

MONTHLY REPORT OF SUNSPOT OBSERVATION  
 JANUARY 1967 Observer - K. Fujimori Suwa, Nagano

Date	Time J. S. T.	N		S		Total		10 <sup>11</sup>	Facula		Cent.		Seeing 1-5	Remarks
		g	f	g	f	g	f		E	W	g	f		
1														R
2	13 <sup>h</sup> 05 <sup>m</sup>	3	16	2	37	5	53	103	4	2	1	35	1-2	
3	13 10	5	33	3	68	8	101	181	4	2	2	65	1-2	
4														C
5	12 35	5	47	2	58	7	105	175	2	2	4	45	2	
6														C
7	12 20	7	60	3	65	10	125	225	1	2	5	53	4	
8	11 30	7	36	3	18	10	54	154	2	2	5	15	2	
9	12 20	6	57	1	8	7	65	135	1	2	2	43	4	
10	12 20	4	70	1	6	5	76	126	1	2	2	42	5	
11														C
12	12 20	4	52	2	18	6	70	130	2	5	1	9	5	
13	12 23	4	43	2	32	6	75	135	1	5	1	14	4-5	
14	12 20	5	25	1	24	6	49	109	1	3	1	15	2	
15	12 45	3	21	1	24	4	45	85	1	1	1	24	4-5	
16	12 40	2	-	1	-	3	-	-	-	-	1	-	-	C
17	12 15	3	17	1	16	4	33	73	3	2	2	20	3	
18	12 20	2	17	1	18	3	35	65	3	2	2	19	4	
19	12 18	4	25	1	15	5	40	90	7	3	0	0	4	
20	12 20	6	38	1	9	7	47	117	3	2	1	10	3-4	
21	12 20	6	76	2	12	8	88	168	2	2	3	44	4	
22	11 30	8	70	2	8	10	78	178	3	2	3	41	3	
23	12 25	8	67	2	8	10	75	175	2	1	4	25	2	
24	12 20	7	61	2	9	9	70	160	2	2	5	51	2-3	
25	12 20	7	72	2	8	9	80	170	2	1	4	52	4	
26	12 25	10	77	1	3	11	80	190	2	4	3	42	5	
27	12 25	7	62	2	8	9	70	160	2	2	3	11	3-4	
28														C
29														R
30	12 20	5	53	3	10	8	63	143	3	3	1	53	4	
31	12 20	6	58	2	5	8	63	143	4	2	2	34	3	
Sum		2473		917		3390						1294		
Mean		103.1		38.2		141.3		141.3				53.9		

Days 24 Instrument 100<sup>mm</sup> Reflector x56 Direct Vision  
 80<sup>mm</sup> Retractor x48 Projection

7 8 9 10 11 12 (1) 2 3 4 5 6 7  
 $25844 \div 270 = 95.7$

$118726 = 69.4$   
 $57118 = 26.4$

MONTHLY REPORT OF SUNSPOT OBSERVATION  
 FEBRUARY 1967 Observer - K. Fujimori Suwa, Nagano

