

TABLE OF SUNSPOT GROUPS

JANUARY 1988

Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
Group NO.	Latitude Longitude						
N5122	27-29 123-134	Jan. 10	Jan. 6	Jan. 14	C 6 D14 D17 D 9	D13	- D12 D11 D10
N5123	20-24 146-153	-	Jan. 10	Jan. 14			D 7 - D11 D 5 C 3
N5124	15-16 147-152	-	Jan. 13	Jan. 14			J 2 D 7
N5125	18-20 44-47	Jan. 17	Jan. 16	Jan. 17		B 4 A 3	
N5126	19-22 318-327	-	Jan. 27	Jan. 29			D 9 D16 C 8
N5127	16-17 215-223	Jan. 31	Jan. 29	Feb. 4		A 2 D 7	D12 D10 - D 4
N5128	16-17 171-174	Feb. 3	Jan. 29	Feb. 9	J 3 D 4 D 4 D 4	-	D 4 - J 3 J 2 J 2 J 2
N5129	19-20 153-158	Feb. 5	Jan. 30	Feb. 10	J 2 J 2 C 8 C 5 -	C10	- C 5 C 3 J 2 J 2 J 2 J 2
N5130	15 155	-	Jan. 31	Feb. 1	A 1 A 1		
S4658	9-11 255-256	Jan. 1	Jan. 1	Jan. 2		A 2	A 1
S4659	18 194	-	Jan. 2	Jan. 2	J 2		
S4660	22-25 179-185	Jan. 6	Jan. 6	Jan. 10		D 5	C 4 C11 D 7 C 7
S4661	23-26 111-121	Jan. 11	Jan. 7	Jan. 16	J 2 D 9 D 6 D 7	-	J 4 J 3 J 5 - D 5
S4662	20-24 124-127	-	Jan. 12	Jan. 12			B 3
S4663	33-39 22-39	Jan. 18	Jan. 13	Jan. 24	B 5 C10 - E21 E18	E15	F15 F10 - J 2
S4664	17-21 3-15	Jan. 19	Jan. 13	Jan. 26	J 2 J 3 - C11 D16 E18	E22	E22 - - E17 E12 C 9 C 4
S4665	32 112	-	Jan. 16	Jan. 16			A 1
S4666	28-32 42-346	Jan. 22	Jan. 18	Jan. 28	J 2 D 4 D 9 -	-	C 7 J 3 J 2 C 3 J 2 A 1
S4667	29-30 260-266	Jan. 28	Jan. 26	Jan. 31		C 5 D 8	D 9 C 5 J 2 B 2
S4668	27 247	-	Jan. 27	Jan. 27		A 1	
S4669	31 246	-	Jan. 28	Jan. 28		A 1	
S4670	15 297-300	-	Jan. 29	Jan. 29			C 3
S4671	24 257	-	Jan. 30	Jan. 30			A 1
S4672	26 244	-	Jan. 31	Jan. 31			A 1

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FEBRUARY 1988

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
	Latitude	Longitude						
N5131	25-26	129-136	Feb. 6	Feb. 2	Feb. 10	J 3 - J 2 -	C 5	C 5 D12 D 9 C 3
N5132	17-22	316-330	Feb. 19	Feb. 13	Feb. 25	J 2 H 2 G 4 G 5 - G10	G 7	G 6 G 8 C 6 - - H 2
N5133	37	344	-	Feb. 19	Feb. 20			J 2 J 2
N5134	24	315	-	Feb. 21	Feb. 21			A 1
N5135	19	153-158	-	Feb. 28	Feb. 28	C 3		
N5136	15-18	138-145	Mar. 4	Feb. 28	Mar. 10	D 8 D 8 - - D19	D22	- D19 - D12 D 5 J 2
S4673	22	126	-	Feb. 4	Feb. 4			A 1
S4674	33	18	-	Feb. 10	Feb. 13	A 1 J 2 J 2 J 2		
S4675	14-15	314-323	Feb. 20	Feb. 14	Feb. 21	A 1 C 3 D 4 - D 6 D 7	C 6 B 2	
S4676	8-10	27-31	-	Feb. 19	Feb. 20			D12 D 7
S4677	37	3	-	Feb. 20	Feb. 20			J 2
S4678	20-22	158-166	Mar. 3	Feb. 29	Mar. 9	D10 - -	D11 D10	- D10 - D 8 J 2

