

TABLE OF SUNSPOT GROUPS

JANUARY 1980

Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side						C.M.	W-Side					
Group No.	Latitude				Longitude												
N3995	15-21	216-226	Jan. 7	Jan. 1	Jan. 12	J 2	-	-	-	C10	D14	C10	C 6	C 6	C 7	C 4	J 3
N3996	15	272	-	Jan. 5	Jan. 5									A 1			
N3997	16-18	244-252	Jan. 5	Jan. 5	Jan. 9							G 4	C 3	J 2	A 1	A 1	
N3998	14	244	Jan. 5	Jan. 5	Jan. 5							A 1					
N3999	15-20	192-207	Jan. 9	Jan. 5	Jan. 14			A 2	D13	E27	E19	E27	E30	E30	E28	-	F13
N4000	9-16	178-192	Jan. 10	Jan. 5	Jan. 14			C10	C10	C15	C20	C28	C22	D12	D14	-	J 5
N4001	16-17	171-172	Jan. 11	Jan. 5	Jan. 12	J 2	C 3	J 2	J 2	J 2	J 2	J 2	J 2	J 2			
N4002	9	161	-	Jan. 7	Jan. 9			A 1	A 1	A 1							
N4003	20	212-213	Jan. 8	Jan. 8	Jan. 9								A 2	A 1			
N4004	20-21	133-134	Jan. 14	Jan. 8	Jan. 14	J 2	J 2	J 2	J 2	J 2	J 2	-	J 2				
N4005	11-14	214-219	-	Jan. 9	Jan. 12									A 2	..	C 5	B 7
N4006	11	164-165	-	Jan. 10	Jan. 10												
N4007	8-10	116-126	Jan. 14	Jan. 10	Jan. 14			C 4	D 5	D12	-	D 9					
N4008	24-28	162-175	Jan. 11	Jan. 11	Jan. 14							D 6	D13	-	G14		
N4009	28-29	100-101	Jan. 16	Jan. 11	Jan. 22	J 2	J 2	-	J 2	-	-	-	J 2	J 2	J 2	-	A 1
N4010	14	229	-	Jan. 12	Jan. 12												A 1
N4011	25	188	-	Jan. 12	Jan. 12												
N4012	17	131	Jan. 14	Jan. 14	Jan. 14												
N4013	30-31	92-94	-	Jan. 14	Jan. 14												
N4014	7-8	133-135	-	Jan. 18	Jan. 18												
N4015	9-14	34-45	Jan. 21	Jan. 18	Jan. 26												J 3
N4016	12-13	8-14	Jan. 23	Jan. 19	Jan. 25												
N4017	17	49	Jan. 20	Jan. 20	Jan. 20												
N4018	12	52	-	Jan. 22	Jan. 22												
N4019	8-10	41-51	-	Jan. 23	Jan. 26												
N4020	9-9	342-346	Jan. 25	Jan. 24	Jan. 26												
N4021	26-28	334-339	Jan. 26	Jan. 26	Jan. 28												
N4022	14-17	254-255	Feb. 1	Jan. 26	Feb. 7	J 2	J 2	J 2	-	-	J 4	-	J 4	J 4	J 3	J 2	J 2
N4023	17	255	-	Jan. 27	Jan. 31												
N4024	2-5	245-256	Feb. 1	Jan. 27	Feb. 4												
N4025	12-15	293-296	Feb. 29	Jan. 28	Jan. 31												
N4026	12-16	235-239	Feb. 2	Jan. 28	Feb. 8												
N4027	11-16	226-231	Feb. 3	Jan. 28	Feb. 7	J 2	-	-	C12	-	C	C10	C 7	J 5	J 4	A 2	

N4028	8-12220-228	Feb. 3	J .31	Feb. 7
N4029	9 221	-	Jan.31	Jan.31
N4030	17 205	-	Jan.31	Feb. 4
S3233	24-27248-255	Jan. 5	Jan. 5	Jan. 7
S3236	28-30251-253	Jan. 5	Jan. 5	Jan. 7
S3237	45-17214-217	Jan. 7	Jan. 5	Jan.12
S3238	19-20206-207	Jan. 8	Jan. 5	Jan.14
S3239	24-25234-238	Jan. 6	Jan. 6	Jan. 9
S3240	15-16232-234	Jan. 6	Jan. 6	Jan. 7
S3241	10-14170-181	Jan.10	Jan. 6	Jan.14
S3242	21 266	-	Jan. 7	Jan. 7
S3243	19-20269-272	-	Jan. 9	Jan.10
S3244	15 200	Jan. 9	Jan. 9	Jan. 9
S3245	7 134	-	Jan. 9	Jan. 9
S3246	15-21109-118	Jan.15	Jan.10	Jan.20
S3247	25 170	-	Jan.14	Jan.14
S3248	10 120	-	Jan.14	Jan.14
S3249	12-13113-114	-	Jan.14	Jan.14
S3250	14-20 55-68	Jan.19	Jan.14	Jan.24
S3251	12-13 28-29	Jan.22	Jan.18	Jan.28
S3252	9 16	-	Jan.18	Jan.19
S3253	19 86	-	Jan.19	Jan.19
S3254	6-7 334-339	-	Jan.20	Jan.25
S3255	14-19 20-30	Jan.22	Jan.22	Jan.29
S3256	28 311	-	Jan.22	Jan.23
S3257	11 312	-	Jan.22	Jan.25
S3258	13-14301-302	-	Jan.24	Jan.24
S3259	20-22272-280	Jan.30	Jan.25	Jan.31
S3260	11-12305-310	Jan.28	Jan.26	Jan.31
S3261	14 299	-	Jan.26	Jan.26
S3262	17 276	-	Jan.28	Jan.28
S3263	16 244	-	Jan.28	Jan.28
S3264	11-21197-213	Feb. 4	Jan.31	Feb.11

