

MONTHLY REPORT OF SUNSPOT OBSERVATION

JANUARY 1991 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		-	-	-	-	-	-	-	-	-		C
3	2h11m	4	10	7	46	11	56	166	6	44	2	
4	0:21	1	8	6	41	7	49	119	2	32	2	
5	2:44	2	13	7	44	9	57	147	2	21	3	
6		-	-	-	-	-	-	-	-	-		M
7	1:59	2	7	9	42	11	49	159	2	3	2 - 3	
8	1:41	3	15	6	39	9	54	144	3	9	2	
9	2:03	3	45	4	34	7	79	149	2	3	3	
10	4:50	3	54	5	21	8	75	155	3	5	1 - 2	
11	1:37	2	64	6	22	8	86	166	3	10	4	naked eye=2c
12	2:35	3	78	5	23	8	101	181	4	26	3	naked eye=1b,1c
13	1:37	4	81	6	45	10	126	226	4	78	3	naked eye=1a,1b
14	2:58	4	77	5	48	9	125	215	4	94	4	naked eye=1b,1c
15	2:09	2	57	5	50	7	107	177	5	92	4	naked eye=1b,1c
16	2:03	2	58	6	58	8	116	196	7	97	3	naked eye=1b
17		-	-	-	-	-	-	-	-	-		C-S
18	2:00	3	38	5	54	8	92	172	4	52	1 - 2	
19	2:22	3	32	7	66	10	98	198	3	33	4 - 5	
20	2:29	3	28	4	41	7	69	139	1	3	3	
21		-	-	-	-	-	-	-	-	-		S
22		-	-	-	-	-	-	-	-	-		C
23	1:53	3	18	6	66	9	84	174	1	5	3	
24	3:03	3	19	5	95	8	114	194	1	4	2 - 3	
25	2:33	3	16	8	123	11	139	249	4	34	2	naked eye=1c
26	1:31	3	21	8	144	11	165	275	6	132	3 - 4	naked eye=2c
27		-	-	-	-	-	-	-	-	-		M
28	2:31	8	46	7	167	15	213	363	7	167	2 - 3	naked eye=3c
29	2:16	5	45	7	183	12	228	348	7	149	2	naked eye=3c
30	1:35	6	57	7	192	13	249	379	7	150	3 - 4	naked eye=1a,2c
31	1:27	5	44	7	179	12	223	343	6	113	3	naked eye=1a,1c
Sum			1731		3303			5034		2296		
Mean			72.1		137.6			209.8		95.7		

Days 24

8cm Refractor X67 Projection 15cm

POLAR FACULAE(Days 21)

<u>N</u>	<u>S</u>
<u>0.14</u>	<u>0.24</u>
<u>0.38</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

FEBRUARY 1991 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	1h29m	4	25	7	127	11	152	262	3	52	2 - 3	naked eye=1a,1c
2	1:54	4	27	8	160	12	187	307	5	99	2	naked eye=1a
3	4:30	2	13	9	106	11	119	229	5	62	2	naked eye=1b
4	1:18	4	18	6	106	10	124	224	3	18	2 - 3	naked eye=1c
5	1:44	2	15	5	88	7	103	173	1	15	3	
6		-	-	-	-	-	-	-	-	-		M
7		-	-	-	-	-	-	-	-	-		M
8	5:10	2	51	5	21	7	72	142	3	17	1 - 2	
9	2:13	3	63	7	26	10	89	189	4	25	3	naked eye=1c
10		-	-	-	-	-	-	-	-	-		S
11	4:10	2	55	5	21	7	76	146	4	59	1 - 2	naked eye=1c
12	3:57	4	67	7	40	11	107	217	7	67	3 - 4	naked eye=1c
13	2:20	3	58	7	41	10	99	199	6	39	2	
14		-	-	-	-	-	-	-	-	-		C
15		-	-	-	-	-	-	-	-	-		C-R
16		-	-	-	-	-	-	-	-	-		C
17		-	-	-	-	-	-	-	-	-		C
18		-	-	-	-	-	-	-	-	-		C
19		-	-	-	-	-	-	-	-	-		C
20	5:10	4	18	10	135	14	153	293	4	66	2	
21	4:20	6	35	7	139	13	174	304	3	52	2	naked eye=1c
22	2:03	5	37	11	155	16	192	352	7	56	2 - 3	naked eye=1b
23	2:10	4	34	9	133	13	167	297	6	111	2	naked eye=1b,1c
24	2:07	4	19	8	142	12	161	281	7	115	2	naked eye=1b,1c
25	6:22	4	25	9	122	13	147	277	7	111	2 - 3	naked eye=1b,1c
26	1:11	5	24	8	112	13	136	266	9	112	2 - 3	naked eye=1b
27	3:54	4	32	6	101	10	133	233	5	74	4	naked eye=1b
28		-	-	-	-	-	-	-	-	-		R
Sum			1276		3115			4391		2040		
Mean			70.9		173.0			243.9		113.3		

