

TABLE OF SUNSPOT GROUPS
JANUARY 2003

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side		C.M.	W-Side	
	Latitude	Longitude								
N7859	11-14	188-191	Jan. 9	Jan. 4	Jan. 9	J 2	- J 5 J 5 A 5	C 7		
N7860	16	236	Jan. 6	Jan. 6	Jan. 6			A 1		
N7861	9	213-216	Jan. 7	Jan. 6	Jan. 7			J 4	B 3	
N7862	8-11	201-210	-	Jan. 11	Jan. 12					C 9 C 5
N7863	14-15	110-114	Jan. 15	Jan. 15	Jan. 20			A 2	- B 2	- - C 5
N7864	7- 8	65-66	Jan. 19	Jan. 15	Jan. 24	J 4	- J 2 -	-	J 3 J 3 J 3	- J 2
N7865	9-12	49-58	Jan. 19	Jan. 15	Jan. 22	J 3	- C11 -	-	B 9 ..	A 1
N7866	14-16	26-30	Jan. 21	Jan. 17	Jan. 22	J 4	- - J10	D12	B 9	
N7867	24-26	97-99	-	Jan. 20	Jan. 20					C 5
N7868	12-14	2- 4	Jan. 23	Jan. 22	Jan. 28			A 5	- J 5	- D 7 - J 5
N7869	5- 7	322-327	-	Jan. 28	Feb. 1					D15 D17 D11 C 8 J 3
N7870	10	264	Jan. 31	Jan. 31	Jan. 31			A 1		
S7669	17-21	291-300	Jan. 1	Jan. 1	Jan. 7			A 1	A 2 - D14	- C11 C 7
S7670	5-11	214-222	Jan. 7	Jan. 4	Jan. 13		D15 - D29	D32	D42 D37 C30 C23 C14	D 4
S7671	20-22	205-216	Jan. 7	Jan. 4	Jan. 12		D 6 - C13	C13	C16 J 7 J 4 J 4	A 3
S7672	4- 6	283-288	-	Jan. 6	Jan. 7					C 6 J 2
S7673	13-17	146-156	Jan. 12	Jan. 7	Jan. 17	J 2	C 9 D40 D40 D36	D36	D34 - E14	- C 3
S7674	10-12	249-250	-	Jan. 8	Jan. 9					A 3 J 2
S7675	12-16	189-195	Jan. 9	Jan. 8	Jan. 13			C12	C 9	B 7 .. D 5 D 4
S7676	23-28	130-135	Jan. 14	Jan. 8	Jan. 20	J 3	C 6 C10 C 6 C 9 C 5	-	C 5 - J 3	- - J 2
S7677	12-17	117-132	Jan. 14	Jan. 8	Jan. 20	C 4	D11 C17 C19 C23 D22	-	C29 - C14	- - J 2
S7678	2	127	-	Jan. 9	Jan. 11		A 1 A 1 J 2			
S7679	13-15	91-104	Jan. 16	Jan. 10	Jan. 22	J 2	G 7 G13 G 5 - G 6	-	G 9 - -	J 2 J 2 J 2
S7680	4- 5	95-99	-	Jan. 20	Jan. 20					B 2
S7681	17-18	41-42	Jan. 20	Jan. 20	Jan. 20			A 1		
S7682	19-22	339-352	Jan. 24	Jan. 20	Jan. 31		A 1 D10 D15 -	E26	- C21 - D 8 C 7 J 2	A 1
S7683	17-19	312-323	Jan. 27	Jan. 21	Jan. 29	J 3	C 6 - C 9 - C13	-	J 3 J 2	
S7684	11-13	62-68	-	Jan. 22	Jan. 24					C 8 - H 9
S7685	5- 7	307-311	Jan. 27	Jan. 22	Feb. 1	J 5	- D 5 - D 6	-	C 4 J 2 J 2 J 2 J 3	
S7686	3- 7	293-299	Jan. 28	Jan. 26	Feb. 3		A 1 -	C 6	D20 D12 D 9 D 7 -	A 1
S7687	5	354-357	-	Jan. 28	Jan. 29					D 4 A 1
S7688	5- 7	338-344	-	Jan. 28	Jan. 31					C 5 C 7 C 4 J 2
S7689	3- 9	222-226	Feb. 3	Jan. 28	Feb. 9	J 2	J 2 J 2 J 2 C 6 -	D11	D14 D 8 D 5 D 4 D 4	J 2
S7690	10	289	Jan. 29	Jan. 29	Jan. 29			A 1		