A 2 - B	B 7	A 1 A 1
A 2		
J 2 - J 2	J 2	A 2
	B12	G 5 A 1
	A 6	J 3 A 1
	C 8 J10	C11 J 7 J 4 C 5 J 2 J 2
	J 2 J 2 J 2	J 2 J 2 J 2 J 2 J 2 - J 2
	B 2	D 4 B 3 A 1
	C 3	A 1
	D 7 D15 D17 D26	D20 E22 E22 - E15
		A 1
		A 3 J 2
	A 1	
A 2		
B 5 C 6 C 9 - B13	-	- - D15 D12 C 9
		A 1
	A 1	
	A 2	
C 6 - - - E27	E22	G24 - G10 G 9 A 1
J 2 J 2 J 2 -	J 2	J 2 J 2 J 2 J 2 J 2 A 1
A 1 A 1		
		A 1
A 1 - B 6 B 6 B 7 B 6		
	D19	D25 D29 D24 E19 D16 C14
A 1 A 2		
A 1 J 2 A 1 A 1		
		A 2
J 2 C 5 A 2 B 7 - -		A 1
	A 2 C 5	C 6 - - G 4
	A 1	
	A 2	
A 1		
E21 - E45 E51 E56	F51 F53 F50 F39 G33 G18 E 7	

TABLE OF SUNSPOT GROUPS

FEBRUARY 1980

Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side	
Group No.	Latitude						Longitude	
N4031	16-21	209-214	Feb. 4	Feb. 2	Feb. 8	J 2 D 7	B 6	C10 D 6 B 2 A 1
N4032	15-16	192-199	Feb. 5	Feb. 2	Feb. 10	J 3 C 7 C 8	C 6	C 6 C 6 J 2 J 2 A 1
N4033	24-26	149-156	Feb. 8	Feb. 3	Feb. 13	J 2 D 5 D 4 D 4 C 3	J 2	J 3 C 8 C 8 C 4 A 1
N4034	0-3	190-200	Feb. 5	Feb. 4	Feb. 11		B 3	A 2 C 8 D23 D20 D14 D11 E10
N4035	9	148	-	Feb. 7	Feb. 8		A 1	A 1
N4036	5-12	139-147	Feb. 9	Feb. 7	Feb. 15		C 3	C 6 C 8 C 9 C20 C19 D23 - C 6
N4037	13	145	-	Feb. 10	Feb. 10			A 1
N4038	5-14	44-55	Feb. 16	Feb. 10	Feb. 22	A 1 H12 H19 H20 -	C40	C32 C30 C32 - H13 H10 H 7
N4039	21-23	35-44	Feb. 17	Feb. 12	Feb. 20	A 1 A 1 -	C11	C 8 B 6 A 1 - A 1
N4040	14-16	75-85	-	Feb. 16	Feb. 18			D 8 D10 C10
N4041	8-11	307-318	Feb. 24	Feb. 20	Feb. 29	D 6 D13 D17 D28	D22	E25 - C12 - J 3
N4042	4-5	318-322	-	Feb. 24	Feb. 24			B 3
N4043	14-15	239-242	Feb. 29	Feb. 24	Feb. 29	A 1 A 1 -	A 1	- B 2
N4044	24-28	284-291	Feb. 26	Feb. 25	Feb. 27		A 3	- C 4
N4045	14	234	-	Feb. 25	Feb. 29	A 1 -	A 1	- A 1
N4046	16	288	-	Feb. 27	Feb. 27			A 1
N4047	10	265	Feb. 27	Feb. 27	Feb. 27			A 1
N4048	2-4	252-259	Feb. 28	Feb. 27	Mar. 2		C 4	- B 7 - A 1
N4049	6-3	204-204	Feb. 27	Feb. 27	Mar. 2			
N4050	15	198	Feb. 27	Feb. 27	Feb. 29		A 1	- A 1
N4051	11	262	-	Feb. 29	Feb. 29			A 1
N4052	16-17	189-197	Feb. 4	Feb. 29	Mar. 8	C 3 -	J 3	B 3 - A 2 - C 4
S3265	12-14	183-186	Feb. 6	Feb. 2	Feb. 7	C 4 B 3 A 1 ..	A 2	A 1
S3266	14	255-257	-	Feb. 3	Feb. 4			A 2 A 1
S3267	17	215	-	Feb. 3	Feb. 3		A 2	
S3268	25-27	235-237	-	Feb. 5	Feb. 7			A 3 A 2 A 1
S3269	10-16	119-136	Feb. 10	Feb. 5	Feb. 16	C11 E21 F24 F20 F33	F20	C28 C21 C17 - H 6 H 5
S3270	20	172	-	Feb. 6	Feb. 6		A 1	
S3271	19	109	-	Feb. 7	Feb. 9	A 1 A 2 A 1		
S3272	13-15	108-116	Feb. 12	Feb. 8	Feb. 13	C 8 D 7 D 7 D 9	D 5	C 3
S3273	17-19	31-38	Feb. 17	Feb. 12	Feb. 24	B 2 B 2 -	A 1	B 3 B 5 A 2 - B 9 J 2 B 4 C 6 A 1
S3274	16-20	19-29	Feb. 18	Feb. 12	Feb. 22	J 3 C 5 -	C16	C17 D21 C21 - B12 C 9 B 4
S3275	19	84	-	Feb. 15	Feb. 15			A 1
S3276	21-24	69-76	Feb. 15	Feb. 15	Feb. 17		D 7	D 7 B 2
S3277	28	18	-	Feb. 15	Feb. 15	A 1		