Days 18

8cm Refractor X67 Projection 15cm

POLAR FACULAE (Days 15)

<u>N</u>	<u>S</u>
0.00	0.07
<u>0.07</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

MARCH 1991 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	1h20m	1	14	6	36	7	50	120	2	16	2	
3	1:43	3	17	5	16	8	33	113	2	17	2	
4	1:01	3	23	2	3	5	26	76	1	7	1 - 2	
5	3:41	4	20	3	12	7	32	102	1	2	4 - 5	
6	4:25	7	24	3	31	10	55	155	0	0	4	
7	2:37	6	20	4	50	10	70	170	1	2	2	
8		-	-	-	-	-	-	-	-	-		C-R
9		-	-	-	-	-	-	-	-	-		C
10	3:38	4	12	5	133	9	145	235	6	74	3 - 4	
11		-	-	-	-	-	-	-	-	-		R
12	2:31	1	3	7	149	8	152	232	5	130	4 - 5	naked eye=1c
13	2:39	1	2	8	137	9	139	229	6	103	3	naked eye=1c
14	4:22	1	2	9	151	10	153	253	5	76	2	naked eye=1c
15	1:24	1	2	11	147	12	149	269	3	78	3	naked eye=1b
16		-	-	-	-	-	-	-	-	-		S-R
17	0:42	1	10	9	119	10	129	229	2	65	2	naked eye=1c
18	5:07	1	15	10	110	11	125	235	4	62	4 - 5	naked eye=1c
19	1:59	2	24	9	102	11	126	236	7	63	4	naked eye=1c
20	3:00	2	16	8	110	10	126	226	4	28	1 - 2	
21		-	-	-	-	-	-	-	-	-		M
22		-	-	-	-	-	-	-	-	-		R
23	7:50	2	5	7	121	9	126	216	5	99	2	
24		-	-	-	-	-	-	-	-	-		M
25		-	-	-	-	-	-	-	-	-		R
26	4:43	2	5	10	151	12	156	276	9	124	5	naked eye=1a
27		-	-	-	-	-	-	-	-	-		R
28		-	-	-	-	-	-	-	-	-		R-C
29	2:22	3	26	8	100	11	126	236	3	13	4	
30		-	-	-	-	-	-	-	-	-		C
31		-	-	-	-	-	-	-	-	-		C
Sum			690		2918			3608		1619		
Mean			38.3		162.1			200.4		89.9		

Days 18

POLAR FACULAE(Days 14)

