

Location Lat. : 25°.10 N  
 Long. : 121°.52 E

# 太陽黑子觀測月報

Taipei Astronomical Museum  
 Shi-Lin, Taipei

Telescope : 20cm Refractor f=9.0  
 Magnification : 64 Projection

Jan. 2011

Taiwan 111  
 Republic of China

Date 日期	Obs. Time (U.T.) 觀測時間	Whole		Central Circle		N.Hemisphere		S.Hemisphere		Relative Number (10g+f)				Area ( in millionth hemisphere) 面積		Small Type Groups A.B.型 群數	Seeing 視相 Q (1-5)	Remark 備考
		全日面		中心區		北半球		南半球		相對數								
		g	f	g	f	g	f	g	f	W	C	N	S	N	S			
1																		None
2																		Cloud
3																		Rain
4																		Rain
5	06:37	3	28	1	21	2	7	1	21	58	281	31	212	198.096	18.0341	1	4	
6																		Rain
7																		Cloud
8																		Rain
9																		Rain
10																		Rain
11																		Rain
12																		Rain
13																		Rain
14																		Cloud
15																		Rain
16																		Cloud
17																		Cloud
18	05:00	2	19	0	0	1	14	1	5	39	190	0	1	153.616	16.6248	0	3	
19																		Rain
20																		Rain
21																		Rain
22	03:45	2	12	2	12	2	12	0	0	32	122	32	122	117.229	0	0	2	
23																		Rain
24																		Rain
25																		Cloud
26	03:00	2	12	0	0	2	12	0	0	32	120	0	2	219.266	0	0	2	
27																		Rain
28																		Rain
29																		Rain
30																		Cloud
31																		Cloud
Mean No.		2.25	17.75	0.75	8.25	1.75	11.25	0.50	6.50	40.25	178.25	15.75	84.25	172	9	Obs. Days: 4		



Location Lat. : 25°10 N  
 Long. : 121°52 E

# 太陽黑子觀測月報

Taipei Astronomical Museum  
 Shi-Lin, Taipei

Telescope : 20cm Refractor f=9.0  
 Magnification : 64 Projection

Mar. 2011

Taiwan 111  
 Republic of China

Date 日期	Obs. Time (U.T.) 觀測時間	Whole		Central Circle		N.Hemisphere		S.Hemisphere		Relative Number (10g+f)				Area ( in millionth hemisphere) 面積		Small Type Groups A.B.型 群數	Seeing 視相 Q (1-5)	Remark 備考
		全日面		中心區		北半球		南半球		相對數								
		g	f	g	f	g	f	g	f	W	C	N	S	N	S			
1																		Rain
2																		Rain
3																		Cloud
4																		Cloud
5																		Cloud
6																		Cloud
7																		Cloud
8																		Cloud
9	02:40	5	93	2	54	4	86	1	7	143	932	74	544	1184.92	34.6404	1	3	
10																		Rain
11																		Rain
12																		Rain
13	01:58	6	71	2	4	5	70	1	1	131	712	24	45	865.1	1.64962	4	3	
14	02:50	6	50	2	4	5	48	1	2	110	502	24	45	604.05	1.78219	4	3	
15																		Cloud
16																		Cloud
17	01:38	4	20	1	2	3	8	1	12	60	201	12	23	139.029	30.3127	2	3	
18																		Cloud
19																		Cloud
20	06:58	2	13	0	0	0	0	2	13	33	130	0	0	0	51.9934	0	4	
21																		Rain
22																		Rain
23																		Cloud
24																		Cloud
25																		Cloud
26																		Rain
27																		Rain
28																		Rain
29	02:40	5	34	2	19	2	14	3	20	84	342	39	192	147.278	180.44	1	4	
30	01:50	5	60	3	37	2	23	3	37	110	603	67	372	210.592	179.382	1	3	
31																		Cloud
Mean No.		4.71	48.71	1.71	17.14	3.00	35.57	1.71	13.14	95.86	488.86	34.29	174.43	450	69	Obs. Days: 7		