Date	Time			N		S		Total		10gif		Facula		Cent.		Seeing	Remarks
	J	S	T	g	t	g	t	g	t	E	W	g	t	1-5			
1	12	15 <sup>m</sup>		5	35	3	8	8	43	12	33	2	2	31	2-3		
2	12	20		5	30	3	16	8	46	12	63	2	3	27	3		
3	12	25		5	18	4	14	9	32	12	23	2	4	13	2-3		
4																M	
5	13	5		5	27	3	7	8	34	11	43	3	2	6	3-4		
6	12	15		4	38	2	8	6	46	10	63	3	2	8	3		
7	12	20		5	57	2	16	7	73	14	33	3	2	28	2		
8																C	
9																C-S	
10																S	
11																C	
12																S	
13																M	
14	12	15		3	23	1	3	4	26	66	2	2	1	12			
15	12	15		4	30	1	3	5	33	83	2	2	2	24			
16	12	15		4	26	1	3	5	29	79	2	2	1	2			
17	12	25		5	17	1	3	6	20	80	3	2	1	1			
18	12	50		6	15	1	4	7	19	89	1	2	1	4			
19	12	0		7	20	1	5	8	25	105	2	2	2	10			
20	12	18		6	28	2	7	8	35	115	2	3	3	12			
21	12	20		5	27	3	13	8	40	120	2	1	3	14			
22	12	24		5	45	4	10	9	55	145	2	2	5	16			
23																C	
24																C	
25	12	25		4	70	1	3	5	73	123	4	2	1	3		肉眼的黑点アリ	
26	12	30		4	74	2	6	6	80	140	3	2	1	3		"	
27	12	30		5	80	6	26	11	106	216	2	1	4	39		"	
28	12	30		5	82	6	38	11	120	230	3	3	5	35		"	
Sum				1.662		663		2.325						738			
Mean				87.5		34.9		122.4	122.4					38.8			

Days 19 Instrument 100<sup>mm</sup> Reflector x56 Direct Vision

80<sup>mm</sup> Refractor x48 Projection  
 8 9 10 11 12 1 2 3 4 5 6 7 8

$27611 \div 274 = 100.8$

N 19681 = 71.8  
 S 7930 = 28.9

MONTHLY REPORT OF SUNSPOT OBSERVATION  
 MARCH 1967 Observer - K. Fujimori Suwa, Nagano

Date	Time			W				S				Total		Each		Cent. Spot			Remarks			
	h	m	sec	1	2	3	4	1	2	3	4	10 <sup>h</sup>	11 <sup>h</sup>	E	W	1	2	3		4	5	
1	12	25		5	10	7	5	12	15	8	2	2	2	2	1	5	5	4	3		肉眼的黑点71	
2	12	30		5	12	7	6	12	19	7	1	4	4	4	4	4	5	2	3			
3	12	40		6	8	5	4	11	12	7	2	3	7	1	4	3	9	1	2		不確定	
4																					M	
5																					R	
6																					C	
7	12	35		4	5	2	7	6	12	6	2	3	3	3	3	3	2	4	3			
8	12	25		5	3	2	5	7	9	2	1	2	3	6	3	5	1	3	4			
9																					M	
10																					M	
11	12	25		4	2	4	5	8	7	1	2	2	3	2	2	4	3	3				
12	12	40		3	1	2	4	5	6	1	1	0	3	3	1	3	3	4				
13	12	20		2	1	2	2	4	3	6	2	4	0	4	0	0	4	5				
14	12	15		2	1	2	1	4	2	8	2	2	1	2	1	1	4					
15																					C	
16																					C	
17	12	30		5	2	1	3	6	5	1	1	6	3	1	3	1	4					
18																					R	
19	12	45		5	2	1	1	6	4	3	1	0	2	2	2	2	4					
20	12	20		7	2	1	1	8	4	1	2	1	2	1	1	1	4					
21	12	30		7	4	1	8	8	5	1	3	2	2	2	2	5	2	3				
22	12	35		9	4	1	4	10	4	1	4	2	3	2	2	1	2	3				
23	12	40		9	-	1	-	10	-	-	-	-	-	4	-	1					C	
24	12	30		10	7	1	1	11	7	2	2	3	2	3	2	6	2					
25	12	30		11	9	3	5	14	9	2	3	3	4	3	4	7	4	5			肉眼的黑点71	
26	12	15		10	8	2	4	12	8	2	0	4	3	2	2	3	5				"	
27																					R	
28																					M	
29	12	30		6	8	3	6	9	1	4	5	3	1	4	4	1	4	3	4			
30																					R	
31	12	30		5	-	2	-	7	-	-	-	-	-	1	-	1					M	
Sum				100	960	47	895	153	757					43		383						
Mean				2.220	1.012			3.066								8.13						

