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Classification of Solar Prominences for Sunspot Cycle No. 19 – 1956

BY

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Harvard University
Solar Department of Harvard College Observatory
Cambridge 38, Massachusetts

Contract No. AF19(604)-4962
Project No. 7649
Task No. 76490

SCIENTIFIC REPORT NO. 16

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GEOPHYSICS RESEARCH DIRECTORATE
AIR FORCE CAMBRIDGE RESEARCH LABORATORIES
OFFICE OF AEROSPACE RESEARCH
UNITED STATES AIR FORCE
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CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE 19--1956

by Donald H. Menzel and F. Shirley Jones

ABSTRACT

Behavior classifications and measures of position and size for the solar prominences on the surveys made at the Sacramento Peak Observatory, Sunspot, New Mexico, for the year 1956 are tabulated. An analysis of the distribution of the various classes of prominences with solar latitude is then carried out. A similar study for the year 1955 appeared in Scientific Report No. 13 under contract AF19(604)-4962.

The research reported in this paper has been sponsored by the Geophysics Research Directorate of the Air Force Cambridge Research Laboratories, Office of Aerospace Research, under contract AF19(604)-4962.

INTRODUCTION

The observations we used in this research consisted of the complete set of prominence surveys made at the High Altitude Observatory at Sunspot, New Mexico, during the year 1956, and the motion picture films of prominences made on 58 days during the same year at the same observatory.

In Table 1 we list the measures of position and area, the intensity estimates, and the classification according to the Menzel and Evans scheme (1953) , modified by the addition of classes ASa (rain) and ANe (suspended clouds) of all the prominences in the surveys. We give classifications for the prominences in the motion picture studies in Table II.

Column 1 gives the date of the observations. Column 2 indicates the amount of spread, in terms of the position angles marked by the beginning and end of each prominence. A spread of 1° indicates the position only of each of the narrower prominences, some of which are less than 0.5° in width. Column 3 gives the latitude of the center of intensity.

Column 4 indicates the "importance" of the prominence by an assigned letter giving a rough measure of the total intensity, from D- for the most insignificant through A+ for the most impressive prominences. Column 5 records the area of the prominence, expressed in standard prominence units.

Column 6 contains the class. Doubtful classifications are followed by a question mark. Non-spot prominences so adjacent to spot prominences as to suggest association with the spot are noted by asterisks. Column 7 gives additional comments.

Table II gives the classifications for the prominences in the motion picture studies. The columns show date, position angle of the center of the frame, classification, and additional comments.

TABLE I

1956 SACRAMENTO PEAK PROMINENCE SURVEYS

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Jan. 1	350-13	N87	D-	30	BNs's	
	37-39	N54	D	40	ANm	
	58-59	N34	D	35	ASa	
	72-84	N13	C	200	ANd	
	89-97	S1	D-	70	ANd	
	113-117	S23	D	75	ASf	
	116-124	S27	D-	85	ANd*	
	127-136	S41	D	50	ANd	
	140-144	S60	D+	100	ANm	
	198-200	S73	D-	20	BNs	
	219-221	S52	D-	10	BNs,s	
	231-240	S37	C+	290	ASf	
	232-240	S35	C-	185	ANc*	
	244-251	S25	D	135	ANd	
	261-263	S10	D-	10	BNs	
	291-298	N23	D-	40	ANd	
	301-305	N30	D	70	ASf	
	307-321	N47	B	550	ANb,b	
Jan. 2	339-19	N87	D-	30	BNs's	
	36-43	N54	D+	125	ANm	
	59-61	N32	D-	25	ANm	
	65-83	N18	C+	325	ANd	
	86-89	N5	D-	50	?	
	94-101	S5	D	70	ANd	
	104-106	S13	D-	20	ANm	
	116-117	S25	D-	25	ANc	
	123-136	S35	C-	150	ANd	
	140-154	S51	C+	225	ANd	
	165-181	S79	D-	20	BNs's	
	204-205	S67	D-	10	BNs	
	232-243	S36	B-	365	ANd	
	254-284	S7	B	575	ANd	
	295-296	N23	D-	15	ANc	
	312-319	N43	C+	275	ANd	Hedgerow elevated by surge
	316-320	N47	B-	260	BSs	
Jan. 3	32-43	N53	C	235	ANd	
	50-59	N45	D	75	ANd	
	78-81	N15	D-	35	BNs's	
	86-87	N4	D-	5	BNs	
	94-96	S4	D	45	?	
	102-106	S13	D-	15	BNs,s	
	109-116	S21	D	70	ANd?	
(cont.)	139-148	S52	C+	225	ANd	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Jan. 3	165-184	S80	D-	20	BNs's	
(cont.)	218-220	S52	D-	15	BNs	
	227-242	S37	B	480	ANd	Arching streamers
	258-261	S11	D-	40	BNs,s	
	269-272	S1	D+	80	BSs?	
	272-284	N5	C+	350	ANd*	
	282-289	N15	D-	25	BSs's	
	289-295	N21	D+	115	ANd	
	311-319	N45	B	525	ANd	Part ascending
Jan. 4	346-22	N86	D-	45	BNs's	
	23-24	N67	D-	10	BNs	
	29-36	N59	D-	20	BNs's	
	38-45	N50	C-	135	ANd	
	59-65	N28	D	90	ANd	
	73-77	N16	D-	65	?	
	79-84	N10	D-	25	ANd	
	87-89	N3	D	55	ANc	
	102-104	S12	D	70	ASa	
	104-107	S15	D-	20	BSs	
	119-126	S32	D-	15	BNs,s	
	137-142	S47	C	150	BSs	Loop-shaped surge
	140-147	S52	C	200	ANd	
	181-184	S86	D-	10	BNs	
	230-234	S39	D	75	ANd	
	258-259	S12	D-	15	?	
	274-278	N4	D	60	BSs	
	279-282	N10	D-	25	ANe*	
	289-296	N22	D-	50	ASa	
	301-320	N38	C+	380	ANd	
	324-327	N54	D-	25	ANa	
Jan. 5	334-352	N72	D-	25	BNs's	
	354-355	N83	D-	20	ANb	
	1-24	N78	D-	30	BNs's	
	29-34	N59	D-	10	BNs's	
	35-38	N53	D-	25	BSs	
	35-46	N48	C	240	ANb*	Streamers
	48-49	N41	D-	15	BSs	
	55-59	N33	D-	15	ANd	
	69-78	N18	D	100	ASa	
	75-78	N13	D	20	ASl?	
	80-88	N8	D+	130	ANd*	
	99-102	S10	D	65	ANc	
	103-104	S14	D-	5	BNs	
	113-117	S25	D-	45	ANd	
	134-141	S46	D	45	BNs's	
	161-203	S87	D-	40	BNs's	
	211-223	S53	D-	20	BNs	
(cont.)	224-249	S37	C	355	ANd*	Arch

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Jan. 5 (cont.)	237-240	S31	D-	40	BSs	
	248-251	S20	D-	10	BNs.s	
	259-260	S10	D-	20	ASf	
	260-262	S9	D-	15	ASl	
	278-284	N12	D-	30	ANd	
	289-290	N19	D-	10	ANe	
	299-300	N30	D-	5	BNs	
	312-327	N48	C	225	ANd	
Jan. 8	39-75	N28	A	1950	ANd	Arch
	110-111	S22	D-	10	BNs	
	156-206	S86	D-	30	BNs's	
	234-240	S32	D+	125	ANd	
	270-278	N6	C-	170	ANd	
	284-292	N19	D+	160	ASa	
	293-306	N28	D+	90	BSs's	
	308-314	N41	D	60	ANc*	
	321-338	N55	D+	95	ANd	
Jan. 10	34-63	N35	A-	1275	ANd	Poor seeing all day
	71-79	N11	D+	105	ANd	
	91-92	S4	D-	10	BNs	
	115-135	S37	B+	750	ANd	
	191-192	S75	D-	10	BNs	
	212-218	S53	D+	100	ANd	
	221-224	S46	D	45	ANd*	
	224-227	S42	D-	30	ASa	
	249-251	S18	D	75	BSs	
	250-270	S12	C+	450	BSs's	
	284-295	N22	D	70	ANd	
	303-307	N38	D-	45	ANa	
	322-324	N54	D-	25	ANc	
Jan. 11	341-358	N82	D-	35	BNs's	
	40-65	N37	B	525	ANd	Streamer
	71-79	N11	D-	55	ANd*	
	80-82	N6	D-	40	ASf	
	88-90	S2	D-	35	ANc	
	97-108	S15	D+	155	BSs?	
	115-135	S37	B+	725	ANd	
	171-202	S81	D-	20	BNs's	
	212-219	S51	C-	135	ANd	
	225-231	S40	D-	15	BNs's	
	237-241	S29	D-	40	ASa	
	248-262	S13	C	280	ANa	
	285-289	N20	D+	115	ANd	
	292-307	N33	D+	120	ANd	
	319-323	N54	D	65	ANd?	
	331-338	N67	D-	15	BNs's	
Jan. 12	338-16	N56	D-	20	BNs's	
	47-60	N32	C-	175	ANd*	
	56-57	N29	D-	25	BSs	
	59-64	N24	D	45	ASa	
(cont.)	66-67	N19	D-	30	ANc*	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Jan. 12 (cont.)	85-95	S4	C	195	ANd	
	96-106	S14	D-	25	BNs's	
	110-134	S37	A-	1050	ANd	
	170-192	S85	D-	15	BNs's	
	213-220	S50	D+	115	ANd	
	232-233	S33	D-	10	?	
	237-243	S26	D	65	ANd*	
	239-241	S26	D-	20	ASa	
	243-246	S21	D-	30	ANm*	
	255-258	S10	D-	25	ANd	
	269-286	N12	C	275	ANd*	
	288-290	N23	D-	50	BSs	
	302-304	N37	D-	10	BNs	
	314-323	N54	D	65	ANd	
Jan. 13	5-6	N81	D-	10	BNs	Omitted in the Analysis
	48-50	N37	D-	10	BSs?	
	53-56	N32	D	60	ASl	
	58-69	N23	C	175	BSs's	
		P.A. 90° to 315°		missing		
Jan. 17	31-54	N48	A	1250	ANd	Poor seeing all day
	85-88	S1	D-	60	ANd	
	94-98	S11	D-	15	BNs's	
	208-211	S55	D-	20	?	
	221-225	S42	D	80	ANd	
	251-253	S13	D	50	ASa	
	258-264	S5	D+	120	BSs	
	278-293	N19	C+	290	ANd	
	314-319	N51	D	85	ANd	
Jan. 18	30-45	N48	B	700	ANd	Poor seeing all day
	94-98	S12	D-	75	ASa	
	118-119	S34	D-	10	BNs	
	238-248	S21	D	110	?	
	268-278	N7	D	60	ANc	Streamer
	293-299	N32	D+	100	ANd	
	313-319	N52	D	55	ANd?	
Jan. 19	6-7	N77	D-	20	ANm?	or BNs?
	38-44	N43	D-	45	ANd	
	63-64	N20	D-	5	BNs	
	77-79	N6	D-	15	?	
	86-95	S5	D	85	ANd	
	116-119	S33	D	60	ANd	
	191-192	S73	D-	15	BNs	
	209-213	S53	D	60	ANd	
	229-245	S26	D	110	ANd*	
	237-238	S26	D-	35	BSs	
	253-256	S10	D-	30	ANc	
	269-277	N9	D	70	ANe	
	287-297	N28	C	210	ANe	Horizontal streamers
	310-314	N48	D	60	ANd	
	318-337	N62	D-	20	BNs	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Jan. 20	39-49	N38	D	70	ANd	
	52-53	N30	D-	25	ANa	
	53-61	N27	D+	100	ANd	
	69-77	N11	D	65	ANd	
	113-115	S31	D-	30	ANd	
	151-152	S69	D-	10	BNs	
	207-212	S53	C-	165	ANm	
	218-219	S44	D-	20	BSs?	
	224-243	S28	C-	215	ANd	
	249-251	S13	D	35	ANc	
	284-298	N27	B	750	ANe	Fine example
	306-311	N45	D+	135	ANd	
Jan. 25	17-24	N60	B-	400	ANm	Poor seeing all day
	46-53	N32	D	50	ANd	
	76-78	N4	D-	15	BNs	
	83-91	S8	C	350	ANd	
	127-133	S50	D	85	ANd	
	177-181	S80	D-	20	BNs's	
	216-221	S38	C	165	ANd	
	239-240	S22	D	15	ANc*	
	242-244	S18	D	20	ASf	
	247-251	S12	D+	170	ANd*	
	258-265	N1	D	115	ANd	
	272-287	N20	D	100	ANd?	
	290-311	N35	C	300	ANd	
Jan. 26	13-24	N63	C+	535	ANd	
	36-40	N42	D-	25	BSs	
	41-60	N33	C	285	ANd*	
	62-67	N16	D-	55	BSs	
	65-81	N5	D+	110	ASa	
	74-77	N6	D+	100	BSs	
	94-97	S14	D-	20	ANa	
	104-114	S28	C	210	ANd	
	127-131	S48	D	50	ANm	
	209-211	S51	D	40	ANm	
	215-217	S45	D	30	BSs?	or ANm?
	219-227	S38	D	80	ANd	
	233-235	S27	D-	15	ASa	
	242-256	S10	D+	135	ANd	
	268-290	N18	D+	160	ASa	
	279-282	N20	D	65	BSs	
	293-299	N36	C-	150	BSs?	or ANb?
	318-337	N68	D-	15	BNs's	
Jan. 29	5-11	N71	D-	45	ANd	
	23-30	N54	C	230	ANd	
	52-61	N22	C+	300	ANd*	
	60-65	N18	D-	55	ASa	
	61-80	N7	D+	160	BSs's	Poor seeing
	80-83	S3	D	75	ANc*	" "
	88-90	S10	D	35	ANc*	" "
	93-99	S17	D	65	BSs	" "
(cont.)	100-113	S27	C+	260	ANd*	" "