<u>N</u>	<u>S</u>
0.14	0.14

8cm Refractor X67 Projection 15cm

0.29

MONTHLY REPORT OF SUNSPOT OBSERVATION

APRIL 1991 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	7h40m	3	52	2	5	5	57	107	2	42	1 - 2	
2	4:39	2	59	1	34	3	93	123	2	72	2	
3	2:38	3	58	4	38	7	96	166	4	75	4	
4	4:13	4	70	5	44	9	114	204	4	98	5	
5	4:29	5	63	5	46	10	109	209	3	52	4 - 5	
6		-	-	-	-	-	-	-	-	-		C
7		-	-	-	-	-	-	-	-	-		R
8		-	-	-	-	-	-	-	-	-		R
9	2:55	9	34	8	41	17	75	245	8	26	3 - 4	
10		-	-	-	-	-	-	-	-	-		M
11		-	-	-	-	-	-	-	-	-		C
12		-	-	-	-	-	-	-	-	-		M
13		-	-	-	-	-	-	-	-	-		C
14	6:02	7	97	6	43	13	140	270	5	52	1 - 2	
15	4:41	7	129	7	59	14	188	328	6	124	2 - 3	naked eye=1c
16	5:15	6	99	5	60	11	159	269	6	102	3	naked eye=1c
17		-	-	-	-	-	-	-	-	-		M
18		-	-	-	-	-	-	-	-	-		C
19	1:34	4	81	9	46	13	127	257	10	58	2	
20	6:39	3	51	11	52	14	103	243	9	55	2 - 3	
21	2:25	4	35	8	41	12	76	196	6	32	3	
22	5:40	3	9	4	17	7	26	96	3	15	2	
23		-	-	-	-	-	-	-	-	-		M
24		-	-	-	-	-	-	-	-	-		C
25	5:10	0	0	2	11	2	11	31	1	9	2	
26		-	-	-	-	-	-	-	-	-		M
27		-	-	-	-	-	-	-	-	-		M
28	2:12	1	6	7	37	8	53	133	2	12	4 - 5	
29		-	-	-	-	-	-	-	-	-		M
30	3:55	2	25	9	43	11	68	178	4	20	3	
Sum		1508		1547		3055			1594			
Mean		94.2		96.7		190.9			99.6			

Days 16

POLAR FACULAE(Days 13)

8cm Refractor X67 Projection 15cm

<u>N</u>	<u>S</u>
0.00	0.08
<u>0.08</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

MAY 1991 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		-	-	-	-	-	-	-	-	-		M
3	5h05m	1	18	6	33	7	51	121	5	28	3	
4	3:01	1	16	5	45	6	61	121	4	46	3	
5	2:40	2	16	4	38	6	54	114	2	33	3	
6	1:50	3	16	4	51	7	67	137	2	44	2 - 3	naked eye=1b
7	4:41	3	20	3	41	6	61	121	1	36	3	naked eye=1b
8		-	-	-	-	-	-	-	-	-		C
9		-	-	-	-	-	-	-	-	-		R
10	- 44	5	53	3	28	8	81	161	1	4	2	naked eye=1b
11	3:40	7	63	5	29	12	92	212	5	46	2 - 3	naked eye=1b
12		-	-	-	-	-	-	-	-	-		R
13		-	-	-	-	-	-	-	-	-		M
14	1:55	7	38	5	35	12	73	193	9	57	3	naked eye=1c
15		-	-	-	-	-	-	-	-	-		C
16		-	-	-	-	-	-	-	-	-		C
17	4:57	5	24	5	29	10	53	153	2	8	3	
18	2:56	7	16	9	50	16	66	226	6	11	3	
19	3:20	4	14	7	44	11	58	168	5	33	2	
20	3:40	4	22	7	37	11	59	169	4	38	2	
21		-	-	-	-	-	-	-	-	-		C
22		-	-	-	-	-	-	-	-	-		M
23	3:27	4	29	5	28	9	57	147	6	28	3 - 4	
24	3:40	5	36	4	19	9	55	145	4	9	3 - 4	
25	2:35	4	44	5	24	9	68	158	2	12	2 - 3	
26		-	-	-	-	-	-	-	-	-		M
27		-	-	-	-	-	-	-	-	-		C
28	3:53	6	83	8	29	14	112	252	6	68	3	naked eye=1c
29	3:40	5	73	5	24	10	97	197	4	45	2 - 3	naked eye=1c
30	2:22	5	64	6	30	11	94	204	7	30	3 - 4	naked eye=1c
31		-	-	-	-	-	-	-	-	-		C
Sum		1425		1574		2999			1326			
Mean		79.2		87.4		166.6			73.7			

Days 18

POLAR FACULAE(Days 17)