Location Lat. : 25°10 N  
 Long. : 121°52 E

# 太陽黑子觀測月報

Taipei Astronomical Museum  
 Shi-Lin, Taipei

Telescope : 20cm Refractor f=9.0  
 Magnification : 64 Projection

Apr. 2011

Taiwan 111  
 Republic of China

Date 日期	Obs. Time (U.T.) 觀測時間	Whole 全日面		Central Circle 中心區		N.Hemisphere 北半球		S.Hemisphere 南半球		Relative Number (10g+f) 相對數				Area ( in millionth hemisphere) 面積		Small Type Groups A.B.型 群數	Seeing 視相 Q (1-5)	Remark 備考
		g	f	g	f	g	f	g	f	W	C	N	S	N	S			
		1	01:45	6	51	3	37	4	38	2	13	111	513	67	374			
2																		None
3	02:30	5	34	2	28	3	30	2	4	84	342	48	283	113.219	30.101	1	3	
4																		Rain
5																		Cloud
6																		Cloud
7	02:03	5	34	0	0	5	34	0	0	84	340	0	5	274.926	0	0	3	
8	01:55	6	35	0	0	5	29	1	6	95	350	0	5	247.855	17.3053	1	3	
9	01:40	6	39	3	24	4	31	2	8	99	393	54	244	190.072	14.0991	1	3	
10																		None
11																		Rain
12	01:35	5	56	4	42	4	52	1	4	106	564	82	424	139.159	1.6781	2	3	
13																		Cloud
14	02:10	7	77	2	50	6	73	1	4	147	772	70	506	456.117	2.13614	1	3	
15	01:50	8	91	2	65	6	88	2	3	171	912	85	656	531.011	3.98877	3	3	
16																		Rain
17																		Rain
18																		Cloud
19	06:26	3	31	2	26	3	31	0	0	61	312	46	263	489.779	0	0	3	
20	02:14	5	54	3	46	4	48	1	6	104	543	76	464	330.847	57.1967	1	4	
21	02:23	5	39	1	19	2	22	3	17	89	391	29	192	258.691	137.224	1	3	
22																		None
23																		Cloud
24	02:30	2	24	1	17	1	7	1	17	44	241	27	171	95.9671	224.866	0	4	
25																		None
26																		Cloud
27	01:32	6	39	3	24	3	16	3	23	99	393	54	243	29.7923	244.598	3	3	
28	02:05	4	32	0	0	2	19	2	13	72	320	0	2	76.5195	197.895	2	2	
29																		Cloud
30																		Rain
Mean No.		5.21	45.43	1.86	27.00	3.71	37.00	1.50	8.43	97.57	456.14	45.57	273.71	243	78	Obs. Days: 14		

Location Lat. : 25°10 N

Long. : 121°52 E

Telescope : 20cm Refractor f=9.0

Magnification : 64 Projection

# 太陽黑子觀測月報

May 2011

Taipei Astronomical Museum

Shi-Lin, Taipei

Taiwan 111

Republic of China

Date 日期	Obs. Time (U.T.) 觀測時間	Whole 全日面		Central Circle 中心區		N.Hemisphere 北半球		S.Hemisphere 南半球		Relative Number (10g+f) 相對數				Area ( in millionth hemisphere) 面積		Small Type Groups A.B.型 群數	Seeing 視相 Q (1-5)	Remark 備考
		g	f	g	f	g	f	g	f	W	C	N	S	N	S			
		1																
2																		Rain
3																		Rain
4	02:04	6	32	1	5	5	29	1	3	92	321	15	55	221.019	2.60687	4	3	
5																		Cloud
6																		Cloud
7																		Cloud
8																		None
9	02:55	6	42	2	16	4	35	2	7	102	422	36	164	187.356	5.65567	2	3	
10	02:00	6	35	2	18	5	33	1	2	95	352	38	185	210.793	1.761	2	3	
11	01:35	6	32	2	24	5	31	1	1	92	322	44	245	130.923	3.20512	2	3	
12	02:55	4	17	1	9	3	15	1	2	57	171	19	93	30.0685	2.29682	2	4	
13																		Rain
14																		Rain
15																		Rain
16																		Rain
17																		Rain
18	01:55	3	22	0	0	1	4	2	18	52	220	0	1	18.4469	186.088	0	3	
19																		Cloud
20	06:30	3	5	1	2	0	0	3	5	35	51	12	20	0	132.062	1	3	
21	01:43	3	5	1	2	0	0	3	5	35	51	12	20	0	119.476	1	3	
22	02:57	6	9	2	5	2	2	4	7	69	92	25	52	6.61977	113.107	4	4	
23																		Rain
24																		Rain
25																		Cloud
26	01:54	5	12	2	3	2	2	3	10	62	122	23	32	22.3775	60.3389	2	4	
27																		Rain
28																		Rain
29																		Rain
30	03:08	7	46	0	0	5	20	2	26	116	460	0	5	182.442	231.305	0	3	
31	02:10	8	54	1	2	6	17	2	37	134	541	12	26	169.342	473.749	1	3	
Mean No.		5.25	25.92	1.25	7.17	3.17	15.67	2.08	10.25	78.42	260.42	19.67	74.83	98	111	Obs. Days: 12		

