

TABLE OF SUNSPOT GROUPS

JANUARY 1998

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
	Latitude	Longitude						
N6627	14-15	93-98	-	Jan.16	Jan.19			C 6 C 6 - J 2
N6628	24-25	344-348	-	Jan.20	Jan.22	A 1 C 5 J 2		
N6629	11-12	276-279	-	Jan.25	Jan.26	J 2 C 3		
N6630	26-28	263-266	Jan.29	Jan.25	Feb. 2	D 6 D 6 J 3 B 5	A 4	.. J 2 .. J 2
N6631	13-15	265-271	Jan.29	Jan.25	Jan.30	A 1 D 9 D 8 C11	C 7	C 5
S6402	19-20	135-139	-	Jan.13	Jan.13			C 4
S6403	21-24	118-127	Jan.13	Jan.13	Jan.19		D35	- - D30 D15 - J 4
S6404	16-17	45-48	Jan.19	Jan.13	Jan.21	A 1 - - J 2 B 2 -	A 2	B 3 A 1
S6405	15-16	63-65	Jan.17	Jan.16	Jan.17		C 3	A 1
S6406	41-42	118-123	-	Jan.17	Jan.17			D 6
S6407	14	92	-	Jan.19	Jan.19			J 2
S6408	18-20	338-341	-	Jan.19	Jan.22	A 2 A 1		
S6409	27-30	347-348	-	Jan.22	Jan.22		A 4	
S6410	19-21	346-353	-	Jan.25	Jan.29			D16 D10 D 9 C 3 J 3
S6411	22-23	314-316	Jan.26	Jan.25	Jan.26		C 3	A 1
S6412	32-39	271-288	Jan.28	Jan.25	Feb. 3	E20 F22 F18	F19	F19 C 5 J 4 J 2 J 3 J 3

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Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	MAY 1998		C.M.	W-Side
	Lati-tude	Longi-tude				E-Side			
N6649	31	188	-	May 1	May 1				A 1
N6650	23	41	-	May 6	May 6		J 2		
N6651	19-23	273-287	May 17	May 13	May 23	E15 E21 - E24	E27	-	E20 C18 C10 C 8 A 3
N6652	21	292	May 16	May 16	May 16		A 1		
N6653	28	278-279	-	May 20	May 20				A 2
N6654	22-23	265-266	-	May 22	May 22				A 3
N6655	16-19	205-215	May 23	May 23	May 28		B 8	- - -	D14 C10
N6656	23-26	93-99	May 31	May 27	Jun. 6	H 9 D12 - D10	D12	D12 -	C13 D 8 - A 1
S6457	16-17	41-42	May 8	May 3	May 14	J 2 J 2 J 2 J 2 -	-	J 2 - - -	J 2 J 2
S6458	22	112-114	-	May 6	May 6				A 3
S6459	18-22	342-355	May 12	May 9	May 19	E24 - -	-	E31 E28 - E27 E18 -	J 3
S6460	25-30	279-292	May 17	May 13	May 21	D13 D12 - E23	C23	- C10 A 7 A 2	
S6461	17-18	302-305	-	May 19	May 20				D 4 J 2
S6462	18-21	134-137	-	May 23	May 27	A 1 - - -	C 3		
S6463	22-25	228-230	-	May 27	May 27				C 3
S6464	18-24	39-48	Jun. 4	May 30	Jun. 8	B 3 D12 D18 - D17	D21	- D15 D15 D11	
S6465	21-22	127-132	-	May 31	Jun. 1				C10 C 5
S6466	22	76	-	May 31	May 31				A 2

