

TABLE OF SUNSPOT GROUPS

Heliographic		JANUARY 2013						
Group NO.	Latitude	Longitude	C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
N8428	14-15	239-340	Jan. 7	Jan. 3	Jan. 12	J 2 J 2 J 2 -	J 2	J 2 J 2 J 2 J 2 J 2
N8429	12-13	230	Jan. 8	Jan. 3	Jan. 9	J 2 J 2 J 2 - J 2	J 2	A 2
N8430	15	327-330	-	Jan. 4	Jan. 5			D 5 J 2
N8431	3-	6220-224	Jan. 9	Jan. 4	Jan. 9	A 2 D 5 -	J 3	
N8432	21	227	-	Jan. 5	Jan. 5	J 2		
N8433	17-20	177-189	Jan. 11	Jan. 7	Jan. 17	C 6 E14 E18 E19	G17	C13 J 7 - J 5 J 4 J 2
N8434	7-	8186-189	Jan. 11	Jan. 7	Jan. 12	C 3 C 4 J 3 J 2	J 2	J 2
N8435	4-11	138-158	Jan. 14	Jan. 8	Jan. 20	J 2 E10 F23 F23 F31 F24	-	F28 F25 F21 F19 F10 G 6
N8436	21-23	126-132	Jan. 16	Jan. 12	Jan. 16	D 5 D 5 - C 3	J 2	
N8437	11-13	61-71	Jan. 20	Jan. 20	Jan. 25		C 6	D12 - - D10 D 6
N8438	12-13	336-340	Jan. 27	Jan. 24	Jan. 27	J 2 D 5 -	B 4	
N8439	27-28	318-319	Jan. 29	Jan. 24	Feb. 3	J 2 J 2 - J 2 J 2	J 2	J 2 J 2 J 2 - J 2
N8440	29-30	18-23	-	Jan. 27	Jan. 29			C 5 C 3 A 1
N8441	10-12	241-243	Feb. 3	Jan. 29	Feb. 9	J 2 J 2 J 3 J 4 -	J 3	- J 2 - J 2 J 2 J 2
S8299	23-24	250-251	Jan. 6	Jan. 1	Jan. 12	J 2 - J 2 J 2 J 2	-	J 2 J 2 J 2 J 2 J 2 J 2
S8300	12-13	289-294	Jan. 3	Jan. 3	Jan. 8		D 9	D 8 D 6 - .. D 4
S8301	12-15	203-208	Jan. 10	Jan. 5	Jan. 16	J 2 - J 2 J 2 J 2	C 4	J 3 J 3 J 4 - J 2 J 2
S8302	27-30	188-199	Jan. 11	Jan. 5	Jan. 15	J 2 - D 6 D 6 G 9 G 7	C 6	J 2 J 3 - J 3
S8303	19-21	205-208	Jan. 10	Jan. 9	Jan. 12		J 3	D 4 J 2 J 2
S8304	11-12	95-96	Jan. 18	Jan. 13	Jan. 24	J 2 - J 3 J 3 J 2	J 2	J 2 J 2 J 2 - - J 2
S8305	27	67	-	Jan. 25	Jan. 25			A 1
S8306	9-11	297-304	Jan. 30	Jan. 27	Feb. 3	D 7 D 6 J 2	J 2	C 3 D 4 - J 2
S8307	23	246	-	Jan. 30	Jan. 31	J 2 J 2		

