TABLE OF SUNSPOT GROUPS

JANUARY 1979

Group NO.	Heliographic Latitude	Heliographic Longitude	C.M. Passage	First Obs.	Last Obs.	E-Side						C.M.	W-Side					
N3604	16-18	110-114	-	Jan. 1	Jan. 4									J 2	B 3	B 2	B 2	
N3605	21-24	337-346	Jan. 8	Jan. 3	Jan.12		D 8	D 9	D 9	D 8	-	C13	C11	C 4	J 2	A 1		
N3606	25	69	-	Jan. 4	Jan. 4									A 1				
N3607	14-18	294-307	Jan.11	Jan. 5	Jan.17	J 2	G 4	-	E18	E21	E25	C16	C 8	-	C10	-	C 4	J 2
N3608	14-16	48-52	-	Jan. 6	Jan. 9										D 8	-	A 1	A 1
N3609	6-11	340-355	Jan. 8	Jan. 6	Jan.14					C 9	-	D28	E35	E37	E27	F19	-	G 9
N3610	26-27	51-59	-	Jan. 8	Jan. 8												B 3	
N3611	32-33	40-45	-	Jan. 8	Jan. 8											B 2		
N3612	7	2	-	Jan. 8	Jan. 8								A 1					
N3613	12-16	281-295	Jan.12	Jan. 8	Jan.19			C 6	D11	G18	E20	E27	-	E38	-	E26	E22	- J 2
N3614	20	285	-	Jan. 8	Jan.10		A 1	A 1	A 1									
N3615	25	263-268	Jan.14	Jan. 9	Jan.14		A 1	C 3	D 4	D 4	-	A 1						
N3616	21-23	356-360	-	Jan.11	Jan.12											B 4	A 2	
N3617	14	243	-	Jan.11	Jan.12		A 1	A 1										
N3618	8-10	212-219	Jan.18	Jan.12	Jan.24	J 2	-	J 2	-	C 3	D 6	-	D10	D 5	D 5	C 3	J 2	J 2
N3619	13-14	266-270	Jan.14	Jan.14	Jan.17							J 4	-	C 3	J 2			
N3620	5-6	213-215	-	Jan.14	Jan.16			J 3	-	A 1								
N3621	10-11	273-277	-	Jan.16	Jan.17										D 7	D 5		
N3622	18-19	224-228	Jan.17	Jan.16	Jan.17						C 3	D 5						
N3623	15	183	Jan.20	Jan.16	Jan.20			A 1	..	-	..	A 2						
N3624	13-20	164-177	Jan.21	Jan.16	Jan.27		H 5	D 7	-	D18	E31	E28	E44	E28	E21	E11	G 8	G 7
N3625	9-14	129-142	Jan.24	Jan.19	Jan.28		A 2	C 9	D13	E26	E35	E35	E27	E19	E17	G14		
N3626	7-11	125-136	Jan.24	Jan.19	Jan.28		A 1	B 8	C 9	C 7	C13	B 4	A 1	..	C 7	D12		
N3627	17-20	107-119	Jan.26	Jan.20	Feb. 1	C 4	D 8	D12	E18	C16	C15	C21	C19	C14	-	-	J 2	A 1
N3628	11-12	228-230	-	Jan.21	Jan.21											B 2		
N3629	5-7	153-156	Jan.22	Jan.21	Jan.25						D 4	C 4	B 3	J 2	A 1			
N3630	8	169	-	Jan.22	Jan.24								A 1	A 1	A 1			
N3631	17-18	132-135	-	Jan.23	Jan.28						B 2	..	A 1	..	C 4	C 5		
N3632	5-7	163-168	-	Jan.25	Jan.27										C 3	C 4	A 1	
N3633	13	115	-	Jan.25	Jan.25						A 1							
N3634	22	83	-	Jan.26	Jan.26					A 1								
N3635	32	86	Jan.28	Jan.28	Jan.28							A 1						
N3636	11-17	7-10	Feb. 2	Jan.28	Feb. 2		J 2	-	-	C 4	C 4	A 1						
N3637	19-20	1-6	Feb. 3	Jan.31	Feb. 4				D 6	D 6	D 7	D 5	B 2					

15.0

N3638	20	353	-	Jan.31	Feb. 1			A 2	A 1									
N3639	3-11	355-6	Feb. 3	Jan.31	Feb. 9				D24	D23	D28	D19	E26	D14	D 9	D 8	D 9	C 4
N3640	13-14	352-356	-	Jan.31	Feb. 1			C 3	J 3									
S2895	19-20	58-66	Jan. 2	Jan. 2	Jan. 6							B 4	B 5	B 6	B 3	B 2		
S2896	15-20	324-333	Jan. 9	Jan. 3	Jan.16	A 1	C10	D15	D12	-	C13	C19	C13	H27	H19	-	H18	- J 3
S2897	15	32	-	Jan. 6	Jan. 6								A 1					
S2898	22	343	Jan. 8	Jan. 8	Jan. 8							A 1						
S2899	10	289	-	Jan. 8	Jan. 8			A 1										
S2900	23-27	272-284	Jan.13	Jan. 9	Jan.17			A 1	B 3	B 4	C12	-	D16	-	E28	G15		
S2901	26-27	261-262	-	Jan. 9	Jan.14	J 2	J 3	J 4	J 4	-	A 2							
S2902	13	248	-	Jan.10	Jan.10	A 1												
S2903	20-25	246-257	Jan.15	Jan.10	Jan.21		A 2	B 3	C 7	-	D22	-	E43	E36	-	E24	C11	J 2
S2904	28	316	-	Jan.11	Jan.11								A 1					
S2905	13-14	320-326	-	Jan.14	Jan.16												D 7	- J 2
S2906	28-30	270-272	Jan.14	Jan.14	Jan.14							A 4						
S2907	15	259	-	Jan.16	Jan.16								A 2					
S2908	25	234	Jan.16	Jan.16	Jan.16							A 1						
S2909	13-15	166-172	Jan.21	Jan.16	Jan.27		J 2	C 6	-	D14	D12	C 9	C 9	C 5	J 3	J 3	J 2	J 2
S2910	10-14	140-148	Jan.23	Jan.17	Jan.28	J 2	-	J 3	C 5	C10	D19	D18	D21	D15	D10	C 4	J 2	
S2911	21-25	205-215	-	Jan.19	Jan.25								D14	D16	D11	D14	D 5	D 7 J 2
S2912	18	160	-	Jan.19	Jan.20				J 2	J 3								
S2913	24-26	139-145	Jan.23	Jan.19	Jan.28			A 1	B 3	D 8	D11	D12	D13	C 8	C 6	C17	H17	
S2914	19	145	-	Jan.20	Jan.20				A 1									
S2915	31-35	170-180	Jan.21	Jan.21	Jan.26							C 7	D10	D10	D12	C 8	B 4	
S2916	24-27	84-97	Jan.27	Jan.21	Feb. 3	J 2	J 2	C 6	C11	C12	C19	C17	C11	-	-	C 8	C 4	J 2 J 2
S2917	12-17	97-110	Jan.26	Jan.22	Jan.31			B 6	C 7	C14	C20	C31	C26	D17	-	-	C 5	
S2918	22-24	74-82	Jan.28	Jan.22	Feb. 4	J 2	J 2	J 2	C 3	C 8	C 4	C 4	-	-	J 2	J 2	J 2	J 2 J 2
S2919	23-29	145-152	-	Jan.24	Jan.27								C 4	C 4	C 5	A 1		
S2920	30	76	-	Jan.25	Jan.25			A 1										
S2921	20	93	Jan.27	Jan.27	Jan.27							A 1						
S2922	18	37	-	Jan.28	Jan.28			A 1										
S2923	10-15	332-341	Feb. 5	Jan.31	Feb.10		D10	D14	D32	D33	E44	E42	E47	E48	C33	C17	J 3	
S2924	18-21	324-326	-	Jan.31	Feb. 5	A 1	A 1	J 2	J 2	A 3	A 2							

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TABLE OF SUNSPOT GROUPS

FEBRUARY 1979

Group No.	Heliographic Latitude	Heliographic Longitude	C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
N3641	12-13	358-359	Feb. 3	Feb. 3	Feb. 8		A 3	A 2 .. .. A 1 A 1
N3642	12-15	348-352	Feb. 4	Feb. 3	Feb. 8	A 1	A 2	.. C 8 B 5 A 3
N3643	34-35	293-301	-	Feb. 3	Feb. 7	J 3 C 4 J 2 J 3 A 3		
N3644	11-15	295-299	Feb. 8	Feb. 3	Feb. 9	A 1 A 1 .. .. A 3	A 6	A 3
N3645	10-17	283-294	Feb. 9	Feb. 3	Feb.15	J 2 J 3 H 5 H 7 H11 C10	H22	D36 E43 E34 E28 D20 J 3
N3646	17-19	2-7	-	Feb. 5	Feb. 7			B 5 C 5 A 1
N3647	19	347	-	Feb. 6	Feb. 7			A 1 A 1
N3648	17-19	275-283	Feb. 9	Feb. 7	Feb. 9	B 4 A 1	B 4	
N3649	9-10	211-212	Feb.14	Feb. 9	Feb.19	J 2 J 2 J 2 J 2 J 2	J 2	J 2 J 2 - J 2 A 1
N3650	16	203	-	Feb.11	Feb.12	J 2 A 1		
N3651	15-20	166-178	Feb.17	Feb.12	Feb.21	C 3 D 9 D 9 D13 E28	-	H37 H32 H18 D25
N3652	20-22	202-211	Feb.15	Feb.13	Feb.21	B 3 D11	D15	D16 - C 8 C 4 J 2 A 1
N3653	0-2	165-169	Feb.18	Feb.13	Feb.20	J 3 J 3 J 5 C12 -	C12	C 4 J 3
N3654	12-19	137-157	Feb.19	Feb.14	Feb.25	D 4 E15 E26 - E58	E86	F78 F62 - - - E14
N3655	10-12	138-146	Feb.20	Feb.16	Feb.21	B 2 - B 8 C 8	C 8	B 6
N3656	5-10	175-183	-	Feb.18	Feb.21			D14 D17 D20 D22
N3657	20	111	-	Feb.18	Feb.20	A 2 .. A 1		
N3658	24-25	98-102	-	Feb.19	Feb.20	B 3 A 2		
N3659	34-35	62-64	Feb.26	Feb.20	Mar. 3	J 2 J 2 - - - J 3	-	J 4 C 5 J 2 J 2 A 1
N3660	8-9	330-331	-	Feb.28	Mar. 4	J 4 J 2 A 4 A 1 A 1		
S2925	36	360	-	Feb. 1	Feb. 1	A 1		
S2926	18-23	284-291	Feb. 9	Feb. 3	Feb.13	C 6 D 7 D12 D18 D22 D26	D28	C12 J 7 B 5 A 2
S2927	17-21	269-278	Feb.10	Feb. 6	Feb.16	A 1 D11 D11 D16	C15	D19 D15 C 6 J 4 J 4 A 1
S2928	15-20	230-242	Feb.12	Feb. 7	Feb.19	C 3 C 7 D11 C 7 C11	C 9	C 6 C 8 C 7 C 4 - J 5 J 3
S2929	16-17	284-290	Feb. 9	Feb. 8	Feb.13	A 3	B 5	A 2 C 4 C 3 A 1
S2930	33-38	219-229	Feb.13	Feb. 9	Feb.20	J 2 J 2 C 8 D 9	C12	C 4 J 3 J 3 - J 3 J 2 J 2
S2931	13-14	239-244	Feb.12	Feb.11	Feb.15	D 8	D 7	B 6 B 4 A 2
S2932	22-23	217-223	-	Feb.11	Feb.12	B 6 A 1		
S2933	10-12	218-222	-	Feb.13	Feb.13	B 2		
S2934	14-17	171-177	Feb.17	Feb.14	Feb.21	B 3 C 9 C14	-	C 8 C 5 C 4 A 2