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Jan. 29 (cont.)	118-129	S44	C-	160	ANe	Poor seeing
	128-135	S51	D	100	ANd	" "
	207-215	S48	C	285	ANc*	" "
	217-219	S41	D	35	BSs?	or ANm?
	231-242	S20	D	110	ASf	Poor seeing
	258-260	0	D	70	ANc	" "
	270-282	N17	C	230	ANd	" "
	295-297	N37	D-	25	ASa	" "
	300-302	N42	D-	25	BSs	" "
	303-304	N46	D	20	ANc*	" "
Feb. 5	25-28	N50	D-	25	ANc	
	36-45	N36	C-	180	ANd	
	53-59	N21	D*	70	BSs	
	62-65	N13	D	20	ANd*	
	75-81	S2	D	190	ASl?	Poor seeing
	96-102	S37	D-	45	BNs's	" "
	150-151	S74	D-	10	BNs	" "
	238-247	S14	D	90	ANd	" "
	260-268	N8	C	335	ANd*	
	270-276	N18	D*	165	ASa	
	276-284	N21	C	135	BSs,s	
	287-293	N35	D	40	ANd	
	303-319	N56	B*	1150	ANd	Part ascended
Feb. 6	19-35	N49	D*	170	ANd	
	39-55	N29	C	225	ANd	
	61-65	N13	D	90	BSs	
	74-76	N1	D	50	ANb?	or BSs?
	78-87	S5	D-	65	ANe	
	95-96	S20	D-	15	BSs	
	106-111	S32	D-	30	ANd	
	121-157	S61	D-	25	BNs's	
	233-250	S16	C*	375	ANd	
	261-282	N13	B-	425	ANd	
	290-291	N35	D-	10	BNs	
	300-319	N53	B	775	ANd*	Elevated over surge
	307-309	N52	D*	100	BSs	
Feb. 10	15-21	N56	D	50	ANd	
	31-40	N39	C	215	ANd	
	49-54	N22	D*	80	BSs	
	53-55	N20	D-	30	ASa	
	54-60	N17	D*	100	ANd*	
	89-108	S30	D*	115	ANd	
	116-125	S47	C	220	ANd	
	180-190	S69	D-	15	BNs,s	
	188-192	S64	D	90	ANc	
	206-229	S45	C	380	ANd	
	239-247	S10	C	190	ANd	
	266-268	N13	D*	65	ANm	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Feb. 11	7-8	N66	D-	10	BNs	Poor seeing all day
	13-21	N59	D	85	ANd	
	29-41	N40	C	230	ANd*	
	45-59	N23	D	125	ASa	
	47-54	N23	D	30	BSs,s	
	60-68	N10	D	85	ANd	
	89-96	S21	D-	60	ASa	
	95-96	S22	D-	10	BSs	
	112-121	S43	C	265	ANd	
	139-143	S66	D-	10	BNs,s	
	220-222	S33	D	45	ANm	
	217-218	S37	D-	5	BNs	
	223-225	S30	D	25	ANc	
	229-231	S24	D-	15	BNs	
	243-246	S19	D-	40	?	
	262-265	N9	D	70	ASl	
	265-269	N14	D	40	ANm	
	299-301	N46	D	35	BSs	
	306-316	N57	C-	160	ANd	
Feb. 12	17-18	N56	D-	10	BNs	
	28-39	N39	C	235	ANd*	Streamers
	40-54	N32	D*	145	ASa	
	53-58	N18	D-	15	BSs's	
	64-65	N10	D-	10	BSs	
	86-96	S18	D	115	ASa	
	110-121	S43	C	200	ANd	
	198-203	S54	D-	30	ANd	
	210-217	S42	D	120	ANd	
	220-236	S29	C*	325	ANc*	Streamers
	227-233	S23	D	125	ASf	
	247-250	S6	D	50	ANd ?	
	258-267	N6	C-	190	ANc	Streamer
	270-289	N25	D	95	ANd	
	298-305	N46	D-	20	BNs's	
	308-315	N59	C-	110	ANm?	
Feb. 13	347-9	N75	D-	15	BNs's	
	34-49	N30	C	225	ANd*	
	51-55	N20	D*	75	BSs	
	56-64	N11	C-	130	ANc*	Streamer
	65-69	N6	D-	30	ANb	
	75-76	S2	D-	5	BNs	
	85-92	S15	D-	25	ANd*	
	92-96	S21	D-	30	ASa	
	103-118	S40	C	325	ANd	Part ascended
	145-159	S77	D-	15	BNs's	
	186-191	S65	D-	20	BNs's	
	197-201	S54	D	40	ANd	
	215-226	S31	D-	30	BNs's	
	223-230	S29	C-	100	ASf	
	237-239	S15	D-	50	ANc*	Streamer
(cont.)	242-249	S7	D-	20	BSs's	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Feb. 13 (cont.)	250-254	S1	D-	30	ASa	
	258-259	N6	D	40	ANa	
	268-272	N17	D-	15	BNs's	
	285-288	N33	D-	20	ANc	
	293-295	N41	D-	15	?	
	306-334	N66	D-	45	BNs's	
	310-313	N58	C	100	ANm	
Feb. 14	54-58	N17	D+	115	ANm	Poor seeing all day
	65-67	N7	D-	40	ANa?	
	96-104	S28	B-	450	ANd	Omitted in the Analysis
	113-132	S51	C	190	ANd	
	138-142	S67	D-	45	ANd	
		P.A. 180° to 315° missing				
Feb. 17	17-22	N53	C-	125	ANd	Poor seeing all day
	28-37	N41	C	310	ANd	
	57-73	N3	B	725	ANd	
	94-96	S23	D-	30	ANm	
	197-200	S54	D-	60	ANm	
	227-232	S22	D+	95	ANc	
	242-254	S4	D+	150	ANd	
	280-288	N32	C-	170	ANd	
	302-305	N52	D-	35	ANm	
Feb. 19	342-343	N83	D-	5	BNs	
	15-22	N53	C-	250	ANc	
	26-40	N41	B-	470	ANd	Streamer
	41-51	N25	D	55	BSs's	
	51-59	N13	C-	200	ASf	
	65-69	N4	D	85	ANd*	
	77-92	S17	D	100	ANd	
	100-101	S30	D-	10	BSs	
	102-103	S32	D-	15	ASa	
	105-127	S45	C+	375	ANd*	
	197-204	S52	D+	90	ANd	
	215-219	S34	D+	75	BSs	
	221-231	S25	C+	280	ANd*	
	242-243	S8	D-	15	BNs	
	249-268	N4	C+	410	ANd	
	297-304	N51	C	180	ANm	
Feb. 21	37-44	N30	D	170	ANd	Poor seeing all day
	68-75	N10	C	250	ANd	
	213-229	S31	B	700	ANd	Omitted in the Analysis
	289-292	N40	D-	40	ANm	
	291-302	N45	C	180	ANd	
Feb. 22	14-15	N55	D-	65	ANe	Poor seeing all day
	29-42	N30	B-	650	ANc	Streamers
	55-67	N11	C-	350	ANd	
(cont.:	72-74	S3	D	40	ANc	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Feb. 22 (cont.)	84-101	S24	D	115	ANd?	Poor seeing all day
	112-119	S45	C-	135	ANd	
	216-219	S33	D-	25	ANm	
	221-238	S14	D	75	ANd	
	246-262	N4	D*	300	ANe	Arching streamer
	266-277	N23	C	190	ANd	
Feb. 23	14-16	N55	D	65	ANb	
	28-42	N33	B-	625	ANd	Arch
	54-55	N16	D-	10	BNs	
	68-72	0	D	65	ANd	
	91-101	S24	D	95	ANd	
	113-117	S45	C-	140	ANm?	or BSs?
	153-154	S81	D-	10	BNs	
	166-167	S81	D-	5	BNs	
	207-209	S42	D	35	ANm	
	213-216	S36	D*	100	BSs?	or ANm?
	225-229	S22	D+	90	ANc	
	240-265	0	A-	1350	ANd*	Streamers
	265-277	N22	D*	225	ASa	
	270-282	N22	D*	120	BSs,s	
	290-310	N49	C*	475	ANd	
Mar. 10	8-30	N46	B	700	ANd	
	37-47	N24	D	125	ASa	
	51-59	N12	D-	50	BSs	Omitted in the
	53-54	N12	D-	60	ASa	Analysis
	64-66	N1	D-	15	BSs	
	90-94	N27	D	50	ANd	
	112-118	S47	D*	130	ANc	
		P.A. 180° to 315° too dark to measure				
Mar. 11	7-38	N47	A-	1225	ANd*	
	34-43	N30	D	115	ASf	
	41-51	N23	D	100	ASa	
	49-63	N10	C*	420	ANd*	
	54-59	N11	C	200	BSs	
	75-86	S12	D*	150	ANd	Streamer
	87-93	S24	D-	45	ANd	
	105-117	S47	C-	185	BSs?	
	135-143	S74	D-	20	BNs's	
	176-177	S69	D-	20	ANc	
	196-205	S46	C	200	ANd	
	215-221	S27	D-	40	ASa	
	217-225	S28	D-	25	BSs	
	231-240	S11	D-	30	ANe	Streamer
	247-251	N2	D	50	ANb	
	259-262	N15	D-	25	BSs?	
	271-273	N26	D	55	BSs	
	275-284	N34	C	240	ANd	
	291-294	N47	D-	45	ANm	
	301-311	N59	D-	160	ANd	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Mar. 21	4-18	N56	C	280	ANd	
	33-45	N25	C-	170	ANd*	
	34-51	N24	D*	155	ASa	
	37-42	N24	D*	120	BSs	
	52-56	N11	D*	115	ANc*	
	72-81	N9	D	130	ANd	
	87-96	S27	D	85	ASa	
	88-89	S23	D-	25	BSs	
	102-119	S48	A	1450	ANd	
	121-155	S71	D-	35	BNs's	
	167-168	S76	D-	5	BNs	
	175-176	S68	D-	25	ANb	
	187-200	S53	D*	160	ANd	
	208-212	S36	D	65	ANd	
	214-223	S27	D-	15	BNs's	
	230-232	S4	D-	20	BSs	
	230-237	S10	D-	105	ANc*	Streamer
	241-246	S2	D	65	ANd	
	260-274	N20	D*	130	ANa	
	280-292	N39	C	230	ANd*	
	287-294	N45	D	65	ASa	
	319-320	N74	D-	25	ANm	
Mar. 22	358-14	N57	C*	335	ANd	Streamer
	23-35	N38	D*	140	ANd	
	42-46	N21	D	65	ANd	
	51-56	N13	D*	115	ANc	
	69-71	S5	D	15	BNs	
	80-81	S16	D-	15	ANm	
	109-117	S47	B	550	ANd	
	217-226	S24	D-	20	BNs's	
	236-246	4	S	85	ANd	
	262-270	N19	D*	115	ANb*	Streamer
	271-272	N27	D-	20	BSs	
	305-315	N65	B-	375	ANd	
Mar. 23	345-346	N77	D-	15	BNs	
	357-6	N62	D	125	ANa	
	9-15	N52	C-	200	ANd	
	21-31	N40	C	240	ANd	
	43-53	N16	D*	220	ASa	
	53-69	N3	D	300	ANd*	Very faint
	72-88	S16	D	180	ASa	
	78-81	S15	D	50	BSs	
	109-114	S48	C-	225	ANm	Ascending ?
	210-223	S28	D*	85	ANd	
	236-241	S4	D	95	ANc	
	249-258	N12	D	130	ANc*	
	262-266	N19	D-	100	ASf	
	266-270	N24	D	90	ASa	
	319-331	N80	B-	1050	ANd	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Mar. 24	336-2	N74	D-	25	BNs's	
	7-13	N54	C-	170	ANd	
	18-26	N42	C	220	ANd	
	33-37	N29	D-	15	ANm	
	41-53	N20	D+	115	ASa	
	50-52	N13	D-	10	ANm	
	58-62	N5	D	60	ANd	
	63-66	S1	D	50	ASf?	
	68-79	S9	C	230	ANd	
	82-90	S22	D	95	ASa	
	96-97	S32	D-	15	BSs	
	110-115	S49	C-	265	ANm	
	120-148	S67	D	85	BNs's	
	158-192	S68	D-	55	BNs's	
	193-204	S46	D	90	ANd	
	208-209	S36	D-	5	BNs	
	213-216	S30	D	40	ANm?	or BSs?
	220-238	S10	D-	30	ANd	
	231-242	S7	D-	250	ANa	
	243-245	0	D-	20	ANc	
	247-262	N11	C+	375	ANds	
	261-269	N20	C-	400	ASl	
	292-306	N54	A-	1050	ASf,f	
	293-307	N56	C-	200	ANds	
	324-326	N79	D-	30	ANc	
Mar. 25	336-4	N73	D-	45	BNs's	
	6-12	N55	C-	140	ANm	
	14-26	N51	C-	150	ANd	
	28-34	N34	C-	160	ANd	
	43-51	N18	D	80	ASa	
	45-49	N17	D	50	BSs?	
	59-60	N4	D-	10	BSs	
	62-64	N1	D-	30	ANc	
	68-77	S6	D	165	ANe	
	73-82	S14	D-	40	ASa	
	78-90	S19	D	70	BSs's	
	96-102	S35	D-	130	ANm	
	109-119	S38	C	265	ANd	
	123-135	S67	D	35	BNs's	
	153-154	S83	D-	15	BNs	
	183-200	S50	C	235	ANd	
	210-211	S34	D-	15	BNs	
	221-236	S16	C	240	ANd	
	243-260	N8	B-	400	ANd	
	260-262	N17	D-	20	BSs	
	261-266	N21	D-	35	ASa	
	267-289	N41	C	225	ANds	
	285-301	N50	A-	975	ASf	
	299-307	N57	D-	120	ANc	
	316-318	N72	D-	10	BNs,s	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Mar. 26	4-18	N53	C+	300	ANd	Streamer
	26-35	N35	C	210	ANd	
	45-59	N13	C-	320	ANd	Poor seeing
	75-78	S12	D-	20	BSs	" "
	77-80	S14	D-	15	ASa	" "
	104-123	S48	C+	475	ANd	" "
	150-151	S83	D-	10	BNs?	" "
	191-196	S51	C	160	ANc	" "
	218-226	S22	D-	30	ANd	" "
	238-247	S2	B	425	ANd	" "
	260-270	N20	C-	260	BSa's	" "
	273-277	N31	D-	15	ANd	" "
	283-290	N42	D-	50	ANd	" "
	297-301	N54	D+	140	ANm	" "
Mar. 27	346-347	N76	D-	5	BNs	
	5-12	N55	C	230	ANd	
	15-16	N48	D-	5	BNs	
	24-27	N38	D-	15	BNs's	
	34-50	N23	D-	15	BNs's	
	83-86	S21	D	50	ANm	
	91-94	S28	D	35	ANa?	or ASa?
	107-125	S51	C+	360	ANd	
	158-159	S82	D	30	ANm	
	189-196	S51	C	175	ANd	
	212-229	S27	B-	380	ANd	
	237-250	S4	C+	265	ANd	
	255-269	N16	C	200	BSs's	
	271-278	N29	D	50	ANd	
	288-300	N50	C	210	ANd	
	312-319	N70	D-	20	BNs's	
Mar. 28	3-22	N56	B-	525	ANd	Poor seeing all day
	34-40	N25	D+	100	ANd	
	44-48	N19	D-	50	ASl?	
	46-57	N15	D	70	BSs's	
	52-55	N11	D-	25	ASa	
	145-146	S79	D-	15	BNs	
	158-167	S80	C	190	ANd	
	188-202	S50	D	60	ANd	
	212-220	S19	B-	350	s?	Dome-shaped
	240-244	S2	D	75	s	
	256-272	N21	D+	275	a	
	277-292	N41	C+	325	ANd	
Mar. 29	6-12	N56	C+	260	ANm	
	20-30	N38	D-	15	BNs's	
	39-43	N23	D-	150	ASl	
	44-56	N14	C-	210	ANd+	
	87-90	S24	D-	20	ANm	
	116-121	S55	D-	50	ANd	
	182-183	S61	D-	10	BNs	
(cont.)	194-198	S48	D	45	ANd	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Mar. 29 (cont.)	210-217	S31	D+	140	ANd	
	240-243	S2	D	55	ANd	
	260-261	N17	D-	25	ANc?	Poor seeing
	267-270	N25	D-	70	ASa	
	277-293	N42	B-	380	ANd	
Apr. 1	337-348	N79	D-	15	BNs's	
	354-11	N62	B	575	ANd	
	13-20	N48	D-	10	BNs's	
	23-38	N33	D	115	ASa	
	29-45	N30	C+	270	ANd*	
	52-56	N11	D	40	ANm	
	57-61	N5	D	65	ANd	
	70-73	S8	D	70	BSs	
	77-82	S16	D-	45	BSs's?	
	88-92	S26	D-	40	ANd	
	94-101	S34	D-	25	BNs's?	
	116-119	S53	D	60	ANd	
	138-139	S73	D-	10	BNs	
	156-157	S83	D-	5	BNs	
	186-203	S48	D-	15	BNs's	
	221-227	S20	D-	60	ASa	
	224-231	S18	D	65	BSs's	
	235-255	0	B-	350	ANd	
	256-271	N18	C+	255	ANd	
	280-298	N42	A-	1000	ANd	Streamer
Apr. 2	350-4	N68	C	350	ANd	
	4-22	N58	C	185	ANb*	Streamer
	21-45	N34	D+	190	ASa	
	29-39	N30	D+	85	BSs.s	
	70-78	S10	D+	100	ANd	
	115-121	S54	C-	140	ANd	
	128-130	S65	D	35	ANm?	
	146-147	S80	D-	15	BNs	
	218-230	S20	D+	175	ANd	
	234-248	C	C+	260	ANd	
	248-301	N26	A+	1950	ANd	
Apr. 3	344-356	N72	C+	425	ANd	
	2-6	N61	D+	90	ANm	
	41-45	N21	D	70	ANd*?	
	46-49	N17	D	50	BSs	
	66-67	N8	D-	5	BNs	
	71-80	S2	C-	130	ANd	
	84-89	S23	D-	10	BNs.s	
	115-124	S54	D	65	ANm	
	200-208	S40	C-	160	ANd	
	210-214	S32	D	40	BSp	
	215-223	S25	D	85	BSs's	
	221-229	S20	D-	165	ASa	
	229-236	S11	D	100	ANd	
	241-268	N12	B	575	ANd	
	275-276	N32	D	15	BSs	
	286-288	N43	D-	10	BSs.s	
	290-301	N51	C	310	ANd	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Apr. 4	341-350	N79	C	265	ANd	
	359-9	N59	C-	150	ANd	
	14-26	N45	C	225	ANd	
	38-44	N22	C+	215	ASf	
	63-67	S2	D	50	ANm	
	69-74	S8	D	55	ANd*	
	75-77	S12	D	30	BSs	
	78-81	S15	D-	25	ANd	
	118-119	S54	D-	10	BNs	
	140-141	S76	D-	10	BNs	
	200-206	S42	C-	160	ANd	
	212-225	S21	D+	180	BSs	
	223-234	S14	C-	500	ASl?	
	245-246	N2	D-	20	ANm	
	266-270	N23	D-	60	ASa	
	267-270	N24	D-	20	BSs	
	270-274	N28	D+	125	ANb*	
	292-312	N52	C	230	ANd	
Apr. 5	4-24	N47	B-	475	ANd	
	42-52	N16	D+	170	ASa?	
	62-87	S6	C+	290	ANd	
	102-110	S42	C+	265	ANd	
	196-200	S46	D+	85	ANm	
	215-217	S28	D-	20	ANd	
	219-223	S23	D	50	ANa	
	228-232	S14	D	80	ANa	
	232-243	S5	C-	160	ANd	
	249-252	N7	D	100	ANc	
	259-261	N16	D-	20	BSs	
	264-269	N22	D	100	ANd*	
	275-284	N25	C	200	ANd	
	295-300	N53	D+	75	ANm	
	297-301	N56	D	55	ANe	
	327-336	N83	D-	25	BNs's	
Apr. 6	358-19	N50	C+	350	ANd	
	41-53	N18	D+	230	ASa	
	43-49	N18	D+	80	BSs,s	
	69-70	S6	D-	10	BNs	
	78-79	S15	D-	5	BNs	
	81-87	S19	D	65	ANc*	
	87-92	S24	D-	30	ASa	
	93-94	S30	D-	15	BSs	
	101-107	S40	D+	80	ANd	
	129-130	S65	D-	5	BNs	
	149-154	S83	D-	15	BNs,s	
	161-194	S68	D-	45	BNs's	
	196-200	S46	D-	30	ANd	
	213-219	S28	D	65	ANd	
	225-235	S14	C	205	ANd	
	228-237	S13	D-	85	ANa	
(cont.)	237-247	S2	C+	375	ANd*	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Apr. 6 (cont.)	249-261	N12	C	330	ASl	
	255-257	N12	D	50	BSs	
	258-273	N22	D	115	ASa	
	278-291	N38	C	215	ANd?	
	296-299	N53	D*	170	ASl	
	297-302	N55	D*	100	BSs	
	307-321	N66	D-	25	BNs's	
Apr. 7	1-20	N51	C*	480	ANd	Streamers
	34-52	N20	C	325	ASl	
	82-93	S23	D-	120	ANd	
	104-105	S41	D-	15	BNs	
	110-112	S47	D	50	ANc	
	120-121	S56	D-	15	BNs	
	135-136	S71	D-	5	BNs	
	151-152	S84	D-	10	BNs	
	195-197	S48	D-	15	ANm	
	224-229	S17	D	40	ANd	
	233-237	S10	D	75	ASf	
	241-252	0	C*	425	ANd	
	260-268	N21	D	120	ASl	
	270-272	N27	D-	20	BSs	
	280-285	N38	D	70	ANd	
	287-294	N47	D-	20	BNs's?	
	295-297	N52	D	20	BSs?	or ANm?
	297-301	N55	D	50	ASa?	or ANa?
	318-319	N74	D-	10	BNs	
Apr. 8	349-5	N68	D-	25	BNs's	
	6-18	N51	C*	300	ANd	
	27-37	N32	C*	270	ANd*	
	39-50	N19	D*	130	ASa	
	42-45	N20	D	45	BSs	
	50-53	N12	D*	55	ANc*	
	55-67	N2	C-	225	ANd	
	72-75	S9	D	30	ANd	
	75-94	S19	D*	120	ASa	
	78-87	S19	C*	330	ASl	
	96-100	S24	D-	34	?	
	103-106	S40	D	55	BSs	
	106-108	S43	D-	60	ASf	
	115-117	S52	D-	20	BNs's	
	123-150	S70	D-	30	BNs's	
	163-186	S71	D	55	BNs's	
	192-202	S49	C-	150	ANd	
	212-213	S32	D-	5	BNs	
	223-230	S18	D-	20	BNs	
	231-251	S5	D*	525	ANd	
	273-284	N36	C	165	ANd	
	288-294	N47	D	25	BNs	
	297-300	N54	D	65	ANd	