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Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	MARCH 2013		C.M.	W-Side
	Latitude	Longitude				E-Side			
N8450	22-23	122-123	Mar.12	Mar. 7	Mar.12	J 2 - J 3 - J 2	A 1		
N8451	11-13	119-126	Mar.12	Mar. 9	Mar.17	D 5 - J 3	C 3	- D 8 D 6 D 6 D10	
N8452	18	170	-	Mar.11	Mar.11			A 1	
N8453	8-10	69-77	Mar.15	Mar.11	Mar.22	J 3 J 2 - J 3	J 2	C 4 J 3 - D 4 - C 4 J 2	
N8454	15	75	Mar.15	Mar.11	Mar.15	J 2 J 2 - J 2	J 2		
N8455	3- 6	88-100	Mar.14	Mar.12	Mar.19	D 8 -	E16	E 8 E10 E15 - J 2	
N8456	9-13	52-65	Mar.17	Mar.12	Mar.22	J 2 - J 2 J 3 J 3	J 2	- D 6 - E 6 C 4	
N8457	14-16	105-108	-	Mar.14	Mar.17			C 5 D 5 B 2 A 1	
N8458	13	83	-	Mar.16	Mar.16			J 2	
N8459	8- 9	15-20	-	Mar.22	Mar.25			J 3 D 7 D 8 C 4	
N8460	14-15	254-256	Mar.29	Mar.25	Apr, 3	J 2 J 3 - J 3	-	J 3 - J 5 - J 3	
N8461	10-11	189-193	Apr. 3	Mar.30	Apr. 5	C 4 - J 2 -	D 5	J 2 J 2	
S8313	12-14	261-269	-	Mar. 3	Mar. 7			D 7 D 8 D10 D 8 J 2	
S8314	14-15	186-189	-	Mar. 3	Mar. 5	A 1 A 1 B 2			
S8315	17	180	-	Mar. 3	Mar. 6	A 1 J 2 J 2 J 2			
S8316	18-21	143-154	Mar.10	Mar. 5	Mar.14	A 2 J 4 D11 - J 7	-	C15 E17 - J 3	
S8317	17-21	112-122	-	Mar.15	Mar.19			D 4 D11 D10 - J 2	
S8318	15	88-94	-	Mar.17	Mar.19			C 3 - D 5	
S8319	22-26	36-41	-	Mar.23	Mar.23			D 7	
S8320	12	281-284	-	Mar.25	Mar.26	D 6 C 5			
S8321	6- 7	270-272	Mar.28	Mar.28	Mar.28		C 4		
S8322	9-10	232-233	Mar.31	Mar.30	Apr. 1	J 3	-	J 5	
S8323	20-21	200-205	Apr. 2	Mar.30	Apr. 5	D 5 - C 5	-	D 5 D 8 D 5	
S8324	15-18	156-160	Apr. 5	Mar.30	Apr.12	H 2 - H 7 - H 7 H 7	H 9	- H 4 - H 4 H 3 - J 2	

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Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	APRIL 2013						C.M.	W-Side								
	Latitude	Longitude				E-Side															
N8462	2	186	-	Apr. 1	Apr. 1														J 2		
N8463	8-12	173-182	Apr. 4	Apr. 3	Apr. 10						J 3	D 5	D 6	-	J 4	-	D 9	D 7			
N8464	12-13	128-129	Apr. 8	Apr. 3	Apr. 13	J 2	J 2	J 2	-	D 5	-	D 5	J 2	-	J 2	J 2					
N8465	17-18	180-185	Apr. 4	Apr. 4	Apr. 5							D 4	D 5								
N8466	10	135-138	Apr. 7	Apr. 7	Apr. 7							C 4									
N8467	19-23	102-111	Apr. 9	Apr. 7	Apr. 14							D 9	-	D 20	D 18	-	D 16	D 15	D 14		
N8468	8-12	72-80	Apr. 12	Apr. 7	Apr. 18	C 7	-	D 16	D 13	-	D 19	D 18	D 6	C 3	J 3	-	J 2				
N8469	11-16	318-338	-	Apr. 22	Apr. 26										E 34	-	-	F 19	C 7		
N8470	24-26	269-278	Apr. 24	Apr. 22	Apr. 27							C 6	-	-	J 2	J 2	J 2				
N8471	18	213	Apr. 28	Apr. 25	Apr. 29							J 2	J 2	J 3	J 2						
N8472	8-11	182-197	Apr. 30	Apr. 25	May 6	D 8	D 12	D 14	D 22	D 24	-	E 38	F 28	F 21	-	C 5	A 1				
S8325	14	191	-	Apr. 5	Apr. 5																
S8326	20	119	-	Apr. 7	Apr. 7																
S8327	10	90	-	Apr. 7	Apr. 9																
S8328	17-20	41-50	Apr. 14	Apr. 9	Apr. 19	A 1	D 4	-	D 4	C 4	C 3	J 2	C 7	-	D 9	C 4					
S8329	17-18	54-61	Apr. 13	Apr. 10	Apr. 19							C 5	-	D 12	D 11	D 12	D 7	J 2	-	J 2	J 2
S8330	16-23	357- 4	Apr. 17	Apr. 14	Apr. 22							D 6	D 10	D 16	-	D 17	D 15	-	-	J 3	
S8331	25	336	Apr. 19	Apr. 14	Apr. 19	A 3	J 4	J 3	-	J 3	J 2										
S8332	14	283-288	-	Apr. 25	Apr. 26																
S8333	15-17	215-226	Apr. 28	Apr. 25	May 3							D 5	D 4	D 12	D 12	D 20	-	E 12	J 2	J 2	
S8334	17-18	245-253	-	Apr. 27	May 1																
S8335	15-18	150-157	May 3	Apr. 27	May 9	J 2	J 2	C 3	-	D 10	D 5	D 4	-	D 5	D 5	D 6	D 5	C 3			
S8336	16-20	121-132	May 5	Apr. 29	May 9	J 2	-	E 8	E 10	E 16	-	E 17	D 11	D 11	D 7	H 3					