Days 18 Instrument 100<sup>mm</sup> Reflector x56 Direct Vision  
 80<sup>mm</sup> Refractor x48 projection  
 9 10 11 12 1 2 ③ 4 5 6 7 8 9  
 $27782 \div 271 = 102.5$   
 19111 = 70.5

# MONTHLY REPORT OF SUNSPOT OBSERVATION

APRIL 1967

Observer - K. Fujimori

Suwa, Nagano

Date	Time			N		S		Total		Facula		Cent.		Remarks		
	h	m	s	+	-	+	-	+	-	E	W	+	-			
1	13	50	m	8	31	3	25	11	56	166	2	3	2	15	1-2	不確定
2																M
3	10	40		3	11	2	10	5	21	71	4	2	2	8	1-	
4																R
5	11	0		4	14	2	11	6	25	85	3	3	2	7	2	
6	12	50		3	8	2	18	5	26	76	1	3	1	7	2	
7	12	10		3	9	2	28	5	37	87	1	3	2	28	4	
8	12	20		6	19	3	46	9	65	155	2	4	4	49	4	
9																C
10																R
11																C
12																C
13																
14	13	20		4	20	0	0	4	20	60	4	3	1	3	3	
15																C
16																S
17	12	50		3	10	1	3	4	13	53	3	2	0	0	3	
18																R
19																R
20	13	5		4	7	2	6	6	13	73	2	1	1	1	2	
21	11	50		2	5	3	13	5	18	68	2	2	0	0	3	
22	12	50		3	8	4	20	7	28	98	2	2	1	2	3	
23	13	15		4	17	5	32	9	49	139	3	3	5	27	3	
24	12	45		4	12	4	15	8	27	107	2	3	2	10	2	
25	12	50		4	16	3	13	7	29	99	4	2	3	8	3	
26	17	55		4	22	4	15	8	37	117	2	4	1	6	4-5	
27	12	55		2	18	2	8	4	26	66	5	3	0	0	3-4	
28																C
29	14	40		4	34	2	23	6	57	117	2	1	1	13	2	
30	12	35		4	23	2	32	6	55	115	4	6	2	22	4	
Sum				39	284	46	318	115	602			30	206			
				974		778		1752					506			
Mean				54.1		43.2		97.3	97.3				28.1			

Days 18      100<sup>mm</sup> Reflector x56      Direct Vision

80<sup>mm</sup> Refractor x48      projection

10 11 12 1 2 3 ④ 5 6 7 8 9 10

$27784 \div 259 = 107.3$

$N17611 = 68.0N18918 = 73.0$

$C10172 = 29.358866 = 34.2$

# MONTHLY REPORT OF SUNSPOT OBSERVATION

MAY 1967 Observer - K. Fujimori Suwa, Nagano

Date	Time			N		S		Total		10g+	Facula		Cent.		Seeing	Remarks
	J.	S.	T.	g	f	g	f	g	f		E	W	g	f		
1																C
2	13	h	25 <sup>m</sup>	3	16	3	22	6	38	98.2	3	2	27	2		
3	12		35	2	13	3	30	5	43	93.1	2	2	35	2		
4	12		10	3	10	3	20	6	30	90.2	3	1	16	3		
5															M	
6	12		0	3	9	2	8	5	17	67.3	4	2	6	4		
7															C	
8	12		50	1	3	1	2	2	5	25.1	4	1	3	4		
9															C	
10															R	
11	13		10	1	2	1	1	2	3	23.3	5	0	0	3-4		
12	12		40	2	4	1	4	3	8	38.2	2	0	0	4		
13	12		40	2	4	1	3	3	7	37.1	2	0	0	2-3		
14	13		0	1	2	2	7	3	9	39.-	-	0	0	2		
15	12		35	1	2	3	15	4	17	57.6	2	1	5	3		
16	12		40	1	2	3	16	4	18	58.4	2	1	10	2-3		
17	13		40	2	5	2	20	4	25	65.4	1	3	20	4		
18	13		20	2	5	3	16	5	21	71.2	1	3	13	3		
19	12		15	3	13	3	22	6	35	95.4	2	2	10	4		
20	13		30	2	28	5	27	7	55	125.2	2	2	22	3		
21	13		15	2	38	4	19	6	57	117.2	3	2	16	3		
22	13		35	3	71	4	15	7	86	156.4	3	2	10	4	曇り	
23	14		15	3	77	4	14	7	91	161.4	2	2	14	4	"	
24	13		10	4	74	3	7	7	81	151.4	3	2	28	3-4	"	
25	13		5	5	139	4	31	9	170	260.3	4	5	112	4	"	
26															M	
27															C	
28															M	
29															M	
30															M	
31															M	
Sum				46	517	55	299	101	816			33	347			
					977		849		7826				677			
Mean				48.8		42.5		97.3	97.3			33.9				