Date	Spread	Lat. of Center of Intensity	Importance	Area in p.u.	Class	Comments
1956						
Apr. 9	9-16	N52	C	180	ANd	
	22-48	N34	A	1300	ANd*	
	49-52	N14	D	35	BSs	
	54-63	N5	D+	160	ANc	
	75-99	S22	D	320	ASl	
	85-90	S23	D+	75	BSs	
	190-198	S51	C	170	ANd	
	224-231	S17	D	45	ANm,m	
	264-283	N31	C+	315	ANd	
	291-302	N54	D	100	ANd	
	323-334	N73	D-	20	BNs's	
Apr. 10	6-16	N55	C-	165	ANd	Poor seeing all day
	20-49	N37	A-	1175	ANd	
	60-67	N1	D	60	ANd?	
	189-198	S52	C	300	ANd	
	264-266	N21	D-	20	?	
	271-282	N31	D	70	ANd	
	293-306	N53	C	170	ANd	
Apr. 11	345-354	N73	D	25	BNs's	
	0-14	N48	C-	225	ANd	
	11-33	N45	A	1450	ANc	Magnificient example
	35-52	N19	B	850	ANd	
	68-79	S7	C-	290	ANd	
	79-88	S19	D-	25	BSs,s	
	84-85	S21	D-	15	ASa	
	89-96	S29	C-	170	ANd*	
	101-107	S40	D	65	BSs?	
	189-198	S50	C+	400	ANd	
	220-221	S24	D-	10	BNs	
	230-232	S13	D	30	ANc	
	238-241	S4	D	35	ANd	
	268-276	N29	D+	130	ANd	
	294-300	N52	D+	105	ANd	
	303-306	N60	D	70	ANc?	or ANa?
Apr. 12	358-1	N65	D-	30	ANc	
	9-14	N52	D	75	ANd	
	20-24	N42	D-	30	ANd	
	29-33	N32	D	50	ANd	
	38-58	N19	C+	325	ANd	
	59-65	N2	D+	140	ANd	
	70-71	S7	D-	25	ASf	
	89-91	S20	D-	45	BNs's	
	91-92	S28	D-	15	BSs	
	95-108	S39	C+	290	ANd	
	137-139	S73	D-	10	BNs	
	188-196	S51	C-	165	ANd	
	208-210	S35	D-	15	BNs	
	220-240	S15	C	265	ANd	
	252-253	N8	D-	20	ASf	

Date	Spc[illegible]	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Apr. 12 (cont.)	262-273	N23	C	280	ANd	
	278-290	N40	D-	15	BNs's	
	297-311	N60	C	235	ANd	
	332-333	N84	D-	10	BNs	
Apr. 13	10-14	N53	D-	25	BNs's?	Poor seeing all day
	23-31	N37	D	85	ANd*	
	31-34	N31	D	80	ASI	
	56-68	N2	C*	300	ANd	
	84-91	S24	C-	185	ANd	
	93-108	S36	C	235	ANd	
	186-191	S56	C-	140	ANd	
	214-221	S28	C	150	ANd	
	252-254	N9	D	40	ANc	
	258-268	N18	D	110	ANe*	
	271-275	N29	D	70	ASa?	or BSs?
	275-279	N33	D	35	BSs	
	303-310	N61	C*	270	ANd	
Apr. 14	5-10	N57	D-	15	BNs,s	
	16-24	N44	D	95	ANd	
	35-36	N29	D-	15	?	
	46-61	N6	C	235	ANd	Streamers
	66-79	S10	C	250	ANd*	
	79-91	S22	D	55	BSs	
	80-88	S20	D-	40	ASa	
	114-115	S50	D-	5	BNs	
	130-131	S65	D-	20	BNs	
	143-144	S79	D-	10	BNs	
	172-173	S71	D-	5	BNs	
	186-188	S57	D	50	ANm	
	213-219	S29	[illegible]	130	ANm	
	226-227	S17	D-	15	?	
	232-237	S9	D	20	ANd	
	244-272	N17	B*	1100	ANd*	Streamers
	252-254	N9	D	40	BSs	
	273-280	N31	D	260	ASa	
	276-278	N33	D	30	BSs	
	280-291	N44	C	225	ANd*	Streamer
	302-304	N59	D	45	ANc	
	307-309	N64	D-	15	ANm	
Apr. 15	10-12	N53	D	20	ANc	Poor seeing all day
	16-18	N47	D	40	ANm	
	32-33	N31	D-	25	ANb	
	39-87	N5	A	1700	ANd	
	184-187	S48	D-	40	ANd	
	211-224	S25	D-	60	ANd	
	234-246	S7	D	110	ANd	
	260-263	N18	D-	40	ANc*	
	261-272	N20	D	120	ASa	
	270-278	N28	D	40	BSs?	
	283-288	N42	D	50	ANd	
	301-305	N59	D	35	ANm	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Apr. 16	357-358	N67	D-	5	BNs	
	14-18	N48	D	40	ANd	
	27-84	N12	A-	2900	ANd*	Arching streamer
	84-97	S23	D+	260	ASa	
	90-92	S27	D	25	BSs	
	99-104	S38	D+	90	ANc*	
	133-147	S70	D-	15	BNs's	
	185-191	S56	D-	30	BNs's	
	197-209	S42	B-	435	ANd	
	215-224	S25	D-	45	?	
	226-232	S17	C+	140	BSs?	or ANm?
	235-236	S9	D-	5	BNs	
	262-265	N19	D-	30	ASa	
	270-273	N28	D-	20	BSs	
	274-278	N33	D	100	ASf?	
	279-285	N38	D-	15	BNs's	
	302-307	N59	D	70	ANd	
Apr. 18	6-12	N53	D	65	ANd	Poor seeing all day
	33-37	N29	D-	45	?	
	41-52	N18	D	50	BSs's	
	52-56	N10	D-	55	ASl	
	76-82	S16	D-	80	ANe	
	77-79	S14	D-	40	ANc	
	82-89	S23	D-	50	ASa	
	86-87	S22	D-	10	BSs	
	88-91	S25	D	60	ASf?	
	99-112	S40	B-	450	ANd	
	132-133	S68	D-	10	BNs	
	196-201	S45	D+	160	ANc	
	223-243	S11	C+	285	ANd	
	265-269	N23	D	90	ASa	
	266-269	N23	D	30	BSs	
	270-277	N29	C+	280	ASf	Good example
	281-288	N39	C	190	ANd	
	300-305	N59	D	60	ANd	
Apr. 19	340-341	N81	D-	15	BNs	
	8-16	N52	C	180	ANm	
	29-44	N31	D	140	BSs's	
	43-55	N11	C-	300	ANb*	Arching streamers
	68-94	S20	B+	880	ANd*	" "
	93-96	S30	D	100	ASa	
	100-112	S40	B-	365	ANd	
	133-158	S80	D-	25	BNs's	
	187-196	S49	D-	70	ANd	
	202-203	S41	D-	20	ANa	
	231-241	S8	C+	160	ANd	
	263-275	N24	D+	120	BSs's	
	265-268	N23	D	60	ASa	
	271-275	N28	C	190	ASf	
	282-290	N40	D+	105	ANd	
	293-315	N61	B	500	ANd	
	338-339	N83	D+	10	BNs	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Apr. 20	2-14	N54	C+	360	ANd	
	41-47	N21	D+	120	ASa	
	51-59	N9	D	110	ANe	
	54-59	N8	D-	20	BSs,s?	
	76-84	S16	D-	60	ANe	
	93-95	S30	D	70	ASf	
	107-114	S45	C	240	ANd	
	189-194	S43	D+	90	ANd	
	223-232	S18	D-	50	ANd	Streamer
	237-238	S6	D-	5	BNs	
	250-251	N7	D-	25	BSs?	
	256-262	N14	D-	30	?	
	263-271	N20	C	200	ASf	
	270-279	N29	D+	150	BSs's	
	271-284	N28	D-	70	ASa	
	295-311	N62	B	775	ANd	
	331-347	N80	D-	20	BNs,s	
Apr. 21	356-357	N68	D-	10	BNs	
	1-12	N55	C	205	ANd	Streamer
	29-33	N33	D-	25	ANe	
	42-61	N12	C-	165	BSs	or ANd?*
	45-54	N15	D	85	ASa	
	63-66	0	D-	40	ASa	
	77-79	S13	D	35	BSs?	or ANd?
	85-91	S23	D	55	BSs's	Omitted in the
	93-95	S30	D-	25	ASf	Analysis
	104-116	S47	C+	240	BSs?	
	119-120	S56	D-	10	BNs	
	130-157	S77	D-	35	BNs's	
		P.A. 180° to 315° missing				
Apr. 22	337-338	N84	D-	10	BNs	
	346-348	N76	D-	15	BNs	
	359-11	N58	C+	375	ANd	
	18-20	N45	D-	15	ANm	
	41-47	N20	D-	95	ASa	
	64-70	S3	D	65	ASf,f	
	71-87	S15	D-	25	BNs's	
	73-78	S11	D	100	ASa?	
	89-94	S27	D-	60	?	
	94-96	S21	D-	30	ANc	
	110-117	S50	D	185	ASa	
	111-119	S51	C+	220	BSs?	
	122-156	S73	D-	60	BNs's	
	166-206	S59	D-	65	BNs's	
	209-225	S25	C-	180	ANd*?	
	227-235	S13	D+	120	ASa	
	243-245	0	D	20	ANc	
	252-259	N11	D-	15	BNs's	
	255-265	N17	D+	175	ASf?	
	262-287	N31	A-	1100	ANd	Arching streamers
	292-293	N48	D-	10	BNs	
	296-308	N56	B-	385	ASf?	or ANe?
	303-335	N72	D-	30	BNs's	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Apr. 23	333-19	N68	D-	50	BNs's	
	347-348	N76	D-	20	ANb	
	2-5	N61	D-	30	ANd	
	24-46	N31	C+	325	ANd	Arching streamer
	51-59	N5	D-	20	BNs's	
	112-120	S50	C	250	ANd	
	157-200	S65	D-	45	BNs's	
	165-166	S79	D-	40	ANa	
	203-218	S33	C+	275	ANd*	
	217-226	S19	D	150	ASl	
	221-227	S22	D	100	ASs	
	228-236	S14	D	105	ASa	
	243-247	S1	D	50	BSs?	
	248-292	N30	A	1450	ANd	Streamers*
	296-304	N56	D	60	ANd	
Apr. 24	341-22	N67	D-	60	BNs's	
	27-41	N32	C	250	ANd	
	46-68	N8	D-	50	BNs's	
	78-92	S24	D-	120	ANd	
	100-109	S39	D-	15	BNs's	
	111-119	S49	C+	320	ANd	
	121-161	S74	D-	60	BNs's	
	192-194	S52	D	30	ANm	
	200-204	S43	D-	15	BNs's	
	204-217	S31	C+	385	ANd*	Streamers
	219-225	S22	D	100	ASa	
	226-235	S13	D+	140	ANd*	
	235-239	S8	D-	20	ASa	
	236-241	S6	D	50	BSs's	
	246-252	N4	D	65	ANd	
	271-292	N36	B-	650	ANd*	
	291-298	N50	C+	380	ASf,f	
	298-303	N56	D	70	ANd*	
	306-339	N75	D-	50	BNs's	
Apr. 25	333-7	N74	D-	90	BNs's	
	9-11	N55	D-	30	ANa	
	24-31	N38	D	70	ANd	
	37-51	N22	C	200	ANd	
	64-72	S2	D-	25	BSs?	
	72-90	S17	C	280	ANd	
	96-109	S36	D-	40	BNs's	
	110-120	S48	C+	310	ANm	
	165-166	S79	D-	10	BNs	
	175-182	S67	D-	20	BNs,s	
	190-194	S53	D	80	ANd	
	207-214	S35	D-	125	ANd*	
	212-215	S32	D	60	ASa	
	219-224	S23	D	100	ASa	
	224-234	S14	C	245	ANd*	
	237-241	S6	D-	15	?	
(cont.)	245-247	N1	D	20	BSs?	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Apr. 25 (cont.)	252-278	N15	B	650	ANd	Streamer
	284-289	N41	D	40	BSs?	
	294-306	N55	D+	95	ANd	
	304-305	N59	D-	15	ASa?	
	314-325	N73	D-	30	BNs's	
	329-330	N82	D-	40	ANa	
May 1	337-0	N79	D-	35	BNs's	
	0-5	N63	C	175	ANm	
	6-7	N59	D-	10	BNs	
	18-20	N47	D-	15	BNs,s	
	30-35	N34	D	70	ASa	
	36-51	N24	D+	350	ASl	
	37-49	N23	C-	180	BSs's	
	53-72	N6	D-	20	BNs's	
	77-83	S3	D	70	BSs	
	88-92	S23	D-	20	BNs's	
	95-105	S33	C	240	ANd	
	108-110	S43	D	25	ANb	
	113-124	S53	D-	135	ANd	
	132-154	S76	D	15	BNs's	
	167-200	S68	D-	25	BNs's	
	205-213	S35	C	215	ANd*	
	213-226	S27	D-	195	ASa	
	238-239	S8	D-	5	BNs	
	241-243	S4	D-	35	ASf	
	244-257	N4	D	210	ASa	
	248-255	N4	D	115	ASf	
	256-276	N21	B	385	ANd*	
	290-294	N46	D-	60	ANd	
	299-336	N61	D-	55	BNs's	
May 2	340-342	N84	D	20	BNs	
	359-6	N74	C	280	ANm	
	18-27	N44	C	175	ANd	
	30-48	N27	C	195	BSs's?	
	46-50	N17	D	75	ANc*	
	54-63	N8	D	40	ASa	
	66-79	S7	C	225	ANd	
	82-99	S23	D	30	BNs's	
	100-123	S48	B-	450	ANd	Streamers
	136-161	S78	D-	50	BNs's	
	197-208	S40	C	180	ANd*	
	212-222	S30	D-	35	ASa	
	216-229	S26	C-	140	BSs's	
	222-227	S22	D+	130	ASf	
	238-239	S8	D-	10	BNs	
	263-277	N24	C-	200	ANd	
	278-289	N38	D-	15	BNs	
	291-305	N51	C	225	ANd	
	311-339	N77	D-	45	BNs's	