S3278	24	350	--	Feb.	Feb.20	J 2 J 2 J 2 J 2 - A 1							
S3279	7-13	321-330	Feb.23	Feb.17	Feb.29	J 3 C 6 - H12 C 7 C13	C 5	C 4 J 3	--	J 2	--	J 2	
S3280	24	26	--	Feb.20	Feb.20			A 1					
S3281	8-11	6-13	--	Feb.20	Feb.24			D11 D 6 D 4 C 3 J 2					
S3282	9-15	267-274	Feb.27	Feb.21	Mar. 3	A 2 C 8 C 8 C 6 C 5 -	C 9	- C10	-	J 2 J 2			
S3283	15	279	--	Feb.25	Feb.25			A 1					
S3284	16-17	264-267	--	Feb.25	Feb.25			B 2					
S3285	23-29	223-230	Mar. 1	Feb.25	Mar. 6	A 4 - B 8 -	B13	-	B12 C14	-	C 3 C 6		
S3286	11-13	219-222	Mar. 2	Feb.25	Mar. 6	J 3 - J 4 -	C 8	-	C 9 J 3	-	J 4 J 5		
S3287	16-19	202-205	Mar. 3	Feb.27	Mar. 8	J 3 - C 7 -	J 6	D 7	-	J 4 J 2	-	J 2	
S3288	8-9	313-319	--	Feb.29	Feb.29							C 3	
S3289	31	307	--	Feb.29	Feb.29							A 1	
S3290	15	211	--	Feb.29	Mar. 3			A 1 -	A 3	A 2			
S3291	17-20	189-194	Mar. 4	Feb.29	Mar.10	A 1 -	A 1 B 3	-	C 6 D12	-	B 2	--	A 2

TABLE OF SUNSPOT GROUPS

MARCH 1980

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side		C.M.	W-Side	
	Latitude	Longitude								
N4053	21-23	212-216	Mar. 2	Mar. 2	Mar. 2			B 3		
N4054	8	153-155	-	Mar. 2	Mar. 6	J 2 J 3	- A 1 A 2			
N4055	26	142	-	Mar. 3	Mar. 3	A 1				
N4056	10-11	184-185	Mar. 5	Mar. 5	Mar. 5			A 2		
N4057	9-10	135-136	Mar. 8	Mar. 5	Mar. 8		J 4 A 3 -	A 2		
N4058	10-11	109-115	-	Mar. 5	Mar. 6	A 1 B 4				
N4059	25-26	178-182	-	Mar. 6	Mar. 8			C 5 - A 1		
N4060	12-15	76-83	Mar. 12	Mar. 8	Mar. 15	C 3 - J 2 J 2	J 2 J 2	J 2 J 2 - A 2		
N4061	15-18	26-29	Mar. 16	Mar. 15	Mar. 16		B 3	A 1		
N4062	11-13	293-301	Mar. 23	Mar. 18	Mar. 28	A 2 B 2 J 2 B 3	-	B 4 C10 C11 - B 4 A 1		
N4063	20	310	-	Mar. 19	Mar. 19	A 1				
N4064	24-25	291-294	Mar. 24	Mar. 19	Mar. 25	J 2 J 3 J 4 -	C 4	C 3 A 1		
N4065	3-6	272-275	Mar. 25	Mar. 19	Mar. 29	J 2 J 4 J 5 -	H11 H10	C10 - D 5 B 2 A 1		
N4066	24-26	282-283	-	Mar. 23	Mar. 23		A 3			
N4067	21	246-252	-	Mar. 23	Mar. 25	C 3 C 3 B 4				
N4068	5-10	224-234	Mar. 28	Mar. 24	Apr. 3	A 1 A 1 -	B 7	C11 C 9 C 8 - - B 7 B 3		
N4069	8-12	214-216	Mar. 29	Mar. 24	Apr. 3	A 1 A 1 - ..	A 1	B 5 C12 - - J 2 A 1		
N4070	21-25	215-219	Mar. 29	Mar. 24	Apr. 2	J 5 J 6 -	C 9 C 9	B 9 B 7 - - A 2		
N4071	11-14	212-214	Mar. 30	Mar. 24	Apr. 4	J 2 J 3 -	J 4 J 4 C 9	C 5 - - J 6 J 6 A 2		
N4072	5-6	261-264	-	Mar. 25	Mar. 28		A 2	.. .. B 2		
N4073	11-15	222-234	Mar. 28	Mar. 25	Apr. 3	A 1 -	C13	D13 E17 E19 - - G 5 A 1		
N4074	21-28	172-184	Apr. 1	Mar. 27	Apr. 7	C 7 C15 H27 E28	-	- C34 H24 H19 D19 - G 8		
S3292	25-27	282-290	-	Mar. 2	Mar. 3					C 5 J 2
S3293	9-15	134-144	Mar. 8	Mar. 2	Mar. 13	D 4 D 5 -	D12 D21 -	D18 - C 5 J 2 C 5 C 5		
S3294	10	198-199	Mar. 3	Mar. 3	Mar. 3			A 2		
S3295	16-18	65-70	Mar. 13	Mar. 8	Mar. 16	J 2 -	J 5 J 3 C 4	D13 - C 7 J 2		
S3296	18-20	56-60	-	Mar. 8	Mar. 16	A 1 -	A 4 A 2 A 2 ..	- B 5 A 1		

S3297	12	33	-	Mar.10	Mar.18
S3298	30	71	-	Mar.11	Mar.11
S3299	12-13	41-47	-	Mar.11	Mar.13
S3300	22	346	-	Mar.15	Mar.15
S3301	2-4	332-335	Mar.20	Mar.15	Mar.20
S3302	6	71	-	Mar.16	Mar.16
S3303	21	19	-	Mar.18	Mar.18
S3304	25-28	337-335	Mar.19	Mar.18	Mar.25
S3305	1	334-335	-	Mar.18	Mar.18
S3306	24-25	295-301	Mar.23	Mar.18	Mar.29
S3307	18-20	37-41	-	Mar.19	Mar.21
S3308	28	278	-	Mar.20	Mar.21
S3309	8-9	328-329	Mar.21	Mar.21	Mar.21
S3310	25-27	286-291	Mar.24	Mar.23	Mar.29
S3311	22-24	283-290	-	Mar.23	Mar.23
S3312	50-31	274-275	-	Mar.23	Mar.23
S3313	27-28	265-269	Mar.25	Mar.23	Mar.28
S3314	25-28	214-224	Mar.29	Mar.23	Apr. 3
S3315	25	232	Mar.28	Mar.27	Mar.28
S3316	13-15	177-187	Apr. 1	Mar.27	Apr. 7
S3317	50-33	264-267	-	Mar.28	Mar.28
S3318	1-13	229-231	Mar.28	Mar.28	Mar.28
S3319	10-11	137-138	Apr. 4	Mar.29	Apr.10
S3320	2	202	-	Mar.30	Mar.30
S3321	24	191	-	Mar.30	Mar.30
S3322	9-10	177-181	Apr. 1	Mar.30	Apr. 2

