



S3900	16-18	272-273	Jan. 9	Jan. 3	Jan.15	J 2	-	J 2	J 2	J 2	J 2	C 5	J 2	J 2	-	J 2	J 2	J 2	
S3901	6	261	-	Jan. 5	Jan. 7	J 2	J 2	J 2											
S3902	21	288	-	Jan. 6	Jan. 6						A 1								
S3903	16-18	280-289	Jan. 8	Jan. 7	Jan.14						A 4	D 7	D11	D14	D15	-	G 6	C 4	
S3904	22	256	Jan.10	Jan. 9	Jan.10						J 2	A 1							
S3905	34	262	-	Jan.10	Jan.10								A 1						
S3906	6	260	Jan.10	Jan.10	Jan.10								A 1						
S3907	17	226	-	Jan.11	Jan.11							A 1							
S3908	6-15	162-172	Jan.17	Jan.13	Jan.23	C15	C19	F32	F19	F19	-	F22	F17	F12	G 8	C 4			
S3909	10-11	150-153	-	Jan.15	Jan.16								B 2	A 1					
S3910	15-16	178-181	Jan.16	Jan.16	Jan.17								B 3	C 5					
S3911	7-10	187-200	-	Jan.17	Jan.21									D 9	-	D14	F 8	C 3	
S3912	15	183-187	-	Jan.17	Jan.19									A 1	-	B 2			
S3913	20	185-186	-	Jan.17	Jan.17									A 2					
S3914	13-13	153-158	Jan.18	Jan.17	Jan.21						A 1	-	C12	C 7	A 3				
S3915	25	73	-	Jan.19	Jan.22	A 1	A 1	..	A 1										
S3916	24	100	-	Jan.20	Jan.20														
S3917	8-10	89-94	Jan.22	Jan.20	Jan.23					D 5	D 6	C 2	B 2						
S3918	2-5	91-95	Jan.22	Jan.21	Jan.23							D10	C 8	B 4					
S3919	7-12	47-54	Jan.25	Jan.21	Jan.30	J 2	D 8	D 9	-	D10	C 7	C 6	J 2	J 2	J 2				
S3920	17	59-60	Jan.25	Jan.25	Jan.27							A 2	..	A 1					
S3921	10-16	314-332	Feb. 1	Jan.26	Feb. 8	J 2	G 5	E13	E25	F36	F51	F44	F45	-	-	F32	F20	G 9	J 2
S3922	8	78	-	Jan.27	Jan.27											J 2			
S3923	11-16	356- 8	Jan.29	Jan.27	Feb. 2						C 9	D19	D18	F19	F13	G10	G10		
S3924	9-12	336-344	Jan.31	Jan.27	Feb. 5									D19	C14	C 9	-	-	A 1
S3925	15-22	287-298	Feb. 3	Jan.29	Feb.10	A 1	B 5	C13	C18	C14	-	-	C14	C12	D12	D 8	B 4	A 1	
S3926	13-17	280-289	Feb. 4	Jan.30	Feb. 6	C 5	C 4	D 6	C 8	-	-	C 4	A 1						
S3927	16	266	Feb. 5	Jan.31	Feb. 6	J 2	J 2	J 2	-	-	A 1	A 1							
S3928	13-20	270-273	Feb. 5	Jan.31	Feb.10	A 1	J 2	J 2	-	-	B 7	C 6	J 2	J 2	A 1	A 1			

TABLE OF SUNSPOT GROUPS ( Feb. 1982 )

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side		C.M.	W-Side	
	Lati- tude	Longi- tude								
N4663	12-15	284-296	-	Feb. 5	Feb. 9				D 6 D16 D11 E13 G 6	
N4664	7	287	-	Feb. 5	Feb. 5				A 1	
N4665	21	324	-	Feb. 5	Feb. 5					A 1
N4666	18	244	-	Feb. 6	Feb. 6			A 1		
N4667	20-21	210-216	Feb. 9	Feb. 8	Feb. 15			B 2	D 6 D 5 D 4 J 2 B 3 C 6 C 4	
N4668	13-14	156-158	Feb. 14	Feb. 8	Feb. 16	J 2 J 2 J 2 J 2 J 2 J 3	J 4	J 4 J 3		
N4669	9-11	282-286	-	Feb. 9	Feb. 10					B 3 A 2
N4670	7	154	-	Feb. 9	Feb. 10	B 2 A 1				
N4671	15	181	-	Feb. 10	Feb. 10			A 1		
N4672	0-5	94-112	Feb. 17	Feb. 12	Feb. 23	H 3 G10 G14 G17 G16	-	- - - -	- - - -	G17 G13
N4673	3-4	83-91	-	Feb. 14	Feb. 14	B 2				
N4674	10-15	58-70	Feb. 21	Feb. 15	Feb. 25	A 1 D 8 - - - -	-	-	G18 G12 - A 1	
N4675	9-11	108-110	-	Feb. 16	Feb. 16			A 3		
N4676	3-6	18-26	Feb. 24	Feb. 22	Feb. 26			D 5 D 7	-	C13 D 8
N4677	8	358	-	Feb. 22	Feb. 23	J 2 J 2				
N4678	3-6	314-318	-	Feb. 25	Feb. 27	D 5 D 4 J 2				
N4679	7-8	297-301	Mar. 2	Feb. 25	Mar. 4	D 6 C 6 C 4 J 2	-	-	J 2 A 1	
N4680	11-15	303-310	Mar. 2	Feb. 25	Mar. 8	H 7 C11 D14 D16	-	-	H11 H 9 - -	H 2 J 2
N4681	13-16	284-296	Mar. 3	Feb. 25	Mar. 9	J 4 C 9 C11 D20	-	-	D33 G20 - -	C 8 D 8 J 2
N4682	16-17	39-42	-	Feb. 26	Feb. 26					C 4
N4683	4-5	0-1	Mar. 26	Feb. 26	Feb. 26			A 3		
N4684	8	341-343	Mar. 27	Feb. 26	Mar. 3			A 1 A 2	.. - -	A 1