TABLE OF SUNSPOT GROUPS

FEBRUARY 2003

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side						C.M.	W-Side					
	Lati-tude	Longi-tude								
N7871	10-13	120-130	Feb.10	Feb. 5	Feb.15	A 1	A 1	A 1	..	..	A 2	-	C 9	C 9	D 6	D11
N1872	17-18	114-126	Feb.11	Feb. 5	Feb.15	C 9	C14	D14	C11	C12	C10	-	J 5	C 4	C 4	A 1		
N7873	1- 2	109-116	Feb.11	Feb. 7	Feb.14	J 4	D 5	D12	C 5			-	J 3	J 3	A 1			
N7874	12	118	-	Feb. 8	Feb. 9	A 1	A 1											
N7875	12-13	162-165	-	Feb. 9	Feb.10								A 3	B 2				
N7876	2	128	-	Feb.14	Feb.14											A 1		
N7877	13-14	344-351	Feb.21	Feb.17	Feb.26	D 7	-	J 5	-		C 7	-	-	-	C 3	J 2		
N7878	8- 9	67-73	-	Feb.19	Feb.21										D 6	- C 4		
N7879	15-19	327-337	Feb.22	Feb.19	Feb.28			D 9	-	D37	-	-	-	C11	C 8	C 8 J 2		
N7880	8-13	162-175	Mar. 6	Feb.28	Mar.12	H 2	-	F17	-	-	C29	C19	-	C14	C 9	H 3 H 2 H 2		
S7691	22	252	Feb. 1	Feb. 1	Feb. 1							A 1						
S7692	17	238	-	Feb. 3	Feb. 3								A 1					
S7693	16	220	Feb. 3	Feb. 3	Feb. 3								A 1					
S7694	11-14	152-168	Feb. 8	Feb. 3	Feb.14	E22	E27	E27	C30	E23	C11	C20	C 5	-	D 5	C 5 J 5		
S7695	8-12	184-189	-	Feb. 5	Feb. 5											B 4		
S7696	4- 7	145-152	Feb. 9	Feb. 6	Feb.13			D 7	D 8	C 6	C 4	C10	-	J 4	J 2			
S7697	16-21	123-131	Feb.10	Feb. 6	Feb.13			J 4	B 6	C 5	J 3	C11	-	B10	B 2			
S7698	13	102	Feb.12	Feb. 6	Feb.15	J 2	J 2	J 2	J 2	J 2	-	J 2	J 2	J 2	A 1			
S7699	10-11	70-73	Feb.15	Feb. 9	Feb.15	J 3	J 3	-	J 4	C 3	C 5	C 4						
S7700	27	342	Feb.21	Feb.21	Feb.21											A 1		
S7701	21-22	333-337	-	Feb.21	Feb.21											B 6		
S7702	7- 9	297-300	Feb.25	Feb.25	Mar. 2							C 5	C 5	J 2	A 1	- D 6		
S7703	6- 7	217-221	-	Feb.26	Mar. 2	A 1	A 3	D10	-	C 7								
S7704	17-19	191-193	Mar. 5	Feb.27	Mar. 8	C 5	C 4	-	J 3	-	-	J 6	J 6	-	A 1			