Location Lat. : 25°10 N

Long. : 121°52 E

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# 太陽黑子觀測月報

Jun. 2011

Taipei Astronomical Museum

Shi-Lin, Taipei

Taiwan 111

Republic of China

Date 日期	Obs. Time (U.T.) 觀測時間	Whole 全日面		Central Circle 中心區		N.Hemisphere 北半球		S.Hemisphere 南半球		Relative Number (10g+f) 相對數				Area ( in millionth hemisphere) 面積		Small Type Groups A.B.型 群數	Seeing 視相 Q (1-5)	Remark 備考
		g	f	g	f	g	f	g	f	W	C	N	S	N	S			
		1	01:30	6	48	2	10	4	17	2	31	108	482	30	104			
2																		Rain
3																		Cloud
4																		None
5																		None
6	02:03	4	29	2	12	2	12	2	17	69	292	32	122	119.672	59.6348	0	3	
7	03:32	4	17	1	4	2	9	2	8	57	171	14	42	101.241	25.4365	0	3	
8	02:22	4	11	1	3	2	8	2	3	51	111	13	32	63.4579	20.7307	1	4	
9	02:15	3	4	1	2	2	3	1	1	34	41	12	22	46.6508	7.20108	2	3	
10	03:13	4	8	0	0	2	4	2	4	48	80	0	2	7.66365	16.2635	3	3	
11																		None
12	02:35	1	2	0	0	0	0	1	2	12	20	0	0	0	5.75369	1	2	
13																		Cloud
14	01:33	2	15	1	12	1	3	1	12	35	151	22	121	134.747	3.32289	0	4	
15	01:48	2	35	1	22	1	13	1	22	55	351	32	221	254.852	11.7933	0	4	
16	02:32	2	30	1	18	1	12	1	18	50	301	28	181	187.195	27.2472	0	3	
17	02:58	2	27	0	0	1	16	1	11	47	270	0	1	169.264	76.3914	0	2	
18	01:54	2	49	0	0	1	27	1	22	69	490	0	1	299.664	48.5167	0	3	
19	01:45	4	37	3	28	2	26	2	11	77	373	58	282	310	9.13183	1	4	
20																		Cloud
21																		Cloud
22	02:15	3	26	2	19	2	19	1	7	56	262	39	192	283.91	1.94697	0	3	
23	02:33	5	23	4	19	3	10	2	13	73	234	59	193	235.541	8.90919	2	4	
24	01:43	4	38	2	27	3	25	1	13	78	382	47	273	235.143	6.85545	1	3	
25																		Rain
26																		Rain
27																		Rain
28																		Rain
29																		Rain
30	02:13	4	23	2	15	3	21	1	2	63	232	35	153	92.4668	13.4747	1	3	
Mean No.		3.29	24.82	1.35	11.24	1.88	13.24	1.41	11.59	57.76	249.59	24.76	114.24	158	35	Obs. Days: 17		