Days 20

100<sup>mm</sup> Reflector x56 Direct Vision

80<sup>mm</sup> Refractor x48 Projection

11 12 1 2 3 4 ⑤ 6 7 8 9 10 11

$2845 \div 261 = 109.0$

$19162 = 73.4$

$59289 = 35.6$

MONTHLY REPORT OF SUNSPOT OBSERVATION  
 JUNE 1967 Observer - K. Fujimori Suwa, Nagano

Date	Time		N				S		Total		log <sub>10</sub> f		Facula cent.		Seeing	Remarks
	J	S	T	g	t	g	t	g	t	E	W	g	t	1-5		
1	13	0 <sup>m</sup>	6	87	2	15	8	102	182	1	3	3	13	3-4		
2	13	0	4	68	1	6	5	74	124	2	3	3	27	2-3		
3	16	5	3	64	1	7	4	71	111	1	2	2	57	3	肉眼の黒点あり	
4															C	
5	12	10	2	46	2	8	4	54	94	2	1	1	27	3-4		
6	12	20	2	43	2	6	4	49	89	2	3	2	11	3-4		
7	12	20	2	26	1	1	3	27	57	1	2	2	4	2		
8	8	10	2	19	1	1	3	20	50	2	1	2	4	4		
9															C	
10															C	
11	8	25	1	2	1	8	2	10	30	-	-	1	8	2		
12	12	5	0	0	1	9	1	9	19	2	0	0	0	3		
13	12	0	1	1	1	8	2	9	29	2	0	0	0	4		
14															M	
15	13	0	2	3	2	5	4	8	48	3	1	0	0	2-3		
16	13	30	2	4	2	2	4	6	46	3	2	0	0	3		
17	12	50	4	13	3	8	7	21	91	3	1	1	1	4		
18	14	55	4	13	2	6	6	19	79	4	0	1	4	2		
19	12	15	5	18	2	4	7	22	92	4	1	3	7	3		
20	11	55	6	29	2	3	8	32	112	3	1	4	16	3		
21	11	55	6	27	1	2	7	29	99	3	1	4	12	3		
22	11	50	6	24	0	0	6	24	84	2	1	4	13	2-3		
23	15	5	7	41	1	11	8	52	132	2	2	2	6	3		
24	13	5	6	44	1	19	7	63	133	4	5	3	28	3-4		
25															R	
26	12	25	3	20	1	14	4	34	74	1	2	2	29	4		
27	13	0	3	13	1	12	4	25	65	1	2	2	20	3		
28															R	
29	13	15	3	18	2	10	5	28	78	4	4	2	6	4		
30	12	40	4	14	2	12	6	26	86	3	4	1	3	3-2		

Sum	84	637	35	177	117	812					45	296			
Mean		1.477		5.27		2.004						7.46			
Mean		67.5		22.0		83.5	83.5					31.1			

