

TABLE OF SUNSPOT GROUPS

Group NO.	Heliographic		C.M. Passare	First Obs.	Last Obs.	JANUARY 2012		C.M.	W-Side
	Latitude	Longitude				E-Side			
N8298	10-13	8-16	Jan. 9	Jan. 3	Jan. 14	J 2 - D 7 D 8 - D19	D18	- D11 D 9 D 8 J 7	
N8299	16-19	49-65	Jan. 5	Jan. 5	Jan. 12		D 6	C 7 - D20 E13 - F 8 J 2	
N8300	19-21	68-72	-	Jan. 6	Jan. 8			C10 - J 2	
N8301	20-21	312-313	Jan. 13	Jan. 8	Jan. 14	J 2 J 3 - J 3 J 3	J 4	J 4	
N8302	23-25	287-290	Jan. 15	Jan. 13	Jan. 18		D10 D10	- - D 7 J 6	
N8303	11-13	313-317	-	Jan. 17	Jan. 17			A 1	
N8304	14-20	207-221	Jan. 20	Jan. 17	Jan. 22		E12 E15 E21	- - E25	
N8305	27-30	212-218	Jan. 21	Jan. 17	Jan. 27		H 7 H 8 H11 -	- H11 - - - D12 C 4	
N8306	12-13	201-202	Jan. 22	Jan. 17	Jan. 22	J 2 J 2 J 2 - -	A 1		
N8307	18	223-232	-	Jan. 22	Jan. 22			D 7	
N8308	8- 9	132-133	Jan. 27	Jan. 22	Jan. 31	J 3 - - - J 3	J 4	J 3 J 3 J 3 J 2	
N8309	16-20	59-63	Feb. 1	Jan. 27	Feb. 5	J 2 J 2 J 2 J 2 C 3	-	J 3 C 5 - J 3	
N8310	8-10	59-64	Feb. 1	Jan. 30	Feb. 5		D10 D14	- D13 D 8 - J 2	
S8177	19	277-281	-	Jan. 13	Jan. 14	J 3 D 6			
S8178	13-14	297-298	Jan. 14	Jan. 14	Jan. 14		C 3		
S8179	21-22	309-311	-	Jan. 17	Jan. 18			J 2 C 3	
S8180	17-20	251-253	Jan. 18	Jan. 17	Jan. 19		C 5 D 6	D 4	
S8181	22	225	-	Jan. 17	Jan. 19	J 2 J 2 J 2			
S8182	24-26	94-99	Jan. 29	Jan. 28	Feb. 2		J 2	J 2 A 1 D 6 - D 4	
S8183	14	135-138	-	Jan. 29	Jan. 29			D 4	
S8184	20	87	-	Jan. 29	Jan. 29		A 2		

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FEBRUARY 2012

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
	Latitude	Longitude						
N8311	10	22-24	-	Feb. 8	Feb. 8			D 6
N8312	16	237-241	-	Feb. 10	Feb. 12	A 1 C 3 C 4		
N8313	27-28	197-200	Feb. 18	Feb. 16	Feb. 21		D 4 J 3 J 2	J 2 J 2 A 1
N8314	10-11	195-196	Feb. 18	Feb. 16	Feb. 24		J 2 J 2 J 2	J 2 J 2 J 2 J 2 - J 2
N8315	14-17	173-181	Feb. 20	Feb. 19	Feb. 24		D 4 D12	D16 D13 - D 6
N8316	18	136	-	Feb. 19	Feb. 20	J 2 A 1		
N8317	13	132	-	Feb. 21	Feb. 21		A 2	
N8318	16-17	57-58	Feb. 29	Feb. 24	Mar. 6	J 2 - -	J 2 J 2 J 2	J 3 - J 2 J 2 - J 2
N8319	18	77	Feb. 27	Feb. 27	Feb. 28		J 2 J 2	
N8320	8	50	-	Feb. 27	Feb. 27		J 2	
N8321	11	74-76	-	Feb. 28	Feb. 29			C 3 J 2
S8185	15-20	282-292	Feb. 11	Feb. 10	Feb. 17		D18 D16	D19 - - - J 2 J 2
S8186	22	205	-	Feb. 16	Feb. 16		A 1	
S8187	22-23	259-262	-	Feb. 18	Feb. 18			C 4