TABLE OF SUNSPOT GROUPS

MARCH 1988

Heliographic			C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
Group NO.	Latitude	Longitude						
N5137	21-24	137-143	Mar. 4	Mar. 3	Mar. 9		A 1 D10	- D 8 - D 9 C 4
N5138	26-32	92-100	Mar. 8	Mar. 8	Mar. 11		D13	D20 D18 D14
N5139	18-22	318-323	Mar. 18	Mar. 14	Mar. 24	H 5 H 4 H 6	- -	H19 H18 - - D 9 D 5
N5140	27-28	317-320	-	Mar. 19	Mar. 20			D 5 C 3
N5141	18-20	231-240	Mar. 24	Mar. 19	Mar. 28	A 1 B 3 - -	D13 D11	- - C 5 C 5
N5142	23	247-249	-	Mar. 27	Mar. 28			D 5 J 2
N5143	13-22	150-162	Mar. 30	Mar. 27	Apr. 3	E41 E51	- -	- E48 - E41
S4679	24	101	-	Mar. 3	Mar. 3	A 1		
S4680	33	213	-	Mar. 4	Mar. 4			A 1
S4681	26	3	-	Mar. 14	Mar. 14		A 2	
S4682	20-26	306-323	Mar. 18	Mar. 14	Mar. 24	F30 F28 F30	- -	F39 F35 - - D21 D13
S4683	28-31	347-353	-	Mar. 19	Mar. 20			D13 C13
S4684	32-34	188-198	Mar. 28	Mar. 23	Apr. 3	D 6 C 5 - -	C 9 C11	- - - J 4 - J 2
S4685	19-22	128-137	Apr. 1	Mar. 27	Apr. 6	D 7 D16 - -	- D10	- C 8 - - J 2

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Helicographic		APRIL 1988				E-Side		C.M.		W-Side			
Group NO.	Latitude	Longitude	C.M. Passage	First Obs.	Last Obs.								
N5144	14-13	24-38	Apr. 9	Apr. 3	Apr. 14	J 2	- -	G12	- -	G11	G 9 C 5 - -	- -	J 2
N5145	22-25	32-41	Apr. 8	Apr. 6	Apr. 14				B 2 -	-	D16 D18 D14	- -	A 1
N5146	28	7	-	Apr. 9	Apr. 9				A 1				
N5147	15-17	323-333	Apr. 14	Apr. 9	Apr. 19	C12 E15 E19	- -			D17	C 7 C 9 J 5	-	J 3
N5148	19-20	318-325	-	Apr. 9	Apr. 11	J 2 J 3 C 7							
N5149	19-24	276-287	Apr. 17	Apr. 14	Apr. 23			C20 D35 D32		E31	- E32 E27 E19	-	C 7
N5150	20-23	262-269	Apr. 18	Apr. 14	Apr. 25			C12 D 9 C11 D11		-	C 8 J 5 J 4	-	C 5 J 2 J 2
N5151	21-25	237-244	Apr. 20	Apr. 15	Apr. 24	A 3 C14 D16	-	D25	D22	D13	- ..	A 1	
N5152	18	167	-	Apr. 24	Apr. 24								A 1
S4686	20-22	146-154	-	Apr. 1	Apr. 3						D 7 - D15		J 2
S4687	20	110	-	Apr. 9	Apr. 9								A 1
S4688	30-32	344-352	Apr. 12	Apr. 9	Apr. 19			C 7 C 6 J 3	-	-	J 3 J 3 J 3 J 2	-	A 1
S4689	18-22	327-332	Apr. 13	Apr. 9	Apr. 17	J 2 J 2 J 2	-		-	C 4 J 2 J 2	A 1		
S4690	12-18	312-319	Apr. 14	Apr. 9	Apr. 21	D 5 D 5 D 9	- -		D26	D17 D16 D11	-	D 5 J 3 J 2	
S4691	20-21	321-322	-	Apr. 11	Apr. 11			A 2					
S4692	23-24	281-284	-	Apr. 14	Apr. 16			D 5 C 3 J 2					
S4693	31-34	327-330	-	Apr. 15	Apr. 19						D 9 D 9 C 6	-	J 3
S4694	13-15	236-238	Apr. 21	Apr. 21	Apr. 21				J 7				
S4695	19-20	131-132	Apr. 28	Apr. 23	May 2	J 2 J 2 J 2 J 3	-		J 2	-	J 4 J 2 J 3		
S4696	16-24	102-110	Apr. 30	Apr. 25	May 6	D 9 D16	-	D17	-	D13	C12 C 6	- -	A 1
S4697	25	155	-	Apr. 26	Apr. 26				A 3				
S4698	23	136	Apr. 28	Apr. 28	Apr. 30					A 1	-	A 2	
S4699	19-24	109-116	Apr. 30	Apr. 30	May 6					B 3	D13 D23	- -	C11
S4700	18-20	32-36	-	Apr. 30	May 2	A 1 C 3 C 5							