Date	Spread	Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
May 3	334-357	N80	D-	55	BNs's	
	357-6	N65	C*	270	ANd	
	14-25	N47	B-	430	ANd	
	35-39	N29	D-	50	ANd*	
	44-47	N20	D	65	BSs?	
	59-62	N5	D-	40	ANm	
	77-87	S13	D-	25	BNs's	
	107-119	S47	D	65	ANd	
	133-147	S74	D-	15	BNs's	
	157-175	S75	D-	25	BNs's	
	193-204	S47	D*	110	ANd	
	216-229	S23	C	320	ASf	
	218-224	S25	D*	130	ANd*	
	232-237	S11	D	80	ASa	
	251-259	N7	C-	180	ANc	
	261-292	N28	B	750	ANa*	
	294-311	N53	D*	120	BSs	
	307-316	N66	D-	15	BNs's	
May 5	341-343	N83	D	35	ANm	
	353-4	N67	C*	330	ANd	
	19-33	N40	C	225	ANd	
	39-46	N24	C-	160	ANd	
	48-50	N17	D-	30	BSs	
	50-59	N9	D	160	ASa	
	58-76	0	B-	750	ANd*	Arching streamer
	79-95	S19	D*	160	ASa	
	82-91	S20	D	50	BSs,s	
	102-106	S38	D-	40	ANc	
	111-112	S46	D-	15	BNs	
	160-183	S75	D-	25	BNs's	
	192-195	S53	D	60	ANm	
	196-197	S49	D-	5	BNs	
	199-206	S45	D	55	ANd	
	219-222	S25	D-	30	ASl	
	220-231	S23	D	80	BSs's	
	231-239	S10	D	95	ANd*	
	246-251	N2	D	65	ANc	
	258-269	N15	B-	425	ANd*	
	271-276	N27	D-	25	BSs	
	285-286	N40	D-	10	BNs	
	286-306	N43	B	600	ANd*	Ascending arch
	296-298	N51	D-	45	BSs	
	306-309	N61	D-	30	ANa?	
	327-339	N86	D-	25	BNs's	
May 6	338-350	N83	D-	20	BNs's	
	351-2	N71	C-	135	ANd	
	6-9	N59	D-	20	BNs's	
	16-23	N49	D*	115	ANd	
	32-35	N34	D-	20	BNs,s	
	37-45	N26	D*	300	ANd	Arching streamers
(cont.)	46-51	N19	D-	15	BNs,s	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
May 6 (cont.)	57-66	N8	C	190	ANm*	Streamer
	81-90	S17	C-	200	ASa	
	87-88	S20	D-	15	BSs	
	90-97	S26	C	210	ANd*	
	172-173	S75	D-	5	BNs	
	191-195	S54	D	45	ANm	
	203-207	S42	D	80	BSs?	or ANc?
	208-228	S31	D*	170	ANd	
	242-247	S2	D-	50	?	
	269-280	N27	B-	500	ANd	
	288-292	N42	D-	25	ANd	
	312-335	N75	D-	30	BNs's	
May 7	336-340	N86	D-	15	BNs,s	Poor seeing all day
	9-10	N58	D	10	BNs	
	10-15	N55	D	85	ANa	
	13-18	N51	D*	80	ANd	
	32-49	N27	C-	165	ANd	
	68-70	S2	D	90	ASf	
	76-80	S11	D	50	ANm*	
	80-86	S15	D	85	ASl	
	82-90	S19	D	70	ASa	
	90-100	S30	C-	180	ANd*	
	190-202	S54	C	235	ANd	
	227-230	S19	D	65	ANm	
	233-236	S13	D-	10	BNs,s	
	299-304	N54	D	70	ANd	
May 8	6-15	N57	D*	130	ANd	
	21-22	N45	D-	10	BNs	
	27-30	N39	D-	10	BNs,s	
	31-41	N31	C-	175	ANd	
	50-52	N16	D-	15	BNs	
	59-62	N7	D	20	BSs,s	
	61-67	N4	D-	70	ASl?	
	75-81	S10	D-	80	ASl	
	82 86	S16	D	35	BSs	
	90-94	S24	D*	85	BSs	
	98-101	S33	D-	10	?	
	125-126	S59	D-	5	BNs	
	137-138	S71	D-	5	BNs	
	164-165	S81	D	20	ANb	
	169-189	S67	D-	20	BNs's	
	189-196	S54	C*	300	ANd	
	209-210	S37	D-	15	?	
	214-216	S32	D-	20	ANc	
	220-224	S25	D	25	BSs?	
	225-227	S21	D-	50	ASl?	
	227-235	S18	D-	15	BNs's	
	246-251	N2	D-	15	BNs's	
	255-258	N10	D-	20	ASa	
	261-269	N18	D	60	BSs,s	
	273-281	N30	D-	25	ANd?	or BNs's
	285-305	N50	B-	550	ANd	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
May 9	7-11	N58	D+	100	ANm	Poor seeing all day
	17-23	N46	C	215	ANc	
	32-49	N36	C+	285	ANd	
	55-63	N7	D	90	ANd	
	69-83	S9	C	275	ANd	
	96-97	S30	D-	5	BNs	
	102-108	S39	D+	85	ANd	
	188-196	S55	B-	350	ANm	
	225-233	S19	D	120	ASa	
	241-260	N8	C	250	ANd	
	260-268	N17	D+	130	ANe	
	270-280	N29	C+	325	ANd	Arch
May 10	7-23	N63	C	265	ANd	Poor seeing all day
	33-39	N31	D	60	ANd	
	43-54	N18	D+	120	ANd	
	58-61	N7	D	65	ANm	
	68-84	S8	C	270	ANd*	
	86 88	S20	D-	25	ASl	
	106 111	S42	D	70	ANd	
	175 176	S71	D-	5	BNs	
	188-197	S54	B	400	ANm	
	194-195	S52	D-	5	BNs	
	217-219	S29	D-	25	?	
	221-223	S25	D	20	ANm	
	231-236	S12	D-	30	ASl?	
	236-238	S10	D-	15	BSs	
	242-243	S5	D-	15	BSs	
	248-250	N2	D	30	ANc	
	252-268	N14	C	415	ANm	
	263-268	N19	D	60	BSs,s	
	270-274	N26	D	55	ANd	
	278-283	N33	D+	100	ANd	
	294-297	N49	D+	85	BSs?	or ANm?
May 11	7-24	N54	B-	550	ANd	Arch
	40-44	N26	D-	20	?	
	79-81	S12	D-	40	ANa	
	82-92	S18	D+	250	ANe	
	102-122	S43	B-	425	ANd	
	179-180	S68	D-	10	BNs	
	188-196	S46	C+	300	ANm	
	215-217	S32	D	35	ANc	
	224-226	S23	D	30	ANc	
	240-250	S6	D	85	ANd	
	256-270	N17	C	200	ANd	
	258-268	N23	D+	135	ANa	
	277-284	N33	D+	90	ANd?	
	284-285	N36	D-	40	ANe	
	293-294	N45	D-	30	ANe	
	293-297	N47	D	55	ANm	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
May 12	8-21	N51	C+	280	ANd	
	38-40	N29	D	75	BSs	
	40-44	N26	D	50	ASa	
	55-68	N7	D-	30	BNs's	
	59-61	N8	D	20	ANm	
	80-90	S18	C-	180	ASf,f	
	81-93	S19	D+	110	ANd*	
	99-121	S41	B	660	ANd	
	123-149	S67	D-	35	BNs's	
	187-196	S57	C+	260	ANd	
	209-227	S32	C	525	ANd	Arch
	231-250	S6	D-	60	BSs's	
	261-268	N17	D	130	ASa	
	278-290	N33	D+	165	ASa	
	284-291	N39	D	40	ANd	
	303-305	N56	D-	15	ANm	
	309-311	N62	D-	25	ANc?	
May 13	9-13	N57	D-	40	ANd	Poor seeing all day
	31-34	N35	D-	30	BSs?	
	35 39	N31	D-	100	ASf	
	47-61	N10	C	280	ANd	
	70 76	S5	D+	75	ANd	
	76-88	S12	C	300	ANe*	
	87-94	S22	D	110	ASa	
	91-94	S25	D+	75	BSs	
	100-109	S36	C	270	ANe	
	106-111	S58	B-	350	ANd	
	188-192	S59	D-	20	ANm	
	259-262	N13	D	35	BSs	
	266-283	N25	C-	190	ANd	
	294-297	N48	D+	210	ANc	
May 14	340-341	N87	D-	10	BNs	
	1-2	N66	D-	5	BNs	
	29-39	N37	D-	60	ANd	
	48-53	N17	D	65	ANc	
	56-62	N9	D+	155	ASf	
	67-88	S7	B-	390	ANd	
	82-94	S18	D	130	ASf	
	92-95	S26	D	40	BSs	
	96-99	S30	D	75	ANe	
	100-101	S32	D-	10	BSs?	or BNs?
	113-120	S40	C	130	ANc	
	170-171	S77	D-	15	BNs	
	188-193	S58	D-	55	ANd	
	211-213	S36	D-	30	ANc	
	220-223	S26	D	45	ANd	
	256-271	N16	D	85	ASa	
	272-273	N24	D-	10	BSs	
	278-287	N34	D-	120	ANd	
	299-301	N52	D-	40	ASf	
	304 305	N56	D	20	ANm?	or BSs?