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MARCH 2003

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side					C.M.	W-Side							
	Lati-tude	Longi-tude				.	.	.	.	.		.	.	.	.	.	.
N7881	20-23	154-161	Mar. 7	Mar. 5	Mar.10			D 8	D 6	-	C10	J 4	A 2						
N7882	12	156	-	Mar. 6	Mar. 6				A 2										
N7883	15-19	129-138	Mar. 9	Mar. 8	Mar.13				B 2	A 2	..	B10	C12	C 4					
N7884	3-11	68-82	Mar.13	Mar. 8	Mar.19	H 2	G 9	G12	G13	E15	G18	H18	-	G18	-	H13	H11		
N7885	18	176	-	Mar. 9	Mar. 9									A 1					
N7886	4-	6204-205	-	Mar. 9	Mar.10											A 2	J 2		
N7887	9	139	-	Mar.11	Mar.11									A 1					
N7888	29-34	70-76	Mar.14	Mar.13	Mar.16				J 3	C10	-	B 5							
N7889	4-	5340-341	-	Mar.20	Mar.20				J 3										
N7890	9-14	248-258	Mar.27	Mar.23	Apr. 1	A 2	C 6	-	C15	D32	D29	D28	C17	D 7	C 5				
N7891	5-	8283-290	Mar.25	Mar.24	Mar.31				C 4	-	B 2	A 2	A 2	C 8	C 9	C 3			
N7892	19	345-349	-	Mar.26	Mar.26											C 3			
N7893	1-	8209-218	Mar.30	Mar.26	Apr. 6			D19	D28	D34	D28	D30	C24	C17	-	C12	-	-	A 2
N7894	10-14	170-174	Apr. 3	Mar.28	Apr. 9	J 2	H 5	H 5	H16	C 9	-	H 6	-	-	H 6	J 4	-	J 2	
S7705	12-14	161-174	Mar. 7	Mar. 2	Mar.12	D 7	-	-	C 5	C 6	-	B 5	C13	C15	C 6	D 5			
S7706	24-25	140-143	Mar. 8	Mar. 8	Mar. 8						B 2								
S7707	22-24	123-129	Mar.10	Mar. 8	Mar.11				C11	D18	D11	C 5							
S7708	15-17	174-176	-	Mar. 9	Mar.10									A 6	A 1				
S7709	10-13	80-86	Mar.13	Mar.10	Mar.18			D12	D12	D15	D 9	D 9	-	J 4	-	A 1			
S7710	12	125	-	Mar.11	Mar.11							A 1							
S7711	13-16	55-68	Mar.15	Mar.14	Mar.20					C 9	-	E35	-	E26	E35	E20			
S7712	9-11	305	Mar.23	Mar.18	Mar.23	A 2	J 3	J 2	-	-	A 2								
S7713	11-15	240-248	Mar.28	Mar.23	Apr. 1	C 6	C 6	-	C 8	C 6	C 7	C19	C20	C11	B 6				
S7714	5-	9221-230	Mar.29	Mar.26	Apr. 3				B 2	C 7	C 7	C27	D22	D32	D36	-	E19		
S7715	13	183-187	-	Mar.27	Mar.31	J 3	J 5	D 6	C 6	B 3									
S7716	11-12	162-163	Apr. 3	Mar.29	Apr. 7	J 2	J 2	J 2	J 2	-	J 3	-	-	J 2	J 2				
S7717	10-13	188-196	Apr. 1	Mar.30	Apr. 7				A 1	C 9	C11	-	D30	-	-	D18	D 5		