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S2937	26-29	128-133	Feb.21	Feb.15	Feb.27	J 3	J 4	-	J 5	C 5	C 7	C 5	-	-	-	J 2	-	J 2				
S2936	24	215	-	Feb.16	Feb.16									A 1								
S2957	12-13	234-235	-	Feb.18	Feb.18												A 2					
S2938	20-21	200-203	-	Feb.18	Feb.18										C 5							
S2939	24-25	82-83	Feb.24	Feb.18	Mar. 3	J 2	J 2	J 2	J 2	-	-	-	J 3	-	J 3	J 3	J 2	J 2	A 1			
S2940	24-25	68-69	Feb.25	Feb.19	Mar. 3	A 2	J 2	J 2	-	-	-	J 2	-	J 2	J 2	J 2	J 2	J 2				
S2941	21-22	164-166	-	Feb.20	Feb.21									A 2	B 2							
S2942	17-18	107-109	-	Feb.20	Feb.21					B 3	A 1											
S2943	17	165	-	Feb.21	Feb.21										A 1							
S2944	24	129	Feb.21	Feb.21	Feb.21							A 1										
S2945	23	122	-	Feb.25	Feb.25											A 2						
S2946	19-20	91-95	-	Feb.25	Feb.25								D 6									
S2947	17-21	5-16	Mar. 1	Feb.25	Mar. 8			C 3	-	C 3	C 3	B 3	..	..	C 6	D19	D15	C 9	C 4			
S2948	31-33	69-77	-	Feb.27	Mar. 3										D14	D 6	D 6	D 5	A 2			
S2949	17-20	14-52	Feb.27	Feb.27	Mar. 4							C12	C15	B 9	A 2	..	B 4					
S2950	24	17	-	Feb.27	Feb.27					A 1												
S2951	22-25	339-352	Mar. 4	Feb.27	Mar. 9		C 4	C 9	C11	C10	C11	C11	C 5	C 5	C 6	J 2	J 2					
S2952	20-22	313-322	Mar. 6	Feb.28	Mar. 8	J 4	J 4	J 5	J 5	C 5	C 7	D11	C 5	B 2								

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TABLE OF SUNSPOT GROUPS

MARCH 1979

Group NO	Heliographic Latitude	Heliographic Longitude	C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
N3661	33-35	345-350	Mar. 4	Mar. 1	Mar. 8	A 2 B 3 ..	B 2	B 4 D 5 C 5 A 1
N3662	10-13	294-301	Mar. 7	Mar. 2	Mar.10	J 2 J 2 J 2 J 2 C 3	C 4	C 7 J 2 A 1
N3663	15-17	286-297	Mar. 7	Mar. 2	Mar.13	J 2 J 2 C 5 C 3 C 3	C 7	J 2 J 2 J 3 J 3 - J 2
N3664	15	316-318	-	Mar. 4	Mar. 5	B 2 A 1		
N3665	10-12	282-292	Mar. 8	Mar. 4	Mar.13	B 2 D 8 D10 D 9	D 6	D 8 D 9 G 5 - J 2
N3666	16	280	-	Mar. 5	Mar. 7	A 1 A 1 A 2		
N3667	20-23	305-312	-	Mar. 7	Mar.11			A 2 D10 D 9 D 6 D 4
N3668	17	250	-	Mar. 8	Mar. 8	A 1		
N3669	22-25	238-250	Mar.11	Mar. 8	Mar.14	B 2 C 4 D11	D 7	- G 6 C 5
N3670	24	269	Mar. 9	Mar. 9	Mar. 9		A 1	
N3671	13-16	199-203	Mar.15	Mar. 9	Mar.15	A 2 D 7 D 6 - B 5 B 4	A 4	
N3672	8-11	180-189	Mar.16	Mar.11	Mar.16	A 2 - B 6 C 8 C 6	B 6	
N3673	8-10	248-251	-	Mar.13	Mar.15			C 5 C 4 B 2
N3674	26-27	178-182	-	Mar.13	Mar.13	B 3		
N3675	15-16	167-176	-	Mar.13	Mar.16	D 8 D10 B 4 A 1		
N3676	4-6	167-175	Mar.17	Mar.13	Mar.18	C 3 C 6 C 7 C12	D 9	B 6
N3677	19-20	162-163	-	Mar.13	Mar.17	A 2 J 3 A 3 A 2 A 3		
N3678	14-15	159-160	Mar.18	Mar.13	Mar.19	J 2 J 2 J 3 J 3 J 3	J 2	J 2
N3679	9	159	-	Mar.13	Mar.14	A 1 A 1		
N3680	14	142	-	Mar.14	Mar.15	A 1 A 1		
N3681	15-16	187-188	-	Mar.15	Mar.15	A 2		
N3682	37-41	164-169	Mar.17	Mar.15	Mar.19	J 3 B 2	J 2	J 3 B 8
N3683	3-7	117-133	Mar.20	Mar.15	Mar.25	J 2 J 3 J 3 C12 C27	-	- E32 E26 - E19
N3684	30-33	185-188	Mar.16	Mar.16	Mar.16		B 2	
N3685	32	173	-	Mar.16	Mar.16	A 1		
N3686	26	107	-	Mar.17	Mar.19	A 1 A 1 A 1		
N3687	17-20	155-159	Mar.18	Mar.18	Mar.23		A 2	D12 - - B 2 A 1
N3688	13-14	149	Mar.19	Mar.18	Mar.19	A 1	A 2	
N3689	21	153	-	Mar.22	Mar.22			A 1
N3690	5	110	-	Mar.22	Mar.23			A 1 A 1
N3691	20-23	107-112	Mar.22	Mar.22	Mar.25		C 8	C 4 - A 1
N3692	4-8	32-45	Mar.27	Mar.22	Apr 1	D 7 G 9 - G12 -	G12	G10 G10 - G 4 G 3
N3693	9-11	151-155	-	Mar.23	Mar.23			C 6
N3694	12-13	114-115	-	Mar.23	Mar.23			A 2

N3695	25-26	354-360	-	Mar.25	Mar.29		A 3	-	C 7	C 5	C 6							
N3696	21	9	Mar.29	Mar.27	Mar.31					A 1	A 1	A 1	-	A 1				
N3697	30-32	335-341	Mar.31	Mar.27	Apr. 1				A 3	C 6	D10	-	D 9	B 5				
S2953	32-35	39-48	-	Mar. 1	Mar. 4									A 2	C11	C 8	B 5	
S2954	12-15	285-290	Mar. 8	Mar. 2	Mar.13	A 1	J 2	J 3	J 4	C 6	C 8	C11	D21	C13	C11	-	J 2	
S2955	17-20	276-285	Mar. 9	Mar. 3	Mar.11	A 3	C 9	B 6	B 6	C13	B 9	B12	B 4	A 2				
S2956	17	321	-	Mar. 4	Mar. 4					A 1								
S2957	14	360	-	Mar. 5	Mar. 5									A 1				
S2958	14-17	240-251	Mar.11	Mar. 6	Mar.14		B 5	B 3	B 2	B14	C13	D13	-	B11	A 1			
S2959	24-27	230-235	-	Mar. 6	Mar.14	A 1	J 3	J 4	C 8	C 7	J 2	-	..	B 2				
S2960	30-32	225-229	-	Mar. 9	Mar.10			A 3	A 2									
S2961	21	203	-	Mar.11	Mar.11			A 1										
S2962	28	241	-	Mar.13	Mar.13								A 1					
S2963	23-25	202-214	Mar.14	Mar.13	Mar.19						A 1	D 9	D16	D18	E16	D18	C 4	
S2964	10-14	130-141	Mar.19	Mar.14	Mar.25		A 3	C11	D10	D 6	G 8	C 7	-	-	C 9	J 4	-	C 3
S2965	15-17	130-137	Mar.19	Mar.14	Mar.25		A 2	C 4	C 5	C 6	B 5	B 2	-	-	D11	D12	-	C 9
S2966	26	241	-	Mar.16	Mar.16											A 1		
S2967	12-15	108-117	-	Mar.17	Mar.27			B 4	C 4	C10	-	-	..	A 1	-	..	-	A 1
S2968	25-27	92-93	Mar.23	Mar.17	Mar.29	J 2	J 2	J 2	-	-	J 2	J 3	-	J 2	-	J 2	J 2	J 2
S2969	27-29	192-195	-	Mar.18	Mar.19										B 4	J 4		
S2970	25	135	-	Mar.22	Mar.23									A 1	A 1			
S2971	28-30	57-62	Mar.25	Mar.22	Mar.29				C 7	C 9	-	D13	-	C12	C12	J 6		
S2972	27	83	-	Mar.23	Mar.23						A 1							
S2973	19	60-62	Mar.25	Mar.25	Mar.27								B 3	-	A 2			
S2974	15	54	-	Mar.25	Mar.25						A 1							
S2975	20-27	306-325	Apr. 2	Mar.27	Apr. 7	J 2	F18	F21	-	F37	F44	-	-	F62	-	F52	E34	
S2976	21-22	340-342	-	Mar.28	Mar.29				J 3	A 2								
S2977	19-20	8-12	Mar.29	Mar.29	Mar.29							B 5						
S2978	18	354	-	Mar.29	Mar.29						A 1							
S2979	37	316	-	Mar.29	Mar.29			A 1										
S2980	15-17	295-303	Apr. 3	Mar.29	Apr. 6		A 1	-	A 1	B 6	-	-	C 6	-	A 1			
S2981	15	295	-	Mar.31	Mar.31			A 1										
S2982	8-9	284-285	Apr. 5	Mar.31	Apr. 6		J 2	J 2	-	-	J 2	-	B 3					