S3929	6-7	253-262	Feb. 6	Feb. 2	Feb. 10	C 3	-	-	C 8	J 4	J 3	J 3	A 2	A 1				
S3930	22	283	-	Feb. 5	Feb. 8						J 2	J 3	J 2	J 2				
S3931	18	278	Feb. 5	Feb. 5	Feb. 5					A 1								
S3932	3	259-260	Feb. 6	Feb. 5	Feb. 6				A 1	A 2								
S3933	18	227-228	-	Feb. 5	Feb. 7				A 2	A 2	A 3							
S3934	7-15	201-220	Feb. 9	Feb. 5	Feb. 16	E19	E40	F49	F65	F57	F85	G68	F66	F55	F37	F24	H14	
S3935	8-12	188-198	Feb. 11	Feb. 5	Feb. 16	B 5	C11	D15	D15	C18	D15	C24	C20	C14	C13	C10	J 2	
S3936	5-9	289-297	Feb. 3	Feb. 6	Feb. 9									C11	C 9	C10	C 4	
S3937	13-15	183-189	Feb. 12	Feb. 6	Feb. 12	A 1	J 2	J 3	J 2	C 5	A 1	A 2						
S3938	0-1	183-184	Feb. 12	Feb. 6	Feb. 16	J 2	J 2	J 2	J 2	J 2	J 2	J 2	J 2	J 2	J 2	J 2	J 2	
S3939	20	207-215	Feb. 9	Feb. 7	Feb. 13				B 3	C 7	D 7	C 7	A 2	..	A 1			
S3940	1-15	163-169	Feb. 13	Feb. 7	Feb. 16	J 2	J 3	J 4	H 5	H 9	C11	C10	D20	D13	C10			
S3941	9-10	176-178	Feb. 12	Feb. 8	Feb. 16		J 2	J 2	A 2	A 2	B 4	B 5	A 2	..	A 2			
S3942	12-15	3-6	Feb. 25	Feb. 23	Mar. 3				J 4	-	J 2	C 3	J 3	J 2	-	-	J 2	
S3943	6-8	343-350	Feb. 26	Feb. 23	Mar. 4			J 2	-	J 2	J 3	J 3	J 2	-	-	J 2	J 2	
S3944	10-15	326-336	Feb. 28	Feb. 23	Mar. 4	D 4	-	D 4	D 7	D10	D10	-	-	D 4	C 3			
S3945	20	3	Feb. 25	Feb. 25	Feb. 25						A 1							
S3946	5-8	296-304	Mar. 2	Feb. 25	Mar. 8	J 2	J 2	J 3	C 4	-	-	C 5	D 9	-	-	C 5	J 2	
S3947	11-13	349-353	Feb. 26	Feb. 26	Feb. 28						A 2	B 3	B 3					
S3948	11-18	319-325	Mar. 1	Feb. 26	Mar. 3			B 6	B14	B 6	-	-	A 2					
S3949	15-18	303-312	Mar. 2	Feb. 27	Mar. 4			J 2	D 7	-	-	C11	C 6					
S3950	18-26	259-274	Mar. 4	Feb. 27	Mar. 11	D12	D14	-	-	E44	E44	-	-	C25	H14	C 8	J 5	J 2