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MAY 1988

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side						C.M.	W-Side								
	Lati-tude	Longi-tude					
N5153	19	36	-	May 1	May 2	A 1 J 2															
N5154	16-17	125-130	-	May 2	May 2								D 9								
N5155	22-24	3- 17	May 7	May 6	May 9							D 3	-	D12 C 5							
N5156	16	12- 13	-	May 6	May 6							J 3									
N5157	16-17	333-334	May 10	May 6	May 12	J 3 - J 2 J 2						-	-	J 2							
N5158	18-19	5- 9	May 3	May 3	May 12							A 1	D 5	-	-	A 2					
N5159	13-14	357-359	-	May 12	May 12								C 3								
N5160	22-23	275-278	-	May 16	May 18								D 3 C 4 A 1								
N5161	21	257-259	-	May 18	May 19								B 4 A 1								
N5162	24-26	90- 94	May 29	May 28	May 29							B 4	A 1								
N5163	14-15	6- 9	Jun. 4	May 30	Jun. 6	J 2 J 3 - - -						J 3	C 4 A 1								
N5164	16-20	355- 7	Jun. 4	May 30	Jun. 9	C 3 D16 - - -						E40	E30	E27	D13 - G 7						
N5165	23-27	346- 3	Jun. 5	May 30	Jun. 11	J 2 G 4 - - -						G11	G14	G12	G 6	-	G 3	-	H 2		
N5166	37	71	-	May 31	Jun. 4								J 2 - - - A 1								
S4701	28	335	-	May 6	May 8	J 3 - A 2															
S4702	35-37	33- 37	-	May 9	May 9								B 3								
S4703	15-19	319-326	May 11	May 9	May 18	D17 - - -						-	-	C14 - - - D 7 J 3 A 1							
S4704	17-19	276-284	-	May 16	May 19								C 8 D13 D13 D12								
S4705	35-37	250-254	May 17	May 17	May 17							D 5									
S4706	21-26	97-117	May 28	May 24	Jun. 4	F30 - F57 F67						F69	F60	F51	F23	-	-	-	J 3		