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
May 15	7-17	N57	D-	55	ANd	
	34-39	N33	D-	50	ANd	
	45-54	N20	C	190	ANc	
	54-67	N9	D+	140	ASf	
	66-68	N2	D	50	ANd	
	75-83	S10	C	230	ANd*	
	82-93	S18	D+	135	ASa	
	85-89	S18	D	45	BSs	
	95-99	S28	D	40	ANd*	
	99-100	S30	D	30	BSs	
	161-197	S69	D-	45	BNs's	
	205-215	S38	C-	225	ANd	
	227-231	S20	D-	10	BNs,s	
	232-243	S12	C-	210	ANd	
	260-273	N16	D	110	ASa	
	263-267	N16	D-	80	BSs	
	274-276	N26	D	50	ASl	
	302-306	N55	D	70	ANm	
May 16	337-10	N84	D-	35	BNs's	
	13-19	N54	D	50	ANd	
	32-49	N28	B	650	ANd*	Part ascending
	49-51	N19	D-	20	BSs	
	77-86	S11	C	225	ANd*	
	84-90	S18	D-	35	BSs	
	100-111	S34	D+	125	ANd	
	118-161	S66	D-	70	BNs's	
	172-181	S72	D-	25	BNs's	
	185-188	S62	D	55	ANm	
	193-198	S54	D-	10	BNs,s	
	202-205	S46	D-	30	ANd	
	212-240	S22	D-	25	BNs's	
	244-245	S4	D-	20	ANd	
	250-258	N5	D-	40	ASa	
	260-291	N18	B	550	ANd	
	303-307	N55	D	80	ANm	
	315-336	N75	D-	20	BNs's	
May 17	333-28	N71	D	105	BNs's	
	13-17	N64	D	70	ANm	
	30-40	N36	C	260	ANd*	
	44-47	N23	D	45	BSs	
	49-54	N17	D-	20	ASa	
	54-67	N8	D-	20	BNs's	
	71-84	S10	C+	410	ANd	
	87-90	S19	D-	25	BSs	
	87-90	S19	D-	30	ASa	
	94-103	S30	D-	15	BNs's	
	104-115	S40	C-	180	ANd	
	126-128	S58	D-	30	?	
	130-159	S71	D-	45	BNs's	
	167-181	S77	D-	20	BNs's	
(cont.)	185-191	S61	D+	120	ANm	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
May 17	198-205	S48	D-	30	ANd?	
(cont.)	230-247	S16	D	100	ASa	
	238-243	S7	D	75	ANc*	
	265-293	N29	B+	950	ANd	
	303-307	N56	D	75	ANm	
May 18	333-24	N77	D-	65	BNs's	
	11-15	N57	D	65	ANd	
	29-36	N38	C-	180	ANd	
	41-55	N24	C+	300	ANd	
	56-61	N11	D-	15	BNs's	
	80-89	S13	D+	75	BSs's	
	84-93	S17	D	100	ASa	
	95-98	S27	D-	20	ANd	
	108-116	S41	C-	145	ANd	
	117-119	S48	D-	15	BNs,s	
	170-180	S76	D-	25	BNs's	
	171-174	S78	D	30	ANc	
	185-199	S50	C	190	ANd	
	225-231	S23	C-	90	ANd*	
	229-235	S18	D-	35	BSs,s	
	231-232	S18	D-	20	ASa	
	236-243	S9	D+	150	ANc*	
	247-249	S2	D-	20	BNs,s	
	260-263	N12	D-	20	ASa	
	267-292	N29	A	1100	ANd	Part ascending
	304-307	N56	D	50	ANd	in arch
	308-327	N68	D-	30	BNs's	
May 19	6-15	N58	D	50	ANd	Poor seeing all day
	24-46	N34	B-	430	ANd	
	84-104	S22	C+	280	ANd	
	109-117	S43	D+	125	ANd	
	179-198	S62	D-	30	BNs's	
	213-223	S32	C	245	ANd*	
	225-238	S18	D	130	ASa	
	246-248	S3	D	55	BSp?	
	265-269	N17	D	50	ANm	
	284-293	N39	D	80	ANd	
May 21	5-6	N64	D-	10	BNs	
	17-18	N53	D-	15	ANm	
	31-36	N31	B-	330	ANd*	Arching streamer
	32-35	N37	D	70	BSs?	or ANm?
	68-85	S5	B	650	ANd	
	79-96	S17	C-	170	ANd	
	112-117	S44	D+	90	ANm	
	207-215	S39	C-	18[illegible]	ANd*	
	217-224	S30	D	130	ASl	
	232-233	S17	D-	10	BNs	
	242-243	S7	D-	15	?	
	254-258	N6	D-	80	ANe	
	256-260	N9	D	65	ANc	
(cont.)	268-277	N22	C	185	ANd	

Date	Spread	Lat. of Center of Intensity[c]	Importance	Area in p.u.	Class	Comments
1956						
May 21	281-283	N32	D-	15	BSs?	
(cont.)	282-297	N42	C+	270	ANd*	
	300-305	N53	D-	15	BNs's	
May 22	19-21	N51	D-	20	ANm	
	30-41	N36	B	400	ANd	Arch
	45-52	N20	D	75	ANc	Streamer
	64-71	N4	D	110	ANa	
	79-89	S14	C	200	ANd*	
	88-90	S18	D	65	BSs?	
	96-104	S32	D	85	ANd	
	112-132	S49	B+	550	ANd*	
	116-121	S48	D-	125	ASl	
	191-192	S60	D-	5	BNs	
	203-210	S44	D+	110	ASf	
	208-226	S36	D+	125	ASl	
	210-226	S34	D+	115	BSs's	
	250-258	N2	D-	30	BNs's	
	258-264	N10	D+	110	ANd*	
	258-277	N19	C	265	ASa	
	280-288	N36	D-	35	ASa	
	283-287	N34	D-	20	BSs's	
	294-302	N45	D+	125	ANm	
May 23	343-6	N77	D-	35	BNs's	
	14-16	N56	D	50	ANc	
	18-23	N50	D	25	BNs's	
	33-45	N32	C+	300	ANd	
	52-58	N16	D+	130	ANc*	
	58-61	N12	D	30	BSs	
	63-76	N3	B-	550	ANc*	
	70-77	S2	D-	15	BNs's	
	79-81	S9	D	35	BSs	
	81-95	S16	C	185	ANd	
	112-120	S45	C-	145	ANd	Streamer
	204-213	S43	D+	130	ANd	
	221-223	S29	D-	25	ASf?	
	221-225	S29	D-	20	BSs's	
	230-238	S16	C-	160	ANd	
	251-253	N1	D	70	ANc	
	268-278	N20	C-	150	ANd	
	290-305	N46	C-	180	ANd	
	3-[illegible]34	N82	D-	5	BNs	
May 24	336-27	N71	D+	95	BNs's	
	12-15	N58	D	60	ANd	
	28-61	N31	B	750	ANd	
	67-90	S7	D	65	BNs's	
	69-71	N1	D-	25	ANc	
	80-86	S12	D	75	ASa	
	90-94	S22	D+	120	ANc*	
	94-113	S31	D-	35	BNs's	
(cont.)	114-123	S47	C+	300	ANd	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
May 24 (cont.)	124-161	S69	D-	75	BNs's	
	165-202	S69	D-	35	BNs's	
	204-206	S46	D-	15	ANm	
	219-226	S29	C+	260	ASf	
	227-244	S14	C	240	ANd	
	253-285	N20	D-	55	BNs's	
	286-289	N37	D-	60	ASa	
	289-297	N41	D+	130	BSs,s?	or ANd?
	299-335	N65	D-	45	BNs's	
	304-306	N54	D	25	ANm	
May 25	338-341	N88	D	70	ANa	Poor seeing all day
	358-360	N13	D-	35	ANb,b	
	15-18	N55	D-	30	ANd	
	17-22	N54	D-	60	ANe	
	23-49	N36	B+	950	ANd*	Arch
	50-52	N21	D-	25	BSs	
	52-54	N19	D-	30	ASa	
	60-62	N11	D-	15	ASa	
	68-69	N4	D-	15	?	
	77-79	S6	D-	30	ANm	
	81-86	S12	D-	50	ASa	
	86-89	S15	D	40	BSs	
	89-94	S20	D+	150	ASl	
	119-123	S49	D-	50	ANd	
	176-177	S76	D-	5	BNs	
	192-196	S58	D	65	ANd	
	208-209	S44	D-	5	BNs	
	215-226	S33	C+	275	ANd*	
	217-225	S28	D	80	ASf	
	228-250	S23	D	25	BSs?	
	265-272	N16	D	85	ANa	
	284-287	N34	D-	35	?	
	296-298	N45	D-	25	ANd	
	305-309	N55	D-	55	ANc	
	313-318	N67	D-	15	BNs's	
May 26	23-28	N47	D-	15	BNs's	Poor seeing all day
	25-37	N38	D+	115	ANe	
	92-106	S27	C-	200	ANd	
	189-206	S59	D	55	ANd	
	206-219	S39	D+	130	ANd*	
	221-225	S28	C-	170	ASf	
	229-232	S22	D-	40	?	
	252-254	N1	D	50	ANc	
	268-271	N17	D-	20	BSs,s	
	271-274	N20	D	45	ANc*	
	274-276	N23	D-	30	ASa	
	279-296	N37	D+	155	BSs's	
	307-327	N64	D-	35	BNs's?	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
May 27	18-21	N53	D	85	ANc	
	22-24	N49	D	35	BSs?	
	30-43	N31	C*	280	ANd*	
	48-50	N23	D	40	BSs	
	49-55	N21	D	55	ASl	
	58-61	N13	D	40	ANd	
	83-86	S13	D-	20	ASa	
	88-112	S28	A-	1250	ANd*	
	119-135	S53	D-	15	BNs's	
	167-200	S67	D	60	BNs's	
	203-217	S45	D	110	ANc	Streamer
	222-224	S29	D	35	ANm	
	228-232	S22	D*	70	BSs?	
	239-262	S3	C*	325	ANd	
	267-274	N18	D-	20	BNs's	
	271-274	N21	D-	15	ASa	
	279-285	N30	D*	65	BSs,s	
	286-288	N35	D-	20	ASa	
	288-307	N46	B-	375	ANd*	
	312-330	N64	D-	20	BNs's	
May 28	336-14	N80	D-	70	BNs's	
	18-20	N54	D	60	ANc	
	23-26	N49	D	75	ANm	
	31-41	N37	C*	230	ANd	
	47-48	N26	D-	25	ASa	
	49-54	N23	D-	65	BSs	
	78-85	S8	D*	130	BSs?	
	92-115	S28	A	1300	ANd	
	121-128	S51	D	90	ANd	
	128-131	S57	D-	10	BNs,s	
	170-198	S71	D-	20	BNs's	
	200-206	S48	D-	45	ANc	Faint streamer
	224-236	S23	D*	130	ANd	
	243-245	S9	D-	45	?	
	249-271	N5	C	415	ANd	Streamer
	273-283	N25	C	175	ANd*	
	285-288	N33	D	40	ASa	
	288-306	N45	B	750	ANd*	
	299-331	N67	D-	15	BNs's	
May 29	335-9	N85	D-	40	BNs's	
	10-13	N61	D-	30	ANm	
	20-39	N39	C*	475	ANd	
	41-45	N30	D-	30	ASa	
	44-46	N28	D-	10	BSs	
	47-54	N20	D*	120	ANd*	Streamer
	61-72	N7	D-	40	BNs's	
	80-89	S10	C	235	ASf?	
	100-104	S29	D-	10	BNs	
	108-130	S43	B*	750	ANd	
	131-157	S69	D-	30	BNs's	
	176-195	S73	D-	20	BNs's	
	197-199	S55	D-	25	ANc	
(cont.)	210-215	S40	D*	115	ANc	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
May 29	223-228	S27	D+	90	ANd*	
(cont.)	229-237	S22	D	100	ASa	
	238-245	S11	D	110	ANd	
	245-246	S7	D-	30	BSs	
	246-249	S6	D	115	ANc*	Streamer
	257-286	N22	B+	750	ANd	Streamers
	291-304	N46	B+	775	ANd	Asce ding arch
	311-334	N72	D-	40	BNs's	
May 30	336-9	N83	D-	25	BNs's	
	10-12	N62	D-	40	ANm	
	27-31	N43	D	45	BSs?	or ANc?
	34-37	N37	D	45	ANd	
	43-58	N24	B-	450	ANd	Streaming
	69-74	N1	D-	15	BNs's	
	75-77	S3	D-	20	ANc	
	87-88	S15	D-	5	BNs	
	90-94	S19	D-	70	ASa?	orANa?
	101-106	S30	D-	20	BNs's	
	110-111	S38	D-	15	ANm	
	120-127	S51	D	90	ANd	
	133-147	S67	D-	50	BNs's	
	166-201	S78	D-	60	BNs's	
	206-217	S40	C+	300	ANd	
	225-228	S26	D-	10	BNs,s	
	232-235	S20	D-	30	BSs,s	
	235-241	S15	D	65	ANe*	
	235-248	S12	C	225	ANd*	
	258-273	N16	C-	250	ANd	Arching streamer
	270-292	N28	A-	950	ANd	
	300-304	S49	D	85	ANa	
	302-305	N50	D	75	ANe	
	315-335	N73	D-	50	BNs's	
May 31	338-341	N86	D-	25	BNs,s	
	7-13	N64	D+	105	ANd	
	30-38	N39	C+	285	ANd*	Streamer
	41-43	N32	D-	30	BSs	
	44-45	N30	D-	15	ASa	
	44-47	N28	D	30	ANc*	
	57-64	N13	D	90	ASa	
	85-92	S13	D+	150	ASa?	or ASl?
	93-94	S19	D-	15	BSs	
	101-103	S28	D	50	BSs	
	113-115	S40	D-	35	ANm	
	117-118	S43	D-	5	BNs	
	126-131	S54	D	70	ANd	
	188-189	S65	D-	5	BNs	
	207-215	S43	C+	240	ANd	
	225-233	S23	D+	85	BSs	
	226-235	S23	D+	130	ASl	
	238-243	S14	D	75	ASa	
(cont.)	239-249	S9	C	250	ANd*	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
May 31 (cont.)	256-265	N4	D+	160	ANd	
	270-290	N25	A	1200	ANd	
	296-307	N50	C+	275	ANb	Streamer
	318-324	N67	D-	25	BNs,s	
June 1	338-4	N84	D-	55	BNs's	
	8-16	N62	C-	165	ANd	
	27-43	N39	B	500	ANd	
	68-85	S2	D	80	BSs's	
	71-76	N1	D-	90	ASa	
	88-97	S18	D	200	ASa	
	113-117	S41	D-	15	BNs,s	
	127-131	S55	D+	60	ANm	
	139-140	S65	D-	10	BNs	
	206-211	S46	C-	150	ANd	
	212-226	S35	D-	20	BNs's	
	223-235	S23	D	210	ASa	
	230-234	S22	D-	15	BSs	
	236-249	S10	D	170	ANd?	
	255-258	N3	D	75	ASf	
	260-268	N10	D	55	BSs,s	
	273-292	N28	A-	1100	ANd	
	301-302	N48	D-	25	BSs	
	303-315	N54	C+	325	ANd	
June 2	359-60	N75	D-	10	BNs	
	9-16	N62	C	160	ANd	
	26-35	N45	C	170	ANd*	
	35-40	N38	C-	140	BSs	
	40-49	N35	C	200	ANc*	
	44-46	N30	D	40	BSp	
	48-53	N25	D	75	ANd*	
	55-66	N20	D	80	ANd	Streamer
	88-92	S15	D	70	ANd	
	107-108	S32	D-	15	BNs	
	119-123	S36	D	80	ANc	
	167-178	S83	D-	15	BNs's	
	205-220	S52	C	220	ANd	
	223-226	S31	D	40	BSs?	or ANm*?
	225-283	N19	C	315	ASl?	Wide and high
	241-246	S12	D	90	BSs	
	269-292	N22	B-	475	ANd*	
	288-294	N36	D	80	ASl	
	307-309	N53	D	40	BSs?	or ANc?
	310-315	N58	D+	150	ANd*	
June 4	9-21	N60	B-	480	ANd	
	27-52	N38	C	325	ANd	
	88-93	S16	D	65	ANd	Poor seeing
	97-104	S26	D+	90	ANd?	" "
	109-125	S43	B+	1050	ANd	" "
	204-208	S49	D	50	ANm	" "
	221-254	S15	C+	335	ANd	" "
	278-293	N29	C+	440	ANd	Streamers
	302-322	N56	C	175	ANd	Poor seeing