TABLE OF SUNSPOT GROUPS  
MARCH 1982

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side					C.M.	W-Side				
	Lati-tude	Longi-tude				E10	E19	E21	E18	E18		B4	G26	E21	E14	E7
N4685	0-	7175-188	Mar.11	Mar. 7	Mar.17	G10	E19	E21	E18	E18	-	G26	E21	-	E14	E7
N4686	7-10	185-192	Mar.11	Mar. 7	Mar.13	A 1	J 2	J 3	A 1	B 4	-	B 4				
N4687	29	197	-	Mar. 8	Mar. 8			A 1								
N4688	10-13	120-123	Mar.16	Mar.10	Mar.19	H 2	H 2	-	H 4	H 5	-	H 3	H 4	H 5	H 3	
N4689	0-	4117-122	Mar.16	Mar.10	Mar.19	J 2	J 4	-	C10	D13	-	C19	D21	C14	D11	
N4690	12	253	-	Mar.11	Mar.11											A 1
N4691	21-24	166-172	-	Mar.13	Mar.14							D12	D 6			
N4692	5- 7	94-104	Mar.17	Mar.13	Mar.23	C 4	D 9	-	D12	D 9	D21	D16	-	-	-	C 3
N4693	3	105	-	Mar.14	Mar.14	A 1										
N4694	13-15	83-86	Mar.19	Mar.16	Mar.25	J 5	J 3	J 3	J 6	-	-	-	-	J 2	J 2	A 1
N4695	10-12	82-87	Mar.19	Mar.16	Mar.24	C 8	C 9	C 6	B 5	-	-	-	C 4	A 2		
N4696	1-	2103-104	Mar.17	Mar.17	Mar.19				A 2	A 1	A 1					
N4697	16-19	37-40	Mar.22	Mar.17	Mar.27	J 2	J 2	J 2	-	-	-	C 5	C 4	J 2	J 2	J 2
N4698	0-	3 19-27	Mar.23	Mar.17	Mar.29	A 1	J 2	H 5	-	-	C 8	H 5	C 5	H 3	H 2	H 3
N4699	3	13	-	Mar.23	Mar.25				A 2	..	A 1					
N4700	11-14	358- 5	Mar.25	Mar.23	Mar.30				D11	D 6	C 7	C 5	J 3	J 3	J 2	J 2
N3701	10	0	-	Mar.23	Mar.23				A 1							
N3702	6-14	305-320	Mar.28	Mar.23	Apr. 4	D10	E14	E31	E27	E24	E31	E35	E38	E39	E30	F25 - H 3
N3703	17-18	319-326	Mar.28	Mar.24	Mar.28	B 3	D 5	B 3	A 1	A 1						
N3704	17-18	338-339	Mar.27	Mar.27	Mar.27				A 3							
N3705	16-17	259-269	Apr. 1	Mar.27	Apr. 6	A 1	D 4	C 3	J 6	C 6	J 4	C 9	-	D 6	J 2	J 2
N3706	5-	6354-357	-	Mar.28	Mar.30									B 3	C 4	J 2
N3707	17-19	311-315	Mar.29	Mar.29	Apr. 2						A 2	J 4	B 3	B 4	D 5	
N3708	12	295	-	Mar.29	Mar.29				A 1							

S3951	10-15260-274	Mar. 4	Mar. 3	Mar.11		D23	D22	-	-	E31	E33	E26	E13	J 4
S3952	10 272	Mar. 4	Mar. 4	Mar. 4			A 1							
S3953	6-10200-207	Mar. 9	Mar. 4	Mar.14	J 2	-	-	J 2	C 4	J 3	J 2	C 4	-	J 2 J 2
S3954	6- 9220-228	Mar. 8	Mar. 7	Mar.10					C11	C10	B 3	B 3		
S3955	12-13191-194	Mar.10	Mar. 7	Mar.14				J 2	J 2	J 3	C 3	J 2	-	J 2 A 1
S3956	15-17160-164	Mar.13	Mar. 7	Mar.17	A 4	J 6	J 5	J 6	C 7	-	C 4	J 4	-	J 2 A 1
S3957	17-18207-211	-	Mar.10	Mar.10							B 3			
S3958	8 191	-	Mar.10	Mar.10					A 1					
S3959	0- 1185-186	-	Mar.10	Mar.10					A 2					
S3960	9-11214-209	-	Mar.11	Mar.11										
S3961	5-11 97-111	Mar.17	Mar.11	Mar.23	J 2	-	D13	D22	-	E45	E49	E65	E68	- - - C22
S3962	20 157-160	Mar.13	Mar.13	Mar.13							B 2			
S3963	1- 2119-122	Mar.16	Mar.13	Mar.18				A 4	B 6	-	B 2	A 3	A 1	
S3964	9-14 74-79	Mar.19	Mar.13	Mar.25	J 2	H 2	-	H 2	H 2	H 3	C 6	-	-	- D 9 D 2 J 2
S3965	13-15 1- 3	Mar.25	Mar.19	Mar.31	J 2	-	-	-	J 2	J 3	J 2	J 2	J 2	J 2 J 2 J 2
S3966	10 348	-	Mar.23	Mar.23					A 1					
S3967	14 334	-	Mar.23	Mar.23					A 1					
S3968	10-15315-322	Mar.28	Mar.23	Apr. 2		D 5	D 6	C 8	D12	D19	D15	C18	C15	C 4 D 6 C 4
S3969	16-19296-306	Mar.29	Mar.23	Apr. 5	J 2	J 2	H 4	D 9	D13	D15	D16	D12	D 6	D 6 J 2 - J 2 A 1
S3970	15-17333-341	Mar.27	Mar.25	Apr. 1					C 3	A 1	B 5	B 9	B 8	D 9 C 5 J 2
S3971	20-22272-281	Mar.31	Mar.25	Apr. 1	J 3	C 7	C10	C10	C12	C 6	C 8	C 5		
S3972	16 274	Mar.31	Mar.26	Apr. 1		J 2	J 2	J 2	J 2	J 2	J 2	A 1		
S3973	15 326	-	Mar.27	Mar.27							A 1			
S3974	18 310	-	Mar.28	Mar.30							A 1	..	A 2	
S3975	10-11310-313	-	Mar.30	Mar.30										B 2
S3976	24-25 340	-	Mar.31	Mar.31										A 2
S3977	16-21210-220	Apr. 5	Mar.31	Apr.11	A 1	C 5	D 9	-	D16	D16	C15	-	-	- J 2 A 1