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APRIL 1979

	Group No.	Heliographic Latitude	Heliographic Longitude	C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
	N3698	15	307	-	Apr. 4	Apr. 4			A 1
	N3699	16-20	178-185	Apr.12	Apr. 7	Apr.17	C 5 - C10 C 9 C10	C 6	C21 C14 C 9 A 3 A 1
	N3700	0-7	130-149	Apr.15	Apr. 9	Apr.21	A 1 H 9 F17 F18 F25 F25	F28	F23 G15 G12 - - H 2
	N3701	30-31	191-195	-	Apr.10	Apr.10	B 2		
	N3702	15	279-283	-	Apr.11	Apr.11			B 2
	N3703	15-16	133-138	-	Apr.12	Apr.21	B 3 B 2 C 3 A 1	..	.. .. - - B 4
	N3704	24-32	117-131	Apr.17	Apr.12	Apr.23	B 4 D 7 F16 E25 E24	E27	E23 - - D11 D10 B 3
	N3705	13	120	-	Apr.13	Apr.14	A 1 A 1		
	N3706	10-12	133-135	Apr.16	Apr.15	Apr.18	A 1	A 1	A 1 B 2
	N3707	15-18	127-131	Apr.16	Apr.15	Apr.18	A 4	A 3	B 5 B 3
	N3708	32-34	168-175	-	Apr.16	Apr.18			D 7 D 5 D 4
	N3709	3	122	Apr.17	Apr.17	Apr.17		A 1	
16.0	N3710	8-9	121-123	Apr.17	Apr.17	Apr.17		A 2	
	N3711	4-7	47-49	Apr.23	Apr.17	Apr.27	J 2 J 2 - - J 3 J 2	C 5	J 2 - - J 2
	N3712	16-18	99-105	-	Apr.22	Apr.23			A 2 C 5
	N3713	18-20	3-11	Apr.26	Apr.22	Apr.28	C 6 D13 C12 -	-	C 5 A 3
	N3714	13-20	324-340	Apr.28	Apr.22	May 4	A 1 D 7 D14 - - F43	F43	F44 - G16 - H 6 H 5
	N3715	20	325	Apr.27	Apr.27	Apr.27		A 1	
	N3716	9-10	332-334	Apr.28	Apr.27	Apr.29	A 1	A 1	B 2
	N3717	21-24	293-303	May 1	Apr.27	May 1	C 8 C14 E20 -	C 3	
	N3718	12-17	271-290	May 2	Apr.27	May 9	E 9 F11 F12 - F33	-	F37 F23 F16 G14 - - J 3
	N3719	9-10	276-277	-	Apr.28	May 1	J 2 J 3 - A 3		
	S2983	14-15	0-4	-	Apr. 1	Apr. 4			C 4 - - J 2
	S2984	20	347-351	-	Apr. 4	Apr. 4			B 2
	S2985	30-31	314-317	-	Apr. 4	Apr. 7			A 1 - C 3 A 1
	S2986	33-35	304-312	-	Apr. 4	Apr. 4			B 6
	S2987	18	335	-	Apr. 6	Apr. 6			A 1
	S2988	25-28	203-206	-	Apr. 6	Apr.10	J 3 J 3 - C 6 C 4		
	S2989	10-13	268-274	-	Apr. 7	Apr.12			B 4 - C10 B 3 B 3 A 1
24.2	S2990	29	207	-	Apr. 7	Apr. 7	A 1		
	S2991	31	308	-	Apr. 9	Apr. 9			A 1
	S2992	25-26	235-239	-	Apr.10	Apr.14			C 4 C 3 C 6 B 3 J 2

S2993	23-26	124-133	Apr.16	Apr.13	Apr.22					D 7	D14	C12	C17	C16	C21	-	-	D 7	A 1
S2994	28	185	-	Apr.17	Apr.17													A 1	
S2995	5-10	124-130	-	Apr.21	Apr.22												B 3	B 4	
S2996	21-27	316-322	Apr.29	Apr.23	May 5	J 3	H 9	-	-		H13	H15	H12	-	C 8	-	C10	J 3	J 2
S2997	23-26	333-336	Apr.28	Apr.27	Apr.29							B 6	C 7	J 4					
S2998	30-31	305-309	-	Apr.27	Apr.29					B 2	J 2	A 2							
S2999	38	6	-	Apr.29	Apr.29											J 2			
S3000	17	321	Apr.29	Apr.29	Apr.29								A 1						

TABLE OF SUNSPOT GROUPS

MAY 1979

Group No.	Heliographic Latitude	Heliographic Longitude	C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
N3720	18	214	-	May 3	May 6	A 1 J 2 A 1 A 1		
N3721	8-11	265-274	-	May 4	May 9			B10 D17 D15 - - A 2
N3722	2	208	-	May 4	May 5	J 3 A 1		
N3723	22-23	187-191	May 9	May 5	May 12	J 3 C 5 - -	A 3	A 2 A 4 A 3
N3724	18-22	172-185	May 10	May 5	May 15	A 2 C10 - - C23	E24	E18 E16 G 6 - J 2
N3725	3-8	158-168	May 11	May 9	May 17	D 7 D12	D28	D29 D29 - D17 - C 4
N3726	17	159	-	May 9	May 10	A 1 A 1		
N3727	1-6	146-150	May 12	May 9	May 18	H 4 H 5 H 5	H 5	H 3 - H 2 - H 2 H 2
N3728	25-28	124-127	May 14	May 9	May 20	H 5 H 5 J 4 C 6 C 5	-	J 2 - J 2 J 2 J 2 J 2
N3729	10-12	81-91	May 17	May 11	May 19	A 1 C 4 C 8 - C 4 -	C 6	B 6 A 3
N3730	11-15	103-109	May 15	May 12	May 22	A 3 B 6 -	C11	- D 8 C 8 C 7 C 7 C 6 A 1
N3731	13-15	127-139	May 14	May 13	May 20	B 3	-	D16 - E24 E18 C 7 J 2
N3732	21-23	60-65	May 19	May 13	May 25	J 2 - J 2 - C 6 C12	C 7	C 7 C 7 J 4 J 2 J 2 A 1
N3733	21	130	-	May 15	May 15			A 1
N3734	33-34	96-104	May 16	May 15	May 17	B 4	-	B 3
N3735	21-23	49-53	-	May 15	May 23	J 2 - A 3 ..	..	.. A 1 C 6 B 3
N3736	17	136	-	May 17	May 18			A 1 A 1
N3737	13	27-29	May 21	May 20	May 22	A 1	B 2	A 2
N3738	23-26	16-22	May 22	May 20	May 25	A 2 B 3	C 7	D10 B 9 A 1
N3739	13-18	330-335	May 26	May 20	Jun. 1	J 2 J 2 J 2 J 4 C 9 C10	J 3	- J 2 J 2 J 2 J 2 J 2
N3740	48	96	-	May 22	May 22			A 1
N3741	16-19	317-325	May 26	May 22	Jun. 1	B 2 B 7 C 7 B 3	A 1	- D13 D11 C 7 D 7 D 6
N3742	13-15	288-292	May 29	May 23	Jun. 1	A 1 J 2 C 4 J 2 - J 2	C 3	C 4 J 2 J 2
N3743	12-13	34-38	-	May 24	May 26			B 3 C 4 J 2
N3744	12-13	6-11	-	May 25	May 26			A 6 B 4
N3745	28-29	340-343	-	May 26	May 26			B 3
N3746	18	313	-	May 28	May 28			A 1
N3747	20-22	270-273	-	May 28	May 31	C 6 B 2	..	B 2
N3748	9-16	207-216	Jun. 4	May 29	Jun.10	J 2 D 8 D26 D25 D30 C36	C34	D20 D15 - C 8 - J 2
N3749	13-22	175-186	Jun. 6	May 31	Jun.12	A 2 D16 H27 H40 H53 H48	E48	- C59 - C26 - C 5