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
June 6	353-7	N76	D-	35	BNs's	
	11-26	N58	B	625	ANd	Arch
	34-35	N41	D-	20	ANc	
	46-53	N27	D	90	BSs's	
	48-54	N26	D-	60	ASa	
	54-61	N19	D-	15	BNs's	
	77-91	S5	B-	525	ANc*	Part ascended
	94-106	S25	D-	40	BSs's	
	94-108	S25	D	250	ASa	
	111-132	S47	B+	800	ANd*	
	137-153	S69	D-	25	BNs's	
	161-197	S73	D-	45	BNs's	
	200-208	S52	C	225	ANd	
	210-212	S45	D-	20	ANc	
	215-222	S37	D-	20	BNs's	
	225-235	S26	C-	230	ASl?	
	230-240	S24	D	55	BSs	
	252-253	S4	D-	10	BNs	
	262-264	N7	D-	20	BSs	
	264-270	N12	D+	130	ASf,f ?	
	282-290	N30	D	75	ANd	
	295-306	N44	C-	160	ANe	
	300-305	N46	D	120	ANd	
June 7	343-1	N66	-	30	BNs's	
	9-26	N59	B	550	ANd	
	28-44	N43	C+	255	ANd	
	44-49	N30	D	35	BSs's	
	48-53	N24	D+	115	ANb*	Streamers
	56-60	N19	D-	10	BNs's	
	80-100	S14	C+	275	ASl	High loops
	95-104	S23	B-	350	ANd*	
	103-112	S31	D-	20	BNs's	
	112-114	S37	D-	25	ANc	
	118-135	S47	B	550	ANd	
	136-155	S69	D-	35	BNs's	
	170-201	S73	D-	40	BNs's	
	203-210	S49	C	240	ANd	
	226-228	S29	D-	30	ASf	
	232-240	S22	D-	60	ASa?	
	238-239	S17	D	25	BSs	
	242-245	S13	D-	40	ANc*	
	246-263	S1	D-	50	BNs's	
	264-281	N15	B	550	ANd*	
	284-290	N30	D+	190	ASa	
	291-292	N35	D-	10	BNs?	
	298-300	N43	D-	30	ANe	
	299-303	N45	D	40	ANd	
	310-313	S55	D-	50	ANd	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
June 8	339-343	N84	D-	10	BNs,s	
	6-34	N65	B+	950	ANd	
	39-49	N40	D	75	ANd	Streamer
	50-53	N26	D-	20	BSs	
	59-61	N20	D-	40	ASa	
	85-107	S22	B-	380	ANd	
	117-131	S49	B	500	ANd	Arch
	202-208	S52	C-	170	ANd	
	249-251	S5	D-	10	ANm	
	270-283	N20	C	270	ANd	
	292-305	N43	C-	250	ASf,f	
	296-310	N51	D-	10	BSs?	or BNs's
June 9	345-12	N77	D-	35	BNs's	
	17-21	N59	D	70	ANm	
	29-38	N42	D	75	ANd*	
	34-42	N38	D	115	ASa	
	41-49	N33	C-	325	ANd*	
	51-62	N19	D+	95	BSs,s	
	63-72	N10	D-	40	ASa	
	81-85	S5	D-	25	BNs's	
	100-116	S35	C-	170	ANd	
	119-127	S45	D-	25	BNs's	
	127-135	S54	C	200	ANd	
	144-145	S67	D-	10	BNs	
	168-194	S77	D-	45	BNs's	
	200-206	S54	D+	100	ANd	
	229-233	S26	D-	20	BNs's	
	236-239	S20	D	85	ANc	
	249-269	S2	D-	20	BNs's	
	265-274	N11	C-	175	ANd	
	278-281	N22	D-	50	ANc	
	284-294	N30	D	95	ANe*	Streamers
	292-295	N36	D-	25	ASa	
	295-314	N47	C+	375	ANd	
June 10	340-351	N87	D-	15	BNs's	
	17-19	N60	D-	20	ANm	
	30-32	N47	D-	15	ANm?	or BSs?
	33-39	N41	D	85	ANd*	
	37-46	N37	D	120	ANd	
	39-51	N37	C-	185	ASf	
	41-48	N33	D-	35	BSs's	
	54-56	N23	D-	40	ASl	
	57-59	N20	D-	30	ASa	
	61-64	N15	D-	20	BSs's	
	68-90	N4	C-	290	ANd	
	112-121	S38	C	180	ANd	
	129-134	S54	D+	100	ANm	
	201-208	S52	D	85	ANd	
	216-237	S28	B	525	ANd	
	268-274	N12	D+	225	ANd?	
	276-278	N19	D-	15	BSs	
	278-287	N24	C-	180	ASl	
	300-315	N49	C	260	ANd	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
June 11	332-6	N90	D-	55	BNs's	
	10-20	N63	D	80	ANd	
	33-34	N44	D-	10	BNs	
	36-43	N39	C	175	ASf	
	45-55	N30	C+	285	ANd	
	63-70	N10	D+	150	ANc*	
	68-69	N9	D-	25	BSs	
	73-80	0	D	90	ASf	
	79-82	S3	D	135	ANa	
	86-90	S9	D-	30	ASl	
	101-109	S26	D-	30	BNs's	
	116-135	S44	C+	315	ANd	
	175-189	S89	D-	30	BNs's	
	201-204	S56	D-	25	ANc	
	217-249	S31	B+	900	ANd	
	261-265	N5	D	40	ANd	
	277-285	N23	D	55	BSs	
	280-289	N25	D	120	ASl	
	285-310	N39	B-	450	ANd*	
	305-308	N49	D	70	ASf	
	311-313	N54	D	35	ANc	
	315-327	N62	D-	45	BNs's	
June 12	345-358	N87	D-	20	BNs's	
	25-33	N49	D-	10	BNs's	
	37-39	N40	D	45	BSs	
	42-59	N28	D-	30	BNs's	
	54-64	N22	D-	55	ASa	
	55-58	N22	D-	25	BSs	
	63-71	N10	D-	50	ASa	
	74-95	S9	C	235	ANd*	
	83-85	S6	D-	90	ANa	
	97-105	S22	D-	75	ASa	
	103-108	S28	D+	85	BSs?	
	110-117	S36	D	70	ANd*	
	120-138	S47	C	180	ANd	
	132-148	S62	D-	25	BNs's	
	148-150	S71	D-	35	ANa	
	157-206	S71	D-	60	BNs's	
	212-230	S38	C+	245	ANd	
	237-240	S20	D-	50	ANa	
	253-275	N6	D-	25	BNs's	
	280-288	N26	D-	50	ANd	
	291-302	N37	C	200	ANd	Streamer
	308-309	N50	D-	5	BNs	
	312-313	N54	D	50	ASf?	or ANc?
	315-320	N58	D	70	ANd	
June 13	337-6	N89	D-	45	BNs's	
	18-20	N60	D-	40	ANc	
	23-31	N52	D	55	ANd	
	40-57	N32	C+	325	ANd*	
	58-63	N19	D	60	BSs	
(cont.)	60-62	N17	D-	70	ASl	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
June 13 (cont.)	63-64	N16	D-	20	ASf	
	69-87	N3	B	600	ANd*	
	85-88	S7	C-	150	ANc	
	87-96	S12	D	85	BSs	
	88-102	S16	D+	150	ASa	
	106-110	S29	C-	100	ANm	
	109-111	S31	D-	35	ANe	
	110-118	S36	C	250	ANd	
	200-206	S56	D	100	ANd	
	214-223	S43	D	110	ANd	
	233-234	S25	D-	15	BNs	
	243-251	S13	D-	15	BNs's	
	253-255	S5	D-	20	ANc	
	273-284	N17	C	250	ANe	
	278-301	N31	B-	425	ANd	
	312-321	N67	C-	175	ANd	
June 14	345-22	N79	D-	40	BNs's	
	26-30	N51	D-	40	ANm	
	37-52	N36	B	440	ANd	
	58-65	N18	D+	130	ANd	
	70-99	0	A-	1350	ANd*	Arching streamers
	92-96	S16	D-	35	ASa	
	97-103	S20	C+	300	ASl?	
	111-118	S37	C+	230	ANd	Arch
	172-178	S84	D-	15	BNs's	
	203-210	S53	D-	40	ANd	
	215-218	S43	D	65	ANd	
	223-225	S35	D-	10	BNs	
	227-249	S25	D	90	ASa	
	231-235	S25	D+	100	ANc*	Streamer
	238-256	S14	D-	35	BNs's	
	257-258	S1	D-	20	BSs	
	259-262	N1	D-	60	ANa	
	281-300	N31	B-	425	ANd	
	312-320	N59	D+	120	ANd	
June 15	340-12	N85	D-	35	BNs's	
	16-17	N63	D-	20	ANa	
	27-30	N52	D	50	BSs?	or ANm?
	38-56	N35	B-	375	ANd*	
	57-64	N20	D	110	ASf,f	
	73-88	N1	C+	450	ANd*	Streamers
	88-97	S13	C-	175	ASa	
	91-98	S13	D+	140	BSs's	
	96-101	S19	D+	130	ASl	
	108-113	S31	D+	160	ANd	
	116-119	S37	D+	70	BSs?	or ANm?
	154-155	S75	D-	20	ANb	
	172-200	S76	D-	30	BNs's	
	207-211	S52	D	60	ANd	
(cont.)	218-223	S39	D-	10	BNs's	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
June 15	227-241	S22	C	230	ANd*	
(cont.)	237-249	S16	D	115	ASa	
	257-266	N2	D	225	ANd	
	287-296	N28	C	200	ANc*	Streamers
	302-305	N40	D-	40	BSs?	
	309-310	N50	D-	15	BNs	
	316-320	N58	D	70	ANm	
June 18	349-5	N83	D-	10	BNs's	
	21-26	N57	D	65	ANd	
	33-45	N40	D+	115	ANd*	
	41-50	N35	D	175	ASl	
	51-53	N29	D	30	ANc	
	58-61	N21	D-	25	ASa	
	64-67	N15	D	45	ANc	
	70-91	N1	C+	500	ANd	
	125-128	S45	D	40	ANd	
	162-196	S81	D-	35	BNs's	
	198-201	S62	D	45	ANm	
	207-229	S48	B	750	ANd*	Streamers
	232-236	S28	D-	40	ASa	
	240-244	S19	D	75	ANd	
	277-285	N22	D	55	ANc	Streamer
	293-301	N36	D+	110	ANd	
	316-322	N58	D+	130	ANd	
	320-323	N59	D	40	ANb	
	325-345	N71	D-	25	BNs's	
June 20	343-26	N82	D-	55	BNs's	
	31-33	N50	D-	25	ANc	
	42-50	N36	D+	110	ANd	
	51-60	N26	D	100	ANd	
	64-74	N12	C+	330	ANd	
	78-80	N3	D	40	BSs	
	91-105	S19	D+	125	ANd*	
	105-106	S24	D-	20	ASa	
	124-131	S45	C+	210	ANm	
	164-193	S87	D-	50	BNs's	
	194-215	S57	B	750	ANd	Arching streamers
	217-220	S43	D-	25	BSs?	
	225-243	S23	C-	270	ANd*	Arching streamers
	243-249	S17	C-	175	BSs	
	250-262	S5	C-	290	ANd	
	276-282	N17	D-	85	ASa	
	295-311	N42	C-	210	ANd	
	311-323	N57	B-	450	ANm	
	324-339	N67	D-	20	BNs's	
June 21	342-351	N85	D-	15	BNs,s	Poor seeing all day
	21-43	N52	D	280	ANd	Streamer
	27-33	N53	D	120	ANe	
	39-55	N35	C-	235	ANd	
(cont.)	77-78	N4	D-	15	ANc	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
June 21	87-89	S6	D-	10	BNs,s	
(cont.)	105-110	S25	D+	140	BSs	
	113-117	S33	D	65	ASl?	
	125-131	S45	C	180	ANm?	
	195-202	S64	C+	275	ANm?	
	205-210	S55	C-	165	ANe	
	209-217	S51	C	225	ANd	
	229-247	S31	C+	650	ANd	Arching streamers
	256-257	S6	D-	5	BNs	
	266-268	N5	D-	20	ANm	
	274-276	N13	D-	40	ASf	
	297-311	N40	C+	375	ANd	
	312-323	N56	B-	450	ANd	
June 22	340-21	N83	D	85	BNs's	
	33-47	N46	C+	550	ANd*	Arching streamers
	51-53	N31	D-	20	ASa	
	71-101	S2	D-	55	BNs's	
	106-113	S27	C	120	BSs's	Flare
	108-112	S27	D-	30	ASa	
	125-126	S42	D-	10	BNs	
	137-142	S56	C	135	ANm	
	143-167	S73	D-	30	BNs's	
	168-197	S81	D-	45	BNs's	
	198-207	S58	C	225	ANd	Arching streamer
	212-214	S50	D-	15	ANc	
	220-229	S38	D-	20	BNs's	
	231-249	S20	C+	350	ANd	Arching streamers
	260-262	S2	D	100	ANa	
	267-278	N10	C-	155	ANd	
	281-288	N21	D-	20	BNs's	
	290-292	N28	D	70	BSs	
	297-311	N40	C	180	ANd	
	308-323	N55	B	525	ANd	
	327-340	N70	D-	20	BNs's	
June 25	348-8	N86	D-	25	BNs's	
	22-31	N58	C+	350	ANd	
	38-47	N42	D	80	ASa	
	47-54	N32	D	35	BSs	
	64-65	N19	D-	20	BSs	
	64-72	N16	C+	300	ANc*	
	72-73	N12	D-	15	BSs	
	90-98	S10	C-	175	ANd*	
	95-103	S13	D	85	ASl	
	116-126	S36	C+	400	ANd	
	133-136	S50	D	40	ANm	
	177-178	S86	D-	10	BNs	
	202-223	S49	B+	950	ANd	Arch
	240-241	S23	D-	30	ASa	
	243-249	S18	D+	105	BSs	
(cont.)	248-258	S9	D	160	ASf	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
June 25	253-260	S10	D	75	BSs	
(cont.)	268-276	N8	D	110	ANd*	
	276-283	N16	D-	60	ASa	
	297-320	N42	B-	390	ANd	Streamer
June 26	20-33	N58	B-	475	ANd	
	36-50	N41	C+	315	ANd	
	58-65	N22	C	210	ANd	
	64-81	N14	C+	950	ANd	Ascending
	88-89	S3	D-	10	BSs	
	92-106	S13	D	250	ASl	
	114-126	S36	B-	425	ANd	
	134-136	S50	D-	20	ANm	
	144-162	S66	D-	25	BNs's	
	163-166	S80	D-	15	BNs,s	
	200-206	S62	D	100	ANd	
	209-233	S48	A	1200	ANd*	Part ascending
	234-244	S25	D-	75	ASl	
	237-242	S26	D-	90	ASa	
	241-248	S21	D	65	BSs	
	245-259	S14	D-	85	ASa	
	255-260	S7	D	50	ANc*	
	264-265	0	D-	20	BSs	
	266-287	N10	D+	100	BSs?	
	280-283	N16	D-	20	ASa	
	286-287	N22	D-	10	BSs	
	301-315	N42	B	575	ANd	Arches
	318-321	N54	D	35	ANm	
June 27	20-33	N57	B	500	ANd	Poor seeing all day
	49-57	N32	D-	45	BSs	
	52-56	N31	D-	50	ASa	
	64-66	N20	D	45	?	
	74-82	N7	D	60	ANd	
	86-103	S11	C-	300	ANd	Arch
	122-127	S40	C-	160	ANd	
	201-202	S63	D-	10	BNs	
	214-229	S45	B+	800	ANd*	Ascending arch
	229-248	S25	D	135	ASa	
	244-250	S18	D	80	ANd*	
	262-269	S1	C-	165	ANd*	
	269-285	N13	D	100	ASa	
	274-277	N10	D	35	BSs	
	288-297	N26	C	200	ANd	
	305-313	N45	C+	375	ANd	Arch
June 28	355-15	N79	D-	30	BNs's	
	16-35	N60	B	700	ANd	
	41-46	N43	D-	10	BNs's	
	52-54	N33	D	55	ASa	
	55-59	N29	D	80	ASl	
	57-58	N29	D-	20	BSs	
	66-69	N19	D-	35	ASa ?	
(cont.)	77-82	N5	D	100	ANc	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
June 28 (cont.)	87-98	S4	C-	325	ANd*	
	98-107	S17	C-	165	ASa	
	108-114	S23	D+	90	BSs	
	119-135	S45	C	265	ANd*	
	123-131	S40	D+	150	ASl	
	126-129	S41	D+	80	BSs	
	217-229	S44	C+	450	ANd*	Arch
	229-233	S36	D	65	ANc*	
	230-249	S29	C	200	ASa	
	243-245	S22	D	30	BSs	
	262-269	0	D+	135	ANd	
	274-301	N25	B	500	ANd	
	307-315	N47	B-	375	ANd	Arch
June 29	15-29	N63	C	250	ANd*	
	29-35	N53	D-	55	ASl	
	36-60	N41	D-	60	BNs's	
	46-49	N39	D-	30	ANc	
	64-67	N21	D	45	ASa	
	68-69	N18	D-	15	BSs	
	75-77	N10	D-	60	ASf	
	91-104	S10	C+	310	ANd*	
	98-105	S16	D	55	ASa	
	106-116	S24	D+	165	BSs's	
	118-139	S42	B	850	ANd*	
	144-149	S61	D-	10	BNs,s	
	171-172	S86	D-	25	ANc	
	193-205	S68	D-	15	BNs's	
	211-225	S47	C+	350	ANd	
	229-255	S17	C+	325	ANd	
	266-268	N1	D-	20	BSs	
	274-280	N10	D	75	ANd	
	288-302	N31	C+	300	ANd	
	314-318	N50	D+	105	ANc	
June 30	0-6	N84	D-	15	BNs's	
	20-27	N63	D	100	ANd	
	41-42	N46	D-	5	BNs	
	45-50	N40	D	100	ANc	
	70-80	N10	D-	150	ANc?	
	92-95	S6	D	85	ASf	
	95-100	S10	D+	130	BSs?	
	101-123	S36	B	600	ANd	Streamer
	120-139	S45	C+	375	ANd	Streamers
	175-176	S87	D-	5	BNs	
	192-193	S75	D-	10	BNs	
	216-222	S48	D-	55	ANd	
	231-256	S24	B	600	ANd	Streamer
	247-278	S7	A	1600	ANd	
	297-298	N30	D	20	ANa	
	301-304	N35	D-	20	ANm	
	314-318	N49	D	70	ANm	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
July 1	10-11	N76	D-	15	?	Poor seeing all day
	21-25	N64	D+	100	ANm	
	45-46	N41	D-	15	BNs	
	58-64	N25	D	40	ANd	
	80-83	N5	D	75	ANd	
	95-99	S10	D	100	ANc	
	106-122	S25	B+	675	ANd	Streamer
	131-139	S46	C-	200	ANc	
	211-220	S54	D	120	ANd	
	230-243	S31	B	550	ANd	
	249-264	S13	B	550	ANd	
	266-267	S1	D-	20	BSs	
	275-278	N9	D	80	?	
	301-304	N35	D	25	ANc	
	314-317	N49	D-	15	BNs's	
	327-328	N60	D-	10	BNs,s	
July 2	14-24	N69	D+	165	ANd	
	48-51	N38	D-	30	ANm	
	77-93	N6	B	750	ANd	
	104-109	S20	D-	15	BNs,s	
	113-141	S42	C+	325	ANd	
	168-176	S84	D-	25	BNs's	
	205-221	S58	C+	400	ANd	
	230-257	S31	B-	575	ANd	
	256-259	S9	D	90	ASa	
	266-268	0	D-	50	ANc	
	275-277	N9	D-	35	ANc	
	286-291	N22	D-	40	ANd	
	299-304	N35	D	80	ANc?	or BSs?
July 3	338-14	N86	D-	60	BNs's	
	16-26	N67	C	180	ANd	
	36-47	N47	D-	20	BNs's	
	49-51	N38	D-	35	BSs	
	52-67	N34	D-	10	BNs's	
	58-62	N28	D-	35	ANd*	
	60-67	N24	D	160	ASa	
	66-72	N19	D-	25	BNs's	
	78-102	N4	B	800	ANd	
	115-147	S43	B-	700	ANd	Streamers
	153-203	S87	D-	40	BNs's	
	204-228	S53	D-	40	BNs's	
	214-216	S53	D-	20	ANm	
	232-244	S32	C+	475	ANd	
	260-272	S3	D-	75	ANd	
	279-286	N14	D	65	ASl	
	286-287	N19	D-	10	BSs	
	290-323	N34	C+	325	ANd*	
	311-316	N46	D+	150	ASf	
	322-337	N60	D-	15	BNs's	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
July 4	335-16	N86	D-	45	BNs's	
	20-25	N66	D+	85	ANb	
	25-27	N62	D-	20	ANm	
	35-37	N52	D-	10	BNs	
	44-54	N39	D	90	ANd	
	54-63	N29	D-	15	BNs's	
	64-68	N22	D-	40	ASa	
	66-67	N21	D-	10	BSs	
	71-96	N11	B-	525	ANd	
	96-108	S15	C+	290	ANd*	Streamers
	108-112	S21	D	110	ASa	
	112-126	S30	D+	125	ANd	
	120-145	S46	B	700	ANd	Streamers
	167-209	S84	D-	75	BNs's	
	215-217	S52	D	50	ANm	
	222-247	S36	D-	45	BNs's	
	246-248	S21	D-	35	ANa	
	253-257	S12	D-	50	ANd	
	262-283	N3	D-	45	BNs's	
	284-287	N18	D	65	ANc	
	288-317	N37	B-	475	ANd	
	318-335	N57	D-	20	BNs's	
July 5	0-2	N86	D-	20	ANm	
	23-29	N63	C	180	ANb	
	32-36	N55	D-	15	BNs's	
	40-55	N42	B-	475	ANd	
	60-66	N26	D	60	ANd*	
	66-68	N22	D-	45	ASa	
	71-72	N17	D-	10	BSs	
	94-113	S16	B-	560	ANd?	
	125-145	S45	C+	330	ANd	
	189-201	S77	D-	15	BNs's	
	215-219	S52	D	50	ANd	
	222-232	S42	D	25	BNs's	
	234-245	S28	C-	165	ANd	
	254-266	S9	D-	60	?	Very faint
	271-272	N2	D-	5	BNs	
	295-297	N27	D-	15	ANc	
	303-319	N42	D+	170	ANd	
July 6	334-18	N86	D-	50	BNs's	
	19-30	N62	C+	350	ANd	Arching streamer
	40-52	N44	C	240	ANd	
	61-79	N19	C	215	ANd*	
	69-71	N19	D	40	BSs	
	83-84	N6	D-	5	BNs	
	90-98	S5	D	120	ANd?	
	100-112	S17	C	280	ASf,f	
	114-118	S27	D	65	ANm	
	120-125	S33	D-	15	BNs's	
	128-129	S40	D-	15	BSs?	
(cont.)	133-141	S47	C+	335	BSs?	or ANd?