TABLE OF SUNSPOT GROUPS

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	APRIL 1982													
	Latitude	Longitude				E-Side					C.M.	W-Side							
N4709	3-	6185-193	Apr. 7	Apr. 1	Apr. 13	J 2	J 2	-	J 5	J 4	C 5	-	-	-	D 8	D 9	D 6	A 1	
N4710	10-	11250-259	-	Apr. 4	Apr. 4													A 2	
N4711	5-	8198-202	Apr. 6	Apr. 4	Apr. 6				A 3	B 6	D10								
N4712	5-	6164-165	Apr. 9	Apr. 4	Apr. 11	J 2	J 2	J 2	-	-	-	-	J 2	A 1					
N4713	7-	3155-157	-	Apr. 4	Apr. 6	A 3	J 5	J 5											
N4714	13-	17116-129	Apr. 12	Apr. 10	Apr. 18				D14	D16	D32	E28	-	-	G17	G 6	A 1		
N4715	9-	12111-119	Apr. 12	Apr. 10	Apr. 18				J 2	J 2	C 5	J 2	-	-	J 2	J 2	J 2		
N4716	1-	2106-109	Apr. 13	Apr. 10	Apr. 13				J 3	J 3	J 3	C 4	-	-	J 2	J 2	A 1		
N4717	14-	81-82	Apr. 15	Apr. 10	Apr. 18	J 2	J 2	J 2	J 2	-	-	J 2	J 2	A 1					
N4718	1-	4 26-28	Apr. 19	Apr. 13	Apr. 25	J 2	-	-	H 3	H 2	H 2	H 2	H 2	-	H 3	H 2	C 3	J 2	
N4719	19-	20 82-84	-	Apr. 16	Apr. 17							A 2	A 1						
N4720	2-	3309-314	Apr. 25	Apr. 19	Apr. 29	J 2	C 4	-	C 7	C 4	J 3	C 3	J 2	J 2	J 2	J 3			
N4721	9-	11303-309	Apr. 25	Apr. 19	Apr. 29	J 2	J 2	-	J 2	C 6	C 6	C 7	C 4	J 3	J 5	J 3			
N4722	11-	20309-321	Apr. 25	Apr. 20	Apr. 29		C 4	-	D21	D37	E44	E40	E39	E24	C23	C 7			
N4723	5-	9307-317	Apr. 25	Apr. 20	Apr. 29	A 1	-	B10	D23	D21	D20	D19	G11	G13	F11				
N4724	1-	3333-335	Apr. 23	Apr. 22	Apr. 24					A 2	A 3	B 2							
N4725	0	347-351	-	Apr. 23	Apr. 27								D 6	C 4	C 5	A 2	B 2		
N4726	19-	22287-297	Apr. 26	Apr. 23	Apr. 29				C 7	D15	D17	D16	D21	D14	D 9				
N4727	22-	23299-301	Apr. 26	Apr. 25	Apr. 26					A 2	B 3								
N4728	5	326	-	Apr. 26	Apr. 26										A 1				
N4729	15	224	-	Apr. 27	Apr. 27	A 1													
S3978	12	274	-	Apr. 1	Apr. 1								A 1						
S3979	5-	9237-247	-	Apr. 2	Apr. 2						B 2								
S3980	7-	10230-235	Apr. 4	Apr. 4	Apr. 6							D 9	B 3	A 1					
S3981	12	205-207	-	Apr. 4	Apr. 5						A 2	A 1							
S3982	11-	18157-161	Apr. 9	Apr. 4	Apr. 12	D 6	C 7	C 9	-	-	-	-	C10	C11	A 1				
S3983	5	182	-	Apr. 6	Apr. 6						A 1								
S3984	4-	6120-123	Apr. 12	Apr. 10	Apr. 17				J 2	J 3	J 6	J 5	-	-	C 7	A 1			
S3985	6-	11107-124	Apr. 12	Apr. 10	Apr. 16					B 5	C11	C13	B 8	-	-	A 1			
S3986	25-	30 95-105	Apr. 13	Apr. 10	Apr. 20				D12	D12	D15	C11	-	-	J 6	J 4	J 3	J 2	J 2
S3987	9-	13 76-84	Apr. 15	Apr.	Apr. 20	D 6	D 7	D10	D 7	-	-	D 5	C 3	J 2	J 2	J 2			