Location Lat. : 25°10 N

Long. : 121°52 E

Telescope : 20cm Refractor f=9.0

Magnification : 64 Projection

# 太陽黑子觀測月報

Jul. 2011

Taipei Astronomical Museum

Shi-Lin, Taipei

Taiwan 111

Republic of China

Date 日期	Obs. Time (U.T.) 觀測時間	Whole		Central Circle		N.Hemisphere		S.Hemisphere		Relative Number (10g+f)				Area ( in millionth hemisphere) 面積		Small Type Groups A.B.型 群數	Seeing 視相 Q (1-5)	Remark 備考
		全日面		中心區		北半球		南半球		相對數								
		g	f	g	f	g	f	g	f	W	C	N	S	N	S			
1	01:56	3	35	1	9	3	35	0	0	65	351	19	93	76.4244	0	0	4	
2																		None
3	02:30	2	21	2	21	2	21	0	0	41	212	41	212	58.18	0	0	2	
4	03:08	3	25	1	12	3	25	0	0	55	251	22	123	123.247	0	1	3	
5	03:27	2	14	1	8	2	14	0	0	34	141	18	82	157.68	0	0	4	
6	05:43	2	20	0	0	2	20	0	0	40	200	0	2	91.1145	0	0	4	
7																		None
8																		None
9	01:47	3	16	1	10	2	6	1	10	46	161	20	102	24.4823	17.4842	1	3	
10	06:01	3	26	3	26	1	3	2	23	56	263	56	261	10.9335	33.112	0	3	
11	06:20	5	16	3	10	2	3	3	13	66	163	40	102	26.5366	97.935	2	3	
12	02:50	5	12	2	3	2	3	3	9	62	122	23	32	69.9679	95.7308	3	2	
13	02:28	5	20	2	4	2	3	3	17	70	202	24	42	91.9947	116.827	3	3	
14																		Cloud
15	02:48	6	21	0	0	4	9	2	12	81	210	0	4	139.3	124.376	2	3	
16																		None
17																		None
18																		Cloud
19	07:50	7	38	3	21	5	20	2	18	108	383	51	215	311.146	83.202	2	2	
20	02:20	5	34	2	24	3	11	2	23	84	342	44	243	149.507	96.4109	2	3	
21	01:26	4	37	0	0	3	14	1	23	77	370	0	3	122.871	154.985	1	3	
22	02:12	3	36	0	0	2	18	1	18	66	360	0	2	89.6538	48.5859	0	3	
23	02:57	3	21	1	7	2	9	1	12	51	211	17	72	102.758	23.3973	0	4	
24	01:57	4	10	1	5	3	8	1	2	50	101	15	53	12.1179	2.99393	3	3	
25	02:22	4	8	3	7	4	8	0	0	48	83	37	74	13.5541	0	3	4	
26																		Rain
27	01:52	4	38	2	8	4	38	0	0	78	382	28	84	227.599	0	1	4	
28	02:15	6	53	1	2	5	51	1	2	113	531	12	25	638.667	5.19947	3	3	
29	01:43	5	70	2	40	4	69	1	1	120	702	60	404	1082.08	3.27529	2	4	
30	02:32	4	62	2	27	4	62	0	0	102	622	47	274	1072.21	0	1	3	
31	02:55	4	63	2	52	4	63	0	0	103	632	72	524	1272.89	0	0	3	
Mean No.		4.00	30.26	1.52	12.87	2.96	22.30	1.04	7.96	70.26	304.13	28.09	131.65	259	39	Obs. Days: 23		