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Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	MARCH 2012		C.M.	W-Side
	Latitude	Longitude				E-Side			
N8322	14	38-39	-	Mar. 3	Mar. 4				J 4 J 4
N8323	14-20	294-306	Mar. 9	Mar. 3	Mar. 15	D 8 H 9 - H19 - -	- -	- E31 -	E17 E10 D 6
N8324	18-21	315-319	Mar. 7	Mar. 6	Mar. 13		D 8 -	- -	J 5 - A 1
N8325	12-15	217-226	Mar. 15	Mar. 11	Mar. 16		C 5 - D13 D14	D13 D 7	
N8326	11-15	200-204	Mar. 16	Mar. 11	Mar. 21	J 2 -	D 7 D 9 D 6	D 6 - -	D 7 C 3 J 2
N8327	25	219-228	-	Mar. 19	Mar. 20				J 2 B 2
N8328	18-22	66-69	-	Mar. 24	Mar. 25		D10 C10		
N8329	16	54	-	Mar. 24	Mar. 24	J 2			
N8330	23-24	104-107	-	Mar. 25	Mar. 25			C 3	
N8331	11-13	62-66	Mar. 27	Mar. 26	Mar. 30		D 6	D12 D10	C 7 D11
N8332	13	54	-	Mar. 29	Mar. 29				J 2
N8333	7	49	-	Mar. 30	Mar. 30				J 2
S8188	15-18	317-324	Mar. 7	Mar. 3	Mar. 11		A 2 D-7 - D17	- -	- - J 4
S8189	27-30	13-19	-	Mar. 6	Mar. 6				D 5
S8190	19-20	208-212	Mar. 16	Mar. 11	Mar. 21	D 4 -	D 4 J 2 J 2	J 2 - -	D 7 D 5 J 3
S8191	24-26	214-222	Mar. 15	Mar. 15	Mar. 21			D 5 A 2 - -	D 7 D 5 C 4
S8192	13	73-76	Mar. 26	Mar. 20	Mar. 30	J 2 J 2 - -	J 3 J 2	J 2 J 2	C 4 C 3 J 2
S8193	24-25	152-154	-	Mar. 21	Mar. 21			C 3	
S8194	21-24	18-33	Mar. 29	Mar. 24	Apr. 2	E 7 E 8 G 8 F 9 G 6	F 9	F 9 - -	J 3
S8195	25-26	155-157	-	Mar. 25	Mar. 25				J 3
S8196	24-25	104-107	-	Mar. 27	Mar. 29				C 5 A 1 A 1
S8197	18	343	-	Mar. 28	Mar. 30	A 1 J 2 D 7			
S8198	17-18	41-46	-	Mar. 29	Apr. 2			J 2 B 5 - -	D 4

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APRIL 2012

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side	C.M.	W-Side
	Latitude	Longitude						
N8334	13-16	319-329	Apr. 3	Apr. 2	Apr. 9		D 8	- - D17 D15 C 5 J 2 J 2
N8335	17-18	284-290	Apr. 6	Apr. 2	Apr. 6	J 3 - -	C 5	C 4
N8336	5- 8	204-213	Apr.12	Apr.12	Apr.17			D15 - - D16 - C 5
N8337	7- 8	106-110	-	Apr.15	Apr.15	C 3		
N8338	14-16	103-113	Apr.20	Apr.17	Apr.25		D 7 D12 D15	- D14 - - D 6 C 3
N8339	12	71	-	Apr.17	Apr.19	J 2 J 2 J 3		
N8340	9	172	-	Apr.18	Apr.18			A 1
N8341	12-13	38-43	Apr.25	Apr.24	Apr.28		D 7	C 6 - D10 C 4
N8342	9-11	29-34	Apr.25	Apr.24	Apr.28		A 3	D 9 - D 9 D 7
N8343	11-13	332-333	Apr.30	Apr.25	Apr.28	J 2 - D 6 J 4		
S8199	19	220	-	Apr.12	Apr.12			J 2
S8200	39	206	Apr.12	Apr.12	Apr.12		J 2	
S8201	12	162	-	Apr.12	Apr.12	J 3		
S8202	12-19	89-98	Apr.21	Apr.15	Apr.25	J 2 - D17 D28 D28	- D33	- - D23 D17
S8203	24-27	154-160	-	Apr.18	Apr.21			C 6 D10 - J 2
S8204	23-25	134-144	-	Apr.18	Apr.24			D 6 D10 - D 7 - - J 2
S8205	24-26	107-111	-	Apr.18	Apr.18	B 2		
S8206	11	91	Apr.21	Apr.21	Apr.24		A 1	- - J 2
S8207	15-18	52-58	Apr.24	Apr.21	Apr.28		D12 - - H15	H15 - H11 D10
S8208	17-20	334-340	Apr.30	Apr.25	May 3	J 2 - J 3 D 9	- -	J 3 - J 3
S8209	25-26	328-335	Apr.30	Apr.27	May 4		C 3 .. - -	J 2 - D12 D10
S8210	20-22	272-282	May 4	Apr.28	May 10	J 2 - - D 5 - H 6	H 5	- - D 7 - - J 2