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APRIL 2003

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
	Latitude	Longitude						
N7895	6-	8163-165	Apr. 3	Apr. 3	Apr. 6		J 6	- - A 2
N7896	1-	2140-142	-	Apr. 3	Apr. 3			C 4
N7897	3- 9	78-84	Apr. 9	Apr. 6	Apr.14		H12	H13 H11 - H11 H 2
N7898	11	47	Apr.12	Apr. 7	Apr.14	J 2 - J 2	A 3 A 1	- J 6 J 4
N7899	11-13	256-259	-	Apr.18	Apr.22	J 3 - - J 4	C 7	
N7900	15-18	333-338	-	Apr.21	Apr.22			C10 C 9
N7901	16-21	281-291	Apr.21	Apr.21	Apr.27		D12	C15 - - - D18 B 7
N7902	18-19	272-275	-	Apr.26	Apr.27			C 5 A 2
N7903	12	228	Apr.26	Apr.26	Apr.26		A 1	
N7904	13-17	197-204	Apr.28	Apr.26	May 3		D21 D19	D18 D17 - D11 D16 C 9
N7905	5- 6	194-199	Apr.28	Apr.26	Apr.28		C 4 ..	A 1
N7906	14-18	163-164	Apr.30	Apr.26	May 6	J 2 C 3 C 3 C 3	-	J 2 J 2 J 2 J 2 J 2 J 2
S7718	4-	6207-210	-	Apr. 1	Apr. 3			D 5 - A 5
S7719	7-	8137-142	-	Apr. 6	Apr.10			D 7 C 5 - J 2 J 3
S7720	11-13	151-156	-	Apr. 9	Apr. 9			D 5
S7721	16-18	66-67	-	Apr. 9	Apr. 9			A 3
S7722	21	106-109	-	Apr.10	Apr.10			B 2
S7723	7-	8356-357	Apr.16	Apr.10	Apr.21	J 2 J 5 - J 2 J 3 -	J 3	J 3 J 5 - - J 2
S7724	19-22	326-330	Apr.18	Apr.13	Apr.18	J 3 J 3 - A 3 A 1	B 4	
S7725	11-16	233-242	Apr.25	Apr.21	May 1	D15 C21 - -	-	C10 C11 C13 C 6 - A 1
S7726	23	323	-	Apr.22	Apr.22			A 1
S7727	6-	7226-233	-	Apr.22	Apr.22			B 4
S7728	9-10	205-208	-	Apr.22	Apr.22	A 4		
S7729	14-18	165-168	Apr.30	Apr.26	May 6	D 5 D 8 D11 D11	-	D 9 D15 D11 D 7 D 5 J 2
S7730	11-17	147-161	May 1	Apr.26	May 6	A 1 D12 D25 D39 -	E54	E59 E59 E57 E41 E31
S7731	18-21	238-243	-	Apr.27	Apr.29			D 8 D10 D 7
S7732	17-18	178-181	-	Apr.27	Apr.28			C 4 A 2
S7733	32-35	143-159	May 1	Apr.27	May 6	C 4 D 6 C 7 -	A 2	.. C 9 C29 F32 F24
S7734	9-11	215-223	-	Apr.28	May 2			A 3 C15 - D 7 B 4

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Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	MAY 2003						C.M.	W-Side					
	Latitude	Longitude				E-Side												
N7907	6-8	83-85	May 7	May 1	May 13	J 2	J 2	J 3	J 3	J 2	J 2	-	-	J 2	J 3	-	J 2	J 2
N7908	1	163	-	May 3	May 3										A 1			
N7909	11	53	-	May 4	May 6	A 1	A 1	A 1										
N7910	19	50	-	May 4	May 6	J 2	J 2	J 3										
N7911	9	50	May 9	May 9	May 9							A 1						
N7912	16-20	335-340	May 14	May 9	May 17	C 5	C 3	-	J 3	C 4		-	-	C 13	A 1			
N7913	8-9	336-341	-	May 16	May 17									C 5	B 3			
N7914	7-9	282-286	-	May 16	May 16			B 5										
N7915	13	211	-	May 23	May 23						A 1							
N7916	10-11	166-170	-	May 23	May 23			B 3										
N7917	16	165	-	May 23	May 23			A 1										
N7918	5-8	82-86	Jun. 3	May 28	Jun. 9	J 2	-	J 2	-	-	D 12	D 12	-	C 3	J 2	-	J 2	J 2
S7735	24-25	105-108	-	May 1	May 1			B 3										
S7736	6	175-178	-	May 3	May 3										B 2			
S7737	8	157	-	May 4	May 4										A 1			
S7738	16	76	-	May 4	May 4					A 2								
S7739	13-18	300-308	May 17	May 12	May 22	D 5	D 5	-	-	J 3	C 7	-	-	-	C 8	B 6		
S7740	9-13	242-250	May 21	May 16	May 23	D 7	D 8	-	-	-	D 17	D 14	C 8					
S7741	6	18-20	-	May 17	May 17													A 2
S7742	24-26	292-300	-	May 21	May 23									D 10	B 8	B 3		
S7743	7-9	193-194	-	May 21	May 23			C 5	J 6	A 3								
S7744	14	190	-	May 22	May 22			A 1										
S7745	13-14	158-160	May 28	May 22	May 28	J 2	J 2	-	J 4	-	-	A 5						
S7746	28-32	150-154	May 28	May 22	Jun. 2	J 2	J 2	-	J 3	-	-	C 7	-	C 12	-	-	A 1	
S7747	4-9	179-186	May 26	May 25	May 30						D 17	-	-	H 32	-	H 32		