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
July 6 (cont.)	141-142	S53	D-	10	ANm	
	144-147	S56	D-	60	ASf	
	156-157	S68	D	40	ANm	
	165-208	S86	D-	75	BNs"s	
	203-244	S54	D-	40	BNs"s	
	216-220	S50	D	60	ANm	
	236-238	S32	D-	20	ANm	
	256-278	S9	D-	50	BNs"s	
	284-285	N16	D-	20	ANa	
	305-329	N43	C-	280	ANd	Streamer
July 7	19-34	N61	B	550	ANc	Partial arch
	26-30	N62	D	60	ANd	
	38-42	N49	D-	35	ANd*	
	41-44	N48	D	35	BSs	
	47-55	N40	D+	110	ANd	
	57-58	N33	D-	10	ANa	
	63-79	N16	C	245	ANd	
	80-97	S1	C	225	ANd*	
	86-88	N3	D	60	ASa	
	90-104	S4	D+	375	ASf,f	
	106-114	S20	D+	135	BSs"s?	
	118-123	S29	D	60	ANm	
	134-149	S50	C+	360	ANd	
	218-227	S49	D	85	ANd	
	237-239	S32	D-	10	BNs	
	255-278	S6	B-	475	ANd	
	284-289	N16	D-	115	ANc	
	301-303	N32	D-	60	ASa	
	307-309	N38	D	65	ASl	
	311-316	N43	D	125	ANd*	
	327-334	N60	D-	20	BNs,s	
July 8	341-20	N86	D-	75	BNs"s	
	32-35	N57	D	65	ASf	
	35-48	N49	B	500	ANd*	
	48-53	N40	C	120	BSs	Small flare in loop-shaped surge
	58-62	N31	D-	40	ASa	
	63-69	N23	D	110	ANd	
	71-95	N8	C-	190	ANd*	
	95-104	S7	C	500	ASf,f	
	110-111	S21	D-	25	BSs	
	116-130	S33	C+	325	ANd	
	138-147	S52	B-	450	ANd	
	162-202	S78	D-	60	BNs"s	
	211-235	S46	B	525	ANd	
	242-247	S25	D-	100	ANd	
	248-276	S10	B+	850	ANd	Streamers
	278-292	N14	C-	360	ASa	
	279-292	N14	D-	40	BSs"s	
	292-303	N26	D-	75	ASa	
	295-297	N26	D-	30	BSs	
	307-317	N41	C-	250	ANd	Arching Streamers
	324-340	N22	[illegible]	[illegible]	[illegible]	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
July 9	359-360	N86	D-	10	BNs	
	22-23	N68	D-	15	ANc	
	29-34	N60	D	100	ANd	
	37-49	N48	B-	450	ANc*	
	49-51	N41	D	35	BSs	
	58-60	N32	D-	15	?	
	69-70	N21	D-	25	ASa	
	72-74	N18	D-	20	BSs	
	86-94	0	D	60	ASl	
	97-105	S11	D+	225	ANd	
	109-111	S19	D-	30	ANe	
	112-114	S22	D	15	BSs	
	118-136	S35	B-	375	ANd	
	142-147	S54	C	200	ANd	
	181-182	S86	D-	10	BNs	
	211-216	S58	D	75	ANd	
	219-240	S33	B+	1050	ANd	
	276-279	N7	D-	45	ANd	
	289-296	N21	D-	80	ASl	
	295-298	N26	D-	30	BSs	
	313-320	N45	D	200	ANd	
July 10	338-21	N86	D-	50	BNs's	
	27-49	N51	B	575	ANd	Arch forming
	37-50	N52	D-	30	BSs	
	49-50	N42	D-	25	BSs	
	54-60	N35	D	75	ANd	
	66-67	N25	D-	10	ANm	
	71-74	N19	D-	30	BSs	
	76-82	N13	D-	40	ASa	
	82-84	N8	D-	15	BSs	
	85-94	N3	D-	20	BNs's	
	99-113	S13	D+	350	ASa	
	101-102	S11	D-	10	BSs	
	112-135	S33	B-	425	ANd	
	144-151	S57	C+	300	ANd	
	154-160	S66	D-	10	BNs's	
	167-206	S86	D-	35	BNs's	
	212-217	S57	D	75	ANd	
	222-237	S42	B	650	ANd	Arch
	243-249	S25	D-	45	ASl	
	246-248	S24	D-	25	BSs	
	253-255	S17	D-	30	BSs	
	254-256	S16	D-	20	ASa	
	257-291	S1	D-	50	BNs's	
	305-335	N48	D-	40	BNs's	
July 11	336-25	N86	D-	65	BNs's	
	30-48	N53	B	750	ANd	Arch
	48-70	N34	B	600	ANd	
	72-74	N19	D-	35	ANa	
	75-99	N5	C	210	ANd	
	100-115	S15	D-	40	BSs's	
(cont.)	101-113	S12	D	90	ANa	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
July 11 (cont.)	115-127	S31	C	225	ANd	
	124-138	S39	D+	275	ANe	
	131-136	S40	D	50	ANd	
	139-151	S56	C-	160	ANd	
	151-159	S62	D-	25	BNs's	
	164-203	S86	D-	25	BNs's	
	204-213	S64	D-	30	BNs's	
	213-217	S57	D	85	ANm	
	221-233	S44	C+	415	ANd	Arch
	244-249	S25	D	85	ANd	
	257-264	S12	D	145	ANa	
	272-278	N2	D-	65	ANd	
	280-283	N10	D-	50	ANd	
	291-298	N22	D-	40	ASl	
	292-304	N25	D	90	BSs's	
	312-335	N49	D-	25	BNs's	
	322-328	N52	D	150	ANd	
July 12	3-4	N86	D-	10	BNs	
	32-44	N56	B-	500	ANd	Arch
	51-69	N32	B+	850	ANd	
	79-83	N11	D-	50	ANd	
	93-94	N9	D-	5	BNs	
	99-112	S14	D-	125	BSs's	
	125-142	S40	D+	160	ANd	
	133-137	S43	D+	120	ANe	
	148-154	S58	D	85	ANm	
	168-188	S84	D-	25	BNs's	
	214-218	S56	D+	75	ANm	
	223-226	S47	D-	35	ANd	
	232-250	S29	C+	475	ASa	
	250-261	S14	C	280	ANd*	
	277-279	N6	D-	35	ANc	
	275-290	N9	C-	200	ANd	
	298-300	N27	D-	10	BNs	
	321-330	N53	C-	190	ANd	
July 13	339-25	N85	D-	45	BNs's	
	31-43	N57	C+	300	ANd	Streamer
	52-69	N35	B-	575	ANd	
	99-107	S10	D-	30	ANd	
	120-126	S32	D-	55	ANd	
	131-136	S41	D	80	ANc	
	134-139	S45	D+	100	ANe	
	140-154	S53	D-	65	ANd	
	172-201	S85	D-	45	BNs's	
	215-226	S52	C+	265	ANd	
	233-247	S32	D	100	BSs's	
	234-251	S29	C-	170	ASa	
	251-263	S15	D+	235	ANd*	
	279-281	N8	D-	35	ANa	
	283-284	N12	D-	20	ANc	
	288-294	N19	D-	15	BNs's	
	294-296	N23	D-	15	ANc	
	305-316	N37	D-	25	BNs's	
	325-331	N56	D+	130	ANm	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
July 14	337-22	N86	D-	30	BNs's	
	30-42	N59	C+	325	ANd	
	47-59	N39	C	290	ANe*	
	52-61	N37	D-	55	BSs's	
	65-71	N24	D+	130	BSs?	
	99-106	S8	D	80	ANd	
	108-111	S16	D-	45	BSs	
	123-138	S37	B-	400	ANd	
	137-144	S50	D	80	ANe	
	145-148	S54	D-	20	ANc	
	167-169	S75	D-	35	ANc?	
	170-200	S74	D-	30	BNs's	
	206-216	S61	D	60	ANd	
	219-229	S50	C+	335	ANd	
	232-241	S36	C-	240	ANd	
	248-257	S20	D	100	?	
	266-270	S4	D	110	ANc	
	296-299	N25	D	85	ANc	
	305-323	N41	D-	15	BNs's	
	326-332	N56	D+	140	ANm	
July 15	335-24	N83	D-	60	BNs	
	34-40	N56	D	120	ANd	
	45-59	N41	D-	20	BNs's	
	60-64	N31	D	50	ANd*	
	64-72	N22	D	95	ANb*	Streamer
	70-74	N21	D	70	ASf	
	78-82	N13	D	65	ANc	
	80-86	N8	D	90	ANb	
	101-109	S11	C-	150	ANd	
	114-119	S23	D	85	ANc	
	121-127	S30	C+	350	ANd	
	130-153	S44	D-	45	BNs's	
	162-180	S77	D-	15	BNs's	
	213-217	S58	D	75	ANd	
	222-229	S48	C+	250	ANd	
	232-245	S34	C-	165	ANd	
	248-256	S20	D-	100	ASa	Poor seeing
	271-279	N1	D	125	ANd	" "
	294-305	N28	D-	50	ANd	
	307-316	N38	D-	15	ANd	
	328-335	N58	C	175	ANd	
July 16	337-26	N83	D-	65	BNs's	
	29-36	N61	D-	20	BNs's	
	37-49	N53	C+	325	ANd	
	42-45	N50	D-	30	ANm	
	45-53	N46	D-	25	ANd	
	70-74	N22	D	60	BSs	
	76-86	N12	C+	320	ANd*	
	114-140	S29	B-	410	ANd	
	153-201	S84	D-	35	BNs's	
	205-219	S64	D-	30	BNs's	
(cont.)	224-233	S47	D+	175	ANd	