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JUNE 1998

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side				C.M.	W-Side				
	Lati-tude	Longi-tude													
N6657	28	348-355	Jun. 8	Jun. 3	Jun. 8	J 2	D 5	-	A 2	..	A 5				
N6658	14-16	333-340	-	Jun. 4	Jun. 7	A 1	-	C 6	A 1						
N6659	18-19	46-49	-	Jun. 6	Jun. 6							B 3			
N6660	19-20	18-26	Jun. 6	Jun. 6	Jun. 8						D11	D11	D 6		
N6661	19-20	7- 9	-	Jun.11	Jun.11									A 2	
N6662	22-23	280-282	-	Jun.12	Jun.12										
N6663	32-33	249-253	Jun.16	Jun.12	Jun.20	D 5	-	-	B 4		D 9	D17	D12	-	B 3
N6664	14-19	208-215	Jun.19	Jun.15	Jun.25	C 5	J 3	C12	J 4	-	D16	-	-	C 9	C 4 J 2
N6665	22	261	-	Jun.18	Jun.18									A 1	
N6666	14-16	222-230	-	Jun.20	Jun.23								J 2	-	- B 4
N6667	15-19	79-88	Jun.28	Jun.23	Jul. 4	D 4	D 9	D18	-	-	-	D23	C10	-	C 5 J 2 C 4
N6668	22	186	-	Jun.25	Jun.25									A 2	
N6669	28-29	122-130	-	Jun.29	Jun.29									C 3	
N6670	23	23	-	Jun.29	Jun.30		J 2	J 2							
N6671	26-28	12-18	Jul. 4	Jun.29	Jul. 5	J 3	J 5	-	C 8	J 8	A 4	B 4			
S6467	17-22	350-358	Jun. 8	Jun. 3	Jun.12	H 2	H 3	-	H10	H14	D16	-	-	D11	H 5
S6468	18-19	341-347	-	Jun. 3	Jun. 7	A 1	A 1	-	..	B 3					
S6469	24-25	291-294	-	Jun. 7	Jun.12	A 2	B 2	-	..	B 3					
S6470	26	348	Jun. 8	Jun. 8	Jun. 8						A 1				
S6471	23-24	12-21	-	Jun.11	Jun.12										D10 E15
S6472	24-28	314-320	Jun.11	Jun.11	Jun.12						C 7	D 5			
S6473	20-21	238-240	Jun.17	Jun.11	Jun.18	J 2	J 4	-	-	J 5 J 4	A 2	C 5			
S6474	29	263	Jun.15	Jun.15	Jun.15						A 1				
S6475	27-28	177-178	Jun.21	Jun.16	Jun.25	J 2	J 2	J 2	-	J 2	-	-	J 2	C 3	J 2
S6476	25-26	224-226	Jun.18	Jun.17	Jun.18						A 3	A 1			
S6477	21	137-138	-	Jun.23	Jun.23						A 2				
S6478	22-23	69-72	Jun.29	Jun.25	Jul. 5		J 3	-	-	-	J 3	C 4	-	J 6	J 3 J 2 J 2
S6479	25	55	-	Jun.25	Jun.30	A 3	-	-	-	J 3 A 2					
S6480	23-24	42-52	Jul. 1	Jun.29	Jul. 6								C 8	C 9	D24 D17 D 7
S6481	14-16	38-44	Jul. 1	Jun.29	Jul. 7								J 3	J 2	C 4 J 3 J 2 J 2
S6482	21-25	10-22	Jul. 3	Jun.29	Jul. 7			D14	D14	-	C13	C11	C22	C21	C10 B 4
S6483	24-25	5- 6	-	Jun.29	Jul. 2	J 4	J 3	-	A 1						
S6484	16	93	-	Jun.30	Jun.30									A 1	
S6485	19-21	346-348	Jul. 6	Jun.30	Jul.12	J 2	-	J 2	J 3	J 3 J 3	J 4	J 3	C 4	D10	- J 2 J 2