N S

8cm Refractor X67 Projection 15cm

0.53 0.00

0.53

MONTHLY REPORT OF SUNSPOT OBSERVATION

JUNE 1991 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	g	f		
1		-	-	-	-	-	-	-	-		M
2		-	-	-	-	-	-	-	-		R
3		-	-	-	-	-	-	-	-		C
4	2h44m	9	68	5	36	14	104	244	2 7	3	
5	1:01	8	96	6	25	14	121	261	2 27	5	
6	4:29	8	92	3	20	11	112	222	5 48	2 - 3	naked eye=1b
7	1:45	8	88	3	22	11	110	220	5 41	2	naked eye=1a
8		-	-	-	-	-	-	-	-		M
9	3:15	8	111	7	46	15	157	307	10 87	3	naked eye=1a
10		-	-	-	-	-	-	-	-		R
11	5:10	10	87	9	77	19	164	354	8 79	3	naked eye=1a
12	1:21	8	65	8	72	16	137	297	7 47	4 - 5	naked eye=1a
13		-	-	-	-	-	-	-	-		C-R
14	4:14	3	37	10	62	13	99	229	5 36	2 - 3	
15	3:50	3	32	9	52	12	84	204	4 28	2	
16	2:38	3	33	9	58	12	91	211	5 37	3	
17		-	-	-	-	-	-	-	-		C
18	4:05	3	29	6	46	9	75	165	2 26	2	
19		-	-	-	-	-	-	-	-		C
20		-	-	-	-	-	-	-	-		R-C
21	4:30	3	27	6	48	9	75	165	3 27	2	
22		-	-	-	-	-	-	-	-		C-R
23		-	-	-	-	-	-	-	-		R
24		-	-	-	-	-	-	-	-		R
25		-	-	-	-	-	-	-	-		R-C
26	5:20	5	39	7	41	12	80	200	6 24	4 - 5	
27	3:38	6	46	4	44	10	90	190	3 70	3 - 4	naked eye=1c
28	6:27	6	53	7	50	13	103	233	8 88	3	naked eye=1c
29	5:20	6	58	5	57	11	115	225	8 103	3	naked eye=1c
30	3:15	5	55	7	55	12	110	230	7 91	3	naked eye=1c
Sum		2036		1921				3957	1766		
Mean		119.8		113.0				232.8	103.9		

Days 17

8cm Refractor X67 Projection 15cm

POLAR FACULAE (Days 16)

<u>N</u>	<u>S</u>
<u>0.56</u>	<u>0.06</u>
<u>0.63</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

JULY 1991 Observer - K. Fujimori Suwa City, Nagano

Date	Time	N		S		Total 10g+f			Cent.		Seeing	Remarks
		U.	T.	g	f	g	f	g	f	R		
1		-	-	-	-	-	-	-	-	-	-	C
2	6h50m	11	88	3	31	14	119	259	6	35	2	
3	4:30	11	101	5	28	16	129	289	4	44	2	
4		-	-	-	-	-	-	-	-	-	-	C-R
5	5:35	11	106	4	19	15	125	275	8	71	2 - 3	
6	0:14	10	92	4	15	14	107	247	8	71	2 - 3	
7		-	-	-	-	-	-	-	-	-	-	M
8		-	-	-	-	-	-	-	-	-	-	M
9		-	-	-	-	-	-	-	-	-	-	M
10		-	-	-	-	-	-	-	-	-	-	M
11		-	-	-	-	-	-	-	-	-	-	M
12		-	-	-	-	-	-	-	-	-	-	M
13		-	-	-	-	-	-	-	-	-	-	M
14		-	-	-	-	-	-	-	-	-	-	M
15	6:25	4	7	6	69	10	76	176	3	39	2 - 3	
16		-	-	-	-	-	-	-	-	-	-	C
17		-	-	-	-	-	-	-	-	-	-	C
18		-	-	-	-	-	-	-	-	-	-	M
19	2:24	2	4	9	37	11	41	151	2	14	3	
20	7:35	3	10	7	36	10	46	146	2	11	2	
21		-	-	-	-	-	-	-	-	-	-	M
22		-	-	-	-	-	-	-	-	-	-	C
23	2:40	6	69	7	58	13	127	257	5	30	4 - 5	naked eye=1b
24	1:34	5	78	10	54	15	132	282	5	57	4 - 5	naked eye=1b
25	4:42	5	65	8	55	13	120	250	8	100	3	naked eye=1b
26		-	-	-	-	-	-	-	-	-	-	C
27		-	-	-	-	-	-	-	-	-	-	M
28		-	-	-	-	-	-	-	-	-	-	C-R
29	1:45	7	73	6	31	13	104	234	4	53	2 - 3	naked eye=1c
30		-	-	-	-	-	-	-	-	-	-	R
31	2:50	9	75	4	38	13	113	243	2	21	2 - 3	
Sum		1608		1201		2809			1116			
Mean		134.0		100.1		234.1			93.0			

