	1	13	2	25	3	38	68	2	18	1 - 2	
24	5:45	1	9	2	26	3	35	65	1	4	2 - 3	
25	0:36	3	6	2	15	5	21	71	1	1	3	
26		-	-	-	-	-	-	-	-	-	-	M
27	2:49	1	11	0	0	1	11	21	0	0	2	
28	2:01	2	11	1	1	3	12	42	1	6	2 - 3	
29	4:20	3	10	2	5	5	15	65	2	5	1 - 2	
30	2:30	3	13	2	9	5	22	72	2	8	2	
31	2:11	3	11	2	6	5	17	67	2	5	3	
Sum		578		425		1003			332			
Mean		36.1		26.6		62.7			20.8			

Days 16

POLAR FACULAE (Days 10)

8cm Refractor X67 Projection 15cm

<u>N</u>	<u>S</u>
0.60	0.20
<u>0.80</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

NOVEMBER 1998 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	4h13m	4	14	1	3	5	17	67	2	4	2	
2	5:20	2	13	0	0	2	13	33	1	3	1 - 2	
3	2:44	3	24	0	0	3	24	54	1	19	3	naked eye=1c
4	3:37	4	44	2	16	6	60	120	3	50	3	naked eye=1c
5	2:58	3	54	3	18	6	72	132	2	45	4	naked eye=1c
6	2:32	4	78	3	21	7	99	169	2	67	3	naked eye=1c
7		-	-	-	-	-	-	-	-	-		C
8	1:01	5	62	2	6	7	68	138	3	16	3	
9	5:02	4	59	3	7	7	66	136	3	19	2 - 3	
10	3:07	4	37	2	8	6	45	105	3	10	2	
11	3:29	4	19	2	15	6	34	94	2	5	2 - 3	
12	2:12	3	18	2	23	5	41	91	0	0	2	
13	2:16	3	26	3	33	6	59	119	1	6	2	
14	2:36	5	25	3	33	8	58	138	1	13	3	naked eye=1c
15	2:36	5	17	3	44	8	61	141	2	21	4	naked eye=1c
16	3:00	4	10	3	39	7	49	119	3	32	2	naked eye=1c
17		-	-	-	-	-	-	-	-	-		R
18	3:24	2	7	3	30	5	37	87	2	7	2	
19	4:39	2	2	3	18	5	20	70	2	2	2	
20	3:30	0	0	3	31	3	31	61	0	0	2	
21	4:40	0	0	2	27	2	27	47	1	2	1 - 2	
22	2:30	0	0	3	30	3	30	60	1	21	3	
23	2:54	0	0	4	13	4	13	53	1	5	1 - 2	
24	2:31	2	4	4	23	6	27	87	2	7	2 - 3	
25	2:50	2	7	4	50	6	57	117	1	3	2	
26	2:01	4	29	4	50	8	79	159	1	6	3 - 4	
27		-	-	-	-	-	-	-	-	-		M
28	2:02	5	52	3	46	8	98	178	2	24	4 - 5	
29	2:30	6	63	2	35	8	98	178	3	41	2 - 3	
30		-	-	-	-	-	-	-	-	-		M
Sum		1464		1289		2753			878			
Mean		56.3		49.6		105.9			33.8			

Days 26

8cm Refractor X67 Projection 15cm

POLAR FACULAE (Days 22)

N	S
0.55	0.14
0.68	

MONTHLY REPORT OF SUNSPOT OBSERVATION

DECEMBER 1998 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	2h09m	7	67	1	15	8	82	162	5	64	2	
2	3:01	8	89	1	8	9	97	187	4	61	3	
3		-	-	-	-	-	-	-	-	-		C
4	3:50	8	61	1	5	9	66	156	3	29	2	
5		-	-	-	-	-	-	-	-	-		M
6		-	-	-	-	-	-	-	-	-		M
7		-	-	-	-	-	-	-	-	-		M
8		-	-	-	-	-	-	-	-	-		C
9	3:33	5	20	4	76	9	96	186	3	14	2	
10	3:19	5	18	5	83	10	101	201	2	18	3	
11	2:34	4	11	6	63	10	74	174	4	13	2	
12	2:56	3	6	4	71	7	77	147	2	28	1 - 2	
13	2:44	3	6	4	74	7	80	156	2	50	2	
14	2:05	2	3	4	74	6	77	137	3	68	2 - 3	
15	3:43	2	4	4	70	6	74	134	3	34	2	
16	3:25	2	5	4	59	6	67	124	2	2	2	
17	2:46	1	4	2	46	3	50	80	1	4	3	
18	2:11	2	28	2	33	4	61	101	1	12	2	
19	2:14	2	28	2	20	4	48	88	1	6	2	
20	3:29	3	25	2	7	5	32	82	0	0	1 - 2	
21	2:31	4	36	2	3	6	39	99	0	0	2	
22	2:38	3	26	0	0	3	26	56	1	12	1 - 2	
23	2:58	4	30	0	0	4	30	70	1	16	2	
24	2:34	5	33	0	0	5	33	83	1	2	2	
25	1:33	5	38	1	9	6	47	107	3	18	1 - 2	
26	2:16	5	57	2	16	7	73	143	2	33	3	
27	2:09	7	81	2	17	9	98	188	5	14	3	
28	2:54	6	118	2	26	8	144	224	4	7	3 - 4	naked eye=1c
29	2:47	5	114	1	21	6	135	195	3	40	3 - 4	naked eye=1c
30	3:46	5	116	2	20	7	136	206	3	80	3	naked eye=1b
31	4:10	5	83	1	9	6	92	152	3	16	1	naked eye=1c
Sum		2217		1415		3632			1261			
Mean		85.3		54.4		139.7			48.5			

Days 26

8cm Refractor X67 Projection 15cm

POLAR FACULAE(Days 24)

<u>N</u>	<u>S</u>
0.25	0.75
<u>1.00</u>	