Location Lat. : 25°10 N

Long. : 121°52 E

Telescope : 20cm Refractor f=9.0

Magnification : 64 Projection

# 太陽黑子觀測月報

Aug. 2011

Taipei Astronomical Museum

Shi-Lin, Taipei

Taiwan 111

Republic of China

Date 日期	Obs. Time (U.T.) 觀測時間	Whole		Central Circle		N.Hemisphere		S.Hemisphere		Relative Number (10g+f)				Area ( in millionth hemisphere) 面積		Small Type Groups A.B.型 群數	Seeing 視相 Q (1-5)	Remark 備考
		全日面		中心區		北半球		南半球		相對數								
		g	f	g	f	g	f	g	f	W	C	N	S	N	S			
1	02:38	4	42	2	30	4	42	0	0	82	422	50	304	1230.1	0	1	3	
2	01:33	5	92	2	78	4	91	1	1	142	922	98	784	1465.14	1.84146	2	4	
3	01:20	3	87	2	78	3	87	0	0	117	872	98	783	1491.95	0	0	3	
4	02:02	5	89	2	39	5	89	0	0	139	892	59	395	1279.9	0	1	3	
5	06:50	5	69	1	34	4	62	1	7	119	691	44	344	868.191	6.52022	0	3	
6	01:55	4	61	0	0	3	46	1	15	101	610	0	3	683.721	30.9145	1	3	
7	03:15	4	50	2	20	3	37	1	13	90	502	40	203	703.25	17.7137	0	3	
8	01:37	4	57	3	28	3	51	1	6	97	573	58	283	517.414	6.90732	0	4	
9																		Rain
10	01:45	3	26	2	19	3	26	0	0	56	262	39	193	217.452	0	0	3	
11	01:30	5	12	1	3	3	8	2	4	62	121	13	33	9.31123	9.70251	5	3	
12																		Cloud
13																		None
14																		None
15																		None
16	02:45	2	9	1	1	2	9	0	0	29	91	11	12	137.074	0	1	4	
17	01:12	3	22	1	7	1	13	2	9	52	221	17	71	293.495	27.8928	0	4	
18	03:14	3	20	1	6	1	13	2	7	50	201	16	61	144.87	22.4745	1	4	
19	02:27	4	26	2	4	2	21	2	5	66	262	24	42	304.814	39.1088	2	3	
20	02:27	2	21	1	17	1	17	1	4	41	211	27	171	2580.64	22.7109	0	3	
21	01:52	4	33	1	20	3	24	1	9	73	331	30	203	287.716	26.2371	0	3	
22	02:01	4	51	2	45	3	36	1	15	91	512	65	453	243.439	36.3069	0	3	
23	03:29	4	30	2	27	3	24	1	6	70	302	47	273	262.658	18.1877	2	3	
24	03:10	3	16	1	13	3	16	0	0	46	161	23	133	152.487	0	2	2	
25	01:22	6	35	1	1	5	34	1	1	95	351	11	15	227.561	2.26008	4	4	
26	02:16	7	32	3	10	6	30	1	2	102	323	40	106	166.122	1.7988	3	3	
27																		Rain
28	01:54	5	14	2	8	4	13	1	1	64	142	28	84	150.534	17.8119	2	4	
29																		Rain
30	02:20	6	13	3	6	4	9	2	4	73	133	36	64	80.0319	8.43979	4	4	
31																		Rain
Mean No.		4.13	39.43	1.65	21.48	3.17	34.70	0.96	4.74	80.74	396.00	38.00	217.96	587	13	Obs. Days: 23		

Location Lat. : 25°10 N  
 Long. : 121°52 E

# 太陽黑子觀測月報

Taipei Astronomical Museum  
 Shi-Lin, Taipei

Telescope : 20cm Refractor f=9.0  
 Magnification : 64 Projection

Sep. 2011

Taiwan 111  
 Republic of China

Date 日期	Obs. Time (U.T.) 觀測時間	Whole 全日面		Central Circle 中心區		N.Hemisphere 北半球		S.Hemisphere 南半球		Relative Number (10g+f) 相對數				Area ( in millionth hemisphere) 面積		Small Type Groups A.B.型 群數	Seeing 視相 Q (1-5)	Remark 備考
		g	f	g	f	g	f	g	f	W	C	N	S	N	S			
		1	02:00	8	73	3	31	6	46	2	27	153	733	61	316			
2	02:15	7	86	2	9	6	62	1	24	156	862	29	96	448.102	94.3634	1	3	
3	01:25	8	86	1	17	6	68	2	18	166	861	27	176	401.507	118.494	0	3	
4																		Cloud
5																		None
6	01:40	7	56	1	41	4	44	3	12	126	561	51	414	295.374	147.705	2	4	
7	01:33	5	52	1	39	2	42	3	10	102	521	49	392	546.987	102.548	2	4	
8	01:42	3	31	0	0	2	29	1	2	61	310	0	2	679.16	93.4043	0	4	
9	01:40	4	27	0	0	2	20	2	7	67	270	0	2	768.852	106.997	1	3	
10	02:35	5	22	1	2	3	16	2	6	72	221	12	23	454.745	57.7391	2	4	
11	03:10	4	21	2	14	2	12	2	9	61	212	34	142	323.522	51.786	0	3	
12																		Cloud
13	02:35	8	50	3	31	4	26	4	24	130	503	61	314	542.842	85.0185	3	2	
14	02:30	10	80	4	34	5	44	5	36	180	804	74	345	589.118	101.195	2	4	
15	02:05	11	102	3	29	6	73	5	29	212	1023	59	296	777.832	171.058	2	3	
16	01:45	9	104	2	10	6	78	3	26	194	1042	30	106	889.059	114.227	0	3	
17	01:35	10	94	5	69	6	70	4	24	194	945	119	696	775.478	79.896	1	3	
18	01:40	5	99	3	84	4	80	1	19	149	993	114	844	812.142	19.6826	0	3	
19																		Cloud
20																		Cloud
21																		Cloud
22																		Cloud
23																		Cloud
24	01:55	5	59	2	20	4	58	1	1	109	592	40	204	1733.22	3.46107	1	2	
25	03:17	6	30	3	17	5	27	1	3	90	303	47	175	920.498	11.9709	2	3	
26	02:00	6	83	3	48	5	80	1	3	143	833	78	485	1289.2	23.779	0	3	
27	01:33	7	79	4	67	7	79	0	0	149	794	107	677	1350.8	0	0	4	
28	01:35	6	50	2	37	6	50	0	0	110	502	57	376	1260.54	0	0	2	
29	02:09	7	63	2	48	7	63	0	0	133	632	68	487	1149.38	0	1	3	
30																		Rain
Mean No.		6.71	64.14	2.24	30.81	4.67	50.81	2.05	13.33	131.29	643.67	53.19	312.76	778	71	Obs. Days: 21		