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Group NO.	Heliographic		C.M. Passage	JUNE 1933		E-Side	C.M.	W-Side
	Latitude	Longitude		First Obs.	Last Obs.			
N5167	12-14	33-42	-	Jun. 4	Jun. 7			D 9 D10 C 4 J 2
N5169	13-15	350-356	Jun. 5	Jun. 5	Jun. 11		J 4	B 5 B 8 - D14 - C 5
N5169	25-28	335-343	Jun. 6	Jun. 6	Jun. 13		D11	D16 - D16 - J 4 J 3 A 1
N5170	30-32	318-321	-	Jun. 6	Jun. 11			C 3 .. - .. - B 2
N5171	23	278-281	-	Jun. 9	Jun. 9			C 4
N5172	13-15	237-242	Jun. 14	Jun. 9	Jun. 19	J 2 - D 6	J 3 C 3	J 3 J 3 - D 9 - C 3
N5173	10-12	240-246	Jun. 13	Jun. 11	Jun. 19		C 7 D11	C10 D12 D12 - D 9 - D 5
N5174	36-37	144-145	Jun. 21	Jun. 15	Jun. 26	J 2 - C 3 - J 3 -		J 3 - - - J 3
N5175	23	193	Jun. 17	Jun. 17	Jun. 17		J 2	
N5176	33-35	155-162	Jun. 20	Jun. 17	Jun. 26		D 7 - D 5	- - D11 - - - C 5
N5177	13-14	56-57	-	Jun. 26	Jun. 26		J 3	
N5179	11-14	351-	8 Jul. 2	Jun. 28	Jul. 8		D16 - - E33	F40 - F46 - C19 - A 2
N5179	24-26	346-349	Jun. 3	Jun. 28	Jul. 8	J 2 - - J 3 J 3		J 4 - J 3 - J 3
S4707	20-24	323-332	Jun. 7	Jun. 4	Jun. 13		D19 D17 C15	D14 - C10 - C 8 A 1 A 1
S4708	13-18	269-283	Jun. 11	Jun. 5	Jun. 15	D 4 E12 E20 - E42 -	E46	E23 E22 C 6 J 2
S4709	24-28	3-13	-	Jun. 6	Jun. 9			C13 D12 D11
S4710	14-18	145-155	Jun. 20	Jun. 14	Jun. 26	J 2 H 5 - H 8 - H12	-	- D40 - - - E19
S4711	21	99	-	Jun. 19	Jun. 22	J 2 - - J 2		
S4712	25-26	118-122	Jun. 23	Jun. 22	Jun. 26		B 3 -	- - A 2
S4713	24	113	-	Jun. 22	Jun. 22		J 2	
S4714	22-24	82-85	Jun. 26	Jun. 26	Jun. 28		C 4	- D10
S4715	17-18	27-28	Jun. 30	Jun. 26	Jul. 2	J 2 - J 5 -	-	J 3 J 3
S4716	15-24	356- 11	Jul. 2	Jun. 26	Jul. 8	E20 - E46 - - E73	E71	- E67 - E50 - D 8
S4717	25	102	-	Jun. 28	Jun. 28			A 1
S4718	17-20	14-19	Jul. 1	Jun. 28	Jul. 4		D13 - -	D11 C 7 - C 3