Days 12

POLAR FACULAE(Days 9)

N S
0.11 0.11
0.22

8cm Refractor X67 Projection 15cm

MONTHLY REPORT OF SUNSPOT OBSERVATION

AUGUST 1991 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	1h09m	6	55	4	36	10	91	191	3	41	2	naked eye=1c
2	3:32	7	54	4	33	11	87	197	6	77	3	naked eye=1b
3		-	-	-	-	-	-	-	-	-		M
4		-	-	-	-	-	-	-	-	-		M
5		-	-	-	-	-	-	-	-	-		C
6		-	-	-	-	-	-	-	-	-		R
7	5:20	3	29	6	17	9	46	136	1	2	2	
8	5:50	4	28	6	20	10	48	148	2	4	4	
9	3:56	4	22	5	12	9	34	124	2	5	4	
10	4:20	4	21	3	6	7	27	97	2	8	2	
11	0:00	3	18	5	8	8	26	106	3	8	3	
12	6:55	3	18	5	10	8	28	108	4	12	2 - 3	
13	3:17	3	20	7	27	10	47	147	4	31	3	
14	2:55	4	13	7	37	11	50	160	2	7	3	
15	2:17	3	7	10	73	13	80	210	1	2	5	
16	2:04	4	7	12	93	16	100	260	2	5	3 - 4	
17	1:41	7	18	11	127	18	145	325	4	19	4 - 5	
18	5:31	6	24	10	151	16	175	335	5	89	3	
19	1:38	7	40	11	137	18	177	357	8	115	3	naked eye=2c
20		-	-	-	-	-	-	-	-	-		R
21	2:29	7	57	11	140	18	197	377	12	129	4	naked eye=2c
22	6:20	8	64	10	141	18	205	385	10	91	2 - 3	
23	4:37	9	79	12	133	21	212	422	9	81	4	
24	5:00	8	45	10	62	18	107	287	6	35	1 - 2	
25	6:58	8	55	11	46	19	101	291	5	20	3	
26	1:33	8	46	8	28	16	74	234	3	10	4	
27	2:24	7	39	6	21	13	60	190	2	9	2 - 3	
28	1:24	6	54	5	36	11	90	200	3	22	3	
29		-	-	-	-	-	-	-	-	-		C
30		-	-	-	-	-	-	-	-	-		C-R
31	3:41	4	43	6	87	10	130	230	6	97	2	
Sum		2186		3331		5517			1969			
Mean		91.1		138.8		229.9			82.0			

Days 24

8cm Refractor X67 Projection 15cm

POLAR FACULAE(Days 19)

<u>N</u>	<u>S</u>
<u>0.68</u>	<u>0.00</u>
<u>0.68</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

SEPTEMBER 1991 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	3h52m	7	39	6	72	13	111	241	7	62	3	
3	- 20	3	32	6	71	9	103	193	5	64	3	
4	4:42	2	29	6	65	8	94	174	3	25	3	
5	4:16	2	15	7	52	9	67	157	2	16	3	
6	3:51	2	15	7	77	9	92	182	0	0	4	
7	5:02	0	0	6	69	6	69	129	2	6	2	
8		-	-	-	-	-	-	-	-	-		C
9		-	-	-	-	-	-	-	-	-		M
10	2:44	2	21	6	38	8	59	139	4	40	2 - 3	
11	1:45	1	19	6	39	7	58	128	3	28	2 - 3	
12	4:14	3	21	7	58	10	79	179	4	23	3	
13		-	-	-	-	-	-	-	-	-		C
14		-	-	-	-	-	-	-	-	-		R
15		-	-	-	-	-	-	-	-	-		C-R
16	2:50	4	22	6	25	10	47	147	4	17	2 - 3	
17	2:15	3	27	4	23	7	50	120	5	33	2	
18		-	-	-	-	-	-	-	-	-		R
19	6:36	4	46	1	3	5	49	99	3	45	3	
20	3:53	3	36	3	12	6	48	108	4	44	4	
21	2:10	4	31	4	14	8	45	125	2	23	2	
22	2:24	5	27	6	25	11	52	162	2	12	2 - 3	
23	0:08	4	27	5	37	9	64	154	3	28	3	
24		-	-	-	-	-	-	-	-	-		C
25		-	-	-	-	-	-	-	-	-		C
26		-	-	-	-	-	-	-	-	-		R
27	5:00	2	7	3	43	5	50	100	0	0	1	
28	3:53	2	5	6	67	8	72	152	1	12	3 - 2	naked eye=1b
29		-	-	-	-	-	-	-	-	-		M
30		-	-	-	-	-	-	-	-	-		C
Sum			949		1740			2689		1018		
Mean			52.7		96.7			149.4		56.6		