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S3001	25-27	215-227	May 6	May 1	May 6			J 2	-	C 4	C 7	C 6	C 7																
S3002	20-21	334-340	-	May 3	May 3																B 2								
S3003	25-29	185-187	May 9	May 3	May 15	J 2	J 2	J 3	J 3	-	-		J 3	C 5	C 3	J 2	J 2	-	J 2										
S3004	28-29	173-177	May 10	May 5	May 11		A 1	B 3	-	-	..		B 3	B 2															
S3005	32	269-273	-	May 9	May 9																			A 2					
S3006	20-22	151-155	May 12	May 9	May 15					J 2	J 2	A 5	C10	B 7	-	A 1													
S3007	15-17	133-139	-	May 9	May 17			C 4	C 6	B 4	B 3		..	-	B 5	-	A 1												
S3008	16-17	118-119	May 14	May 9	May 19		J 2	J 2	J 3	J 2	J 2		-	J 2	-	J 2	A 2	B 4											
S3009	15-16	81-85	-	May 12	May 13		A 2	A 1																					
S3010	28-32	99-106	May 15	May 15	May 21								D14	-	D 7	D 6	D 7	C10	J 4										
S3011	16	35	-	May 15	May 20	J 2	-	J 2	J 2	J 2	J 2																		
S3012	21-23	155-162	-	May 17	May 18																			C 6	J 4				
S3013	13	23	-	May 17	May 18		A 1	A 1																					
23.3 S3014	13	27-31	May 21	May 18	May 22					A 2	B 3	B 4	A 1	A 2															
S3015	18-20	346-351	May 24	May 19	May 29		J 2	J 2	J 2	J 2	C 8		J 3	C 8	J 2	-	J 2	J 2											
S3016	12	92-93	-	May 21	May 22												A 2	A 1											
S3017	21-23	353- 3	May 23	May 21	May 29						B 5	C11	C18	D 6	D15	C 8	-	B 5	A 1										
S3018	29-31	346-349	-	May 22	May 26						A 2	A 1	..	B 2	B 2														
S3019	31-34	303-312	May 28	May 22	May 31	J 2	J 2	J 2	J 2	C 6	-		J 3	J 2	J 2	A 1													
S3020	29-30	64-68	-	May 23	May 23													B 3											
S3021	23	339-341	-	May 23	May 26						A 2	B 4	..	B 5															
S3022	24	315	-	May 24	May 24					A 1																			
S3023	31-32	268-280	-	May 25	May 29		B 3	B 5	-	C 5	C 7																		
S3024	25	333	-	May 26	May 26									A 1															
S3025	27	316	-	May 26	May 26							A 2																	
S3026	23	294	May 28	May 28	May 28								A 1																
S3027	8	284-286	May 29	May 29	May 31								J 2	B 2	A 1														
S3028	23-24	308-312	-	May 30	May 30											C 4													
S3029	33	262	-	May 30	May 30							A 2																	

TABLE OF SUNSPOT GROUPS

JUNE 1979

Group NO.	Heliographic Latitude	Heliographic Longitude	C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
N3750	4-9	166-170	Jun. 7	Jun. 1	Jun.12	J 2 J 2 H 2 H 2 H 2 H 5	-	H14 - H 7 - J 5
N3751	5-6	208-210	Jun. 4	Jun. 2	Jun. 4	A 1 B 2	A 2	
N3752	18-19	216-217	Jun. 3	Jun. 3	Jun. 3		A 2	
N3753	11	181	-	Jun. 3	Jun. 3	A 1		
N3754	0-4	146-151	Jun. 8	Jun. 3	Jun.15	J 2 H 2 H 2 H 3 -	H 5	- C 7 - H 2 - - J 2
N3755	15	146	-	Jun. 3	Jun. 4	A 1 A 1		
N3756	13	254-258	-	Jun. 5	Jun. 6			C 4 J 2
N3757	8-11	184-188	Jun. 6	Jun. 5	Jun. 8	C 9	C12	- C 6
N3758	15-17	121-124	Jun.10	Jun. 5	Jun.17	J 2 J 2 - J 2 -	J 4	- J 2 - - J 2 J 2 A 1
N3759	19	206	-	Jun. 6	Jun. 6			A 1
N3760	12-18	95-107	Jun.12	Jun. 6	Jun.19	A 1 - D20 - E41 -	E36	- - E29 E13 E17 G 9 A 1
N3761	14-16	138-139	-	Jun. 8	Jun.12	A 3	-	.. - J 3
N3762	3-5	134-138	-	Jun.10	Jun.10	B 6		
N3763	14-15	115-116	-	Jun.10	Jun.10	A 3		
N3764	21-23	59-62	-	Jun.12	Jun.12	B 7		
N3765	20-24	23-33	Jun.17	Jun.12	Jun.23	A 1 - - B 6 B10	D29	D25 C19 - D 8 C 5 J 2
N3766	25-26	4-8	Jun.19	Jun.15	Jun.22	A 2 A 2 C 6 B 4	B 6	- J 4 A 2
N3767	13-15	356-1	Jun.20	Jun.15	Jun.23	B 4 C 7 C 6 C 5 C 5	-	J 2 J 2 A 1
N3768	5-7	55-61	-	Jun.16	Jun.19			A 1 D13 C12 C 8
N3769	5-7	24-29	Jun.18	Jun.17	Jun.19	C10	C 7	C 6
N3770	17-19	315-320	Jun.23	Jun.17	Jun.25	A 1 J 2 J 3 - J 3 C 5	J 2	J 2 B 5
N3771	12	9	Jun.19	Jun.19	Jun.19		A 1	
N3772	23-24	249-254	-	Jun.23	Jun.25	J 3 C 3 J 2		
N3773	21	291	Jun.25	Jun.25	Jun.25		A 1	
N3774	13-16	209-215	Jul. 1	Jun.25	Jul. 7	J 2 - - - - -	-	D 9 D11 C 8 C 8 J 2 J 2
S3030	19-26	166-175	Jun. 7	Jun. 1	Jun.12	H 3 H 8 H10 H12 H12 H14	-	C18 - H 8 - H 2
S3031	12-14	254-256	-	Jun. 2	Jun. 2			B 2
S3032	13-17	157-158	Jun. 8	Jun. 2	Jun.12	J 2 J 2 J 2 J 2 J 3 -	C 5	- J 3 - J 2
S3033	20-23	152-163	Jun. 8	Jun. 2	Jun.12	A 3 C 8 C 8 C10 B11 -	B19	- D23 - D14
S3034	29-30	265-268	-	Jun. 4	Jun. 4			B 3
S3035	15-20	213-222	-	Jun. 4	Jun. 8			A 2 A 3 B 5 - C10
S3036	9-10	166-169	-	Jun. 4	Jun. 6	B 4 C 3 A 2		
S3037	34-35	158-164	Jun. 7	Jun. 5	Jun.10	B 3 C 5	-	J 2 - A 1
S3038	21	194	-	Jun. 8	Jun. 8			A 1

13.8

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S3039	15-19	88-97	Jun.13	Jun. 8	Jun.19		D15	-	D16	-	D23	-	-	D21	D11	D16	D11	C 4
S3040	25-26	162-165	-	Jun.12	Jun.12												B 4	
S3041	14-15	127-132	-	Jun.12	Jun.12									C 7				
S3042	12-13	94-100	Jun.12	Jun.12	Jun.17							A 2	-	-	B 2	A 2	A 1	
S3043	15	38	-	Jun.12	Jun.12		A 1											
S3044	5-7	302-310	Jun.24	Jun.18	Jun.25	A 2	C11	-	D10	D11	C 9	C 9	C13					
S3045	22-25	320-328	Jun.22	Jun.21	Jun.25						D11	D11	D 7	D 9	C 7			
S3046	27-29	290-296	-	Jun.21	Jun.24			D 5	D 9	B 9	B 4							
S3047	23	285	-	Jun.21	Jun.22			A 1	A 1									
S3048	11-13	263-267	Jun.27	Jun.21	Jun.25	J 2	J 2	J 2	J 3	C 4								
S3049	19-20	321-327	Jun.22	Jun.22	Jun.25							A 1	C 8	B 5	B 3			
S3050	15	295	-	Jun.25	Jun.25								A 2					

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JULY 1979

Group No.	Heliographic Latitude	Heliographic Longitude	C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.(C.M.)	W-Side
N3775	15-21	165-180	Jul. 4	Jul. 2	Jul.10	E27 E40	E41	C36 C34 C23 C13 - A 2
N3776	3-5	176-179	Jul. 3	Jul. 2	Jul. 4	B 5	A 1	A 2
N3777	3-5	147-149	Jul. 6	Jul. 2	Jul.12	J 2 J 2 J 2 J 2	J 3	J 2 J 2 - J 2 - J 3
N3778	21-23	126-131	Jul. 7	Jul. 2	Jul.13	J 2 J 3 J 5 J 5 C 6	J 3	J 3 - D 7 - C 5 J 2
N3779	8-13	114-127	Jul. 8	Jul. 2	Jul.13	C 7 C13 F23 C22 C28	C27	(C30) - C18 - H 4 J 3
N3780	9-11	169-175	-	Jul. 3	Jul. 6			C 5 C 7 B 7 A 1
N3781	5-7	170-173	Jul. 4	Jul. 3	Jul. 7	A 3	B 3	A 2 A 6 A 1
N3782	7-8	137-142	Jul. 6	Jul. 4	Jul. 6	D 7 D 7	B 4	
N3783	17	122	-	Jul. 4	Jul. 4	A 1		
N3784	11-14	95-103	Jul. 9	Jul. 4	Jul.15	J 2 D 7 D10 C12 C 8	-	J 3 - C 5 J 2 - J 2
N3785	17-18	92-93	-	Jul. 4	Jul.15	A 1	-	(..) - A 2 A 1 - A 1
N3786	19	149	-	Jul. 5	Jul. 5	A 1		
N3787	15-18	108-115	Jul. 8	Jul. 5	Jul.10	A 1 B 3 C 8	C 9	- A 1
N3788	0	148	Jul. 6	Jul. 6	Jul. 6		A 2	
N3789	17	106	-	Jul. 6	Jul. 6	A 1		
N3790	18-21	91-101	Jul. 9	Jul. 6	Jul.15	J 3 C11 D11	-	B17 - C20 C20 - C 4
N3791	25-29	66-77	Jul.11	Jul. 6	Jul.16	A 3 B 6 C 9 - D19	-	D22 C13 - J 2 A 3
N3792	8	127-130	Jul. 7	Jul. 7	Jul. 8		B 3	B 2
N3793	19	120	-	Jul. 7	Jul. 7	A 1		
N3794	15-16	118-121	Jul. 8	Jul. 7	Jul. 8	A 1	B 4	
N3795	14	92	Jul.10	Jul.10	Jul.10		A 1	
N3796	10-12	41-47	Jul.13	Jul.10	Jul.19	B 3 - D11	D12	- D 7 D 7 C 9 - A 1
N3797	25-30	326-339	Jul.19	Jul.13	Jul.25	J 3 - D18 C22 D16	-	(C11) C 6 - - J 3 J 3 A 1
N3798	16-18	96-100	-	Jul.15	Jul.16			C 4 A 2
N3799	27-29	3-6	-	Jul.19	Jul.19			B 4
N3800	14-17	347-357	-	Jul.19	Jul.24			B 6 C17 - - D20 J 4
N3801	30-32	289-299	Jul.22	Jul.19	Jul.27	C 6 C 8 -	-	C 7 H12 D16 D11 C 7
N3802	9-11	270-277	Jul.23	Jul.19	Jul.29	J 2 J 2 - -	J 2	J 3 C 6 J 3 J 2 J 2 J 2
N3803	29	273	-	Jul.20	Jul.20	A 1		
N3804	9-10	266-269	-	Jul.20	Jul.20	B 2		
N3805	30	359	-	Jul.23	Jul.23			A 2
N3806	11-13	339-345	-	Jul.23	Jul.25			B 4 C 8 A 1
N3807	13-14	210-211	Jul.28	Jul.23	Aug. 2	J 2 J 2 J 2 J 2 J 3	J 2	J 2 J 2 J 2 J 2 A 1