Location Lat. : 25°10 N

Long. : 121°52 E

Telescope : 20cm Refractor f=9.0

Magnification : 64 Projection

# 太陽黑子觀測月報

Oct. 2011

Taipei Astronomical Museum

Shi-Lin, Taipei

Taiwan 111

Republic of China

Date 日期	Obs. Time (U.T.) 觀測時間	Whole		Central Circle		N.Hemisphere		S.Hemisphere		Relative Number (10g+f)				Area ( in millionth hemisphere) 面積		Small Type Groups A.B.型 群數	Seeing 視相 Q (1-5)	Remark 備考
		全日面		中心區		北半球		南半球		相對數								
		g	f	g	f	g	f	g	f	W	C	N	S	N	S			
1																		Rain
2																		Rain
3																		Rain
4																		Rain
5																		Cloud
6																		Cloud
7	01:51	7	29	2	12	4	11	3	18	99	292	32	124	738.632	268.011	2	2	
8																		Cloud
9																		Rain
10																		Cloud
11																		Cloud
12																		Rain
13	01:45	11	79	2	13	7	41	4	38	189	792	33	137	768.325	446.712	3	4	
14																		Rain
15																		Rain
16																		None
17	01:08	10	90	3	65	5	65	5	25	190	903	95	655	1151.75	397.71	2	3	
18	03:00	9	89	3	67	5	63	4	26	179	893	97	675	746.32	282.733	0	3	
19	05:43	7	71	1	7	4	52	3	19	141	711	17	74	986.597	146.975	1	3	
20																		Rain
21																		Rain
22																		None
23	01:30	8	125	2	78	5	98	3	27	205	1252	98	785	416.891	167.967	2	4	
24	02:27	5	40	2	25	4	35	1	5	90	402	45	254	693.638	92.6628	1	4	
25																		Rain
26																		Cloud
27	01:55	6	65	3	52	4	60	2	5	125	653	82	524	628.051	57.7008	1	4	
28	02:30	5	64	2	47	4	63	1	1	114	642	67	474	591.507	21.5197	0	3	
29	02:05	4	72	1	60	4	72	0	0	112	721	70	604	491.833	0	1	4	
30																		Cloud
31																		Cloud
Mean No.		7.20	72.40	2.10	42.60	4.60	56.00	2.60	16.40	144.40	726.10	63.60	430.60	721	188	Obs. Days: 10		