A 1 A 2 A 2 A 2 - A 1 .. -- A 1
A 1
B 5 B 5 B 6
A 1
A 1 A 1 - .. A 1 B 4
A 1
B 9 E29 E28 F26 - E20 E13 B 9
A 2
J 2 J 3 B 5 A 3 - B 3 E 7 A 2 - .. B 3 B 2
C 4 C 5 J 3
A 1 A 1
A 2
A 1 A 1 B 4 - B 3 B 2 A 2
B 3
A 2
A 4 D 7 J 2 - J 2 A 2
B 3 D 7 D10 - D12 D10 C 8 C 4 - - J 2 J 2
A 1 A 1
C 4 C10 C 9 C 8 - - C 7 C 8 C 7 C 9 - D 5
B 2
A 4
A 1 J 2 - - J 2 J 2 J 2 J 2 - J 2 J 2 - A 1
A 1
A 1
A 3 - - A 2

TABLE OF SUNSPOT GROUPS

APRIL 1980

Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side		C.M.	W-Side	
Group NO.	Latitude				Longitude				
N4075	6-8	152-154	Apr. 3	Apr. 2	Apr. 4		A 1	B 3	A 1
N4076	13	94	Apr. 8	Apr. 3	Apr. 8	A 1 J 2 A 1	- A 1	A 1	
N4077	19-26	76-95	Apr. 8	Apr. 3	Apr. 10	G 7 E 18 E 20	- F 46	F 59	F 62
N4078	9-14	96-109	Apr. 7	Apr. 5	Apr. 10		C 19	E 39	E 44 - E 29
N4079	18	58	-	Apr. 7	Apr. 7		A 2		
N4080	35	38-42	-	Apr. 8	Apr. 8		B 3		
N4081	8	6	-	Apr. 10	Apr. 10		J 2		
N4082	16-20	338-347	-	Apr. 17	Apr. 18				C 12 A 1
N4083	10-14	333-343	Apr. 17	Apr. 17	Apr. 22			D 15	B 14 C 16 - C 1 A 1
N4084	19-21	235-241	Apr. 24	Apr. 19	Apr. 27	A 1 - D 11	D 7 D 5	D 5	C 5 C 5 A 1
N4085	9	227	-	Apr. 19	Apr. 19	A 1			
N4086	8	232-233	-	Apr. 21	Apr. 24		A 1 J 3 A 1 A 1		
N4087	12-13	221-226	-	Apr. 21	Apr. 23		C 4 B 5 B 2		
N4088	11	160	-	Apr. 26	Apr. 29		A 1 A 1 A 1 A 1		
N4089	6	146-148	-	Apr. 26	Apr. 28		A 1 A 2 A 1		
N4090	10	140	-	Apr. 26	Apr. 29		J 2 J 2 J 3 A 1		
N4091	4-7	125-129	May 2	Apr. 27	May 3		J 2 J 2 J 2 -	B 4	B 3 A 3
N4092	23	235	-	Apr. 28	Apr. 28				A 1
N4093	24	174	-	Apr. 28	Apr. 28			A 2	
N4094	6-11	106-111	May 4	Apr. 28	May 10	H 2 H 2 -	H 2 H 2 H 5	H 9	- H 3 H 3 - J 3
S3323	12	159	-	Apr. 4	Apr. 4				A 1
S3324	15	85-87	Apr. 8	Apr. 7	Apr. 8		A 2	A 1	
S3325	19-23	39-42	Apr. 12	Apr. 7	Apr. 18	C 5 C 11 -	H 8 -		- J 3 J 2
S3326	27-34	13-31	Apr. 13	Apr. 7	Apr. 19	H 4 C 9 -	F 18 -		- C 6 H 3 J 3
S3327	7-11	5-19	Apr. 14	Apr. 8	Apr. 19	C 5 -	D 21 -		- E 21 C 9 J 2
S3328	21	53	-	Apr. 10	Apr. 10		A 1		
S3329	32	6-7	-	Apr. 17	Apr. 19				A 2 .. A 1
S3330	25	344	-	Apr. 17	Apr. 17				A 1
S3331	125-29	333-340	Apr. 17	Apr. 17	Apr. 21			C 5	C 17 D 14 - A 2
S3332	15-22	260-272	Apr. 22	Apr. 17	Apr. 25	D 4 D 13 E 20 -	E 22	B 11	B 11 B 9 A 2

S3333	12-16	232-242	Apr. 24	Apr. 18	Apr. 29	H 2 E18	-	E32	E30	E30	E35	E36	C31	C22	E31	C15
S3334	17	0	-	Apr. 19	Apr. 19										J 3	
S3335	32-33	1-2	-	Apr. 21	Apr. 21											J 2
S3336	25-28	254-259	Apr. 23	Apr. 21	Apr. 23				C 4	B 6	A 1					
S3337	28-32	229-242	Apr. 24	Apr. 23	May 1					B 2	C 9	D10	D14	D12	E14	E14
S3338	21	184	-	Apr. 25	Apr. 25				A 1							
S3339	15-20	139-155	May 1	Apr. 26	May 7	C10	E20	E25	E27	-	F48	F44	F55	F46	-	F20 B 7
S3340	13-14	144-148	May 1	Apr. 28	May 1				A 2	C 4	-	A 2				