15.1

N3808	12-16	182-192	Jul.30	Jul.25	ug. 2	B 9	C19	C20	C16	C14	B21	B22	6	B 6				
N3809	3-4	149-150	Aug. 2	Jul.27	Aug. 2	J 2	J 2	J 2	J 2	J 2	J 3	(J 3)						
N3810	12	218	-	Jul.29	Jul.29							A 1						
N3811	10-12	125-127	Aug. 4	Jul.29	Aug. 9	J 2	J 2	J 2	J 3	J 4	-	(-)	-	J 3	J 3	J 3	J 3	
N3812	32	165	-	Jul.30	Jul.30				A 1									
N3813	15-16	153-158	Aug. 1	Jul.30	Aug. 1				A 2	C 5	B 2							
N3814	12	201	-	Jul.31	Jul.31								A 1					
S3051	20-23	163-166	Jul. 4	Jul. 2	Jul.10				H 3	H 3	H 3	H 2	H 3	H 3	H 3	-	H 8	
S3052	13-15	151-158	Jul. 5	Jul. 2	Jul. 8			C11	C12	C 8	B 7	B 8	B 4	A 1				
S3053	18	169	Jul. 4	Jul. 4	Jul. 4						A 1							
S3054	26-30	88-98	Jul.10	Jul. 4	Jul.13	J 2	C 5	C 9	C10	C 8	-	(C 4)	-	C 3	J 2			
S3055	17-18	91-92	Jul.10	Jul. 4	Jul.16	J 2	J 2	J 2	J 2	J 2	-	(J 2)	-	J 2	J 2	-	J 2	J 2
S3056	24	171	-	Jul. 5	Jul. 5							A 1						
S3057	14-15	91-93	-	Jul. 5	Jul.12	A 3	B 4	B 4	B 4	-	..	-	A 1					
S3058	14	120	-	Jul. 6	Jul. 6				A 1									
S3059	23-25	142-143	-	Jul. 8	Jul. 8								A 2					
S3060	25-29	350-359	Jul.17	Jul.12	Jul.20	C 5	C 8	-	D12	D17	D13	-	C12	C 7				
S3061	26	36	-	Jul.15	Jul.15							A 1						
S3062	4-5	307-313	Jul.20	Jul.15	Jul.25	J 2	J 2	J 3	-	C 6	C 3	-	-	J 3	J 2	J 2		
S3063	23-25	50-51	-	Jul.16	Jul.17									A 1	C 3			
S3064	18	26-29	-	Jul.17	Jul.19								C 4	-	A 1			
S3065	19-21	349-352	-	Jul.19	Jul.20							A 5	B 4					
S3066	16-21	315-325	Jul.20	Jul.20	Jul.25						C11	-	-	G 7	G 7	B 3		
S3067	3-6	298-301	Jul.21	Jul.16	Jul.24	C 4	C 4	-	C 9	C 7	-	-	A 1	A 1				
S3068	5-7	277-285	Jul.23	Jul.23	Jul.28						D17	C15	C10	B 7	B 4	A 1		
S3069	14-16	216-226	Jul.27	Jul.24	Aug. 1			B 5	C10	D11	D12	C 8	C 8	C12	B 5	B 3		
S3070	13-17	238-250	Jul.26	Jul.25	Jul.31					D23	D27	E24	E18	E11	C12	D11		
S3071	19-20	174-175	Jul.31	Jul.26	Jul.31	J 2	J 3	J 2	J 3	J 3	A 1							
S3072	20-23	154-160	Aug. 1	Jul.27	Aug. 7	J 2	J 2	C 5	C11	C15	C12	C13	-	-	-	J 3	J 4	
S3073	15	153	-	Jul.29	Jul.29			A 1										
S3074	15	232	-	Jul.30	Jul.30									A 1				
S3075	11-13	147-153	Aug. 2	Jul.30	Aug. 6			B 7	C 9	C 9	C 7	-	-	-	A 1			

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AUGUST 1979

Group No.	Heliographic Latitude	Heliographic Longitude	C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
N3815	30	218	-	Aug. 1	Aug. 1			A 1
N3816	14	147	-	Aug. 1	Aug. 1	A 1		
N3817	18	138	-	Aug. 1	Aug. 1	A 1		
N3818	11	174-175	-	Aug. 2	Aug. 2			A 2
N3819	18	185	-	Aug. 2	Aug. 2			A 2
N3820	4-6	137-143	-	Aug. 6	Aug. 8			D12 D 7 C 3
N3821	24-25	71-75	Aug. 8	Aug. 6	Aug. 9	B 4 B 7	B 5	A 3
N3822	10-11	51-52	-	Aug. 6	Aug. 7	A 1 A 2		
N3823	23-27	358- 6	Aug.13	Aug. 7	Aug.15	A 1 C 6 D10 D12 D 4 C 4	C 7	C 7 A 2
N3824	17	63	Aug. 8	Aug. 8	Aug. 9		A 1	A 1
N3825	12	44	-	Aug. 8	Aug. 8	A 2		
N3826	11-20	348-356	Aug.14	Aug. 8	Aug.19	H12 H22 H23 H24 H30 D33	C36	C37 C23 C10 C 4 J 2
N3827	14-16	7	Aug.13	Aug. 9	Aug.13	A 2	A 1	
N3828	14-15	31-34	-	Aug.10	Aug.10	B 3		
N3829	14-16	293-299	Aug.18	Aug.12	Aug.23	J 2 J 3 J 2 J 2 J 2 C 5	C 6	C 7 - J 3 - B 2
N3830	17	343	-	Aug.13	Aug.13	A 1		
N3831	25-26	7-9	-	Aug.14	Aug.14			A 2
N3832	15-16	253-254	Aug.21	Aug.15	Aug.24	A 1 J 2 J 2 J 2 J 3 -	J 4	- J 4 A 2
N3833	12-13	337-341	-	Aug.17	Aug.21			B 4 B 3 A 1 - A 2
N3834	20	350	-	Aug.18	Aug.18			A 1
N3835	23-26	272-276	Aug.19	Aug.19	Aug.24		D10	- D11 - C 3 J 2
N3836	6-7	237-239	-	Aug.21	Aug.21	A 4		
N3837	3-9	182-200	Aug.26	Aug.21	Aug.31	E33 - F60 F67 -	-	F75 F49 F45 G23 G11
N3838	26	259-263	-	Aug.23	Aug.24			C 3 B 3
N3839	15-20	177-183	Aug.27	Aug.24	Aug.31	J 6 - -	D22	D18 D11 D 9 B 4
N3840	6	146	-	Aug.27	Aug.28	A 1 A 1		
N3841	15-18	100-105	Sep. 2	Aug.27	Sep. 8	H 2 C 5 C 7 C 6 H 4 -	-	H 3 H 5 H 2 H 2 - J 2
N3842	13	212	-	Aug.28	Aug.28			A 1
N3843	21-23	104-108	-	Aug.28	Aug.31	B 3 B 3 C 4 A 2		
N3844	15-19	88-93	Sep. 2	Aug.28	Sep. 4	A 3 B 7 B 6 B 5 -	-	C11 B 6
N3845	15-17	151-156	Aug.29	Aug.29	Sep. 4		B 4	B 9 C11 - - D 5 A 1