Days 18

POLAR FACULAE(Days 14)

8cm Refractor X67 Projection 15cm

<u>N</u>	<u>S</u>
0.50	0.00
<u>0.50</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

OCTOBER 1991 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		-	-	-	-	-	-	-	-	-		R
2	2h23m	2	24	6	112	8	136	216	4	126	3	naked eye=1a
3	5:30	2	38	6	123	8	161	241	4	108	4	naked eye=1a
4	3:37	2	32	6	101	8	133	213	2	32	2	naked eye=1b
5		-	-	-	-	-	-	-	-	-		R
6		-	-	-	-	-	-	-	-	-		R
7		-	-	-	-	-	-	-	-	-		R
8		-	-	-	-	-	-	-	-	-		C
9		-	-	-	-	-	-	-	-	-		C-R,
10		-	-	-	-	-	-	-	-	-		C
11		-	-	-	-	-	-	-	-	-		R
12	0:58	4	16	5	41	9	57	147	2	14	1 - 2	
13		-	-	-	-	-	-	-	-	-		M
14	4:20	5	25	5	42	10	67	167	6	38	2	naked eye=1c
15	4:19	6	33	6	44	12	77	197	8	32	2 - 3	naked eye=1c
16		-	-	-	-	-	-	-	-	-		M
17		-	-	-	-	-	-	-	-	-		R
18	2:16	5	36	3	30	8	66	146	3	37	2 - 3	
19	4:27	3	32	4	20	7	52	122	1	26	3	
20	3:06	3	33	4	12	7	45	115	2	28	2 - 3	
21	3:44	2	16	5	22	7	38	108	3	17	3	
22		-	-	-	-	-	-	-	-	-		M
23	3:41	3	26	4	47	7	73	143	2	27	2 - 3	
24	3:07	4	35	6	69	10	104	204	3	41	3	
25	5:52	5	39	5	115	10	154	254	4	25	2 - 3	naked eye=1b
26		-	-	-	-	-	-	-	-	-		C
27		-	-	-	-	-	-	-	-	-		R
28	6:20	3	48	5	116	8	164	244	6	146	1	naked eye=1a
29	3:20	3	64	7	170	10	234	334	7	204	2	naked eye=1a
30		-	-	-	-	-	-	-	-	-		C
31		-	-	-	-	-	-	-	-	-		C
Sum			1017		1834			2851		1471		
Mean			67.8		122.3			190.1		98.1		

Days 15

8cm Refractor X67 Projection 15cm

POLAR FACULAE(Days 11)