Days 24  
 100<sup>mm</sup> Reflector x56 Direct Vision  
 80<sup>mm</sup> Refractor x48 Projection  
 12 1 2 3 4 5 ⑥ 7 8 9 10 11 12  
 $30174 \div 263 = 114.7$   
 $N19416 = 73.8$   
 $S10758 = 40.9$

MONTHLY REPORT OF SUNSPOT OBSERVATION  
 JULY 1967 Observer-K. Fujimori Suwa, Nagano

Date	Time		N				S		Total		Facula		Cent.		Remarks
	J	S	+	-	+	-	+	-	+	-	E	W	+	-	
1	12	5 <sup>am</sup>	4	11	2	6	6	17	77.2	3	1	4	1-2		
2														R	
3														C	
4	13	15	4	14	3	25	7	39	109.3	2	3	27	2		
5														C	
6														C	
7	14	55	2	6	2	5	4	11	51-	-	1	2	1		
8														R	
9														R	
10														R	
11	12	50	4	26	0	0	4	26	66.3	3	3	25	3		
12	11	50	4	16	2	4	6	20	80.3	2	2	6	3		
13														C	
14	13	0	2	13	3	12	5	25	75.3	1	2	7	2-3		
15	13	5	3	15	3	31	6	46	106.3	1	2	12	2		
16	14	5	2	6	4	44	6	50	110.4	2	3	39	4		
17														C	
18	12	10	3	7	5	36	8	43	123.6	2	2	27	4		
19	12	15	2	3	5	25	7	28	98.4	3	2	8	4-5		
20	12	25	0	0	4	18	4	18	58.3	3	1	4	4		
21	15	15	2	3	3	12	5	15	65.4	2	1	2	4-5		
22	12	15	1	7	5	28	6	35	95.3	2	2	6	5		
23	12	35	2	22	3	13	5	35	85.3	3	2	10	2		
24	13	10	4	35	4	14	8	49	129.2	3	3	9	3		
25	12	20	3	61	4	12	7	73	143.3	3	3	10	3-4		
26	12	50	4	73	2	4	6	77	137.4	4	1	2	3	肉眼的黑点 1	
27	12	20	5	87	1	2	6	89	149.5	3	2	46	3-4	肉眼的黑点 2	
28														M	
29	11	55	5	99	1	2	6	101	161.2	2	3	86	2	肉眼的黑点 2	
30	12	5	5	119	1	4	6	123	183.2	3	4	75	2	" 2	
31	12	20	5	114	1	2	6	116	176.2	3	4	54	3	" 2	
Sum				1,397		879		2,276				937			
Mean				66.5		41.9		108.4	102.4			44.3			

Days 21 100<sup>mm</sup> Reflector x56 Direct Vision  
 80<sup>mm</sup> Refractor x48 Projection

1 2 3 4 5 6 ⑦ 8 9 10 11 12 1  
 $31179 \div 266 = 117.2$   $N19552 = 73.5$   
 $S11627 = 43.7$