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N3846	19-20	107-109	-	Aug.2	Aug.29					B 2												
N3847	11	83-86	-	Aug.29	Aug.29			B 2														
N3848	18-22	55-68	Sep. 5	Aug.30	Sep.11	A 1	B 7	-	-	D19	D31	D15	E18	-	D 9	D 5	C 4	J 2				
N3849	10-13	57-68	Sep. 4	Aug.31	Sep. 6			B 3	-	-	C14	C10	B 7	B 4								
S3076	15	162	Aug. 1	Aug. 1	Aug. 1							A 1										
S3077	12	81	-	Aug. 2	Aug. 2		A 1															
S3078	15-17	22-28	Aug.11	Aug. 6	Aug.16		J 2	J 2	C 3	C 3	C 4	C 4	C 6	J 3	J 2	C 3	A 1					
S3079	25-27	28-33	Aug.11	Aug. 6	Aug.12		J 2	C 5	C 5	C 5	J 4	A 1	A 1									
S3080	14-16	117-120	-	Aug. 7	Aug. 9										C 5	A 1	A 1					
S3081	12-13	40-43	-	Aug. 8	Aug. 9					B 2	A 1											
S3082	24	53	Aug. 9	Aug. 9	Aug. 9							A 1										
S3083	25	351	-	Aug. 9	Aug.10		A 2	A 2														
S3084	21	302	-	Aug.13	Aug.14		A 1	A 1														
S3085	23-25	286-290	Aug.18	Aug.14	Aug.24			A 1	D 9	D11	C 9	C 5	C 7	-	C 3	-	J 2	J 2				
S3086	6-8	294-296	-	Aug.14	Aug.15			A 2	A 1													
S3087	22-30	265-279	Aug.20	Aug.14	Aug.24	C 7	E22	E26	E45	E41	E34	-	E30	-	E15	G14						
S3088	12-14	261-263	-	Aug.16	Aug.23			A 1	A 1	..	..	-	A 4	-	A 2							
S3089	12-14	217-225	Aug.24	Aug.19	Aug.27		A 1	-	B 8	-	C14	C10	-	-	A 1							
S3090	13-17	246-254	Aug.21	Aug.21	Aug.24							C 9	-	C15	C17							
S3091	15	233-237	-	Aug.21	Aug.21					B 3												
S3092	20-21	209-210	-	Aug.21	Aug.21				A 3													
S3093	29-34	183-195	Aug.26	Aug.21	Aug.31		D10	-	E17	E17	-	-	E18	G14	G10	G11	G 8					
S3094	16	255	-	Aug.23	Aug.23									A 1								
S3095	19	213-216	Aug.24	Aug.23	Aug.24						B 3	A 3										
S3096	20-21	161-164	-	Aug.23	Aug.27		A 1	J 2	-	-	B 3											
S3097	15-16	284-285	-	Aug.24	Aug.24													A 2				
S3098	20-21	147-151	Aug.29	Aug.24	Aug.31		J 2	-	-	J 2	J 2	C 5	C 3	J 3								
S3099	9-11	186-192	-	Aug.27	Aug.28								C 4	A 1								
S3100	25-27	131-132	Aug.30	Aug.27	Aug.31				J 4	J 5	J 4	J 3	A 1									
S3101	20	192	-	Aug.29	Aug.29										A 1							
S3102	28-29	123-125	Aug.31	Aug.31	Aug.31							A 2										

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SEPTEMBER 1979

Group NO.	Heliographic Latitude	Heliographic Longitude	C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
N3850	11-12	98-103	-	Sep. 3	Sep. 6			B 7 A 2 C 5 J 5
N3851	22	94	-	Sep. 3	Sep. 3			A 2
N3852	10	73	-	Sep. 3	Sep. 3	A 1		
N3853	13-14	69-71	Sep. 4	Sep. 3	Sep. 6	A 4	A 3	A 2 A 2
N3854	10-16	42-51	Sep. 6	Sep. 3	Sep.12	B 7 D17 D22	D30	- D39 D24 D20 D13 A 1
N3855	9-17	335-352	Sep.10	Sep. 4	Sep.13	A 1 C11 C22 - F45 F42	C47	C43 C16 G26
N3856	24-26	321-328	-	Sep. 8	Sep.11	C 5 C 3 A 1 A 1		
N3857	11-18	297-308	Sep.14	Sep. 8	Sep.17	A 2 C 5 D15 E16 C21 C18	-	- C 9 B 2
N3858	5-11	298-309	Sep.14	Sep. 9	Sep.20	C 5 D14 D20 D32 D29	-	- D47 D31 D20 D18 J 4
N3859	27	354	Sep.10	Sep.10	Sep.10		A 1	
N3860	22	326	-	Sep.10	Sep.10	A 1		
N3861	23-26	273-278	Sep.16	Sep.10	Sep.20	J 2 J 2 C 8 D13 - -	B 8	.. .. A 2 A 2
N3862	12-13	325-330	Sep.12	Sep.12	Sep.16		A 2	B 6 - - A 1
N3863	17-22	249-256	Sep.17	Sep.12	Sep.18	A 1 B 4 - - C11	B 9	B 8
N3864	26	318	-	Sep.13	Sep.13			A 1
N3865	31	235-239	-	Sep.16	Sep.16	B 3		
N3866	1-12	183-200	Sep.22	Sep.16	Sep.24	C 6 E18 E38 E51 E70 E74	E68	E77 E51
N3867	23-29	157-168	Sep.24	Sep.19	Sep.24	C 9 C13 C18 E25 G19	E24	
N3868	20-21	244-248	-	Sep.20	Sep.20			B 2
N3869	11-14	164-168	Sep.24	Sep.20	Sep.24	A 1 .. J 4 J 3	C 4	
N3870	13-14	191-193	Sep.22	Sep.21	Sep.23	A 1	A 2	A 2
N3871	15-20	119-128	Sep.27	Sep.21	Oct. 2	A 3 C 5 C 8 D18 - -	-	- - - D39 D25
N3872	17	199	Sep.22	Sep.22	Sep.22		A 1	
N3873	20	183	-	Sep.22	Sep.22	A 1		
N3874	13-14	109-110	Sep.28	Sep.22	Oct. 2	A 1 J 2 J 2 - - -	-	- - J 2
N3875	12-15	217-221	-	Sep.23	Sep.24			A 1 D 8
N3876	20-23	186-192	-	Sep.23	Sep.24			B 5 D16
N3877	15-17	145-150	-	Sep.23	Sep.24	B 4 B 4		
N3878	19-20	100-101	-	Sep.23	Sep.24	J 2 J 2		
N3879	13-22	89-101	Sep.29	Sep.23	Oct. 5	J 2 E12 - - - -	-	- C29 D12 - - J 2

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N3880	9-10	135-137	-	Sep.24	Sep.24						C 5											
N3881	20-24	117-127	Sep.27	Sep.24	Oct. 2					B 3	-	-	-	-	-	-	D33	D28				
S3103	15	97-99	-	Sep. 3	Sep. 3									A 2								
S3104	19-21	88-95	-	Sep. 3	Sep. 8									A 3	C 8	D 9	C 8	-	J 3			
S3105	16-20	28-40	Sep. 7	Sep. 3	Sep.12			D17	C16	E17	E17	-	G 9	J 5	J 5	J 3	J 2					
S3106	21-22	36-42	-	Sep. 8	Sep. 8										B 4							
S3107	28-31	14-20	Sep. 8	Sep. 8	Sep.12							C 5	..	..	..	A 1						
S3108	24-27	5-13	-	Sep.10	Sep.13								B 2	C10	C 6	C 4						
S3109	24-28	259-265	Sep.16	Sep.11	Sep.22		H 2	H 2	J 2	-	-	C 5	H 3	C 7	C14	C 9	C 9	C 3				
S3110	13	282-284	-	Sep.13	Sep.13					A 2												
S3111	11-12	249-253	Sep.18	Sep.16	Sep.21					C 8	C 3	B 4	B 5	A 1	A 1							
S3112	11	228	Sep.19	Sep.16	Sep.20				J 2	J 2	J 2	A 1	A 1									
S3113	20-23	191-195	Sep.22	Sep.16	Sep.24	A 1	J 2	J 2	J 2	C 4	J 2	C 7	J 2	J 2								
S3114	8-10	282-286	-	Sep.17	Sep.20									B 4	A 3	A 1	A 1					
S3115	26	235-236	-	Sep.18	Sep.18						A 2											
S3116	20-21	207-209	Sep.21	Sep.19	Sep.21					A 2	B 2	A 1										
S3117	11-12	170-173	-	Sep.19	Sep.23		A 1	A 1	A 1	A 3	B 4											
S3118	18-20	159-169	Sep.24	Sep.19	Sep.24		C11	C12	C16	C14	C12	C15										
S3119	8-10	195-201	Sep.22	Sep.20	Sep.24					B 4	C 4	D 8	B 5	B 2								
S3120	0-1	188-194	Sep.22	Sep.20	Sep.23					A 1	A 8	B 6	A 1									
S3121	15	241	-	Sep.21	Sep.21											A 1						
S3122	11-15	148-155	Sep.25	Sep.22	Oct. 1				A 1	C13	D15	-	-	-	-	-	-	-	J 2			
S3123	16	238	-	Sep.23	Sep.23												A 1					
S3124	5	193	-	Sep.23	Sep.23								A 1									
S3125	25	187	-	Sep.23	Sep.23								A 1									
S3126	7	187	-	Sep.24	Sep.24									A 1								
S3127	12-15	134-144	Sep.26	Sep.24	Oct. 2					B 5	-	-	-	-	-	-	D 9	J 2				
S3128	30	153	-	Sep.24	Sep.24						A 1											
S3129	24-26	105-111	Sep.28	Sep.24	Oct. 2			A 1	-	-	-	-	-	-	C10	C 6						
S3130	20-25	84-93	Sep.30	Sep.24	Oct. 5	J 2	-	-	-	-	-	-	C22	C16	-	-	D 7					