<u>N</u>	<u>S</u>
0.27	0.00
0.27	

MONTHLY REPORT OF SUNSPOT OBSERVATION

NOVEMBER 1991 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	1h52m	2	58	9	107	11	165	275	3	35	4	
3	4:58	2	32	9	57	11	89	199	5	26	2	
4		-	-	-	-	-	-	-	-	-		M
5	3:32	4	9	5	54	9	63	153	3	38	4	
6		-	-	-	-	-	-	-	-	-		M
7		-	-	-	-	-	-	-	-	-		M
8		-	-	-	-	-	-	-	-	-		C
9		-	-	-	-	-	-	-	-	-		M
10		-	-	-	-	-	-	-	-	-		M
11	5:17	4	76	4	27	8	103	183	5	79	2	
12	6:17	3	74	2	19	5	93	143	3	70	3	naked eye=1c
13	4:11	3	58	4	30	7	88	158	4	73	2	naked eye=1c
14		-	-	-	-	-	-	-	-	-		C
15		-	-	-	-	-	-	-	-	-		M
16	2:31	5	21	2	42	7	63	133	2	42	2 - 3	
17	3:10	3	9	4	33	7	42	112	1	1	2	
18	- 23	2	4	4	36	6	40	100	0	0	2	
19	1:36	1	2	7	43	8	45	125	3	20	2	
20	5:15	1	2	9	45	10	47	147	4	22	2 - 3	
21	1:41	3	7	6	28	9	35	125	3	14	2	
22	2:31	3	9	7	23	10	32	132	5	19	2	
23		-	-	-	-	-	-	-	-	-		M
24	3:13	2	5	9	39	11	44	154	6	31	2	
25	4:10	2	4	9	29	11	33	143	7	18	2	
26		-	-	-	-	-	-	-	-	-		M
27		-	-	-	-	-	-	-	-	-		M
28		-	-	-	-	-	-	-	-	-		R
29		-	-	-	-	-	-	-	-	-		M
30		-	-	-	-	-	-	-	-	-		M

Sum 770 1512 2282 1028

Mean 51.3 100.8 152.1 68.5

Days 15

POLAR FACULAE(Days 15)

8cm Refractor X67 Projection 15cm

<u>N</u>	<u>S</u>
<u>0.40</u>	<u>0.00</u>
<u>0.40</u>	

MONTHLY REPORT OF SUNSPOT OBSERVATION

DECEMBER 1991 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	1h51m	3	6	7	45	10	51	151	4	32	2 - 3	
3	2:50	4	24	6	50	10	74	174	2	27	2	
4	4:03	4	35	6	49	10	84	184	4	39	4	
5	4:53	3	49	5	51	8	100	180	3	50	4	
6	4:18	3	57	5	54	8	111	191	3	45	2	
7	4:30	5	71	5	60	10	131	231	6	63	3	
8		-	-	-	-	-	-	-	-	-		C
9		-	-	-	-	-	-	-	-	-		M
10	4:40	4	82	10	90	14	172	312	8	113	2	naked eye=1c
11		-	-	-	-	-	-	-	-	-		C
12		-	-	-	-	-	-	-	-	-		C
13	3:59	3	68	7	80	10	148	248	3	63	2	naked eye=2c
14	4:05	3	61	7	87	10	148	248	3	76	2 - 3	naked eye=1c
15		-	-	-	-	-	-	-	-	-		M
16	2:09	2	51	7	57	9	108	198	6	55	2	
17	2:55	2	37	7	59	9	96	186	5	44	2	
18		-	-	-	-	-	-	-	-	-		C
19	3:58	3	11	9	71	12	82	202	3	23	2	
20	3:59	1	2	10	72	11	74	184	3	34	2	naked eye=1c
21	2:32	1	1	10	68	11	69	179	4	30	2	naked eye=1c
22	2:12	0	0	7	81	7	81	151	4	39	2 - 3	naked eye=1c
23		-	-	-	-	-	-	-	-	-		M
24	2:59	0	0	8	125	8	125	205	4	50	2	naked eye=1b
25		-	-	-	-	-	-	-	-	-		C
26		-	-	-	-	-	-	-	-	-		C
27		-	-	-	-	-	-	-	-	-		S
28		-	-	-	-	-	-	-	-	-		R-C
29		-	-	-	-	-	-	-	-	-		C
30	4:08	0	0	6	140	6	140	200	4	109	1 - 2	naked eye=1c
31	0:32	0	0	8	139	8	139	219	4	71	2	naked eye=1c
Sum			965		2678			3643		1693		
Mean			53.6		148.8			202.4		94.1		

Days 18

8cm Refractor X67 Projection 15cm

POLAR FACULAE (Days 17)

<u>N</u>	<u>S</u>
<u>0.65</u>	<u>0.06</u>
<u>0.71</u>	