# MONTHLY REPORT OF SUNSPOT OBSERVATION

AUGUST 1967 Observer - K. Fujimori Suwa, Nagano

Date	Time			N		S		Total		10g		Facula cent.			Seeing		Remarks
	h	m	s	+	-	+	-	+	-	E	W	+	-	+	-	1"	
1	8	10	20	5	90	1	2	6	92	152	2	1	4	51	3		
2	7	50		5	74	2	6	7	80	150	1	2	4	22	3		
3	7	45		5	54	2	9	7	63	133	1	2	2	9	3		
4	13	40		6	24	1	11	7	35	105	1	3	0	0	2		
5	7	25		5	27	1	24	6	51	111	1	5	1	14	5		
6	12	50		6	33	2	19	8	52	132	3	4	1	33	4		
7	7	15		4	37	2	21	6	58	118	3	2	1	24	5	肉眼黒点アリ	
8	7	20		6	44	3	19	9	63	153	4	3	3	32	5	"	
9	7	45		4	39	3	20	7	59	129	3	3	1	30	5	"	
10	7	15		3	38	4	17	7	55	125	3	3	2	33	4-5		
11																	C
12	12	15		2	30	3	15	5	45	95	1	2	2	14	2-3		
13	13	5		2	33	2	18	4	51	91	2	2	2	3	4		
14																	C
15	11	30		2	10	4	16	6	26	86	2	2	2	7	4		
16	13	55		3	23	3	9	6	32	92	2	5	1	17	3		
17	13	15		3	48	3	8	6	56	116	2	4	2	40	3		
18	8	10		4	51	3	8	7	59	129	2	5	2	35	3		
19	8	0		5	57	3	7	8	64	144	3	3	1	24	4		
20																	C
21																	C
22	12	15		6	75	1	9	7	84	154	4	4	0	0	2-3		
23																	C
24	7	15		5	89	2	12	7	101	171	3	2	3	63	4	肉眼黒点アリ	
25	7	40		5	79	2	27	7	106	176	2	3	6	102	3-4	"	
26	12	20		5	78	2	17	7	95	165	2	2	6	94	2-3	"	
27	13	5		5	61	2	20	7	81	151	2	1	4	70	3-4	"	
28	12	25		4	56	3	32	7	88	158	2	3	2	11	2-3		
29																	C
30	12	25		4	44	4	23	8	67	147	2	4	1	7	3		
31	12	25		6	44	5	21	11	65	175	4	4	1	13	4		
Sum				110	1238	63	390	173	1628				54	671			
					2338		1020		3358					1211			
Mean					93.5		40.8		134.3	134.3				48.4			

Days 25      100<sup>mm</sup> Reflector x56      Direct Vision  
                   80<sup>mm</sup> Refractor x48      Projection

2 3 4 5 6 7 8 9 10 11 12 1 2

$30648 \div 264 = 116.1$

N 18850 = 71.4  
 S 11798 = 44.7



# MONTHLY REPORT OF SUNSPOT OBSERVATION

SEPTEMBER 1967 Observer: K. Fujimori Suwa, Nagano

Date	Time			N			S			Total		Facula		Clear		Remarks
	J	S	T	+	-	+	-	+	-	+	-	+	-	+	-	
1																c
2																c
3	12	h	20 <sup>m</sup>	2	44	5	29	7	73	143	4	2	32	3		
4	7	30		4	46	5	27	9	73	163	3	4	48	3		
5																M
6	8	0		5	35	6	31	11	66	176	2	4	39	4		
7	12	15		4	-	5	-	9	-	-	-	2	-	1		M
8	12	20		4	12	5	25	9	37	127	2	3	8	2-3		
9	12	35		3	12	3	21	6	33	93	2	2	6	4		
10	12	50		3	25	2	15	5	40	90	3	1	7	2		
11	12	55		2	27	2	14	4	41	81	3	1	11	2		
12	8	20		2	36	3	9	5	45	95	-	2	14	2		
13																c
14	12	25		2	14	3	5	5	19	69	3	1	6	2		
15	12	15		1	15	2	4	3	19	49	2	1	15	2		
16	12	50		1	11	2	3	3	14	44	-	1	11	2		
17	12	15		1	5	2	9	3	14	44	3	0	0	2		
18																R
19	12	15		2	6	2	23	4	29	69	4	1	9	4		
20																R
21																R
22	12	15		3	9	2	14	5	23	73	4	2	6	2		
23	13	15		2	5	2	8	4	13	53	4	1	2	2		
24	12	15		3	13	1	8	4	21	61	2	1	3	3		
25	13	0		2	12	1	6	3	18	48	3	0	0	3		
26	12	35		3	16	0	0	3	16	46	4	0	0	2-3		
27	11	20		3	20	0	0	3	20	50	4	0	0	2-3		
28	12	35		3	22	1	3	4	25	65	3	1	7	4		
29	12	40		4	24	1	3	5	27	77	2	2	7	3-4		
30	12	40		5	27	1	7	6	34	94	3	3	24	4		