TABLE OF SUNSPOT GROUPS

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	May 1982						C.M.	W-Side					
	Latitude	Longitude				E-Side							W-Side					
N4730	10-12	111-115	May 10	May 4	May 16	J 2	J 2	-	C 4	J 2	J 2	-	J 2	J 2	J 2	-	-	J 2
N4731	0- 2	27-31	May 16	May 11	May 22		J 2	J 2	J 2	-	-	C 6	C 7	J 3	J 3	J 2	J 2	J 2
N4732	10-17	304-309	May 23	May 17	May 29	J 2	J 2	J 2	J 2	C 5	J 2	C 5	C 8	D16	D24	D23	D16	B 6
N4733	16-22	302-315	May 22	May 17	May 28		C 6	C13	E19	E43	E30	E43	E41	E43	C36	C19	D13	A 1
N4734	19-21	291-300	-	May 18	May 22		C 4	C 5	C 6	C 5	A 2							
N4735	20-22	279-288	May 24	May 19	May 26	A 1	C 3	B 3	A 1	B 4		C 4	B 4	B 5				
N4736	8- 9	311-314	May 22	May 20	May 22				A 1	..		B 3						
N4737	16	333	May 21	May 21	May 22							J 2	A 1					
N4738	4- 5	232-234	May 28	May 28	May 30							A 1	..	A 2				
N4739	8	202	-	May 28	May 29				A 1	A 1								
S3995	5-10	141-151	May 7	May 4	May 13				C14	D19	-	D36	D33	D35	-	D32	D18	D12
S3996	20-23	116-126	May 9	May 4	May 9	A 1	C 3	-	..	C 5		B 3						
S3997	10	99-102	May 11	May 7	May 12		J 3	J 4	D 5	-		A 2	A 1					
S3998	45	113	-	May 8	May 8				A 1									
S3999	5- 6	127-128	May 9	May 9	May 9							A 2						
S4000	9-10	125-128	-	May 11	May 13									B 3	C 4	B 3		
S4001	11	113	-	May 11	May 11								A 1					
S4002	16	95	May 11	May 11	May 11							A 1						
S4003	8	77-79	May 13	May 12	May 13					A 1		A 2						
S4004	2- 5	10-12	May 18	May 12	May 24	J 2	J 2	-	-	J 3	J 3	J 5	J 3	J 4	J 3	J 4	J 3	J 2
S4005	19-20	16-18	-	May 12	May 13		B 2	A 3										
S4006	27	355	-	May 13	May 13	A 1												
S4007	13-19	18-26	May 17	May 16	May 23					D13		D21	D17	D10	D 6	C 3	J 2	J 2
S4008	14	336	-	May 16	May 19		J 2	A 1	..	A 1								
S4009	23-24	356-358	May 19	May 18	May 19					A 1		A 2						
S4010	11-14	299-305	-	May 18	May 24		A 2	B 3	A 2	..	..	..	C 5					
S4011	8	19	-	May 20	May 20												A 1	
S4012	20-22	329-332	-	May 22	May 24								C 5	C 6	A 1			
S4013	20-21	250-256	May 26	May 22	May 31		C 3	D 5	C 4	C 3	D 7	D10	C 8	B 8	A 1	A 2		
S4014	24	267-270	-	May 23	May 24					D 4	B 4		J 2					
S4015	15-16	217-218	May 29	May 24	May 31	J 2	J 2	J 2	J 2	J 2	J 2	J 2	J 2	J 2				

S4016	20-24	274-283	-	May 26	May 31
S4017	14-16	192-200	May 31	May 26	May 31
S4018	3- 7	198-209	May 30	May 27	Jun. 5
S4019	20-22	219-220	May 29	May 29	May 30
S4020	20	206	-	May 31	May 31
S4021	17	168	-	May 31	May 31
S4022	6	155	-	May 31	May 31

C 3	D 9	D12	D12	D12	B11	D10	D23	D21	D14	D10	C 5
		D 9	D23	E25	E21	F19	-	-	-	G 6	C 3
					A 3	A 1					
						A 2					
					A 1						
					A 1						



TABLE OF SUNSPOT GROUPS

Heliographic		JULY 1982				E-Side		W-Side	
Group NO.	Latitude	Longitude	C.M. Passage	First Obs.	Last Obs.			C.M.	
N4755	10-13	113-125	-	Jul. 2	Jul. 2			B 5	
N4756	15	46	-	Jul. 3	Jul. 5	A 1 A 1 A 1			
N4757	8-11	349-359	Jul.12	Jul. 8	Jul.15	D 9 D 7 D11	C 9	J 5	- - C10
N4758	7-19	310-333	Jul.14	Jul. 9	Jul.21	H20 H43 H51 F82	-	-	F111 - - - - C10
N4759	16	34-37	-	Jul.11	Jul.11				B 3
N4760	13-21	274-285	Jul.18	Jul.12	Jul.23	B 2 - - E35	- -	-	- - C38 C17 C 6
N4761	15	283	-	Jul.15	Jul.15		A 1		
N4762	10-11	277-282	Jul.18	Jul.15	Jul.22		A 4 - -	-	- - J 6 A 2
N4763	16-18	237-245	Jul.21	Jul.15	Jul.23	A 1 - - - -	- -	C 5	J 2 C 3
N4764	20-23	309-312	-	Jul.21	Jul.21				B 3
N4765	22-25	264-270	-	Jul.21	Jul.23				C 8 J 2 A 1
N4766	14-15	261-265	-	Jul.21	Jul.23				C 3 B 3 B 2
N4767	10	199	-	Jul.21	Jul.22		A 2 A 1		
N4768	5- 8	107-112	Jul.31	Jul.27	Aug. 2		A 2 - D 9 C 4	C 5	- A 1
N4769	15	38-45	Aug. 5	Jul.30	Aug. 6	B 3 D 7 - D 4 -	A 2	A 1	A 1
S4038	11	128	-	Jul. 1	Jul. 1			A 1	
S4039	15-19	26-33	Jul.10	Jul. 4	Jul.12	A 1 C 3 D 8 -	C 8 C 5	B 4	B 4 A 1
S4040	24-27	333-345	Jul.13	Jul. 9	Jul.15	A 1 B 7 C21 D18		-	- E20
S4041	10	59-63	-	Jul.10	Jul.11				B 3 J 2
S4042	17	4	-	Jul.10	Jul.10		A 1		
S4043	6- 7	314-315	Jul.15	Jul.10	Jul.15	J 3 J 2 C 4 - -	- -	J 4	
S4044	10-13	294-310	Jul.16	Jul.11	Jul.22	D 5 D 4 - -	E20	-	- - - - F13 G 4
S4045	5	231	Jul.18	Jul.12	Jul.23	A 1 - - J 2 - -	- -	-	- - J 2 J 2 J 2
S4046	20-21	278-283	-	Jul.15	Jul.15		C 6		
S4047	23	269	-	Jul.21	Jul.23				A 2 J 2 A 1
S4048	13	246	Jul.21	Jul.21	Jul.21			A 1	
S4049	19	173	-	Jul.21	Jul.23	A 1 J 2 A 2			
S4050	14	142	-	Jul.27	Jul.27			A 2	
S4051	10-14	55-68	Aug. 3	Jul.30	Aug. 9	C 8 D19 - D30	-	-	E35 G24 G20 C15 C11 B 3
S4052	12-15	96-102	Jul.31	Jul.31	Aug. 2			A 4	- B 3