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Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	MAY 2013							C.M.	W-Side
	Lati-tude	Longi-tude				E-Side								
N8473	14-17	81-90	May 8	May 6	May 12							J 2 C 3	D 7	C 5 - - D 5
N8474	10-13	72-81	May 9	May 5	May 9			D11 D10	D 4 D 5			C 7		
N8475	28	19	May 13	May 9	May 14			A 2 - -	J 3			J 3	J 2	
N8476	20-23	9-17	May 14	May 9	May 17			J 2 - -	C 4 D13			D 9	D 6 D 6 D 5	
N8477	3-7	355-3	May 15	May 12	May 20				D10 D15 D12			D12	D14 C12 C 6 - J 2	
N8478	11-16	329-339	May 17	May 12	May 22			C 7 C14	D21 D13 C 8			-	D 8 - J 4 - J 2	
N8479	9-13	293-300	May 19	May 14	May 22			D 9 D 8	D18 - E12			-	D 8 - D 9	
N8480	17-19	360-2	-	May 16	May 16							-	C 4	
N8481	4-5	217-227	May 25	May 20	May 25			A 1 -	C 5 B 2 A 2			J 2		
N8482	9-12	197-206	May 26	May 22	May 27				C 5 D 8 D11 D13			D13	D 8	
N8483	12	89	-	May 31	May 31				J 2					
S8337	19-20	68-70	May 9	May 5	May 12				J 2 J 2 J 4 J 3			..	J 2 - J 2	
S8338	7-9	134-140	-	May 7	May 9									D 8 D 6 D 9
S8339	28	19	May 12	May 7	May 13			A 2 J 2	A 1 - -			D 7	D 7	
S8340	26-29	331-337	May 17	May 12	May 23			D 8 D10	C 8 C 6 D 9			-	D 4 - C 5 - J 2 J 2	
S8341	16-19	336-343	May 16	May 13	May 18				J 2 D 8 D 8			D10	- D 5	
S8342	8-10	359-3	May 15	May 15	May 20							A 1	D 9 - D 8 - C 8	
S8343	23	324	-	May 15	May 16				A 2 A 2					
S8344	19-21	24-29	-	May 16	May 16									C 5
S8345	11	347	May 16	May 16	May 16							A 2		
S8346	12	334	-	May 18	May 18									A 1
S8347	17-18	226-234	May 24	May 22	May 26				C 5 J 5			B 4	B 4 B 2	
S8348	17-22	206-220	May 25	May 22	May 31				D 9 E16 E20			E21	E16 G 7 - - - J 3	
S8349	8	138	May 31	May 25	May 31			J 2 J 2 J 2	- - -			J 3		
S8350	15	112	-	May 31	May 31				A 1					