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Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	MAY 2012						C.M.	W-Side							
	Lati-tude	Longi-tude				E-Side							W-Side							
N8344	14	230	-	May 3	May 7	J 2	J 2	-	-	J 2										
N8345	6	222	-	May 3	May 4	J 2	J 2													
N8346	5-13	173-191	May 11	May 7	May 17			F23	-	-	F35	F47	F38	-	G27	-	G 5	J 2		
N8347	14-15	110-111	May 17	May 11	May 21	J 2	J 2	-	C 3	-	J 3	J 2	J 2	J 3	-	J 3				
N8348	13-16	98-105	May 17	May 12	May 23	J 2	-	C 5	-	D14	D 9	D23	D18	-	D10	-	J 2			
N8349	19-12	69-78	May 19	May 14	May 23	J 2	-	D 9	D13	D18	D19	-	D19	-	D13					
N8350	15-16	15-20	May 24	May 18	May 30	J 3	C 4	-	J 3	-	C 3	-	-	J 3	J 3	-	J 2	J 2		
N8351	12	335-341	May 27	May 23	May 29			B 2	-	-	..	D 6	-	C 3						
N8352	21-24	19-22	-	May 26	May 27															
N8353	12-16	207-217	Jun. 5	May 31	Jun. 11	A 1	D11	D10	D12	D14	-	D10	D13	C11	-	J 2	J 2			
S8211	25-27	293-300	May 3	May 1	May 3					D 8	-	J 2								
S8212	18	350	-	May 3	May 4															
S8213	28	289	May 3	May 3	May 3							J 2								
S8214	14-17	284-289	-	May 4	May 7								D12	-	-	J 4				
S8215	16	188	-	May 10	May 10															
S8216	22-23	132-142	May 15	May 10	May 21	D 4	D 5	D 4	-	D 4	-	D 4	D 4	C 3	J 2	-	J 2			
S8217	11-14	167-168	-	May 11	May 11															
S8218	10	91	-	May 14	May 16			J 2	-	J 2										
S8219	23-26	96-102	May 18	May 16	May 23					J 2	..	..	..	-	D 9	-	J 2			
S8220	18-19	58-62	-	May 16	May 16			C 3												
S8221	23	106	-	May 19	May 19															
S8222	9-13	304-312	May 29	May 26	Jun. 3					C 5	D10	-	D15	D15	D 8	D 7	D 4	C 3		
S8223	11-13	277-288	May 31	May 26	Jun. 3	D 7	E11	-	G11	G12	D 9	D 7	D 4	D 4						