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October 1979

Group NO.	Heliographic Latitude	Heliographic Longitude	C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
N3882	16	113	-	Oct. 1	Oct. 1			A 1
N3883	13-15	28-40	Oct. 4	Oct. 1	Oct.10	D10 D14 -	-	C17 - - J 2 J 2 A 1
N3884	10-12	14-16	-	Oct. 1	Oct. 8	A 1 A 2 - - ..	-	- B 3
N3885	12-15	3-13	-	Oct. 1	Oct. 9	A 1 B 4 - - C12	-	- .. A 1
N3886	10-13	356-360	Oct. 7	Oct. 1	Oct.12	J 2 J 2 - - J 5 -	-	C11 D10 B 7 A 2 A 1
N3887	21-26	322-334	Oct. 9	Oct. 5	Oct.15	E13 - - E25	E21	C19 C11 C 7 C 4 J 2 J 2
N3889	12-18	325-305	Oct.10	Oct. 5	Oct.17	E20 - - E25 E28	G26	G12 G14 G24 G27 F17 G 9 A 1
N3890	19	51	-	Oct. 5	Oct. 5			A 1
N3891	12	339	-	Oct. 5	Oct. 5	A 1		
N3892	9-10	6-8	Oct. 6	Oct. 5	Oct.10	A 3	-	- B 4 C 6 B 4
N3893	27-28	337-340	Oct. 8	Oct. 8	Oct. 8		B 2	
N3894	11-12	330-334	-	Oct. 8	Oct. 8	B 4		
N3895	20	309	-	Oct. 8	Oct. 8	J 2		
N3896	8-12	290-301	Oct.11	Oct. 8	Oct.17	D14 D17 E21	E25	E26 E20 E20 G16 G10 C 4
N3897	21-23	252-260	Oct.14	Oct. 8	Oct.20	J 2 C 3 D 7 C 9 C 8 C 5	C 8	C 7 J 3 J 3 - - J 2
N3898	24-29	240-249	Oct.15	Oct. 9	Oct.22	B 2 C10 C13 C20 D22 D23	C23	C27 C22 - - H 9 H 9 H 5
N3899	10-13	233-238	Oct.16	Oct.10	Oct.21	C 4 H 5 H 7 H 6 H11 H 6	J 5	J 3 - - J 2 A 1
N3900	20	307	Oct.11	Oct.11	Oct.11		A 2	
N3901	30	350	-	Oct.13	Oct.13			A 1
N3902	29-32	215-228	Oct.17	Oct.13	Oct.23	B 4 D 8 E14 E26	E30	- - E20 E11 C 5 J 2
N3903	6-8	190-193	-	Oct.14	Oct.17	A 1 J 2 A 1 B 3		
N3904	22-29	168-182	Oct.20	Oct.14	Oct.26	J 2 D 7 E15 E20 - -	E36	E40 E38 E43 E27 F23 C14
N3905	6	235	Oct.16	Oct.16	Oct.16		A 1	
N3906	9-11	207-210	-	Oct.17	Oct.21	B 5	-	- .. A 1
N3907	4-7	199-202	Oct.19	Oct.17	Oct.21	B 4 -	-	B 4 B 2
N3908	1	201	-	Oct.17	Oct.21	A 1 -	-	.. A 1
N3909	25-26	185-188	Oct.20	Oct.17	Oct.26	A 3 - -	J 3	C 4 J 2 J 2 A 3 J 2 A 1
N3910	16	194	-	Oct.20	Oct.21			B 2 A 1
N3911	3-4	191-193	-	Oct.20	Oct.21			B 4 A 1
N3912	12-13	190-192	-	Oct.20	Oct.21			A 2 A 3
N3913	19-22	115-121	Oct.25	Oct.20	Oct.27	J 2 J 2 J 2 J 2 C 5	J 2	J 2 A 1
N3914	18	134-135	-	Oct.[illegible]	Oct.22	A 2 A 1		

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N3915	10	134	-	Oct.21	Oct.21					A 1									
N3916	9-10	99-100	-	Oct.21	Oct.25			J 2	J 2	J 2	A 1	A 1							
N3917	18-22	190-201	-	Oct.22	Oct.23											B 2	C 6		
N3918	15-16	91-102	Oct.27	Oct.23	Nov. 2				A 2	..	..	..	B 3	-	-	D 9	C10	C 9	A 2
N3919	20	125	Oct.24	Oct.24	Oct.24								A 1						
N3920	25-28	49-52	Oct.30	Oct.24	Nov. 3	J 2	J 4	J 5	J 2	-	-		C 4	C 3	J 2	J 2	A 1		
N3921	15	184	-	Oct.25	Oct.25													A 1	
N3922	13-20	2-18	Nov. 2	Oct.27	Nov. 8	C 6	-	-	F36	F29	F37		F29	E25	-	-	G 9	C 5	J 2
N3923	13-16	78-87	-	Oct.30	Nov. 1										D15	C 7	B 2		
N3924	12-13	12-14	-	Oct.30	Oct.30					A 2									
N3925	25	559- 1	-	Oct.30	Oct.31				A 2	A 1									
N3926	10-13	340-349	-	Oct.30	Oct. 3			D 7	D10	D13	D19	D20							
N3927	7-10	340-342	-	Oct.30	Oct. 3			A 2	J 3	J 3	C 4	J 3							
N3928	23-25	325-327	Nov. 5	Oct.30	Nov.12	J 2	J 2	J 2	J 2	J 2	-		-	J 2	J 2	J 2	J 3	-	J 3 A 1
N3929	9-12	86-92	-	Oct.31	Nov. 1												A 2	A 4	
N3930	33-35	76-79	-	Oct.31	Nov. 1											B 2	A 1		
N3931	12-17	314-325	Nov. 6	Oct.31	Nov.11	J 2	D 4	D 7	E10	-	-		C 6	J 2	C 4	J 2	-	J 2	
S3131	33-35	63-67	-	Oct. 1	Oct. 1							B 2							
S3132	27-29	30-39	Oct. 4	Oct. 1	Oct. 9					C 7	C 7	-	-	J 4	-	-	J 2	J 2	
S3133	13	75-78	-	Oct. 2	Oct. 2									B 2					
S3134	33	309	Oct.10	Oct. 5	Oct.10			J 2	-	-	J 3	J 2	A 1						
S3135	20-22	46-54	-	Oct. 8	Oct. 8													C 7	
S3136	11-12	22-30	-	Oct. 8	Oct.10											C 3	C 7	D 8	
S3137	11-15	333-344	Oct. 8	Oct. 8	Oct.14								C 3	D 7	D12	D13	E13	E 9	B 5
S3138	16	335	Oct. 8	Oct. 8	Oct. 8								A 1						
S3139	4-6	334-341	-	Oct.10	Oct.13										B 7	C11	B 5	A 1	
S3140	32-33	258-261	Oct.14	Oct.11	Oct.14					A 1	A 1	B 4	A 1						
S3141	14	237	-	Oct.12	Oct.12				A 1										
S3142	12	295	-	Oct.13	Oct.13									A 1					
S3143	5-7	200-207	Oct.18	Oct.13	Oct.21			B 2	D 4	D 7	D 6	C 3	-	-	C 3	B 3			
S3144	25-26	276-278	-	Oct.14	Oct.14									B 2					
S3145	14-17	227-230	Oct.16	Oct.14	Oct.21						A 3	B 5	B 6	B 3	-	-	C 4	B 2	
S3146	16	214-217	-	Oct.16	Oct.20						B 2	..	-	-	B 2				

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Group NO.	Heliographic Latitude	Heliographic Longitude	C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
N3932	17	72	-	Nov. 1	Nov. 1			A 1
N3933	12-14	356- 1	Nov. 3	Nov. 1	Nov. 3	A 5 B 4	B 4	
N3934	20-21	43-44	-	Nov. 2	Nov. 3			A 1 A 2
N3935	19-22	300-312	Nov. 7	Nov. 6	Nov.14	B19	C20	D17 D20 - E24 G 9 G 4 A 1
N3936	20-24	254-259	Nov.11	Nov. 6	Nov.17	H 2 H 3 H 5 H 7 -	H 5	H 5 C 5 C 5 H 3 H 2 H 2
N3937	22	1	-	Nov. 7	Nov. 7			A 1
N3938	28-34	215-229	Nov.13	Nov. 7	Nov.20	C 4 E14 E15 - E18 E15	E17	E19 G17 G13 G 8 - G 7 J 2
N3939	15	217	-	Nov. 8	Nov.12	A 1 A 1 - A 1 A 1		
N3940	11-12	351-354	-	Nov. 9	Nov. 9			B 2
N3941	8-14	206-215	Nov.14	Nov. 9	Nov.20	J 3 - C 9 C11 C10	C15	C13 C 9 C14 - C 8 B 5
N3942	12-15	186-195	Nov.16	Nov. 9	Nov.22	A1 - J 3 J 3 D11 D12 D10	C 9	C 6 - J 2 J 2 J 2 J 2
N3943	26	303	-	Nov.11	Nov.11			A 1
N3944	29-30	179-181	Nov.16	Nov.11	Nov.22	J 2 J 2 C 3 J 3 J 2	J 4	J 4 - J 2 J 2 J 2 J 2
N3945	22	196	-	Nov.13	Nov.13	A 1		
N3946	36	161	-	Nov.13	Nov.17	A 1 A 1 A 1 .. A 1		
N3947	22	191	-	Nov.14	Nov.17	A 1 ..	..	A 1
N3948	10	222	-	Nov.15	Nov.15			A 1
N3949	10-11	173-176	Nov.17	Nov.15	Nov.17	B 3 B 2	B 3	
N3950	34	206	-	Nov.16	Nov.17			A 1 A 1
N3951	28-34	162-174	Nov.17	Nov.16	Nov.24	B 2	C16	- D21 D15 E 8 G 7 - J 2
N3952	21-23	115-123	Nov.21	Nov.16	Nov.27	A 1 C 6 - D12 D10	D 7	D 8 - D 4 - D 4 D 4
N3953	23	183	-	Nov.17	Nov.17			A 1
N3954	23-24	94-98	-	Nov.20	Nov.21	A 1 B 2		
N3955	13-15	114-122	-	Nov.24	Nov.26			C 7 - C 6
N3956	15-17	70-75	Nov.25	Nov.24	Nov.30	C13	-	D 9 C 4 - J 2 A 1
N3957	18-20	13-15	Nov.29	Nov.24	Dec. 5	J 2 - J 2 J 2 -	J 2	J 2 - J 2 J 2 - J 2
N3958	21-23	43-44	Nov.27	Nov.27	Nov.27		A 2	
N3959	10	5	-	Nov.27	Nov.27	A 1		
N3960	8-9	345-347	-	Nov.30	Nov.30	A 2		
N3961	18	298	-	Nov.30	Nov.30	A 1		