TABLE OF SUNSPOT GROUPS

AUGUST 1982

Group No.	Heliographic		C.N. Passage	First Obs.	Last Obs.	E-Side						C.M.	W-Side						
	Latitude	Longitude				D12	F28	F40	F52	F71	F75		F77	F79	-	F59	F22		
N4770	5-14	17-34	6	Aug. 10	Aug. 4	Aug. 14	D12	F28	F40	F52	F71	F75	F77	F79	-	F59	F22		
N4771	7-10	10-23		Aug. 7	Aug. 5	Aug. 11						C12	D18	E21	E17	G15	G10	J 4	
N4772	13-18	285-290		Aug. 14	Aug. 8	Aug. 14	D 4	D 4	D 7	C 5	-	C14	J 8						
N4773	14-17	335-343		Aug. 10	Aug. 10	Aug. 11							B 4	A 3					
N4774	18	515-316	-	Aug. 10	Aug. 10							A 2							
N4775	15	245-247	-	Aug. 14	Aug. 14				A 2										
N4776	5-	9272-281	-	Aug. 18	Aug. 20											B 9	-	C 3	
N4777	12-	14275-279	-	Aug. 18	Aug. 20											D 7	-	J 2	
N4778	18	260	-	Aug. 18	Aug. 18													A 1	
N4779	23-25	189-196		Aug. 21	Aug. 18	Aug. 25			C 8	-	C13	D10	C 8	C 5	C 5	A 3			
N4780	10-18	123-133		Aug. 26	Aug. 21	Sep. 1	C 5	C12	D26	D30	E46	D30	E36	E34	-	-	E17	C 4	
N4781	13-15	139-142	-	Aug. 23	Aug. 23	Aug. 28				B 3	B 2	..	A 2	..	B 2				
N4782	18-24	133-143		Aug. 25	Aug. 25	Aug. 31						B 7	D16	D21	E26	-	-	G 7	
N4783	6-9	83-90		Aug. 29	Aug. 25	Sep. 1		C 5	C 9	C11	D 7	-	-	J 3	A 2				
N4784	5-7	60-65		Aug. 31	Aug. 25	Aug. 31	A 1	C 3	C 4	C 3	-	-	A 1						
N4785	9-10	28-37		Sep. 2	Aug. 27	Sep. 5	J 2	C 6	-	-	C 6	C 4	-	-	J 2	A 1			
N4786	7-10	96-105		Aug. 28	Aug. 28	Sep. 1							A 2	-	-	C10	C 4		
N4787	9-11	341-348		Sep. 5	Aug. 31	Sep. 9	J 3	J 3	-	-	C10	C 8	-	-	-	C 9			
S4053	5	92	-	Aug. 2	Aug. 2													A 1	
S4054	15-16	2-7		Aug. 8	Aug. 2	Aug. 11	J 2	-	J 2	J 3	J 2	C 3	C 3	J 2	A 1	C 5			
S4055	13-16	11-20		Aug. 7	Aug. 6	Aug. 11						A 4	B10	D14	B12	C 5	D 4		
S4056	11-12	355-359		Aug. 8	Aug. 7	Aug. 10						B 2	B 2	J 3	B 3				
S4057	6-11	291-298		Aug. 13	Aug. 7	Aug. 18	A 1	D 6	D 7	C 6	C 8	-	H 9	J 5	-	-	-	J 2	
S4058	18-19	6-16	-	Aug. 8	Aug. 13									A 4	C 8	B 5	C 4	-	A 2
S4059	9-10	314-321		Aug. 11	Aug. 8	Aug. 14			A 2	..	..	D 9	-	D 5	D 5				
S4060	18-19	358	-	Aug. 11	Aug. 11											A 2			
S4061	23	291	-	Aug. 11	Aug. 11											A 1			
S4062	10-15	255-270		Aug. 15	Aug. 11	Aug. 21			A 1	-	D10	D20	-	-	-	E36	-	E25	F12
S4063	5	211	-	Aug. 14	Aug. 21		A 1	-	-	-	A 1	-	..	A 1					