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Heliographic		JUNE 2013						
Group NO.	Latitude	Longitude	C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
N8484	10-13	127-133	-	Jun. 3	Jun. 6			D11 D 6 D 6 C 4
N8485	8-11	45-56	Jun. 7	Jun. 5	Jun.11		J 4 D 8 -	D15 D14 D12 D 7
N8486	20	108-111	-	Jun. 6	Jun. 6			C 3
N8487	3- 5	230-236	-	Jun.16	Jun.17	J 2 D 9		
N8488	10-11	250-258	-	Jun.24	Jun.25			D 8 C 3
N8489	17	111	-	Jun.25	Jun.28	A 1 - A 1 J 2		
N8490	20-23	125-133	Jun.28	Jun.28	Jul. 2		A 2	B 5 D 9 D17 D10
S8351	26-30	124-134	-	Jun. 3	Jun. 6			D16 E12 E15 E13
S8352	14	127	-	Jun. 3	Jun. 4			J 3 J 2
S8353	10-12	349-357	-	Jun.16	Jun.17			D 7 J 2
S8354	19-22	252-261	Jun.19	Jun.16	Jun.25	D 6 D17 -	- - - - -	J 4 J 2
S8355	12-13	254-255	-	Jun.16	Jun.17	J 2 J 2		
S8356	17-18	240-241	Jun.20	Jun.16	Jun.24	J 2 J 2 -	- - - -	D 6
S8357	24-27	221-225	Jun.21	Jun.16	Jun.27	J 2 H 6 - - -	- - - -	D 9 D 7 - J 2
S8358	21	203	-	Jun.24	Jun.24			A 1
S8359	15-17	159-161	Jun.26	Jun.24	Jul. 2	J 2 J 3	-	J 2 J 2 J 2 J 2 J 2
S8360	12-18	121-132	Jun.28	Jun.24	Jun.29	J 4 J 4 - D13	D 8	C10
S8361	10-12	141-147	-	Jun.30	Jul. 2			D 4 C 3 J 2

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Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	JULY 2013														
	Latitude	Longitude				E-Side					C.M.	W-Side								
N8491	8	38	-	Jul. 1	Jul. 2	J 2 A 1														
N8492	14-16	331-337	-	Jul.15	Jul.16							D 4 D 4								
N8493	19-23	188-202	Jul.20	Jul.15	Jul.26	C 5	E 9	E10	E12	E15	E17	G19	-	G 5	-	G 4	G 4			
N8494	19-20	84-85	Jul.29	Jul.25	Aug. 4	J 2	J 2	J 2	J 2	J 2	-	J 2	J 2	J 2	J 2	J 2	J 2			
N8495	28-29	86-93	-	Jul.30	Aug. 1							C 6 D 5 C 4								
N8496	13-15	19-22	Aug. 3	Jul.30	Aug. 8	D 5 J 2 J 2 J 2					J 5	J 2	J 3	J 2	J 2	J 2				
N8497	12-13	341-344	Aug. 6	Jul.31	Aug.11	J 2	D 4	C 5	C 5	C 5	J 4	J 2	J 3	J 2	J 2	J 2	A 1			
S8362	13-17	50-58	Jul. 4	Jul. 2	Jul. 9						D 6	-	D 9	-	-	D11	C 6	J 2		
S8363	29-30	57-58	-	Jul. 2	Jul. 2						J 3									
S8364	13-16	9-17	Jul. 7	Jul. 2	Jul.12	A 2	-	D 9	-	-	..	A 1	A 2	C 3	A 2	A 1				
S8365	7-11	1-13	Jun. 8	Jul. 2	Jul.12	J 2	-	E20	-	-	E35	E39	E33	D27	D13	J 3				
S8366	13-17	344-354	Jun. 9	Jul. 4	Jul.12	D 5	-	-	D14	D19	D17	D18	D 6	D 7						
S8367	24-25	344-347	Jun. 9	Jul. 7	Jul. 9						D 4	J 2	A 1							
S8368	15	323	-	Jul. 7	Jul. 7	J 2														
S8369	12-13	251-257	Jun.16	Jul.15	Jul.18						D 9	D 9	D 9	D 4						
S8370	18	221-224	Jun.18	Jul.17	Jul.18						C 3	C 7								
S8371	12-13	271-274	-	Jun.18	Jul.18						C 4									
S8372	12	181	-	Jul.18	Jul.20	J 2 J 2 J 2														
S8373	17	160	-	Jul.19	Jul.19	A 1														
S8374	5-9	154-162	Jul.23	Jul.19	Jul.28	J 2 J 2 D 8					-	D 5	-	D13	D12	C10	D 8			
S8375	19	214	-	Jul.25	Jul.25						J 2									
S8376	5-7	128-133	-	Jul.26	Jul.31						D 5 D 4 D 9					-	D 7	D 4		
S8377	12-15	35-43	Aug. 1	Jul.27	Aug. 6	A 1 J 2					-	C 7	D10	D 5	D10	D10	D 8	J 2	J 2	