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Group NO.	Heliographic		C.M. Passage	JUNE 2003		E-Side	C.M.	W-Side
	Lati-tude	Longi-tude		First Obs.	Last Obs.			
N7919	10-15	17-35	Jun. 7	Jun. 2	Jun.11	D 7 D15 - C25 D41	-	E66 E61 - F44
N7920	2- 5	347-358	Jun.10	Jun. 5	Jun.11	C 4 D 7 - C10 C19	-	E23
N7921	15-16	335-339	-	Jun. 6	Jun. 9	C 4 - B 4 A 1		
N7922	19-21	303-306	-	Jun.11	Jun.11	B 3		
N7923	27-29	238-245	-	Jun.19	Jun.20			C 6 B 3
N7924	17-19	163-173	Jun.24	Jun.19	Jun.29	D10 D15 - - -	-	D13 - D 5 - J 3
N7925	13-15	160-167	-	Jun.25	Jun.30			D22 - C19 - J 3 A 2
N7926	15-16	102-106	Jun.28	Jun.25	Jul. 4	J 3 - J 3	-	J 3 J 3 - J 2 - A 1
N7927	6	83	Jun.30	Jun.25	Jul. 2	J 2 - A 2 - A 1	J 2	- A 2
N7928	9-11	103-108	Jun.28	Jun.27	Jul. 2	A 2	-	C 6 J 5 - A 1
N7929	11-12	64-66	Jul. 1	Jun.27	Jul. 2	J 3 - J 3 J 3	-	A 1
N7930	8-15	27-42	Jul. 3	Jun.27	Jul. 8	J 2 - E22 F29 - E48	-	E51 F48 F38 - F28
N7931	13-15	20-24	-	Jun.30	Jul. 4	A 1 - B 7 - A 2		
N7932	3- 4	5- 7	Jul. 6	Jul.30	Jul. 6	A 1 - B 2 - .. A 2	A 2	
S7748	10-11	70-74	Jun. 4	Jun. 3	Jun. 6		C 8	- C 4 C 5
S7749	17-18	95-100	-	Jun. 6	Jun. 6			B 4
S7750	13-14	57-61	-	Jun. 8	Jun. 8			B 3
S7751	7	2	-	Jun. 8	Jun. 8		A 1	
S7752	12-19	306-317	Jun.13	Jun. 8	Jun.19	H14 E27 - E50 -	-	- - - - J 2
S7753	16-17	353-356	-	Jun.11	Jun.11			B 4
S7754	16-18	330-335	Jun.11	Jun.11	Jun.11		C 9	
S7755	0- 3	210-215	Jun.20	Jun.19	Jun.25		B 5 D16	- - - - A 1
S7756	2- 8	186-194	Jun.22	Jun.19	Jun.25	C31 D32 -	-	- - J 4
S7757	11-12	191-195	-	Jun.20	Jun.20	B 3		
S7758	15-17	82-89	-	Jun.25	Jun.29	C 6 - C 8 - B 4		
S7759	3- 4	121-132	Jun.27	Jun.27	Jul. 2		D 7	- D16 E20 - C 6