TABLE OF SUNSPOT GROUPS
JULY 1980

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side				C.M.	W-Side							
	Lati- tude	Longi- tude				.	.	.	.		.	.	.	.	.	.
N4143	25-30	21-34	Jul. 3	Jul. 3	Jul. 10					D17	C23	C20	E21	-	E34	-	H 4	
N4144	15-17	276-289	Jul. 11	Jul. 5	Jul. 17	A 1	H 6	-	H11	-	C10	-	C15	-	-	-	C 5 J 2	
N4145	19-21	295-298	-	Jul. 6	Jul. 6				C 3									
N4146	21-22	281-285	-	Jul. 6	Jul. 8	A 1	-	B 3										
N4147	15-20	228-236	Jul. 15	Jul. 10	Jul. 21	D 7	-	D11	-	-	-	D12	C14	-	-	-	J 2	
N4148	16-19	169-176	Jul. 20	Jul. 16	Jul. 26				C11	C11	-	-	-	C 7	C10	-	-	J 2 A 1
N4149	12-14	153-158	Jul. 21	Jul. 16	Jul. 25	B 6	C10	-	-	-	C 8	C 7	-	-	B 3			
N4150	3-5	158-163	Jul. 21	Jul. 16	Jul. 21	J 2	C 4	-	-	-	B 7							
N4151	23	225	-	Jul. 17	Jul. 17						A 1							
N4152	23-25	146-151	Jul. 21	Jul. 17	Jul. 22	A 1	-	-	-	-	C 7	A 2						
N4153	6-7	181-185	-	Jul. 21	Jul. 22								D 7	C 4				
N4154	15-16	157-160	Jul. 21	Jul. 21	Jul. 21						B 3							
N4155	14-17	130-138	Jul. 23	Jul. 21	Jul. 26				C13	D12	-	-	C 3	B 2				
N4156	9-11	97-100	Jul. 25	Jul. 25	Jul. 29						J 8	H11	J 9	J 8	J 6			
N4157	18	61	-	Jul. 25	Jul. 25				A 1									
N4158	19	51-53	-	Jul. 25	Jul. 28				J 2	A 1	A 2	A 1						
N4159	25-27	18-28	Jul. 31	Jul. 25	Aug. 2	C 3	J 2	J 2	C 4	J 2	-	C 4	J 2	J 2				
N4160	25	41	-	Jul. 26	Jul. 26				A 1									
N4161	15	146	-	Jul. 27	Jul. 28												A 2 B 3	
N4162	16-18	25-30	Jul. 30	Jul. 27	Aug. 2				B 8	C 7	C 6	-	J 3	C 4	J 2			
N4163	10-11	16-20	Jul. 31	Jul. 29	Aug. 6					B 3	-	A 1	..	..	-	-	D 4 B 3
N4164	17-18	38-342	-	Jul. 29	Aug. 5	A 1	-	C 6	A 1	..	-	-	A 1					
N4165	27	14	-	Jul. 31	Jul. 31						A 2							
S3414	18	121	-	Jul. 1	Jul. 1												A 1	
S3415	20-22	105-109	-	Jul. 1	Jul. 4												A 1 - C 4 A 1	
S3416	23	41	-	Jul. 1	Jul. 1						A 1							
S3417	14-15	349-357	Jul. 6	Jul. 1	Jul. 6	B 2	-	B 5	A 2	A 3	A 1							
S3418	18-20	54-65	-	Jul. 3	Jul. 6												D12 D12 C 9 B 3	

TABLE OF SUNSPOT GROUPS

Heliographic		C.M.		AUGUST 1980		E-Side		C.M.		W-Side	
Group NO.	Latitude	Longitude	Passage	First Obs.	Last Obs.						
N4166	31	20	-	Aug. 1	Aug. 1			A 1			
N4167	13	303-304	-	Aug. 1	Aug. 2	A 1 A 2					
N4168	17	20265-273	Aug. 9	Aug. 6	Aug. 13	C 4 - -		C10		- C 4 J 2 J 2	
N4169	17	18230-231	Aug. 11	Aug. 6	Aug. 15	J 2 - - J 2 -		J 2		J 2 J 2 - J 2	
N4170	16	261-262	Aug. 9	Aug. 9	Aug. 9			A 2			
N4171	10	12256-264	Aug. 9	Aug. 9	Aug. 15			B 8		- D17 D11 D 8 - J 2	
N4172	10	14179-187	Aug. 15	Aug. 9	Aug. 18	A 1 - C 8 D15 C17 -		D18		- - J 6	
N4173	2-5	183-191	Aug. 15	Aug. 11	Aug. 18	B 6 D10 D19 -		C16		- - C 5	
N4174	25	234	-	Aug. 12	Aug. 13			A 1 A 1			
N4175	10-13	155-162	Aug. 17	Aug. 12	Aug. 18	B 2 B 4 - C 8 -		C20			
N4176	14	215	Aug. 13	Aug. 13	Aug. 13			A 1			
N4177	16	151	-	Aug. 15	Aug. 15	A 1					
N4178	4-15	136-144	Aug. 18	Aug. 15	Aug. 25	A 1 - -		D 8		- - - - A 1	
N4179	15-19	100-113	Aug. 21	Aug. 15	Aug. 27	A 1 - - E18 - -				- - - E33 - C 7	
N4180	20	145	Aug. 18	Aug. 18	Aug. 18			A 1			
N4181	8-10	123-131	-	Aug. 18	Aug. 18			D17			
N4182	12-15	70-76	Aug. 24	Aug. 18	Aug. 25	C 7 - - - -		C 3			
N4183	20-22	103-105	-	Aug. 25	Aug. 27					J10 - A 1	
N4184	14	58	Aug. 25	Aug. 25	Aug. 27			A 1		- A 1	
N4185	21	57-60	Aug. 25	Aug. 25	Aug. 28			A 1		- - B 2	
N4186	7-11	29-38	Aug. 26	Aug. 25	Aug. 28			C11		- H 9 D 9	
N4187	9-11	5-11	Aug. 28	Aug. 27	Sep. 3			D11 D13		- - - C 5 J 3 A 1	
N4188	7-13	290-302	Sep. 3	Aug. 28	Sep. 5	B 5 - - - E22 E23		E28		E27 E23	
S3447	8	305	-	Aug. 1	Aug. 2	A 1 A 1					
S3448	4-7	288-299	Aug. 7	Aug. 5	Aug. 12	B 4 C 8		- -		- D21 - D23 C 8	
S3449	12	275	Aug. 8	Aug. 5	Aug. 9	J 2 J 2 - -		A 1			
S3450	26-27	234-236	Aug. 11	Aug. 5	Aug. 15	J 2 J 2 - - J 3 -		J 3		J 4 J 3 - J 3	
S3451	23	307-311	Aug. 6	Aug. 6	Aug. 9			A 1		- - B 2	
S3452	10-11	299-302	-	Aug. 11	Aug. 11					B 4	
S3453	21-22	201-205	-	Aug. 11	Aug. 13	A 2 B 4		A 1			
S3454	26	187	-	Aug. 11	Aug. 11	A 1					
S3455	10-12	176-180	Aug. 15	Aug. 11	Aug. 15	B 3 C 5 C 6 -		B 4			