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Group NO.	Heliographic		C.M. Passage	JULY 1933		E-Side					C.M.	W-Side							
	Latitude	Longitude		First Obs.	Last Obs.														
N5180	12	10	-	Jul. 2	Jul. 2							A 2							
N5181	23-24	306	-	Jul. 4	Jul. 4														
N5182	20-24	250-261	Jul. 10	Jul. 6	Jul. 13														
N5183	8	256	-	Jul. 6	Jul. 6														
N5184	28-29	304-306	-	Jul. 8	Jul. 8														
N5185	18	235-236	Jul. 11	Jul. 8	Jul. 12														
N5186	20-21	216-217	Jul. 13	Jul. 8	Jul. 10	J 4	-	-	-	J 4	J 3	-	-	-	-	-	A 1		
N5187	20-26	206-211	Jul. 13	Jul. 8	Jul. 13	J 4	-	-	-	D20	D16	-	-	-	-	-	C 6		
N5188	25-27	215-222	Jul. 13	Jul. 12	Jul. 13						D20	D15							
N5189	16-17	215-217	-	Jul. 12	Jul. 12						A 2								
N5190	23-24	94-99	Jul. 22	Jul. 21	Jul. 22						D 3	D10							
N5191	10-12	2-12	Jul. 23	Jul. 22	Aug. 2	A 1	-	-	-	C 5	D 5	-	J 2	J 2	J 2	J 3	J 2		
N5192	11-16	349-358	Jul. 29	Jul. 27	Aug. 2						C 4	-	C10	D21	D23	D24	D24		
N5193	21-32	291-309	Aug. 2	Jul. 27	Aug. 9	D 7	-	F32	F33	F36	F48	F56	-	-	F59	F42	F30	-	E23
N5194	23-25	323-331	Aug. 1	Jul. 29	Aug. 6						C 4	D 3	C 5	C 5	D14	-	-	C 4	J 2
N5195	34	292	-	Jul. 29	Jul. 30	A 1	A 1												
S4719	14-17	158-162	Jul. 17	Jul. 12	Jul. 22	J 2	J 3	-	-	-	-	C 6	J 2	-	J 2	J 2			
S4720	17-25	144-157	Jul. 18	Jul. 12	Jul. 22	H10	D23	-	-	-	-	E69	E57	-	E31	E23			
S4721	17-18	169-175	-	Jul. 13	Jul. 22														
S4722	14-16	143-147	Jul. 18	Jul. 18	Jul. 19														
S4723	20	127	-	Jul. 13	Jul. 18														
S4724	21-22	84-39	Jul. 22	Jul. 18	Jul. 22														
S4725	21-22	132-135	-	Jul. 21	Jul. 22														
S4726	21-22	98-103	-	Jul. 26	Jul. 26														
S4727	16-24	356-5	Jul. 29	Jul. 26	Aug. 2														
S4728	22	76	-	Jul. 27	Jul. 27														
S4729	22	10	-	Jul. 27	Jul. 27														
S4730	23-25	286-291	Aug. 3	Jul. 31	Aug. 6														
						A 2	..	B 3	-	-	-	-	..	J 2					