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S3163	17	65	-	Nov. 1	Nov. 2										A 1	J 2			
S3164	18	53-55	-	Nov. 1	Nov. 1									A 2					
S3165	25	303-305	-	Nov. 3	Nov. 6			A 1	-	-	A 2								
S3166	19-23	307-321	Nov. 6	Nov. 6	Nov.12							D15	D22	E27	E34	-	E17	C 7	
S3167	10-16	267-283	Nov. 9	Nov. 6	Nov.15				E37	E42	F55	F60	-	F42	F32	G19	G13	G 4	
S3168	17-19	273-274	-	Nov. 6	Nov. 8				J 5	A 6	A 3								
S3169	15	260-263	-	Nov. 6	Nov. 8			A 2	B 2	A 1									
S3170	9-11	258-261	-	Nov. 6	Nov. 9		B 2	B 2	B 2	A 1									
S3171	29-30	252-255	Nov.11	Nov. 6	Nov.13		B 5	C 8	C 7	C 8	-	J 3	J 2	A 1					
S3172	13-19	230-249	Nov.12	Nov. 6	Nov.17	D 8	F20	F39	F49	-	F61	F60	F47	F53	F44	C29	G 8		
S3173	22-23	293-300	Nov. 7	Nov. 6	Nov.13						A 1	B 6	D 9	D12	-	D10	D 7	B 4	
S3174	17-19	318-326	-	Nov. 8	Nov.12									B 8	B 6	-	D 7	A 2	
S3175	5-8	213-220	-	Nov.11	Nov.20				A 1	..	..	..	..	..	A 1	-	D13	A 3	
S3176	20	270	-	Nov.14	Nov.14											A 1			
S3177	16-18	198-208	Nov.15	Nov.14	Nov.20						C 9	C 6	C 8	C 4	-	J 2	A 1		
S3178	8	200-203	Nov.15	Nov.14	Nov.15						A 2	B 3							
S3179	30-35	172-190	Nov.16	Nov.14	Nov.22					B 6	C18	C21	E23	-	F21	F19	F13	G 5	
S3180	1	202-205	Nov.15	Nov.15	Nov.19							A 2	..	B 4	-	A 3			
S3181	15-19	98-102	Nov.22	Nov.17	Nov.27		J 2	-	C 4	J 4	C 6	J 4	-	C11	-	C 3	A 1		
S3182	14-16	63-74	Nov.25	Nov.19	Nov.30	J 4	C 3	C 4	J 2	-	D 6	-	C 8	D10	-	C 9	C 5		
S3183	21-28	81-91	Nov.24	Nov.20	Nov.27			A 1	B 4	C16	-	C20	-	C19	C 5				
S3184	13	92	-	Nov.24	Nov.24								A 1						
S3185	10-13	347-352	Dec. 1	Nov.26	Dec. 7		J 2	J 2	-	J 2	J 2	-	J 2	C 3	-	J 2	C 5	A 1	
S3186	18	80-83	-	Nov.27	Nov.27										B 4				
S3187	12-16	331-335	Dec. 2	Nov.27	Nov. 8		J 2	-	J 2	C 4	-	J 2	J 2	-	J 2	J 2	J 2	J 2	
S3188	21-22	313-316	Dec. 4	Nov.29	Dec. 8		J 3	J 4	-	J 5	J 4	-	J 2	J 2	J 2	A 1			
S3189	22-29	290-304	Dec. 5	Nov.30	Dec.11		C 4	-	B 8	C20	-	E30	E19	E16	C 8	-	J 2	A 1	
S3190	16-21	317-326	Dec. 3	Nov.30	Dec. 8				A 1	-	C 6	C10	-	D23	C10	C 8	C 6		
S3191	13-18	278-288	Dec. 6	Nov.30	Dec.12	J 2	-	C14	C13	-	C20	C20	C16	H 8	-	H 6	J 4	J 4	

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TABLE OF SUNSPOT GROUPS

DECEMBER 1979

Group NO.	Heliographic Latitude	Heliographic Longitude	C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
N3962	11	343-344	-	Dec. 2	Dec. 2			A 2
N3963	11	332	Dec. 2	Dec. 2	Dec. 2		A 1	
N3964	20-21	318-319	-	Dec. 2	Dec. 2	A 3		
N3965	10	2	-	Dec. 3	Dec. 3			A 1
N3966	26	334	-	Dec. 3	Dec. 3			A 1
N3967	20-21	250-255	Dec. 8	Dec. 3	Dec.12	J 2 - J 2 J 2 J 2	C 3	- J 2 A 1 A 1
N3968	18-19	286-288	-	Dec. 5	Dec. 5	B 2		
N3969	13	336	-	Dec. 6	Dec. 6			A 1
N3970	19	296	-	Dec. 6	Dec. 6			A 1
N3971	19-21	220-226	Dec.11	Dec. 6	Dec.12	A 1 A 1 B 3 - C 4	B 3	B 2
N3972	7-9	235-240	Dec. 9	Dec. 7	Dec.14	B 2 B 5	-	J 2 J 2 C 4 C 3 C 3
N3973	10-12	189-192	Dec.13	Dec. 7	Dec.18	J 3 J 4 - J 4 C 6 J 4	C 6	C 5 J 3 J 3 A 2 A 1
N3974	17-20	183-193	Dec.13	Dec. 7	Dec.19	J 2 J 5 - C 8 C11 C14	C 9	C 7 C 4 J 2 J 2 J 2 J 2
N3975	12-14	270-277	-	Dec. 8	Dec.13			A 1 - C 4 D 7 D 9 A 1
N3976	23-24	231-233	Dec.10	Dec. 8	Dec.10	A 2 -	A 3	
N3977	21	178	-	Dec. 8	Dec.12	A 1 - J 2 J 2 A 1		
N3978	9-10	216-224	Dec.11	Dec.10	Dec.14	C 4	B 9	B 9 B 8 C 5
N3979	9-11	207-212	Dec.12	Dec.10	Dec.14	C 7 C 5	J 2	J 2 J 2
N3980	21-24	175-181	Dec.14	Dec.10	Dec.19	J 5 C 9 D 8 C 9	C13	C11 C 9 C 7 C 5 A 1
N3981	24	246	-	Dec.11	Dec.11			A 1
N3982	18	218	-	Dec.12	Dec.12			A 1
N3983	13-17	171-183	Dec.14	Dec.12	Dec.20	A 2 C14	C27	D25 E24 E24 E26 E18 E11
N3984	3-4	170-175	Dec.14	Dec.13	Dec.17	B 2	C 4	C 7 J 2 B 3
N3985	26	180	-	Dec.15	Dec.15			A 2
N3986	32	166	Dec.15	Dec.15	Dec.15		A 1	
N3987	29	162	Dec.15	Dec.15	Dec.15		A 1	
N3988	8-10	153-160	Dec.15	Dec.15	Dec.21		B 3	B 3 B 6 D 8 D14 D13 D 6
N3989	30	105	-	Dec.24	Dec.24			A 1
N3990	19	38	Dec.24	Dec.24	Dec.24		A 1	
N3991	23-25	15-16	Dec.26	Dec.26	Dec.26		A 2	
N3992	10	288	-	Dec.28	Jan. 1	A 1 - J 2 J 2 A 1		
N3993	11-13	7-12	-	Dec.30	Dec.31			B 6 C 3
N3994	10-15	230-243	Jan. 6	Dec.31		J 2 J 2 - - - C21	E16	C 9 C 6 C 8 J 3 J 2

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S3192	20	295	-	Dec. 2	Dec. 2				A 1									
S3193	9-11	14-15	-	Dec. 3	Dec. 3											A 2		
S3194	11	333	-	Dec. 3	Dec. 3								A 1					
S3195	13-15	318-325	Dec. 3	Dec. 3	Dec. 8							C 7	-	D21	D11	D10	J 6	
S3196	22-25	261-267	Dec. 7	Dec. 3	Dec.13			A 2	-	A 1	B 3	B 5	B 3	-	..	..	..	B 2
S3197	14-16	246-248	Dec. 9	Dec. 3	Dec.15	J 2	-	J 2	J 3	J 3	J 3	-	J 3	C 5	J 3	J 3	J 2	J 2
S3198	10-13	242-249	Dec. 9	Dec. 3	Dec.15	J 3	-	C10	C13	C14	C17	-	C20	C13	C10	C 5	H 7	J 2
S3199	26-27	254-257	-	Dec. 3	Dec. 7		A 1	-	B 4	A 1	B 4							
S3200	26	312	-	Dec. 5	Dec. 7								A 1	..	A 1			
S3201	16-17	273-276	Dec. 6	Dec. 5	Dec. 7						B 3	A 4	A 2					
S3202	14	272	-	Dec. 5	Dec. 5					A 1								
S3203	13-15	236-240	Dec. 9	Dec. 5	Dec.13			A 2	A 2	B 4	B 3	-	C 7	C10	B 6	A 1		
S3204	19-20	292-296	-	Dec. 6	Dec. 8								A 1	A 2	B 4			
S3205	5-7	242-244	Dec. 9	Dec. 7	Dec.11					A 1	A 1	-	A 4	B 3				
S3206	12	262	-	Dec.10	Dec.10									A 1				
S3207	29	244	-	Dec.10	Dec.10								A 1					
S3208	32-35	222-229	Dec.10	Dec.10	Dec.15							B 2	D10	C11	C 6	C 7	B 4	
S3209	5-6	222-223	Dec.11	Dec.10	Dec.11						A 1	A 2						
S3210	14-17	203-215	Dec.12	Dec.10	Dec.17					D17	C17	C10	C 8	C19	D18	C15	C 8	
S3211	25-27	190-196	Dec.13	Dec.10	Dec.14				A 1	..	C 3	C 5	B 2					
S3212	31	177-180	-	Dec.10	Dec.12			C 4	B 4	A 2								
S3213	17-21	132-142	Dec.17	Dec.11	Dec.21	J 2	D 4	D 5	D 6	G 8	E10	G10	D 7	C 4	J 2	J 2		
S3214	12-13	264-267	-	Dec.12	Dec.13												A 1	B 2
S3215	11-13	130-136	Dec.17	Dec.12	Dec.20		A 1	J 2	D 6	D 5	D 9	C 8	J 2	J 2	A 3			
S3216	16	229	-	Dec.13	Dec.13										A 1			
S3217	31	239	-	Dec.13	Dec.14											A 1	A 1	
S3218	21-25	133-142	Dec.17	Dec.13	Dec.20			B 7	C 6	C 7	A 2	A 1	..	..	A 1			
S3219	23-26	172-180	-	Dec.15	Dec.20								A 1	C 6	C 7	C 5	J 2	A 1
S3220	18-20	193-197	-	Dec.16	Dec.18										A 1	C 5	J 2	
S3221	6-8	119-126	Dec.18	Dec.16	Dec.24					A 1	A 2	A 1	C 4	D 9	D11	-	..	D 9
S3222	15-19	63-78	Dec.22	Dec.16	Dec.28	A 1	B 3	B 5	C19	E32	E31	-	-	E26		E17	..	B 4
S3223	18	107	-	Dec.17	Dec.17					A 1								