Location Lat. : 25°10 N

Long. : 121°52 E

Telescope : 20cm Refractor f=9.0

Magnification : 64 Projection

# 太陽黑子觀測月報

Nov. 2011

Taipei Astronomical Museum

Shi-Lin, Taipei

Taiwan 111

Republic of China

Date 日期	Obs. Time (U.T.) 觀測時間	Whole		Central Circle		N.Hemisphere		S.Hemisphere		Relative Number (10g+f)				Area ( in millionth hemisphere) 面積		Small Type Groups A.B.型 群數	Seeing 視相 Q (1-5)	Remark 備考
		全日面		中心區		北半球		南半球		相對數								
		g	f	g	f	g	f	g	f	W	C	N	S	N	S			
1	03:15	1	3	0	0	1	3	0	0	13	30	0	1	35	0	1	4	
2																		Cloud
3																		Cloud
4																		Cloud
5																		Rain
6																		Rain
7																		Rain
8																		Rain
9	02:35	3	8	1	1	1	1	2	7	38	81	11	11	4	10	2	4	
10	01:52	4	13	1	5	2	4	2	9	53	131	15	52	7	8	2	4	
11	01:33	3	30	2	25	2	6	1	24	60	302	45	252	30	40	1	3	
12	01:45	2	22	2	22	1	10	1	12	42	222	42	221	18	11	0	2	
13																		Rain
14																		Rain
15																		Rain
16																		Rain
17																		Cloud
18																		Cloud
19																		Cloud
20																		Cloud
21																		Cloud
22																		None
23																		Rain
24	01:24	1	3	1	3	1	3	0	0	13	31	13	31	44	0	0	4	
25																		Rain
26																		Cloud
27	01:50	1	2	0	0	1	2	0	0	12	20	0	1	9	0	0	4	
28	05:53	2	14	1	9	1	9	1	5	34	141	19	91	8	8	0	2	
29																		None
30																		None
Mean No.		2.13	11.9	1.00	8.1	1.25	4.8	0.88	7.1	33.1	119.8	18.1	82.5	19	9	Obs. Days: 8		

Location Lat. : 25°10 N

Long. : 121°52 E

Telescope : 20cm Refractor f=9.0

Magnification : 64 Projection

# 太陽黑子觀測月報

Dec. 2011

Taipei Astronomical Museum

Shi-Lin, Taipei

Taiwan 111

Republic of China

Date 日期	Obs. Time (U.T.) 觀測時間	Whole		Central Circle		N.Hemisphere		S.Hemisphere		Relative Number (10g+f)				Area ( in millionth hemisphere) 面積		Small Type Groups A.B.型 群數	Seeing 視相 Q (1-5)	Remark 備考
		全日面		中心區		北半球		南半球		相對數								
		g	f	g	f	g	f	g	f	W	C	N	S	N	S			
1	02:14	1	30	1	30	1	30	0	0	40	301	40	301	260	0	0	4	
2	03:10	2	24	0	0	2	24	0	0	44	240	0	2	442	0	0	4	
3																		Cloud
4	03:41	4	10	1	4	4	10	0	0	50	101	14	44	521	0	1	4	
5																		None
6	01:15	3	11	1	5	3	11	0	0	41	111	15	53	549	0	0	4	
7																		Cloud
8	01:45	2	8	0	0	2	8	0	0	28	80	0	2	542	0	0	3	
9	01:50	3	7	1	4	3	7	0	0	37	71	14	43	485	0	1	4	
10																		None
11																		None
12	08:06	3	6	2	4	3	6	0	0	36	62	24	43	561	0	1	4	
13	01:37	3	8	1	3	3	8	0	0	38	81	13	33	523	0	1	3	
14																		Rain
15																		Rain
16																		Rain
17	02:35	1	1	1	1	1	1	0	0	11	11	11	11	3	0	1	3	
18																		None
19	03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
20	02:04	1	2	1	2	1	2	0	0	12	21	12	21	2	0	1	4	
21	05:50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
22	03:14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
23	02:00	1	1	1	1	1	1	0	0	11	11	11	11	2	0	1	3	
24	01:49	2	4	0	0	0	0	2	4	24	40	0	0	0	7	2	4	
25																		Rain
26	06:33	2	11	1	8	1	8	1	3	31	111	18	81	7	16	0	3	
27	02:20	2	11	2	11	2	11	0	0	31	112	31	112	8	0	0	5	
28	07:40	1	5	1	5	1	5	0	0	15	51	15	51	14	0	0	2	
29	01:48	2	8	1	7	1	7	1	1	28	81	17	71	9	3	1	4	
30																		None
31	01:47	4	9	0	0	3	8	1	1	49	90	0	3	193	2	2	3	
Mean No.		1.85	7.8	0.75	4.3	1.60	7.4	0.25	0.5	26.3	78.8	11.8	44.1	206	1	Obs. Days: 20		

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