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Group	Heliographic		C.M. Passage	JULY 2003		E-Side			C.M.	W-Side		
	Latitude	Longitude		First Obs.	Last Obs.
N7933	3-	7346-356	Jul. 7	Jul. 2	Jul. 8	C 3	-	D21 D17 D21	-	D25		
N7934	19	25	Jul. 4	Jul. 4	Jul. 4				A 1			
N7935	10	256-261	Jul. 14	Jul. 12	Jul. 16			C 4 -	-	B 7 B 4		
N7936	14	237-240	Jul. 15	Jul. 15	Jul. 17				J 4	A 3 C 3		
N7937	14-18	187-206	Jul. 18	Jul. 15	Jul. 25			C29 F34 F47	-	- F34 F41 F23 - F10 B 2		
N7938	19	175	Jul. 20	Jul. 15	Jul. 21	J 2	J 2	J 2 - -	A 1	A 1		
N7939	14-15	170-171	Jul. 20	Jul. 15	Jul. 26	J 2	J 2	J 2 - -	J 2	J 2 J 2 - J 2 J 2 J 2		
N7940	12-15	150-160	Jul. 22	Jul. 20	Jul. 24			C14 C16	D13	- C 4		
N7941	11	68	-	Jul. 24	Jul. 24			A 1				
N7942	10-11	40-41	Jul. 30	Jul. 25	Aug. 5	J 2	J 2	J 2 J 2 -	J 2	J 2 J 2 J 2 J 2 J 2 J 2		
N7943	10	72	-	Jul. 27	Jul. 27				A 2			
N7944	12-17	99-106	-	Jul. 28	Aug. 1					D11 - D10 D 6 A 1		
N7945	5	90	-	Jul. 28	Jul. 28					A 1		
S7760	7-10	289-296	Jul. 11	Jul. 6	Jul. 17	A 1	-	A 4 - -	-	D22 - - C 8 J 3 A 2		
S7761	11-12	22-28	-	Jul. 8	Jul. 8					D13		
S7762	16-17	287-290	-	Jul. 8	Jul. 8			C 4				
S7763	9-10	273-282	Jul. 12	Jul. 8	Jul. 12			D 5 - - -	A 1			
S7764	17-18	298-301	-	Jul. 12	Jul. 16					C 7 - - J 2 A 1		
S7765	8-10	218-226	Jul. 16	Jul. 12	Jul. 21			C 3 - - C11	C 7	J 3 - - J 3 A 1		
S7766	9-12	190-201	Jul. 18	Jul. 15	Jul. 25			C 4 C 9 D19	-	- E46 D40 E44 - E15 C 7		
S7767	2- 3	134-140	Jul. 23	Jul. 17	Jul. 28	J 2	-	- J 2 J 2 J 2	-	C 3 C 3 C 3 J 3 J 2		
S7768	7	208-214	-	Jul. 20	Jul. 22					C 3 D 6 C 5		
S7769	19-23	200-210	-	Jul. 20	Jul. 24					C19 D24 D27 - B 6		
S7770	5- 6	177-180	Jul. 20	Jul. 20	Jul. 24				A 4	C 4 C 4 - A 1		
S7771	3- 9	350- 2	Aug. 2	Jul. 28	Aug. 6	C 9	-	D18 D16 E21	C19	C20 C 8 C10 J 2		
S7772	17-19	27-29	Jul. 31	Jul. 31	Aug. 2				A 2	A 4 A 1		