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AUGUST 2013

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side					C.M.	W-Side					
	Latitude	Longitude			
N8498	6	358	-	Aug. 1	Aug. 1				J 2								
N8499	7	15-16	-	Aug. 2	Aug. 2					A 2							
N8500	6	9	Aug. 3	Aug. 3	Aug. 3						A 1						
N8501	1-3	244-247	-	Aug. 15	Aug. 15								D 4				
N8502	8	150	-	Aug. 18	Aug. 18				A 1								
N8503	5-7	188-193	-	Aug. 22	Aug. 22												C 4
N8504	4-8	213-218	-	Aug. 22	Aug. 22												J 2
N8505	13-16	163-166	-	Aug. 22	Aug. 22									D 8			
N8506	15	92	Aug. 24	Aug. 22	Aug. 26				J 2	-	-	-	J 2				
N8507	12-15	15-21	Aug. 30	Aug. 27	Aug. 31				C 3	C 4	C 8	C 9	J 3				
N8508	11-12	333-345	Sep. 2	Aug. 27	Sep. 6	J 2	J 2	J 3	J 4	E 9	-	-	-	-	C 8	D 4	
S8378	24-26	334-338	Aug. 6	Aug. 1	Aug. 7	A 1	J 2	J 2	J 2	C 4	D 6	D 7					
S8379	12	82	-	Aug. 2	Aug. 2												A 1
S8380	13	17	-	Aug. 5	Aug. 5								A 1				
S8381	12	322-325	-	Aug. 8	Aug. 10								D 7	D 8	J 2		
S8382	24	255	Aug. 12	Aug. 8	Aug. 12		J 2	J 2	J 2	J 2	J 2						
S8383	20	255	-	Aug. 9	Aug. 9				A 1								
S8384	5-8	214-220	Aug. 15	Aug. 10	Aug. 18	A 1	D 4	D 5	D 9	D 9	D 10	D 8	D 10	J 5			
S8385	19-21	235-246	Aug. 13	Aug. 11	Aug. 18				D 8	D 17	E 23	E 17	E 15	E 9	D 5	J 4	
S8386	16-17	228-231	Aug. 14	Aug. 11	Aug. 15			J 2	J 2	J 2	D 6	J 2					
S8387	15	184	Aug. 18	Aug. 14	Aug. 18	A 2	J 2	A 1	..		A 1						
S8388	11-12	172-181	Aug. 18	Aug. 15	Aug. 22			J 2	J 2	J 2	..	-	-	-	D 7		
S8389	7-8	154-156	-	Aug. 16	Aug. 17			J 2	C 3								
S8390	6-7	140-141	Aug. 21	Aug. 16	Aug. 27	J 2	J 2	-	-	-	J 2	J 2	-	-	-	J 2	J 2
S8391	12-13	193-197	-	Aug. 18	Aug. 18							D 6					
S8392	5	166-176	-	Aug. 22	Aug. 22												C 4
S8393	16-19	97-101	-	Aug. 22	Aug. 22					D 8							
S8394	8-11	11-14	Aug. 31	Aug. 26	Aug. 31	J 2	J 5	H 8	H 8	H 10	H 9						