S3456	23-26	159-168	Aug. 16	Aug. 11	Aug. 18	B 4 B 7 D. 9 - C12	-	-	C 7
S3457	10	219	Aug. 12	Aug. 12	Aug. 12		A 1		
S3458	20-23	153-154	Aug. 17	Aug. 12	Aug. 18	J 2 J 2 - J 2 -	-	C 3	
S3459	11	133	-	Aug. 13	Aug. 18	J 2 - J. 2 - -	J 2		
S3460	29	160	-	Aug. 15	Aug. 15		A 2		
S3461	8-9	141-148	Aug. 18	Aug. 15	Aug. 18		C 3 - -	B 8	
S3462	12	121	-	Aug. 15	Aug. 18		J 2 -	-	A 1
S3463	6-8	55-60	Aug. 25	Aug. 25	Aug. 28			A 3 -	C 5 J 2
S3464	4-15	46-50	Aug. 25	Aug. 25	Aug. 27			A 2 -	B 3
S3465	17-19	18-20	Aug. 27	Aug. 25	Aug. 27		A 4 -	A 2	
S3466	25-27	345-6	Aug. 29	Aug. 27	Sep. 3		D14 D13	- -	G11 G 6 G 3
S3467	4-12	293-305	Sep. 2	Aug. 27	Sep. 5	J 2 D 9 - -	-	E50 E45	E49 C48 C36

TABLE OF SUNSPOT GROUPS
OCTOBER 1980

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side			C.M.	W-Side		
	Latitude	Longitude										
N4225	20-23	260-264	Oct. 3	Oct. 1	Oct. 3		G 4	C 5	B 7			
N4226	25	257	-	Oct. 4	Oct. 4					A 1		
N4227	17	228	-	Oct. 4	Oct. 4					A 1		
N4228	16	241	-	Oct. 8	Oct. 8						A 1	
N4229	9-13	153-170	Oct. 10	Oct. 8	Oct. 17		B 11	C 18	-	-	-	F 24 - A 2
N4230	11-15	140-151	Oct. 11	Oct. 8	Oct. 17		F 20	F 22	-	-	-	E 1 - H 3
N4231	14-16	89-97	Oct. 15	Oct. 15	Oct. 17				B 6	-	B 5	
N4232	4-6	38-93	-	Oct. 15	Oct. 15						B 5	
N4233	6-9	56-63	Oct. 18	Oct. 15	Oct. 22		C 4	-	C 8	-	-	A 2
N4234	20	47	-	Oct. 15	Oct. 15		A 1					
N4235	11-14	53-54	-	Oct. 17	Oct. 17			A 3				
N4236	16-22	24-32	-	Oct. 22	Oct. 26						D 25	D 23 - - C 5
N4237	16	340-342	-	Oct. 22	Oct. 23			J 2	A 2			
N4238	5-9	320	-	Oct. 22	Oct. 23		A 1	A 2				
N4239	18-19	267-274	Oct. 29	Oct. 26	Nov. 1		C 3	C 6	C 9	C 8	C 5	C 3 J 2
N4240	20-23	259-269	Oct. 30	Oct. 26	Oct. 31		J 2	C 10	C 10	C 6	B 10	A 3
N4241	11-15	252-261	Oct. 30	Oct. 27	Nov. 3		A 1	C 8	C 9	C 16	C 17	C 12 - A 1
N4242	19	252-254	-	Oct. 28	Oct. 29			A 1	A 2			
N4243	6-9	240-247	Oct. 31	Oct. 28	Nov. 5		D 14	C 10	C 12	C 7	C 8	- C 6 - J 2
N4244	13-15	237-244	Oct. 31	Oct. 28	Nov. 3			B 3	B 4	C 9	D 17	C 17 - B 3
N4245	29-30	210-213	Nov. 3	Oct. 28	Nov. 5		A 1	J 4	J 4	J 3	J 3	- C 3 - C 4
N4246	25	269	Oct. 29	Oct. 29	Oct. 30					A 1	A 1	
N4247	17-19	208-212	Nov. 3	Oct. 29	Nov. 3		A 2	B 4	B 3	A 1	-	B 4
N4248	21	273	-	Oct. 30	Oct. 30							A 1
N4249	20-24	188-203	Nov. 4	Oct. 30	Nov. 11		A 2	C 8	D 17	-	F 29	- E 28 F 24 - F 13 G 7 J 2 A 1
N4250	1-5	195-195	Nov. 4	Oct. 30	Nov. 10		C 6	D 10	D 11	-	D 14	- D 11 C 4 - C 3 J 2 J 2
N4251	5-6	172-173	Nov. 6	Oct. 31	Nov. 11		J 2	J 2	-	J 2	-	J 2 J 2 J 2 J 2
N4252	7-16	158-172	Nov. 6	Oct. 31	Nov. 12		H 4	H 9	-	H 35	-	H 71 H 59 - H 45 H 36 H 25 H 17 H 12