S4064	10-13	145-160	Aug. 24	Aug. 18	Aug. 28	C 6	-	E 11	E 18	E 22	E 24	C 21	C 20	C 14	C 16	C 14
S4065	8-9	200-208	-	Aug. 22	Aug. 22									B 3		
S4066	2-4	176-179	Aug. 22	Aug. 22	Aug. 23							B 7	A 2			
S4067	14-15	175-180	-	Aug. 24	Aug. 26									B 4	C 3	A 1
S4068	14-16	33-42	Sep. 1	Aug. 28	Sep. 5	C 6	-	-	C 13	C 8	-	-	-	C 4	C 3	
S4069	8	90-92	-	Aug. 31	Aug. 31									A 2		
S4070	18-23	3-13	Sep. 4	Aug. 31	Sep. 9	A 2	B 8	-	-	G 18	C 20	-	-	-	-	D 6
S4071	2-7	3-15	Sep. 3	Aug. 31	Sep. 9		G 9	G 7	-	-	G 8	C 5	-	-	-	A 1

TABLE OF SUNSPOT GROUPS

SEPTEMBER 1982

Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side			C.M.	W-Side						
Group NO.	Latitude				Longitude	.	.		.	.	.	.	.		
N4788	10-15	22-33	Sep. 7	Sep. 1	Sep. 9	H 6	-	-	D28 D32	-	-	-	D 9		
N4789	5- 7	52-60	-	Sep. 4	Sep. 5								D15 D 8		
N4790	15-16	34-38	-	Sep. 4	Sep. 5								B 5 B 4		
N4791	24-25	15-21	-	Sep. 4	Sep. 9								C 3 B 2 - - - A 1		
N4792	24-25	35-35	Sep. 5	Sep. 4	Sep. 5				A 2	A 1					
N4793	17-19	34-37	Sep. 5	Sep. 4	Sep. 9				B 4	B 5	-	-	- A 1		
N4794	4- 5	286-288	Sep.10	Sep. 4	Sep.15	J 2 J 2	-	-	-	J 3	-	-	- J 3 J 2 J 2		
N4795	13	336	-	Sep. 5	Sep. 5				A 1						
N4796	15	281	-	Sep. 5	Sep. 5				A 1						
N4797	12-14	320-323	-	Sep. 9	Sep. 9								B 7		
N4798	0- 2	178-183	Sep.18	Sep.14	Sep.22				C 3 D 5	-	D12	C 9	-	-	.. A 2
N4799	16-20	145-151	Sep.20	Sep.14	Sep.26	J 3 D 9	-	D 9 D15	-	-	D19 D18	-	-	- A 1	
N4800	15-17	211-218	Sep.15	Sep.15	Sep.21					A 3	-	B12 B 6	-	- B 2	
N4801	12-16	125-139	Sep.21	Sep.15	Sep.26	A 1	-	C 9 C 8	-	-	C20 D21	-	-	- A 1	
N4802	20	124	-	Sep.21	Sep.21					A 1					
N4803	6	59	-	Sep.22	Sep.22				A 1						
N4804	12-19	29-40	Sep.29	Sep.26	Oct. 5				C11 E22	-	E23	-	G15	-	G 8 C 6 J 3
N4805	11-17	14-25	Sep.30	Sep.26	Oct. 7				D10 D16	-	D29	-	E34	-	E30 E25 E19 - A 1
N4806	17	24	-	Sep.26	Sep.27				A 2 A 1						
N4807	9	359	-	Sep.26	Oct. 3	A 1 A 1	-	..	-	..	-	A 1			
N4808	18	38-39	Sep.29	Sep.29	Sep.29						A 2				
N4809	10-12	32-35	Sep.29	Sep.29	Oct. 1						B 4	-	A 1		
S4072	13	67-71	-	Sep. 4	Sep. 5									A 2 B 2	
S4073	10	303	-	Sep. 4	Sep. 5	J 2 J 2									
S4074	14-15	338-340	-	Sep. 9	Sep. 9								A 2		
S4075	11-12	290-294	Sep.10	Sep. 9	Sep.13				C 5	-	-	-	C 3		
S4076	7-12	264-270	Sep.11	Sep. 9	Sep.17				H14	-	-	-	H 3 J 2 C 3 - J 2		
S4077	15-17	259-262	-	Sep.13	Sep.13								B 4		
S4078	21-23	255-263	-	Sep.13	Sep.17								D11 C 6 C 6 - A 2		
S4079	12-15	205-215	Sep.16	Sep.13	Sep.17				D18 C13 C15	-	A 2				
S4080	10	212	-	Sep.13	Sep.15				J 2 A 1 A 1						
S4081	12-17	176-183	Sep.18	Sep.13	Sep.22	B 3 C 9 C 7	-	C18	C20	-	-	-	J 4 B 3		