Sum	60	436	57	264	117	700	33	255
Mean	1.036	774	1.810	82.3	82.3	26.6		

Days 22

100<sup>mm</sup> Reflector x56 Direct Vision

80<sup>mm</sup> Refractor x48 Projection

3 4 5 6 7 8 9 10 11 12 1 2 3

$30051 \div 264 = 113.8$

$N18116 = 68.6$   
 $S11930 = 45.2$

MONTHLY REPORT OF SUNSPOT OBSERVATION

OCTOBER 1967 Observer-K. Fujimori Suwa, Nagano

Date	Time		N		S		Total		log <sub>10</sub> +	Facula cent.		Seeing	Remarks		
	J	S	g	+	g	+	g	+		E	W			g	+
1													C		
2													R		
3													R		
4	12	40 <sup>m</sup>	4	20	3	19	7	39	109	4	2	1	6	3	
5															C
6	12	25	4	11	4	34	8	45	125	3	5	3	10	3	
7															R
8	12	40	2	6	3	18	5	24	74	2	3	2	6	2-3	
9															M
10	11	15	4	30	2	5	6	35	95	1	3	3	18	2	
11	12	0	5	40	2	6	8	46	126	3	3	2	27	2	
12															M
13															M
14															R
15															M
16															M
17															C-R
18															R-C
19	12	40	2	12	1	2	3	14	44	3	3	0	0	2-3	
20	12	45	3	32	1	1	4	33	73	3	3	1	2	2-3	
21															M
22	12	35	5	51	0	0	5	51	101	6	3	2	45	2	
23															C
24															C
25															M
26															C
27															R
28	13	15	8	59	3	8	11	67	177	3	2	5	25	2	
29	12	20	8	44	4	19	12	63	183	3	2	4	16	2	
30	12	55	7	22	4	29	11	51	161	3	3	3	15	1-2	
31	12	15	4	17	4	20	8	37	117	2	3	2	4	2	
Sum			56	344	32	161	88	505							
			904			481		1385							
Mean			75.3			40.1		115.4	115.4				39.3		

Days 12  
 100<sup>mm</sup> Reflector x56 Direct Vision  
 80<sup>mm</sup> Refractor x48 Projection  
 4 5 6 7 8 9 10 11 12 1 2 3 4 N17078 = 642  
 28911 ÷ 266 = 108.7 S11833 = 445

# MONTHLY REPORT OF SUNSPOT OBSERVATION

NOVEMBER 1967 Observer-K. Fujimori Suwa, Nagano

Date	Time			N		S		Total		log <sub>10</sub> f		Facula		Cent.		Seeing	Remarks
	J	S	T	g	f	g	f	g	f	E	W	g	f	1-5			
1	12	45	<sup>m</sup>	4	20	4	29	8	49	12	9	2	4	4	23	2	
2																	M
3	12	50		3	11	5	35	8	46	12	6	3	5	32	1-2		
4	14	50		2	5	6	34	8	39	11	9	-	-	3	17	1-2	
5																	C
6																	C
7	11	55		2	3	3	16	5	19	6	9	2	5	0	0	3	
8	13	45		0	0	1	4	1	4	14	1	3	0	0	0	1	
9	12	5		1	2	1	5	2	7	2	7	2	2	0	0	3	
10	13	42		1	6	2	7	3	13	4	3	2	2	0	0	3	
11	12	26		3	11	0	0	3	11	4	1	2	1	1	3	1-2	
12	13	25		3	25	0	0	3	25	5	5	3	2	1	18	2-3	
13	10	32		5	31	1	6	6	37	9	7	5	1	2	23	2	
14	11	58		5	29	1	3	6	32	9	2	4	2	2	5	2	
15	12	45		5	43	2	8	7	51	12	1	2	2	3	11	3	
16																	M
17																	M
18	13	50		7	68	1	5	8	73	15	3	2	4	4	49	3	肉眼的黒点 1
19	12	15		7	59	1	7	8	66	14	6	2	4	2	34	2-3	"
20																	C
21	13	15		6	55	1	7	7	62	13	2	2	4	4	38	2	
22	12	57		5	40	0	0	5	40	9	0	2	4	2	6	2-3	
23	12	50		4	34	1	4	5	38	8	8	3	2	2	20	2	肉眼的黒点 1
24																	M "
25	13	2		5	38	3	27	8	65	14	5	4	3	3	35	3-4	"
26	13	14		3	31	4	26	7	57	12	7	4	3	2	30	3	"
27	12	45		3	43	4	23	7	66	13	6	2	3	3	22	2-3	
28																	C
29																	C
30																	R
Sum				1294		656		1950						796			
Mean				64.7		32.8		97.5		97.5				39.8			