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JULY 1998

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side					C.M.	W-Side				
	Latitude	Longitude			
N6672	15-17	327-340	Jul. 6	Jul. 2	Jul. 12			G 7 C 8 C13 C10		C12	C10 C11 C 5 - J 2 J 2					
N6673	21	16	-	Jul. 6	Jul. 6						A 1					
N6674	19	307	-	Jul. 6	Jul. 6			A 1								
N6675	22	278	-	Jul. 6	Jul. 8			A 1 J 2 C 4								
N6676	31-32	287-292	-	Jul. 7	Jul. 8			J 2 C 4								
N6677	17-20	213-215	-	Jul. 11	Jul. 15			J 2 J 4 J 4 J 3 C 5								
N6678	14	141	-	Jul. 18	Jul. 18			A 1								
N6679	23-25	103-109	Jul. 24	Jul. 21	Jul. 29			J 2 D 6 D 8	-		C 8 C 8 - - A 2					
N6680	14-16	64-68	Jul. 27	Jul. 22	Jul. 29			J 3 C 5 - C 7 A 3	-		- A 3					
N6681	28-31	49-55	Jul. 28	Jul. 22	Aug. 4			A 1 C 5 - H25 H21 -	-		D22 - C17 - J 5 J 3 J 2					
N6682	25	50	-	Jul. 25	Jul. 25			A 1								
N6683	25-28	79-85	-	Jul. 29	Jul. 31						D11 - C 6					
N6684	18	82-83	-	Jul. 29	Jul. 29						A 2					
N6685	24-25	346-347	Aug. 2	Jul. 29	Aug. 7			J 3 - J 2 -	J 2	J 2 J 2 - - J 3						
N6686	15	304	-	Jul. 31	Aug. 2			A 1 - J 2								
S6486	19-23	211-218	Jul. 16	Jul. 11	Jul. 22			C 8 D15 D20 D18 C15	-	J 4 C 7 C 5 - J 4 J 5						
S6487	9-10	215-216	-	Jul. 12	Jul. 15			C 5 J 2 A 1 A 3								
S6488	26-28	255-256	Jul. 13	Jul. 13	Jul. 13					A 2						
S6489	29	160	-	Jul. 15	Jul. 18			A 1 - .. A 1								
S6490	26-27	194-200	Jul. 17	Jul. 17	Jul. 19					C 8 B 7 A 2						
S6491	19-22	192-200	Jul. 17	Jul. 17	Jul. 23					D11 D12 D11 - D 6 J 3 A 1						
S6492	12-14	175-182	-	Jul. 21	Jul. 23					D11 D15 C 8						
S6493	20	102	-	Jul. 21	Jul. 21			A 1								
S6494	27-29	98-103	-	Jul. 21	Jul. 23			J 2 D 7 C 8								
S6495	20-26	54-64	Jul. 28	Jul. 22	Aug. 3			E12 E16 - E18 E16 -	-	D 9 - H 3 - H 3 A 1						
S6496	29-31	154-157	-	Jul. 23	Jul. 23					B 2						
S6497	27	317	-	Jul. 31	Aug. 3			J 2 - J 2 A 2								

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AUGUST 1998

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
	Latitude	Longitude						
N6687	17-20	358-1	-	Aug. 3	Aug. 4			D 5 C 4
N6688	15-16	322-326		Aug. 4	Aug. 3		B 3	C 9
N6689	13	322-327		Aug. 4	Aug. 4			C 11 - - C 7 B 2
N6690	26-30	337-345		Aug. 7	Aug. 8			C 9 J 4
N6691	17-19	254-259		Aug. 9	Aug. 7	C 3 ..	C 8	C 9
N6692	16	229		Aug. 7	Aug. 7	J 2		
N6693	28-31	205-210		Aug. 12	Aug. 7	H 4 H 5 H 7 H 8 -	- -	- H 9 - H 10 - H 4 J 2
N6694	13-17	190-198		Aug. 13	Aug. 7	J 2 H 4 D 18 E 18 - -	- -	H 23 - H 15 - D 9 D 7 D 7
N6695	24-25	199-203		Aug. 13	Aug. 8	A 1 A 1 .. - -	- -	B 5
N6696	15-16	224-225		Aug. 10	Aug. 10		A 2	
N6697	16-18	184-186		Aug. 14	Aug. 14		A 3	
N6698	26-28	81-85		Aug. 16	Aug. 21	J 2 - J 2 J 2 J 4	C 6	
N6699	18-20	125-129		Aug. 19	Aug. 19		C 7	
N6700	28-32	33-41		Aug. 25	Aug. 19	H 6 H 13 D 15 D 22 D 20	D 22	C 19 - D 16 - - - J 2
N6701	15-17	81-91		Aug. 22	Aug. 20	J 7 D 13	D 12	E 19 E 22 E 17 E 8
N6702	23	30		Aug. 21	Aug. 24	C 3 J 2 A 2 A 1		
N6703	15-22	3-15		Aug. 27	Aug. 22	B 2 D 9 B 5 B 4 B 7	-	D 36 - - - E 28 F 24 C 11
N6704	28	329		Aug. 25	Aug. 26	J 2 J 2		
N6705	22	22		Aug. 26	Aug. 26		A 1	
N6706	16-17	66-69		Aug. 28	Aug. 28			B 3
N6707	19-22	349-356		Aug. 29	Aug. 28		B 5	- - - C 14 C 13 D 7
N6708	29-32	291-292		Sep. 2	Aug. 28	J 2 - - -	C 6	A 3 A 2
S6498	18-25	254-272		Aug. 8	Aug. 3	F 9 F 19 - -	F 43	F 53 F 70 F 64 - - - B 12
S6499	27-31	246-250		Aug. 9	Aug. 9		D 4	B 6
S6500	20-21	176-177		Aug. 15	Aug. 9	J 2 J 2 - - -	J 2	- C 4 - J 3 J 3 J 2 J 2
S6501	22-24	164-166		Aug. 16	Aug. 10	J 2 - - -	C 4	- J 2
S6502	21-22	210-211		Aug. 14	Aug. 14			A 2
S6503	12	180		Aug. 14	Aug. 14		A 1	
S6504	24-26	156-160		Aug. 16	Aug. 16		C 7	- J 2 A 1 A 1
S6505	29-30	101-102		Aug. 20	Aug. 16	J 2 - J 3 J 2	J 3	J 2 J 2 J 2 J 2 J 2 J 2
S6506	31-32	90-95		Aug. 21	Aug. 18	A 1 B 2 B 2	A 1	
S6507	21-22	54-55		Aug. 24	Aug. 19	J 3 J 3 J 3 J 3	J 3	J 2 J 3 J 3 - J 2
S6508	24-25	91-97		Aug. 21	Aug. 20		A 2	B 2 A 4 B 2