S4082	9-14	150-158	Sep.20	Sep.14	Sep.26	J 5 H 7 - H 6 D11	-	-	D29 D23	-	-	-	A 1	
S4083	9	122-127	Sep.22	Sep.21	Sep.22		C 6	B 2						
S4084	6	108-112	-	Sep.26	Sep.27							C 3	A 1	
S4085	10	84-86	-	Sep.26	Sep.27				A 3	A 1				
S4086	16-19	57-62	-	Sep.26	Oct. 1		A 1	..	-	C12	-	A 1		
S4087	9-13	32-48	Sep.28	Sep.26	Oct. 5		C14	B14	-	G24	-	C25	-	F13 F14 D 8
S4088	16-20	11-18	Sep.30	Sep.26	Sep. 5	J 5 J 4 -	DI5	-	D20	-	C20	C11	C 5	
S4089	0- 5	4-13	Oct. 1	Sep.26	Oct. 5	C11 C 9 -	C14	-	C11	-	C 7	J 5	A 3	
S4090	20	4	Oct. 1	Sep.26	Oct. 3	A 2 J 3 -	A 2	-	A 3	-	A 3			
S4091	16	20-21	-	Sep.29	Sep.29		A 2							



TABLE OF SUNSPOT GROUPS

OCTOBER 1982

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side				C.M.	W-Side								
	Latitude	Longitude				.	.	.	.		.	.	.	.	.	.			
N4810	10-14	6-13	-	Oct. 3	Oct. 7							C15	C 9	D13	-	A 2			
N4811	16-17	352-356	-	Oct. 3	Oct. 5						B 5	A 4	A 1						
N4812	9-10	341-344	-	Oct. 5	Oct. 5								C 4						
N4813	6-7	242-251	Oct. 10	Oct. 5	Oct. 10	A 1	-	B 6	-	-	B 5								
N4814	20-23	237-250	Oct. 10	Oct. 7	Oct. 15			B 3	-	-	D23	-	E27	E24	F17	F13			
N4815	15	280-282	-	Oct. 10	Oct. 10								A 2						
N4816	12-15	245-254	Oct. 10	Oct. 10	Oct. 10							B11							
N4817	7-8	228-229	Oct. 11	Oct. 10	Oct. 12					A 3	-	A 1							
N4818	5-8	188-197	Oct. 14	Oct. 12	Oct. 20					A 4	C13	C13	C 8	-	J 2	J 2	-	J 2	
N4819	16	174	-	Oct. 12	Oct. 15	A 1	..	A 1	A 1										
N4820	1-3	204-212	Oct. 13	Oct. 13	Oct. 18						B 3	B 8	B 9	-	A 1	A 1			
N4821	9-10	201-202	-	Oct. 13	Oct. 13							A 2							
N4822	22	148	-	Oct. 17	Oct. 17							A 1							
N4823	8-10	99-104	Oct. 21	Oct. 20	Oct. 27						A 3	B 7	D14	C14	-	D 4	J 2	J 2	
N4824	10-12	43-51	Oct. 25	Oct. 20	Oct. 27			A 2	C 3	J 2	B 3	-	D11	C 4	B 5				
N4825	11-13	22-24	Oct. 27	Oct. 21	Oct. 29	A 1	A 1	A 1	-	J 2	A 1	A 1	A 1	A 2					
N4826	8-13	13-24	Oct. 27	Oct. 21	Nov. 2	A 1	J 3	C 3	-	C14	C11	C 8	C 6	C 7	C 7	D 5	-	J 4	
N4827	10-13	49-59	Oct. 25	Oct. 23	Oct. 30					A 3	-	D14	D19	D11	C 3	D11	C 5		
N4828	6	7	-	Oct. 23	Oct. 23	A 1													
N4829	8-9	27-33	Oct. 27	Oct. 27	Oct. 29							C 4	C 7	J 3					
N4830	4-7	343-353	Oct. 30	Oct. 29	Nov. 4						B 5	C15	D18	-	D14	D11	C 9		
N4831	13-15	45-47	-	Oct. 30	Oct. 30												A 2		
N4832	19-21	245-248	Nov. 6	Oct. 31	Nov. 12	A 1	-	J 3	J 3	J 3	-	C 4	-	J 3	-	-	J 2	A 1	
S4092	16-17	4-7	Oct. 1	Oct. 1	Oct. 4						A 1	-	B 3	A 2					
S4093	19	345	Oct. 3	Oct. 3	Oct. 3						A 1								
S4094	10-13	263-274	Oct. 8	Oct. 3	Oct. 14	J 3	J 3	J 4	-	C 7	-	-	J 2	-	J 2	J 2	J 2		
S4095	13-15	173-179	Oct. 15	Oct. 10	Oct. 17	J 2	-	B 2	..	..	A 1	-	A 1						
S4096	22	274	-	Oct. 12	Oct. 12												A 1		
S4097	10-12	2217-223	Oct. 12	Oct. 12	Oct. 17						B 3	B 6	..	D 5	-	B 2			
S4098	5-10	129-137	Oct. 19	Oct. 13	Oct. 23	J 2	J 2	H 2	-	H10	C12	-	J 5	J 2	J 2	J 2			
S4099	14-15	100-104	Oct. 21	Oct. 20	Oct. 23						D 7	B 5	B 5	A 2					
S4100	7	73	-	Oct. 20	Oct. 22												A 1	A 1	A 1