TABLE OF SUNSPOT GROUPPS

OCTOBER 2003

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side					C.M.	W-Side						
	Lat- tude	Longi- tude				.	.	.	.	.		.	.	.	.	.	.	.
N7964	10	268	Oct. 3	Oct. 3	Oct. 3						A 1							
N7965	10	186	-	Oct.10	Oct.10						A 1							
N7966	24	101-107	Oct.15	Oct.10	Oct.18	B 2	J 2	-	-	-	A 2	..	..	B 2				
N7967	20	123-127	-	Oct.15	Oct.17							C 9	D 6	A 1				
N7968	15-19	10-16	-	Oct.17	Oct.20	B 5	C 6	C 7	C 6									
N7969	1-10	352- 2	Oct.23	Oct.18	Oct.30	C 9	H28	H53	-	-	H53	H62	-	H50	H46	-	H18	D 9
N7970	8	39-42	-	Oct.24	Oct.24										B 3			
N7971	4	16	-	Oct.24	Oct.24							A 1						
N7972	14-15	10-14	-	Oct.24	Oct.24							B 2						
N7973	8-16	253-260	Oct.31	Oct.26	Nov. 4	D12	C12	-	C11	C24	C24	D15	C15	-	J 3			
N7974	5-12	282-298	Oct.28	Oct.27	Nov. 4					D25	-	E39	F51	F52	F40	F26	-	H 5
N7975	8	274	-	Oct.27	Oct.27					A 1								
S7810	21-22	285-290	-	Oct. 2	Oct. 4							D 7	C 7	J 2				
S7811	15	292	-	Oct. 3	Oct. 5							A 1	..	J 3				
S7812	22	186	-	Oct. 5	Oct. 5		J 3											
S7813	15	208	Oct. 7	Oct. 7	Oct. 7						A 1							
S7814	13-14	146-150	Oct.12	Oct. 7	Oct.17	J 3	-	-	J 5	J 3	-	-	-	..	C 5	C 3		
S7815	7- 8	89-93	-	Oct.17	Oct.20							A 2	B 7	J 2	A 1			
S7816	11	45	-	Oct.23	Oct.23							A 1						
S7817	0	41-43	-	Oct.23	Oct.23							A 2						
S7818	8- 9	4-8	Oct.23	Oct.23	Oct.23						B 4							
S7819	7	335	-	Oct.23	Oct.24				J 3	A 1								
S7820	11-22	277-295	Oct.29	Oct.24	Nov. 4	E33	-	F75	F96	-	F87	F95	F80	F52	F42	-	H16	
S7821	19-23	318-329	-	Oct.27	Nov. 1							A 3	-	D15	D25	E16	E 7	
S7822	10-11	296-302	Oct.28	Oct.27	Nov. 2					B 5	-	D11	D14	D 9	D 5	B 2		
S7823	3- 6	292-298	Oct.28	Oct.27	Nov. 2					A 2	-	D11	D14	D12	D 8	B 2		
S7824	20-24	241-249	Nov. 1	Oct.29	Nov. 7		C 4	D12	D16	D16	D16	D10	-	D 9	-	J 2	J 2	
S7825	13-14	298-300	-	Oct.30	Oct.30										A 2			
S7826	22	257	-	Oct.30	Oct.30							A 1						
S7827	7- 9	231-237	Nov. 2	Oct.30	Nov. 2		A 1	B 4	B 3	B 3	B 3							
S7828	6	244	-	Oct.31	Oct.31							A 1						

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Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	NOVEMBER 2003						C.M.	W-Side								
	Lati-tude	Longi-tude				E-Side							W-Side								
N7976	6	24-25	-	Nov.13	Nov.15	J 3 A 1															
N7977	2- 7	1- 8	Nov.19	Nov.13	Nov.24	J 2	D12	H18	H18	H19	H21	H19	-	-	D11	D 7	D 5				
N7978	5	79-82	-	Nov.16	Nov.18								J 2 .. C 3								
N7979	17	42-46	Nov.16	Nov.16	Nov.17							D 4	B 2								
N7980	6-13	287-299	Nov.24	Nov.18	Nov.29	H 2	H14	-	-	H30	H39	C34	-	C30	-	D17	H11				
N7981	12	302	Nov.24	Nov.19	Nov.24	J 2 - - J 2 J 2						A 1									
N7982	5- 6	247-252	Nov.28	Nov.26	Nov.28	C 4 -						B 3									
N7983	12-13	194-195	Dec. 2	Nov.26	Dec. 8	J 2	-	J 2	J 2	-	-	J 2	J 2	J 2	-	-	J 2	J 2			
S7829	11	243	Nov. 1	Nov. 1	Nov. 1							A 1									
S7830	6	225	Nov. 2	Nov. 2	Nov. 2							A 1									
S7831	15	223	Nov. 2	Nov. 2	Nov. 2							A 1									
S7832	7	210	-	Nov. 2	Nov. 2	A 2															
S7833	2- 3	168-172	-	Nov.12	Nov.12							D 4									
S7834	15-18	159-167	-	Nov.12	Nov.12							B 2									
S7835	21-22	327-328	Nov.22	Nov.17	Nov.23	A 1 A 1 A 4 - - ..						A 3									
S7836	21-22	299-304	Nov.24	Nov.18	Nov.24	J 2	C 8	-	-	A 8	A 4	A 3									
S7837	15-22	282-295	Nov.25	Nov.19	Nov.29	A 3	-	-	C31	C35	C33	-	C37	-	C26	D20					
S7838	11-13	284-291	Nov.25	Nov.22	Nov.28	B 6 C 9 B 8						-	B 4	-	B 3						
S7839	10-11	233-240	Nov.29	Nov.23	Dec. 3	J 3	J 2	-	C 5	-	C 8	C 7	-	-	J 2	J 2					
S7840	23	318	-	Nov.24	Nov.24							A 2									
S7841	20-25	225-233	Nov.29	Nov.24	Dec. 4	B 3	-	D13	-	D20	D20	-	-	B10	B 5	C 5					
S7842	11-14	254-260	Nov.27	Nov.26	Dec. 3							C12	-	D 9	C 9	-	-	A 1	A 1		
S7843	14	230-232	-	Nov.28	Nov.28							A 2									
S7844	1- 2	175-178	Dec. 3	Nov.28	Dec. 4	A 1 A 4 - - D 8						C 5	A 4								
S7845	14-18	165-173	Dec. 4	Nov.28	Dec.10	J 2	J 4	-	-	C13	C 8	C 4	-	-	C 6	J 3	J 2	J 2			