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Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	JUNE 2012		C.M.	W-Side
	Latitude	Longitude				E-Side			
N8354	15-17	199-203	Jun. 6	Jun. 1	Jun.10	J 4 J 6 C 9 C 7 -	J 3	J 2 J 2 - A 1	
N8355	8-12	185-192	Jun. 7	Jun. 1	Jun. 8	A 1 J 4 C 4 J 2 - C 6	C 4	C 8	
N8356	9-12	250-253	-	Jun. 3	Jun. 6			A 3 D 6 - J 2	
N8357	13-17	182-191	Jun. 7	Jun. 3	Jun.11	C 3 D 4 - B 7	C 4	C 7 - D13 C 6	
N8358	10-12	75-77	Jun.15	Jun.10	Jun.15	J 4 J 4 - J 6 J 6	J 7		
N8359	16	74	-	Jun.14	Jun.14	A 1			
N8360	15-16	355-360	-	Jun.22	Jun.24			J 4 J 3 B 2	
N8361	15-17	213-221	Jul. 2	Jun.27	Jul. 8	J 2 C 7 D 7 D 6 -	C16	- C11 - - - J 2	
N8362	12	222	-	Jun.29	Jun.29	A 1			
N8363	13-15	205-210	-	Jun.29	Jul. 2	C 4 D10 - C 3			
S8224	12-14	251-254	Jun. 2	Jun. 1	Jun. 3		J 7 C 5	J 2	
S8225	19-21	221-229	Jun. 4	Jun. 1	Jun. 8		D 6 D 5 D10 D11	- D 9 D 8 D10	
S8226	15-18	194-201	Jun. 6	Jun. 1	Jun.11	J 2 J 2 J 3 J 2 -	D10	J 5 C 8 - J 4 J 2	
S8227	17	179	-	Jun. 4	Jun. 4	J 2			
S8228	22-28	103-115	Jun.13	Jun.10	Jun.18	J 3 C 7 -	D12	E27 E25 - E16 D 7	
S8229	22	102	-	Jun.10	Jun.10	A 1			
S8230	8- 9	86-91	Jun.14	Jun.10	Jun.17	D 4 D 7 - D10	D 9	D11 - D 7	
S8231	13-18	82-93	Jun.15	Jun.10	Jun.20	D 7 D11 - E25 E24	E16	- E14 D11 - D12	
S8232	15	103	-	Jun.15	Jun.15			A 1	
S8233	14-17	258-267	Jun.28	Jun.25	Jul. 4	C 3 D11 D21	D17	D17 D 9 - C 3 - J 2	
S8234	13-16	218-223	Jul. 2	Jun.28	Jul. 2	A 4 B 7 D10 -	A 1		
S8235	11-19	200-218	Jul. 3	Jun.28	Jul. 9	D 6 D10 D15 - E32	-	F43 - - - F23 E13	

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Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	JULY 2012					C.M.	W-Side						
	Latitude	Longitude				E-Side												
N8364	18-21	194-199	Jul. 4	Jul. 2	Jul. 4				D 10	-	C 6							
N8365	10	114-124	-	Jul. 8	Jul. 9				D 7	A 2								
N8366	12-14	98-105	-	Jul. 15	Jul. 17									D 5	D 5	B 2		
N8367	17-18	228-229	Jul. 28	Jul. 23	Aug. 3	J 2	-	-	J 4	J 3	J 3	J 2	J 2	C 3	J 2	A 1		
N8368	14-16	307-311	-	Jul. 26	Jul. 28										C 3	D 7	A 1	
N8369	17-19	131-141	Aug. 4	Jul. 30	Aug. 9	C 3	D 7	D 9	D 9	D 8	D 9	C 3	C 3	C 3	J 2	J 2		
S8236	13-15	99-110	Jul. 10	Jul. 8	Jul. 17				C 5	C 9	J 2	J 2	-	-	-	D 5	D 5	B 2
S8237	11-19	77-97	Jul. 12	Jul. 8	Jul. 18	F 27	F 46	F 45	F 41		-	-	-	G 37	C 16	H 10	H 6	
S8238	19-21	94-103	Jul. 11	Jul. 9	Jul. 17				C 4	D 16	D 17	-	-	-	D 13	D 6	D 5	
S8239	25-27	44-52	Jul. 15	Jul. 15	Jul. 19						D 7	D 6	C 6	D 6	D 5			
S8240	14-17	321-323	-	Jul. 16	Jul. 19	J 2	J 2	C 4	B 3									
S8241	20-21	321-324	Jul. 21	Jul. 17	Jul. 23	A 1	J 2	J 2	-	-	-	-	D 6					
S8242	15-17	264-266	Jul. 26	Jul. 23	Jul. 27	J 2	-	-			D 4	J 4						
S8243	10-11	221-222	Jul. 29	Jul. 26	Aug. 4	J 3	J 2	J 2			J 3	J 4	J 2	J 2	J 2	J 2	J 2	
S8244	17-19	211-215	Jul. 30	Jul. 26	Aug. 5	C 4	D 4	C 3	C 4		J 2	C 4	J 2	J 2	J 2	J 2	J 2	
S8245	17-25	167-188	Aug. 1	Jul. 26	Aug. 7	J 3	C 6	F 13	F 17	F 25	F 27	F 18	F 13	F 10	G 9	D 5	J 2	J 2
S8246	27-28	218-225	Jul. 29	Jul. 27	Jul. 31				J 2	D 6	C 5	C 4	A 1					
S8247	16-17	220-221	-	Jul. 31	Jul. 31								A 3					
S8248	20	200	-	Jul. 31	Jul. 31							A 1						