TABLE OF SUNSPOT GROUPS

AUGUST 1983

Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side							C.M.	W-Side						
Group NO.	Latitude				Longitude														
N5196	20-25	200-208	Aug. 10	Aug. 5	Aug. 15	J 2	C 4	D 9	-	D 27	-	D 22	D 19	D 20	D 14	D 10			
N5197	28-30	195-206	Aug. 10	Aug. 5	Aug. 12	C 6	C 5	C 5	-	C 8	-	B 6	A 1						
N5198	25	207-209	-	Aug. 6	Aug. 9	J 2	J 2	-	A 2										
N5199	20-25	153-161	Aug. 13	Aug. 7	Aug. 20	J 2	-	D 10	-	D 19	D 22	D 29	D 21	D 19	-	-	-	J 2	
N5200	30	170	-	Aug. 9	Aug. 9			J 2											
N5201	13-16	153-165	Aug. 13	Aug. 9	Aug. 15			D 16	-	D 21	D 22	D 18	E 22	D 16					
N5202	22-23	90-97	-	Aug. 13	Aug. 15	D 5	D 6	C 8											
N5203	32-33	159-162	-	Aug. 14	Aug. 15								A 2	C 3					
N5204	22-23	146-149	Aug. 14	Aug. 14	Aug. 15							A 2	B 2						
N5205	12-15	2-11	Aug. 25	Aug. 20	Aug. 31	J 2	D 4	D 4	-	-	D 4	C 4	-	-	-	J 3	J 2		
N5206	19-20	20-29	-	Aug. 25	Aug. 30							D 20	D 13	-	-	-	A 1		
N5207	14	347	-	Aug. 25	Aug. 25						A 1								
N5208	20-22	316-320	-	Aug. 25	Aug. 26	J 2	B 5												
N5209	23	308	-	Aug. 25	Aug. 25	A 1													
N5210	20-21	31-35	-	Aug. 26	Aug. 26											C 5			
N5211	13-24	271-284	Aug. 31	Aug. 26	Sep. 3	J 2	-	-	-	E 29	E 32	E 31	E 34	E 28					
N5212	14-15	11-16	-	Aug. 30	Aug. 30											C 7			
N5213	34	233	-	Aug. 30	Aug. 31	A 1	A 1												
N5214	30	277	-	Aug. 31	Aug. 31						A 1								
S4731	12-15	255-266	Aug. 6	Aug. 5	Aug. 12					C 6	D 13	D 27	-	E 23	-	E 16	C 4		
S4732	18-21	168-175	Aug. 12	Aug. 9	Aug. 15			J 2	-	C 4	J 2	J 2	J 2	J 3					
S4733	19-22	173-174	Aug. 14	Aug. 9	Aug. 20	J 2	-	C 3	C 5	H 3	H 8	H 6	-	-	-	J 2			
S4734	13	197	-	Aug. 14	Aug. 14								A 1						
S4735	15	147	Aug. 14	Aug. 14	Aug. 14						A 1								
S4736	17	136	Aug. 15	Aug. 15	Aug. 15						A 1								
S4737	25	69-71	Aug. 20	Aug. 20	Aug. 21						J 3	A 1							
S4738	23-24	57-60	Aug. 21	Aug. 20	Aug. 21					J 3	C 3								
S4739	19-22	281-290	Aug. 31	Aug. 25	Sep. 3	J 4	J 5	-	-	-	H 19	H 14	H 12	C 10	C 15				
S4740	23-27	278-281	Aug. 31	Aug. 26	Sep. 3	J 2	-	-	-	A 8	A 4		B 5	A 1					
S4741	12-13	265-268	Sep. 1	Aug. 30	Sep. 7					D 5	D 4	D 5	D 6	J 3	-	-	A 1		
S4742	16-23	248-261	Sep. 2	Aug. 30	Sep. 9					E 41	E 41	E 51	E 56	E 52	-	-	F 22	F 14	J 2
S4743	23	273	-	Aug. 31	Aug. 31						A 1								