TABLE OF SUNSPOT GROUPS

DECEMBER 2003

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side					C.M.	W-Side						
	Lat- tude	Longi- tude				.	.	.	.	.		.	.	.	.	.	.	.
N7984	0- 4	8-13	Dec.16	Dec.10	Dec.22	A 1	-	-	J 2	-	D 6	D15	D11	-	-	C 4	J 2	J 2
N7985	16-17	88-92	-	Dec.13	Dec.16											C 5	-	C 5 A 1
N7986	12	40	-	Dec.17	Dec.17												J 2	
N7987	8-11	288-296	Dec.22	Dec.17	Dec.25	J 2	-	-	D22	D20	C17	D13	C16	C 4				
N7988	10	325-328	-	Dec.20	Dec.20								B 2					
N7989	16	293-294	-	Dec.20	Dec.20				A 2									
N7990	8-13	253-269	Dec.24	Dec.20	Dec.30	F18	F23	F31	F45	F45	F32	F41	F22	F18	F16	G 9		
N7991	1- 4	305-309	Dec.21	Dec.21	Dec.23					A 1	..	A 9						
N7992	1	300	-	Dec.22	Dec.22							A 1						
S7846	21	166	-	Dec. 2	Dec. 3				J 2	A 1								
S7847	5- 9	137-145	Dec. 6	Dec. 2	Dec.10	D10	D11	D12	-	-		D16	D 9	C 3	J 2			
S7848	7- 8	173-177	-	Dec. 4	Dec. 4							B 8						
S7849	8-11	6-11	Dec.16	Dec.13	Dec.17				D 4	-	D 6	D10	C 5					
S7850	12	66	-	Dec.16	Dec.16												A 1	
S7851	14-15	26-30	-	Dec.17	Dec.17												C 6	
S7852	7- 8	300-301	Dec.21	Dec.17	Dec.23				J 4	-	-	A 3	A 1	..	A 1			
S7853	15-18	280-287	Dec.23	Dec.17	Dec.23	J 3	-	-	J 3	A 2	A 3	B 4						
S7854	20-23	233-237	-	Dec.21	Dec.24	A 1	J 2	B 3	A 2									
S7855	13	265	Dec.24	Dec.24	Dec.24							A 1						
S7856	8-10	240-243	Dec.26	Dec.24	Dec.30				A 1	C 4	C 9	D 9	C 7	C 4	A 1			
S7857	5	236	Dec.26	Dec.26	Dec.26							A 1						
S7858	18	226	-	Dec.28	Dec.28												A 1	
S7859	17-19	186-191	Dec.30	Dec.30	Jan. 5							A 2	-	A 1	D 7	D12	D 9	J 4