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SEPTEMBER 2012

Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	E-Side		C.M.	W-Side	
	Latitude	Longitude								
N8384	9-11	73-78	Sep. 5	Sep. 3	Sep. 7		C 5 -	D 6	-	A 2
N8385	23-24	17-18	Sep.10	Sep. 5	Sep.15	J 2 -	J 2 - J 2	J 3	-	J 2 J 2 J 2 J 2
N8386	15-18	347-353	Sep.12	Sep. 9	Sep.14		D 5 D 4 -	.. ..		A 1
N8387	17	7	-	Sep.15	Sep.15					J 2
N8388	7-10	175-188	Sep.24	Sep.20	Sep.30	D 7 E 7 E12	-	C14	E 7 D 5 C 4	J 2 - J 2
N8389	8-10	162-170	Sep.25	Sep.22	Oct. 1		A 1 - D10	C 9	D 6 J 2 D 7	- C 5 C 3
N8390	6	155	-	Sep.22	Oct. 1	A 1	- .. ..	.. ..	.. ..	.. .. A 1
N8391	14-18	218-222	-	Sep.25	Sep.26					C 5 C 6
N8392	20-22	160-168	Sep.25	Sep.25	Sep.27			D 5	D 4 J 2	
N8393	17-18	95-103	-	Sep.26	Sep.27	J 3	C 3			
N8394	11-13	184-193	-	Sep.28	Sep.30					C 3 - D 7
N8395	18	178	-	Oct. 1	Oct. 1					J 2
S8267	10-15	65-75	Sep. 6	Sep. 1	Sep.10	C 7 -	D20 - D18	-	D21 -	E11 D 7
S8268	20-22	103-109	-	Sep. 5	Sep. 9				D 7 -	D 6 - J 2
S8269	8-11	42-45	-	Sep. 9	Sep.10				D 7 D 6	
S8270	12	8-11	-	Sep.12	Sep.12				D 5	
S8271	10-12	291-304	Sep.15	Sep.12	Sep.21		E 6 E14 E11	E14	E 9 D 5 C 4	- J 3 J 2
S8272	11-12	273-281	Sep.17	Sep.12	Sep.21	J 2 C 3	C 4 C 4 C 5	J 4	J 2 -	J 2 C 4
S8273	22-24	301-305	-	Sep.17	Sep.21				D 5 J 2	- J 2 C 4
S8274	19-21	170-176	Sep.25	Sep.20	Sep.27	C 3 D 4	D 4 - D 4	D 5	C 3 J 2	
S8275	19	190	Sep.24	Sep.24	Sep.24			A 1		
S8276	8-10	107-109	Sep.30	Sep.25	Oct. 5	J 2 C 3	J 2 C 4 -	J 2	J 2 -	- C 5 J 4
S8277	20	113	-	Sep.26	Sep.26	A 1				
S8278	10-13	83-86	Oct. 2	Sep.26	Oct. 8	J 2 J 2	J 2 - H 2 H 2	-	-	H 5 H 3 - J 2 J 2