TABLE OF SUNSPOT GROUPS

SEPTEMBER 1937

Geographic		C.M.	First	Last	E-Side	C.M.	W-Side
Group	Latitude						
N5215	27 205	-	Sep. 1	Sep. 3	A 1 J 2 J 2		
N5216	23 204	-	Sep. 1	Sep. 3	A 1 A 1 A 1		
N5217	22 251	-	Sep. 2	Sep. 2		A 1	
N5218	16-13248-254	-	Sep. 7	Sep. 9			D 5 D 5
N5219	19-19226-232	-	Sep. 7	Sep. 9			D 4 J 2
N5220	19-20206-209	-	Sep. 7	Sep. 9			D 3 C 3 J 2
N5221	31-34150-159	-	Sep. 7	Sep. 9	C 4 . . A 1		
N5222	30-33 93-106	Sep.14	Sep. 9	Sep.12	A 3 J 5 - - J 4 J 7	C 6	- J 7 - - E18
N5223	16 130	-	Sep.12	Sep.14			A 1 J 4 A 2
N5224	13 90	Sep.14	Sep.12	Sep.14	J 3 J 2	J 2	
N5225	16-17256-160	-	Sep.13	Sep.15			D 6 D 6 - J 3
N5226	23 125	-	Sep.14	Sep.14			A 1
N5227	23 52	-	Sep.15	Sep.16	J 2		
N5228	31-33 42-45	-	Sep.16	Sep.16	D 5		
N5229	19-20 28-33	Sep.19	Sep.16	Sep.19	A 1 - -	D11	
N5230	25-29309-320	Sep.25	Sep.19	Oct. 1	A 2 - - C 8 D13 - -	-	E22 - - - - J 2
N5231	19-20 13-22	-	Sep.21	Sep.26			C 5 C 8 - - - A 1
N5232	18-21 8-12	Sep.21	Sep.21	Sep.22		A 4	D10
N5233	31-33350-353	Sep.22	Sep.21	Sep.22		D 7	B 3
N5234	21-23315-319	-	Sep.21	Sep.22	B 3 A 2		
N5235	15 307	-	Sep.21	Sep.21	A 1		
N5236	20-22297-303	Sep.26	Sep.21	Oct. 1	J 2 C 7 - - -	C 9	- - - - A 1
N5237	19-19323-328	Sep.24	Sep.22	Sep.26	A 1 - -	-	D12 - - - -
N5238	21-23309-313	-	Sep.26	Oct. 1			D11 - - - - A 1
N5239	18-23252-263	Sep.29	Sep.26	Oct. 4	D12 - - -	-	E25 - - - E18
N5240	15-18244-256	Sep.30	Sep.26	Oct. 4	J 5 - - -	-	C12 - - - E13
S4744	25 216	-	Sep. 7	Sep. 7			A 1
S4745	18-20143-144	Sep.11	Sep. 7	Sep.16	J 4 J 4 J 3 - -	-	J 5 J 4 J 4 - - J 3
S4746	12-14137-144	-	Sep. 9	Sep. 9	A 1 B 7		
S4747	23-25175-181	-	Sep.12	Sep.12			C 3
S4748	13-20125-132	Sep.12	Sep.12	Sep.16		J 2	D 6 D10 - - A 1
S4749	9-12 57-64	Sep.17	Sep.12	Sep.22	D10 D14 D 9 - -	D10	- - C 9 - - J 2 J 2
S4750	23 102	-	Sep.19	Sep.19			A 2

TABLE OF SUNSPOT GROUPS

Heliographic					NOVEMBER 1988		E-Side		C.M.	W-Side		
Group NO.	Latitude	Longitude	C.M. Passage	First Obs.	Last Obs.							
N5263	22-23	205-208	-	Nov. 1	Nov. 1					B 3		
N5264	15-17	143-148	Nov. 4	Nov. 1	Nov. 7	D 6 - D 7				A 2	-	J 2 J 2
N5265	9-14	101-115	Nov. 7	Nov. 1	Nov. 13	C 4 - E19 E17 - E27				E29	E32 E22 E17	E11 E 9 E 7
N5266	30-32	201-203	-	Nov. 3	Nov. 6						B 2 ..	- C 4
N5267	22	78	-	Nov. 4	Nov. 4	A 1						
N5268	24	176	-	Nov. 6	Nov. 6							A 1
N5269	31-34	158-162	-	Nov. 6	Nov. 9						C 4 C 4 ..	C 3
N5270	20	97-100	Nov. 8	Nov. 6	Nov. 9	C 4 J 2				A 1	A 1	
N5271	19-21	22-26	-	Nov. 10	Nov. 16	D 7 C 3 J 3				..	- ..	D11
N5272	30-34	350-12	Nov. 15	Nov. 10	Nov. 21	F14 F19 F31 F36 -				F38	F39 - -	- F15 G 5
N5273	13	347	-	Nov. 10	Nov. 13	A 1 J 2 J 3 J 2						
N5274	12-13	67-70	-	Nov. 11	Nov. 12						C 3 A 1	
N5275	22	28	-	Nov. 11	Nov. 12	J 2 A 2						
N5276	14	24	-	Nov. 11	Nov. 12	J 2 A 1						
N5277	11-13	357-3	Nov. 15	Nov. 11	Nov. 21	C 4 C 5 D 6 -				J 2	J 2 - -	- J 2 J 2
N5278	23	40	Nov. 12	Nov. 12	Nov. 12					A 1		
N5279	15-16	30-33	Nov. 13	Nov. 12	Nov. 16	C 4				D 8	-	C 3 A 1
N5280	14-16	323-334	Nov. 17	Nov. 12	Nov. 23	J 2 J 3 - J 4 C 4				-	- -	J 6 C 7 D 9 C 5
N5281	24	64	-	Nov. 15	Nov. 15							A 1
N5282	18	331	-	Nov. 15	Nov. 15	A 1						
N5283	25-27	294-299	Nov. 20	Nov. 15	Nov. 26	J 2 J 2 - - -				C 5	J 2 J 3 J 2 - -	J 2
N5284	24-25	26-31	-	Nov. 16	Nov. 16							C 6
N5285	33	347	Nov. 16	Nov. 16	Nov. 16					A 1		
N5286	28-30	332-334	-	Nov. 16	Nov. 16							A 4
N5287	17-23	299-313	Nov. 19	Nov. 16	Nov. 23	D12 - - -				-	E31 E29 E34 F28	
N5288	26-27	285-290	Nov. 21	Nov. 16	Nov. 26	A 4 - - -				B11	D 8 B 7 D10 - -	J 2
N5289	23	290	-	Nov. 21	Nov. 21							A 1
N5290	19-20	258-261	Nov. 23	Nov. 22	Nov. 23	C 4				J 2		
N5291	16-19	192-197	Nov. 28	Nov. 22	Nov. 29	J 2 C 5 - - C 9				C10	C 6 B 3	
N5292	29	163	-	Nov. 26	Nov. 26	A 1						
N5293	21-23	189-195	Nov. 28	Nov. 27	Dec. 3	C 3				C14	D11 C 7 C10 C 8	A 1
N5294	11-15	114-117	Dec. 4	Nov. 28	Dec. 8	J 2 J 2 C 4 C 4 D 7 C 8				-	-	B 5 C 5 A 1