Days 20      100<sup>mm</sup> Reflector      x56      Direct Vision

5 6 7 8 9 10 (11) 12 1 2 3 4 5      80<sup>mm</sup> Retractor      x48      projection

$$30755 \div 270 = 113.9$$

$$N18452 = 68.3$$

$$S12303 = 45.6$$

# MONTHLY REPORT OF SUNSPOT OBSERVATION

DECEMBER 1967 Observer-K. Fujimori Suwa, Nagano

Date	Time			N		S		Total		Facula		C.M.L.		Grouping	Remarks	
	J	S	T	g	+	g	+	g	+	E	W	g	+			1-5
1	12	58	m	2	14	4	60	6	74	134	1	3	2	27	3	
2																C
3	13	25		5	22	3	11	8	33	113	1	3	0	0	3	
4	12	40		5	17	2	8	7	25	95	2	4	1	4	4-5	
5	12	33		4	9	3	7	7	16	86	3	3	1	1	2-3	
6	12	35		4	21	2	16	6	37	97	3	3	2	5	2	
7																M
8																C
9	12	53		6	27	3	28	9	55	145	3	2	4	42	3	
10																M
11																M
12	12	45		7	23	4	49	11	72	182	3	3	6	53	2-3	
13																C
14																S
15	13	55		8	42	6	30	14	72	212	1	3	4	11	1-2	
16	12	58		7	77	4	19	11	96	206	2	6	5	73	3-4	
17	13	10		7	99	5	15	12	114	234	2	5	3	79	2	
18	11	45		6	117	3	9	9	126	216	3	4	3	93	2	肉眼的黒点 1
19																S
20	13	57		6	96	2	11	8	107	187	4	4	2	21	2	肉眼的黒点 2
21	12	52		6	89	3	24	9	113	203	2	3	2	31	3	
22	12	45		3	46	3	21	6	67	127	3	2	3	27	2	
23																C
24	12	45		3	8	4	29	7	37	107	2	3	3	13	2-3	
25	14	0		2	5	6	40	8	45	125	2	2	3	10	2	
26	13	2		2	4	7	61	9	65	155	3	4	4	42	2	
27																C
28																C
29	13	30		0	0	12	77	12	77	197	3	3	4	35	2-3	肉眼的黒点 1
30	14	20		1	1	8	67	9	68	158	2	4	4	20	2	" 1
31	13	55		0	0	8	71	8	71	151	3	3	3	29	3-4	
Sum				1.55	7.	1.57	3.	31.30.					1.20	6.		
Mean				77.9		78.6		156.5	156.5				60.3			

Days 20      100<sup>mm</sup> Reflector x56      Direct Vision

~~N 8109 67.1~~      80<sup>mm</sup> Refractor x48      Projection

S + 3609 sa. 48      7 8 9 10 11 (12) 1 2 3 4 5 6      N19019 = 70.4

1.0.8 2 270 = 112.5      1.0.8 99 = 470