TABLE OF SUNSPOT GROUPS
NOVEMBER 1980

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side					C.M.	W-Side								
	Latitude	Longitude																		
N4253	15	262	-	Nov. 1	Nov. 1										A 1					
N4254	19	242	-	Nov. 1	Nov. 1										A 1					
N4255	20	238-244	-	Nov. 5	Nov. 6												A 1 B 2			
N4256	3-5	155-157	-	Nov. 5	Nov. 5															
N4257	15	205	-	Nov. 8	Nov. 8													A 1		
N4258	15-19	33-38	Nov.16	Nov.11	Nov.20		A 1	C 6	C 5	C 9	C 6	-	-	C13	B 7	C 4				
N4259	13-16	355- 7	Nov.19	Nov.13	Nov.20		A 2	B 5	D 8	-	-	C20	C15	C12						
N4260	16-17	40-43	Nov.16	Nov.14	Nov.18													A 2		
N4261	21	25-27	-	Nov.18	Nov.18													A 2		
N4262	7-10	327-337	Nov.21	Nov.18	Nov.27					B 7	C14	C12	-	-	C10	C13	-	D13	C 8	
N4263	8-15	308-322	Nov.22	Nov.18	Nov.27			F19	F25	F40	-	-	C23	C22	-	C 7	B 3			
N4264	10-12	324-327	Nov.21	Nov.19	Nov.24					J 4	B 3	-	-	C 8	A 3					
N4265	15-18	340-349	-	Nov.24	Nov.26													B 2	-	C 7
N4266	12-13	262-267	-	Nov.24	Nov.24						B 6									
N4267	6	314	-	Nov.26	Nov.27													J 2	J 2	
N4268	18-20	230-235	Nov.29	Nov.26	Dec. 2					B 4	B 5	-	B 3	-	B -	A 1				
N4269	11-15	205-215	Nov.30	Nov.26	Dec. 6			D 8	D 9	-	C17	-	D -	C10	C 8	J 3	J 3	J 2		
N4270	24-25	182-187	Dec. 2	Nov.26	Dec. 4		A 1	A 1	-	A 1	-	B -	B 4	A 3	A 1					
N4271	17-20	235-255	Dec.27	Nov.27	Dec. 2								B 2	-	J 3	-	A -	A 1		
N4272	14-19	232-246	Dec.28	Nov.27	Dec. 4						B 3	-	C26	-	D -	E15	F 5	D 4		
N4273	20-22	179-187	Dec. 2	Nov.27	Dec. 8		D 4	-	D 6	-	J -	J 2	C 4	D10	D11	D 9	C 4	A 1		
N4274	17-18	191-195	Dec. 1	Nov.29	Dec. 3						B 2	-	C -	A 2	A 2					
N4275	12	172	-	Nov.29	Nov.29														A 1	
S3517	9-12	157-170	Nov. 6	Nov. 3	Nov.12															
S3518	24	157	-	Nov. 3	Nov. 3															
S3519	18	249	-	Nov. 5	Nov. 5															
S3520	14-19	124-137	Nov. 9	Nov. 5	Nov.14															
S3521	6-16	88-107	Nov.11	Nov. 5	Nov.18		D 4	F16	-	F42	F53	F48	F65	F77	F61	F64	F56	-	-	C 8
S3522	10-11	123-126	-	Nov.10	Nov.10															
S3523	10	109-113	Nov.10	Nov.10	Nov.10								B 2							

S3524	16-17	350-351	Nov. 20	Nov. 14	Nov. 24	J 2 J 2	-	-	J 2 J 3	J 2	-	-	J 2 J 2
S3525	15	5-8	Nov. 18	Nov. 18	Nov. 20					B 3	B 3	A 1	
S3526	16-19	279-282	Nov. 25	Nov. 19	Nov. 29	J 2 J 3	-	-	J 6 J 5	-	C 5	C 6	- J 2
S3527	7-8	332-337	-	Nov. 23	Nov. 27							A 1	C 4 - J 2 A 1
S3528	6	253	-	Nov. 24	Nov. 24			A 1					
S3529	10-11	258-262	Nov. 26	Nov. 26	Nov. 27					D 4	D 5		
S3530	30-34	240-244	Nov. 28	Nov. 26	Nov. 29				J 5 C 7	-	C 6		
S3531	12-13	281-284	-	Nov. 27	Nov. 27							C 5	
S3532	7-13	169-181	Dec. 3	Nov. 27	Nov. 9	B 4	-	E 16	-	E - E 20	E 31	E 26	E 22 E 20 E 17 E 11 C 5