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Group NO.	Heliographic		C.M. Passage	SEPTEMBER 1998			E-Side	C.M.	W-Side
	Latitude	Longitude		First Obs.	Last Obs.				
N6709	19-22	192-202	Sep. 9	Sep. 3	Sep.11	J 3 C 3 C 9 - - D23	D14	D 8 B 7	
N6710	14-16	191-201	Sep. 9	Sep. 3	Sep.16	A 1 C 3 D 4 - - D 8	D 5	C 4 C 5 J 3 J 3 J 2 - J 2	
N6711	28-29	194-197	Sep.10	Sep. 4	Sep.11	J 2 J 3 - - C 5 C 3	B 2	A 1	
N6712	11-16	196-206	Sep. 9	Sep. 5	Sep.14	J 4 - - D25	E31	E26 C11 C 6 J 4 J 2	
N6713	21-28	149-161	Sep.13	Sep. 8	Sep.16	J 3 D15 C30 E34 E37	E33	E35 - C12	
N6714	10-14	221-228	-	Sep. 9	Sep.14			A 1 B 6 C16 D12 D 6 J 2	
N6715	32	185	-	Sep.11	Sep.11			A 1	
N6716	30-31	21-22	Sep.23	Sep.18	Sep.24	J 2 J 2 J 2 - -	-	J 2	
N6717	17-21	9-16	Sep.24	Sep.18	Sep.24	H 9 H18 H25 - -	D24		
N6718	18-19	120-123	-	Sep.19	Sep.19			B 3	
N6719	13-15	82-83	-	Sep.19	Sep.20			A 2 A 3	
N6720	16-18	24-28	Sep.22	Sep.20	Sep.24		C 9 - -	- J 3	
N6721	37	5	-	Sep.20	Sep.20	A 1			
N6722	36-38	356-360	-	Sep.24	Sep.24		D 9		
S6509	19-24	265-282	Sep. 3	Sep. 1	Sep.10		F47 F57	F54 E50 F65 - - E38 E25 C 6	
S6510	29	241	-	Sep. 3	Sep. 3		A 1		
S6511	15-18	188-193	Sep.10	Sep. 5	Sep.16	J 2 - - C13 C11	C 9	C 7 C11 C 5 J 5 - J 2	
S6512	25-27	199-200	Sep. 9	Sep. 8	Sep. 9		C 4	A 1	
S6513	20	169	-	Sep. 8	Sep.11	J 2 A 1 ..	A 1		
S6514	22-24	155-159	Sep.13	Sep. 8	Sep.16	J 2 J 3 J 3 J 3 C 6	C 7	J 2 - J 3	
S6515	21-24	198-208	-	Sep.12	Sep.14			B 7 D 5 A 3	
S6516	20-22	86-95	Sep.18	Sep.13	Sep.20	D 6 D10 - D10 -	D 9	D 8 D 7	
S6517	14	181	-	Sep.16	Sep.16			A 1	
S6518	38-40	58-63	Sep.20	Sep.16	Sep.20	A 1 A 1 A 6 C 7			
S6519	28-30	49-57	Sep.20	Sep.16	Sep.24	C 3 - J 2 D13	D24	- - - C 3	
S6520	15-17	45-53	-	Sep.18	Sep.20	A 2 D 8 C10			
S6521	19-21	360- 7	Sep.24	Sep.20	Sep.24	A 1 - - -	D11		
S6522	29-31	314-321	Sep.28	Sep.24	Oct. 2	D 4 - - -	-	- - - C 4	