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SEPTEMBER 2013

Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side					C.M.	W-Side							
Group NO.	Latitude				Longitude	.	.	.	.		.	.	.	.	.	.	.
N8509	15	308	-	Sep. 4	Sep. 4									A 1				
N8510	4-	5260-263	-	Sep. 12	Sep. 12									C 3				
N8511	1-	2127-131	Sep. 18	Sep. 18	Sep. 21					D 6	D10	J 2	J 2					
N8512	7-10	25-35	Sep. 25	Sep. 20	Oct. 1	C 3	D 8	-	D 4	D 8	D13	-	D13	D 8	D 5	-	J 2	
N8513	19-21	74-82	Sep. 22	Sep. 21	Sep. 28					D10	-	D 9	C 4	J 3	-	..	B 2	
N8514	23	345	-	Sep. 25	Sep. 25									A 1				
N8515	5	291	-	Sep. 28	Oct. 2	J 2	J 2	-	J 2	J 2								
S8395	14-17	348-355	-	Sep. 5	Sep. 6												D 9	D 6
S8396	3	225	-	Sep. 6	Sep. 9	J 2	-	-	J 2									
S8397	11	251-254	-	Sep. 10	Sep. 13							J 2	C 3	..	J 2			
S8398	11	216-219	Sep. 11	Sep. 11	Sep. 11					D 4								
S8399	3	144	Sep. 17	Sep. 12	Sep. 20	J 2	J 2	J 2	J 2	-	J 2	J 2	J 2	J 2				
S8400	17	75	-	Sep. 18	Sep. 19									A 1	A 1			
S8401	16-18	55-61	Sep. 23	Sep. 18	Sep. 29	J 2	J 2	C 3	J 2	-	J 2	J 2	J 2	-	J 2	J 2	J 2	
S8402	9	75	-	Sep. 20	Sep. 20									A 1				
S8403	20	80	-	Sep. 23	Sep. 23									J 2				
S8404	14	71	-	Sep. 23	Sep. 23									A 1				
S8405	18	359	-	Sep. 23	Sep. 23									A 1				

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OCTOBER 2013

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side				C.M.	W-Side				
	Lati- tude	Longi- tude			
N8516	10-12	347-350	-	Oct. 3	Oct. 3										C 4
N8517	8- 9	223-229	-	Oct. 3	Oct. 7	D 5	-	-	C 3 J 3						
N8518	22-23	177-182	Oct.11	Oct.10	Oct.14				A 2	J 2	J 2	D 8	D 5		
N8519	4	202-203	-	Oct.13	Oct.13										A 3
N8520	19	102	-	Oct.13	Oct.14				A 1 J 2						
N8521	19	78-86	Oct.19	Oct.14	Oct.19	D 5	-	D 4 J 2	-	J 2					
N8522	12	46-51	Oct.21	Oct.16	Oct.21	B 2 D 8	-	J 5	-	D 6					
N8523	5-10	20-33	Oct.22	Oct.17	Oct.28	J 2	-	E 9	-	D21	-	-	E32	-	E16 E16
N8524	17	54	-	Oct.27	Oct.27										A 1
N8525	3	269	Nov. 1	Oct.27	Oct,28	J 2 J 3									
N8526	14-15	305-312	Oct.29	Oct.28	Oct.31				A 1	-	D 8	C 4			
N8527	19-22	221-229	Nov. 4	Oct.31	Nov. 8	B 3 J 2 B 3	-			-	D14	D12	-	C 5	
S8406	10-16	305-311	Oct. 2	Oct. 1	Oct. 6				D14	D16	D12	-	-	C 3	
S8407	5-7	227-229	Oct. 8	Oct. 2	Oct.14	J 2 J 2	-	-	J 2	J 2	-	-	J 2 J 2 J 2 J 2	A 1	
S8408	22-28	247-253	-	Oct. 7	Oct.11						A 3	-	-	C 4 C 3	
S8409	7-10	159-173	Oct.12	Oct. 7	Oct.19	A 1	-	-	C 9 D16	D12	D12	D 8	-	E16 E14	- J 2
S8410	21-22	156-157	Oct.13	Oct.10	Oct.17				J 2 J 2 J 2	J 2	J 2	-	J 2 J 2		
S8411	19-22	140-148	Oct.14	Oct.10	Oct.17	D 6 D 9	D12	D18		C 9	-	J 4 J 4			
S8412	18	196-201	-	Oct.11	Oct.14						C 4	..	D 4 C 3		
S8413	13-15	142-143	Oct,14	Oct.14	Oct.16					A 3	-	J 3			
S8414	17-18	55-64	Oct.21	Oct.16	Oct.24	J 2 J 2	-	J 2	-	J 4	-	-	D 4		
S8415	10-11	74-78	Oct.19	Oct.19	Oct.21					D 7	-	C 5			
S8416	9-12	7-13	Oct.24	Oct.19	Oct.30	J 2	-	H 5	-	H15	-	-	H 5 H 7	-	J 5
S8417	10-12	352-356	Oct.26	Oct.21	Oct.31	D 7	-	-	J 6	-	-	C 5 C 6	-	J 4 J 2	
S8418	20-21	332-333	Oct.27	Oct.27	Nov. 1					A 2	..	-	.. ..	A 1	
S8419	8-11	289-295	Oct.30	Oct.27	Nov. 5				D15 D16	-	D15	D16	D10	J 3	- - A 1
S8420	17-19	263-265	Nov. 1	Oct.27	Nov. 6	J 2 J 2	-	C 6 J 4		C 5	J 5	-	-	J 3 J 3	
S8421	9-14	256-269	Nov. 2	Oct.27	Nov. 6	J 2 D 6	-	E16 G19		D17	D15	-	-	C 5 D 7	
S8422	13-15	303-307	Oct.29	Oct.28	Nov. 2				D 4	-	..	J 2 D 7	J 2		