TABLE OF SUNSPOT GROUPS

DECEMBER 1990

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side				C.M.	W-Side								
	Latitude	Longitude				J	C	H	D		J	C	H	D	J	C	H	D	
N4276	23-25	127-128	Dec. 6	Dec. 1	Dec. 11	J	J	J	J	J	J	J	J	J	J	J	J	J	J
N4277	23-24	193-197	-	Dec. 2	Dec. 2							B	B						
N4278	9-10	172-177	Dec. 3	Dec. 2	Dec. 5					B	B	A	A						
N4279	13-14	162-163	-	Dec. 3	Dec. 3					A	A								
N4280	16	136	-	Dec. 5	Dec. 5					A	A								
N4281	10-15	43-53	Dec. 12	Dec. 8	Dec. 18	B	C	D	D					D	D	D	D	D	D
N4282	9	108	-	Dec. 9	Dec. 9							A	A						
N4283	7-8	47-51	Dec. 12	Dec. 10	Dec. 15			B	B							J	J		
N4284	13-15	39-42	-	Dec. 10	Dec. 11	B	A	A											
N4285	22-23	35-37	-	Dec. 10	Dec. 10	A	A												
N4286	14-15	350-354	-	Dec. 11	Dec. 11	C	C												
N4287	2-10	336-345	Dec. 17	Dec. 15	Dec. 22			H	F	H	D	D						C	C
N4288	9-15	326-339	Dec. 18	Dec. 15	Dec. 22			F	F	C	C	F					B	B	
N4289	5-8	315-323	Dec. 19	Dec. 15	Dec. 25	J	C	C	J	J	J			J	J				J
N4290	15	343	-	Dec. 16	Dec. 16					A	A								
N4291	19	344	Dec. 17	Dec. 17	Dec. 17					A	A								
N4292	3-5	272-280	Dec. 22	Dec. 17	Dec. 25	J	C	C			C					B	B		
N4293	10	277-279	-	Dec. 17	Dec. 19	J	J	J											
N4294	11	341	Dec. 18	Dec. 18	Dec. 18					A	A								
N4295	8	325-326	Dec. 19	Dec. 19	Dec. 19					A	A								
N4296	16-19	237-242	Dec. 25	Dec. 19	Dec. 31	J			H		C	C				C	J	J	J
N4297	17-19	277-280	Dec. 22	Dec. 22	Dec. 22						B	B							
N4298	2-5	261-270	Dec. 23	Dec. 22	Dec. 29					D	D			D	D				J
N4299	27-29	215-221	Dec. 27	Dec. 22	Dec. 30	D			D	D				D	D	B	B		
N4300	15-16	285-286	-	Dec. 25	Dec. 25											A	A		
N4301	11	276	-	Dec. 25	Dec. 25											A	A		
N4302	23-24	188-190	Dec. 29	Dec. 25	Jan. 1		J	J			J	J	J	J	J				
N4303	23-24	167-169	Dec. 31	Dec. 25	Jan. 1	J	J			J	J	J	J						
N4304	21	240	-	Dec. 26	Dec. 26						A	A							
N4305	20-25	174-182	Dec. 30	Dec. 26	Jan. 1	B			D	C	C	C	J	J					
N4306	12-15	188-198	Dec. 29	Dec. 29	Jan. 4					D	D	D	D	D				A	A
N4307	9-11	120-123	Jan. 3	Dec. 29	Jan. 9	J	J	J	J			C	J	J	J	J	J	J	J
N4308	8-11	110-113	Jan. 4	Dec. 29	Jan. 10	A	J	J	J		C	J	J	J	J	J	J	J	A
N4309	11-15	209-215	-	Dec. 31	Jan. 1											C	D	D	
N4310	8	185	-	Dec. 31	Dec. 31							A	A						
N4311	20-24	156-159	Dec. 31	Dec. 31	Jan. 6					A	C	C				C	J	B	C

S3533	9-12	160-168	Dec. 4	Dec. 1	Dec. 9	C - B 5 B12	D16	D14	D16	C12	C 6	J 2
S3534	11-13	152-155	Dec. 4	Dec. 2	Dec. 4	A 1 B 3	B 3					
S3535	13	136	-	Dec. 2	Dec. 2	A 1						
S3536	5	127-132	-	Dec. 2	Dec. 3	B 2 J 2						
S3537	6-7	170-176	Dec. 3	Dec. 3	Dec. 3		B 3					
S3538	5	158	-	Dec. 3	Dec. 3		A 2					
S3539	29	134	Dec. 6	Dec. 3	Dec. 6	J 2 J 2 J 2	A 1					
S3540	13-14	101-103	Dec. 8	Dec. 3	Dec. 11	J 2 J 2 J 2 J 2 J 2	J 2	J 2	J 3	J 2		
S3541	12	119-120	Dec. 7	Dec. 7	Dec. 7		A 2					
S3542	26-27	119-123	-	Dec. 8	Dec. 8			B 2				
S3543	16	87	-	Dec. 8	Dec. 8	A 1						
S3544	5-7	70-75	Dec. 11	Dec. 8	Dec. 15	A 1 C 9 B 7	C 6	-	-	-	A 1	
S3545	14-17	39-44	Dec. 13	Dec. 8	Dec. 16	J 2 J 5 C 4 C 7	-	-	-	C 6	A 2	
S3546	12	111	-	Dec. 9	Dec. 9			A 2				
S3547	12-15	68-77	Dec. 11	Dec. 9	Dec. 16	B 5 D11	D17	-	-	-	G 4	J 2
S3548	8-9	64-66	Dec. 11	Dec. 9	Dec. 11	A 2 A 1	B 4					
S3549	10	106	-	Dec. 10	Dec. 10				A 1			
S3550	29	71-74	-	Dec. 10	Dec. 10		B 2					
S3551	33	14	-	Dec. 11	Dec. 11	A 2						
S3552	12	42	-	Dec. 15	Dec. 15				A 1			
S3553	15-18	349-352	Dec. 17	Dec. 15	Dec. 18	J 4 C 8	C10	C 5				
S3554	7-10	325-333	Dec. 18	Dec. 15	Dec. 22	D 6 D 8 D 7	D13	D 9	-	-	J 2	
S3555	15-20	285-294	Dec. 21	Dec. 15	Dec. 26	J 2 J 3 J 4 J 5 D 7	-	-	C 6	-	-	C 4 J 2
S3556	10	338	-	Dec. 16	Dec. 16	A 1						
S3557	5-7	263-269	Dec. 23	Dec. 17	Dec. 26	C 3 D 9 D 8	-	-	D15	-	-	C 8 J 5
S3558	13	292	-	Dec. 18	Dec. 18	A 1						
S3559	15-17	270-277	Dec. 23	Dec. 22	Dec. 25		D 8	-	-	C 6		
S3560	22-25	193-201	Dec. 28	Dec. 22	Jan. 1	J 2 - - H 4 H10	-	-	C19	C11	C 6	J 4
S3561	20-23	244-249	Dec. 25	Dec. 25	Dec. 26			C 4	J 3			
S3562	15	208-212	-	Dec. 25	Dec. 26	B 4 B 3						
S3563	28-30	181-183	Dec. 30	Dec. 25	Jan. 5	H 3 H 4 - - J 5	J 3	J 3	J 2	-	-	J 2 J 2
S3564	5-13	168-185	Dec. 30	Dec. 25	Jan. 5	C18 W27 - - W47	W44	W36	W27	-	-	J 2 A 1
S3565	31-32	180-183	Dec. 30	Dec. 29	Jan. 1		B 2	A 2	A 3	A 1		
S3566	3	181	Dec. 30	Dec. 29	Dec. 31		A 1	A 2	A 1			
S3567	7-10	148-155	Jan. 1	Dec. 29	Jan. 1	D 6 D 8	C11	C 9				