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Group NO.	Heliographic		C.M. Passage	First Obs.	Last Obs.	OCTOBER 2012		C.M.	W-Side
	Lati-tude	Longi-tude				E-Side			
N8396	8-12	42	-	Oct. 9	Oct.10				A 3 C 3
N8397	10-16	263-271	Oct.15	Oct.10	Oct.19	D 9 D15 C18 D22 -	C27	D22 - - D 7	
N8398	6- 9	227-237	Oct.18	Oct.12	Oct.22	J 2 D 5 - D13 D11 -	-	J 2 J 2 J 2 J 2	
N8399	23	254-259	Oct.16	Oct.15	Oct.16		C 4 A 1		
N8400	15-18	184-189	Oct.21	Oct.16	Oct.22	J 3 - - J 3 C 6	C 9	D 7	
N8401	5- 9	145-155	Oct.24	Oct.19	Oct.30	D 6 D 8 D10 D13 -	-	C 9 - D 8 - J 5 J 3	
N8402	9-10	129-132	-	Oct.27	Oct.30			C 4 - C 4 A 1	
S8279	22-25	69-74	Oct. 3	Oct. 1	Oct. 5		D 9 - -	J 4 J 3	
S8280	17-19	4-11	Oct. 8	Oct. 4	Oct.13	D 9 D11 - C 3	C10	D 8 D 4 J 3 J 3 J 2	
S8281	11-12	303-304	Oct.12	Oct. 7	Oct.19	J 2 J 2 J 2 J 2 J 2	J 2	J 2 - J 2 J 2 - - A 1	
S8282	29	258	Oct.16	Oct.11	Oct.16	J 2 J 2 J 2 - J 3	J 2		
S8283	26-28	200-202	-	Oct.16	Oct.16	D 6			
S8284	20-21	249-255	-	Oct.19	Oct.21			D 8 D 6 B 4	
S8285	9-13	110-116	Oct.27	Oct.21	Nov. 2	J 2 D11 - - D19 -	H11	- H 7 H 6 J 4 J 2 J 2	
S8286	10-11	86-88	Oct.29	Oct.25	Nov. 4	J 2 - J 2 -	J 2	J 2 J 2 J 2 J 2 J 2 J 2	
S8287	19	14	Nov. 3	Oct.29	Nov. 4	J 2 J 2 J 3 J 3 J 2	J 2	J 2	

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Group NO.	Heliographic		C.M. Passage	DECEMBER 2012		E-Side					C.M.	W-Side							
	Lati-tude	Longi-tude		First Obs.	Last Obs.			
N8418	10-12	236-244	Dec.11	Dec. 8	Dec,17				D 5	-	D 5	D13	D12	D11	D10	-	D 4	J 2	
N8419	17-19	252-258	Dec.10	Dec.10	Dec.14							D 8	D16	D12	D 9	A 1			
N8420	18-20	220-227	Dec.12	Dec.12	Dec.17							J 3	D 8	D11	-	D 8	D 4		
N8421	15-17	229-234	-	Dec.13	Dec.17								C 6	A 1	-	..	J 2		
N8422	9-13	61-67	Dec.24	Dec.19	Dec.29			C 3	C 5	-	-	D20	D19	D19	D15	D12	-	J 2	
N8423	7	347	-	Dec,29	Dec.29														
N8424	13-15	306-309	Jan. 2	Dec.29	Jan. 8				J 2	-	J 2	J 8	-	J 2	J 2	J 2	-	J 2	J 2
N8425	13-14	338-341	Dec.31	Dec.31	Jan. 1							D 5	C 3						
N8426	26-28	315-327	Jan. 1	Dec.31	Jan. 7							D 8	D19	-	E11	E14	E10	-	E 5
N8427	2-3	280-281	Jan. 4	Dec.31	Jan. 7			C 3	D 5	-	J 2	J 2	J 2	-	J 2				
S8295	4-8	105-117	Dec.20	Dec.16	Dec.26				G 7	G 8	-	G11	G14	-	-	G18	G 8	J 4	J 2
S8296	11-12	110-111	Dec.21	Dec.16	Dec.24			J 2	J 2	-	J 2	J 2	-	-	J 3	J 2			
S8297	11-12	96-99	-	Dec.23	Dec.24									C 3	A 1				
S8298	16-17	308-312	-	Dec.29	Jan. 1				D 7	-	J 2	J 2							