TABLE OF SUNSPOT GROUPS

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	NOVEMBER 2013		C.M.	W-Side
	Latitude	Longitude				E-Side			
N8528	10-12	67-69	Nov.16	Nov.12	Nov.22	J 2 J 2 J 2 -	J 2	J 2 J 2 J 2 J 2 J 2 J 2	
N8529	4- 8	38-43	Nov.18	Nov.13	Nov.24	H 3 H 5 - H 5 H 4	H 4	H 3 H 3 H 4 H 3 H 2 H 2	
N8530	20	81-83	-	Nov.16	Nov.17			D 4 J 2	
N8531	10	49-52	-	Nov.17	Nov.17			B 3	
N8532	11-12	36-44	-	Nov.20	Nov.24			A 2 C 4 A 2 C 6 B 4	
N8533	13	340	-	Nov.24	Nov.24			A 2	
N8534	18	259	-	Nov.24	Nov.24	A 1			
N8535	1- 32	76-282	-	Nov.29	Dec. 2			J 2 A 1 C 5 B 4	
S8423	17-19	221-228	-	Nov. 5	Nov. 6			D11 C 9	
S8424	6-13	164-176	Nov. 8	Nov. 5	Nov.14	E31 E37 -	E46	- - - E16 E12 E 7	
S8425	17-18	201-207	Nov. 6	Nov. 6	Nov. 8		J 2	- D11	
S8426	5	132	-	Nov. 8	Nov. 8	A 1			
S8427	10-14	97-108	Nov.14	Nov. 8	Nov.20	J 2 - - - D 8 C 8	D13	- D18 D17 E11 E 9 J 6	
S8428	25	116	Nov.13	Nov.12	Nov.14		J 2	J 3 J 2	
S8429	13-24	57-79	Nov.16	Nov.12	Nov.21	F15 F28 F30 -	F32	F28 F21 C 6 D 4 D 4	
S8430	17-20	99106	Nov.13	Nov.13	Nov.19		J 2	D 6 - D12 D11 C 5 B 5	
S8431	22-25	131-135	-	Nov.16	Nov.16			C 4	
S8432	27	96	-	Nov.17	Nov.17			A 1	
S8433	9-11	334-336	Nov.23	Nov.18	Nov.29	J 2 J 2 J 2 C 3 J 2	J 2	J 2 - - J 2 - J 2	
S8434	8-10	271-278	Nov.28	Nov.27	Dec. 1		D 7	- D 9 C 5 J 3	
S8435	24-25	231-240	Dec. 1	Nov.27	Dec. 5	C 4 - D 8 D 7	D 9	D 9 D 5 D 4 C 3	
S8436	14-17	201-207	Dec. 3	Nov.27	Dec. 5	A 1 - D 5 D 7 D12 D14	D11	D 9 D10	
S8437	18-20	202-211	Dec. 3	Nov.29	Dec. 5	D 6 D 7 D 6 D 8	D 5	J 2 J 3	
S8438	10-11	221-226	Dec. 2	Nov.30	Dec. 4		D 5	J 2 J 3	