S479710-13331-335	Dec.15	Dec. 9	Dec.19	J 2 - J 2 J 2 - J 5 -	D13 D14 C 4 J 2
S479812-137-9	Dec.12	Dec.11	Dec.12	C 3 A 1	
S4799 19 5	-	Dec.11	Dec.11	A 1	
S480029-32318-335	Dec.15	Dec.11	Dec.22	E19 F17 - F28 -	F30 E27 E26 E18 E18 C13 J 5
S480130-32303-315	Dec.16	Dec.11	Dec.19	C 4 D12 - C12 - J 3	J 2 J 3 J 3
S480213-14 41-45	-	Dec.12	Dec.14		D10 - J 2
S480320-23256-268	Dec.20	Dec.17	Dec.26	D 4 D14 D17 F20	E25 D16 C12 C 5 J 2 A 1
S480433-34298-302	-	Dec.22	Dec.23		C 3 C 5
S480532-35277-284	-	Dec.22	Dec.24		D 7 D 6 J 3
S480617-24151-162	Dec.28	Dec.22	Jan. 4	A 1 D 8 C10 C11 D16 D35 D34	D40 D31 D35 - C17 J 2 A 1
S480714-15150-153	Dec.28	Dec.22	Jan. 3	J 4 J 4 J 2 C 6 C 7 J 6 C 4	C 6 C 6 J 2 - J 2 J 2
S4808 17 248	-	Dec.23	Dec.23		A 1
S4809 13 172	-	Dec.24	Dec.24	A 1	
S481013-14183-192	-	Dec.26	Dec.30		D 7 D 7 J 3 J 3 A 1
S4811 15 180	Dec.26	Dec.26	Dec.26		A 1
S481214-17119-132	Dec.30	Dec.26	Jan. 5	C 5 C13 E16 C25 D22	C27 - D24 D14 D 8 D 5
S481338-41152-161	-	Dec.29	Jan. 3		C 4 D11 C 8 - C 4 C 3
S481417-21103-120	Dec.31	Dec.30	Jan. 7	A 1 B 5	- D19 D20 D22 E25 E14 J 3
S481517-20 89-97	Jan. 2	Dec.31	Jan. 7	A 1 - B 4	C 7 D15 C10 D 9 D11