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Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	NOVEMBER 1998												
	Latitude	Longitude				E-Side					C.M.	W-Side						
N6737	14-16	182-183	-	Nov. 1	Nov. 1	A 2												
N6738	20-23	123-130	Nov. 9	Nov. 3	Nov. 15	J 3	J 7	C 9	C 9	-	C10	C16	J 7	C10	C 6	J 3	J 3	A 1
N6739	13-15	113-115	Nov. 10	Nov. 4	Nov. 16	J 2	J 2	J 2	-	C 4	J 2	J 2	J 2	J 2	J 2	J 3	J 2	J 2
N6740	20-21	147-150	Nov. 7	Nov. 6	Nov. 8						D 6	-	B 2					
N6741	18-19	167-172	-	Nov. 8	Nov. 9								C 4 A 1					
N6742	16-18	100-107	Nov. 10	Nov. 10	Nov. 11						A 1	B 3						
N6743	19-22	110-120	-	Nov. 12	Nov. 16								C10 D21 D14 C 7 J 2					
N6744	22-23	2- 7	Nov. 18	Nov. 14	Nov. 19	C 3 C 5 B 3 -					A 3	A 1						
N6745	23-24	351-352	Nov. 19	Nov. 14	Nov. 19	J 2	J 2	J 3	-	C 4	A 1							
N6746	26-28	288-294	-	Nov. 24	Nov. 29								A 2 .. B 5 - D10 D14					
N6747	26	258	-	Nov. 24	Nov. 24	J 2												
N6748	16-18	197-204	Nov. 30	Nov. 25	Dec. 1	J 2	C 4	-	C 6	D 6	-	C 4						
N6749	17-21	171-180	Dec. 1	Nov. 25	Dec. 4	D 5	D16	-	D23	E26	-	E25	E30	-	C16			
N6750	19-23	171-178	Dec. 2	Nov. 26	Dec. 4	J 4	-	D12	D14	-	C15	D26	-	C 9				
N6751	28-30	171-178	Dec. 2	Nov. 28	Dec. 2	A 1 A 1 - ..					B 3							
N6752	13-17	130-140	Dec. 5	Nov. 29	Dec. 11	J 2	-	D 9	E14	-	D14	-	-	-	-	J 4	J 4	J 3
S6532	16-18	201-207	-	Nov. 4	Nov. 9							D 4 C 6 D17 - J 2 J 2						
S6533	20-21	193-197	-	Nov. 4	Nov. 6							D12 D10 B 3						
S6534	20	114	-	Nov. 5	Nov. 6	J 2 A 1												
S6535	20-21	108-110	-	Nov. 8	Nov. 9	A 4 A 1												
S6536	10-16	38-51	Nov. 15	Nov. 9	Nov. 19	J 4	J 4	C 7	D13	E16	E13	G19	G16	-	D 9	A 2		
S6537	23-29	27-33	Nov. 16	Nov. 10	Nov. 22	H 4	H 8	H10	H15	D16	D22	D22	-	D19	H12	H10	H 7	H 6
S6538	19-20	4	-	Nov. 13	Nov. 15	J 2 J 4 A 3												
S6539	19	70	-	Nov. 16	Nov. 16								A 1					
S6540	14-16	288-298	Nov. 23	Nov. 18	Nov. 28	J 2	C 4	D15	D20	E21	J 5	J 5	J 4	J 4	-	J 2		
S6541	15-16	32-35	-	Nov. 20	Nov. 20								C 6					
S6542	20-22	236-245	Nov. 27	Nov. 22	Nov. 28	C 3 D 4 D 5 C 8 C10					-	J 3						
S6543	17-18	3- 8	-	Nov. 23	Nov. 23								B 2					
S6544	14-19	204-219	Nov. 29	Nov. 23	Dec. 4	J 2	C 7	F27	F31	-	F41	F33	-	C15	G 8	-	C 5	
S6545	14-17	321-325	-	Nov. 24	Nov. 26								D 6 D11 C 5					
S6546	17	199	-	Nov. 29	Nov. 29								A 2					