Date 1956	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
July 16 (cont.)	247-248	S26	D-	15	BNs	
	269-276	S2	D	165	ANd	
	279-287	N8	D	110	ANd	
	288-297	N16	D-	30	BSs	
	292-297	N21	D-	35	ASa	
	307-312	N35	D+	110	ANc	
	331-336	N59	D	75	ANd	
July 17	32-54	N54	B	700	ANd	Streamers
	53-62	N33	D+	145	ASf	Poor seeing all day
	73-82	N17	D	80	ASa?	
	90-96	N1	D	70	ANc	
	111-117	S20	D	80	ANd	
	122-124	S29	D-	35	ANc	
	122-130	S33	D-	110	ANe	
	203-238	S61	B	675	ANd*	
	239-245	S32	D-	50	ASa	
	250-252	S23	D	40	BSs?	
	256-260	S16	D	115	ASa?	
	262-264	S11	D	35	ANc?	
	275-278	N2	D	55	ANd	
	284-291	N13	D	135	ASa?	
	295-316	N28	C+	350	ANd	
	332-336	N60	D	75	ANd	
July 21	335-338	N60	D-	30	ANd	
	357-359	N81	D-	15	BNs,s	
	10-11	N83	D-	10	BNs	
	34-56	N51	D-	25	BNs's	
	55-62	N37	D-	90	ASa	
	68-73	N25	D	70	ANd	
	86-87	N9	D-	20	BSs	
	89-107	N1	D+	150	ANd?	
	97-117	S11	C	225	ANe	
	114-120	S21	D+	120	ANd	
	135-138	S40	D+	85	BSs	
	137-143	S43	D+	130	ANd*	
	166-194	S83	D-	15	BNs's	
	212-223	S59	D	40	BNs's	
	233-239	S40	C-	140	ANd?	or BSs?
	243-244	S33	D-	15	ASa	
	252-278	S9	B-	950	ANd	
	296-305	N25	C	190	ANd	
	313-320	N41	D	100	ANc	
July 22	338-27	N81	D-	50	BNs's	
	27-68	N52	D-	35	BNs's	
	55-60	N40	D-	80	ANa	
	72-74	N24	D-	25	ANm	
	86-105	N2	C	225	ANd	
	105-118	S12	D+	160	ANe*	
	106-113	S11	D	70	BSs,s	
	118-123	S23	D-	55	ANc	
	136-145	S47	C-	160	ANd	
(cont.)	155-206	S81	D-	50	BNs's	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
July 22 (cont.)	220-221	S57	D-	15	BNs	
	227-228	S49	D-	5	BNs	
	234-247	S39	C	250	ANd	
	255-277	S12	C+	475	ANd	
	278-281	N3	D-	40	ANc	
	295-303	N22	D	95	ANd*	
	303-307	N28	D	85	ASa	
	307-326	N37	D-	55	BNs's	
	332-334	N57	D-	30	ANm	
July 25	336-341	N61	D+	140	ANd	
	23-40	N68	C	385	ANd	Streamers
	41-62	N48	D-	25	BNs's	
	69-79	N25	D	100	ANd	
	84-87	N12	D	100	ASf	
	91-104	N2	D-	50	BNs's	
	105-115	S9	D+	140	ANc	
	120-124	S24	D	55	ANm	
	135-139	S38	D	50	ANd	
	141-158	S52	D-	20	BNs's	
	172-196	S86	D-	40	BNs's	
	215-219	S61	D	90	ANm	
	223-230	S52	D	70	ANd	
	240-252	S35	C	250	ANc	Streamer
	274-277	S2	D	50	ANc?	
	280-282	N3	D-	15	BNs	
	298-301	N22	D+	130	BSs	
	298-307	N24	D+	170	ASa	
	315-319	N39	D	80	ANd	
	323-335	N53	D+	170	ANd	
Aug. 3	334-4	N76	D-	15	BNs's	
	36-39	N64	D-	40	ANm	
	48-82	N37	A	1400	ANd	
	83-86	N17	D-	40	ASf	
	85-93	N12	D	120	ASl	
	87-94	N11	D	115	BSs's	
	92-95	N8	D	100	ASf	
	95-101	N4	C	350	ANd*	
	106-107	S6	D-	5	BNs	
	112-118	S14	D	160	ANc	
	121-122	S20	D-	5	BNs	
	126-130	S27	D+	90	ANm	
	140-155	S44	B+	850	ANd	Ascending
	183-187	S82	D-	10	BNs,s	
	222-226	S57	D	65	ANd	
	231-250	S41	B	500	ANd	
	256-258	S24	D	50	ANc	Poor seeing
	265-270	S13	D	100	ANd	" "
	276-281	S2	D	100	ANc	" "
	287-289	N7	D-	25	?	
	319-330	N43	D	85	ANd	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Aug. 4	340-20	N78	D-	75	BNs's	
	24-38	N71	D-	40	BNs's	
	38-41	N63	D	60	ANm	
	42-49	N56	D-	10	BNs's	
	50-70	N42	B-	400	ANd	
	72-85	N26	D-	65	ASa	
	80-90	N18	D+	125	ANd*	
	95-103	N2	D	160	ANd	
	114-118	S13	D	120	ANc	
	121-125	S21	D-	40	ANa	
	122-127	S22	D-	10	BNs's	
	129-134	S28	D+	100	ANd	
	136-142	S37	D-	20	BNs's	
	145-156	S47	B	550	ANd	
	167-206	S78	D-	65	BNs's	
	215-217	S66	D-	15	ANc	
	221-226	S59	D	80	ANd	
	233-250	S34	B	675	ANd	
	259-262	S21	D-	25	ANa	
	262-274	S13	D-	15	BNs's	
	278-289	0	C+	380	ANd	Streamers
Aug. 5	334-24	N78	D-	50	BNs's	
	25-38	N72	D-	30	BNs's	
	39-42	N62	D	50	ANm	
	42-49	N57	D-	15	BNs's	
	51-54	N50	D	40	ANm	
	55-62	N43	D+	75	ANm	
	69-81	N24	D-	85	ASa	
	80-83	N21	D-	40	ANm*	
	91-102	N6	D-	20	BNs's	
	99-100	N3	D-	20	ANa	
	104-119	S7	B	400	ANd	
	120-138	S29	D+	135	ANd	
	148-156	S50	C	180	ANd	
	169-202	S81	D-	45	BNs's	
	223-234	S55	D+	160	ANd	
	235-241	S44	D+	120	BSs	
	236-240	S44	D-	30	ASa	
	241-256	S33	B	600	ANd*	
	256-270	S20	D-	40	BNs's	
	274-276	S7	D-	30	ASf	
	284-296	N8	D-	40	BNs's	
	303-305	N22	D-	30	ANm	
Aug. 6	5-25	N83	D-	35	BNs's	Poor seeing
	32-39	N66	D+	120	ANd	
	40-51	N57	D+	110	ANd	
	65-79	N29	D+	225	ANa	
	68-71	N32	D	45	ANc	
	80-85	N19	D	60	ANb	
	95-96	N7	D-	15	?	
(cont.)	118-121	S18	D	50	ANa	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Aug. 6 (cont.)	127-130	S27	D	65	ASf	
	130-139	S33	D+	100	ANd*	
	149-157	S51	C	220	ANd	
	190-196	S84	D-	10	BNs's	
	217-225	S61	D-	15	BNs's	
	219-220	S63	D-	20	ANc	
	235-245	S43	C-	160	ANd	
	243-257	S32	B	650	ANd	
	266-278	S11	D-	15	BNs's	
	283-297	N10	B-	450	ANd	
	306-308	N25	D-	15	ANm	
	315-321	N34	D-	45	ANa	
Aug. 7	341-342	N58	D-	15	ANm	
	36-42	N64	C	175	ANd	
	57-62	N44	D	70	ASl	
	59-63	N42	D	55	ANm*	
	60-67	N38	D+	135	BSs	
	69-77	N30	D+	160	ASl	
	77-80	N25	D-	30	ASa	
	100-109	S1	C	175	ANd	
	111-118	S11	D	65	ANd	
	118-121	S17	D	75	ANm	
	122-136	S27	C	240	ANd	
	137-141	S36	D	80	ANm	
	142-145	S41	D-	35	ANm	
	152-163	S53	C	200	ANd	
	169-186	S72	D-	20	BNs's	
	231-245	S44	C+	325	ANd*	
	244-249	S36	D+	120	BSs	
	266-301	N8	A	1250	ANd*	
	301-310	N23	D	110	ASa	
	306-309	N25	D	65	ASf	
	310-313	N29	D	70	BSs?	
	314-323	N35	D-	80	ASa	
Aug. 8	337-27	N76	D-	45	BNs's	
	35-45	N62	C+	300	ANd	
	50-60	N47	D-	10	BNs's	
	68-75	N32	D	105	ASa	
	75-84	N23	C-	225	ASf	
	93-96	N9	D-	20	ANc	
	106-117	S8	D	50	BSs's?	
	123-145	S29	B	750	ANd	Streamers
	154-159	S54	D	70	ANd	
	164-200	S76	D-	15	BNs's	
	222-225	S60	D-	25	ANm	
	232-247	S46	C+	275	ANd	
	255-290	S5	B	775	ANd	Streamers
	292-302	N13	D	125	ANd	
	326-328	N44	D-	10	ANm	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Aug. 9	343-26	N77	D-	40	BNs's	
	29-35	N72	D-	10	BNs's	
	38-46	N62	C+	290	ANm	
	63-65	N40	D-	10	ANm	
	73-88	N12	D+	200	ANd	
	91-105	N5	C+	380	ANd*	
	105-114	S8	D+	210	ASf	
	111-118	S10	D	90	ANd*	
	116-118	S13	D-	25	BSs	
	128-151	S29	B	675	ANd	
	157-161	S55	D+	90	ANm	
	162-170	S62	D-	60	ANc	Streamer
	171-181	S71	D-	20	BNs's	
	192-194	S84	D-	25	ANc	
	204-235	S68	D-	35	BNs's	
	235-250	S42	C+	320	ANd*	
	247-248	S36	D-	15	BSs	
	252-253	S32	D-	15	BSs	
	254-257	S28	D-	35	ASa	
	269-270	S15	D-	5	BNs	
	273-280	S9	D	100	ANd	
	287-298	N7	D+	155	ANd	
	302-307	N20	D-	50	ANc	Streamer
	315-322	N34	D	75	ANd	
Aug. 10	355-20	N79	D-	15	BNs's	
	40-49	N60	C+	300	ANm	
	64-67	N39	D-	30	ANm	
	76-81	N26	D+	160	ASf	
	87-88	N16	D-	5	BNs	
	90-108	N9	C+	435	ANd	
	116-120	S14	D-	30	ANe	
	136-162	S48	B	650	ANd	
	178-182	S76	D-	10	BNs's	
	217-224	S63	D-	15	BNs's	
	250-259	S29	C-	170	ANd	
	268-276	S13	D+	160	ANd	
	280-295	N4	C	225	ANd	
	299-308	N19	D	95	ANd	
	319-325	N38	D+	140	ANd	
Aug. 11	333-340	N53	D+	120	ANd	
	342-24	N75	D-	25	BNs's	
	41-47	N60	C	200	ANm	
	50-58	N50	D-	10	BNs's	
	63-71	N36	D+	160	ANd	
	76-82	N25	D+	150	ANc	
	92-100	N8	D-	50	?	
	102-104	N1	D-	10	BNs	
	113-134	S16	C+	550	ANd	
	145-158	S47	B-	575	ANd	
	158-166	S59	D+	120	ANd	
(cont.)	224-233	S55	D	85	ANd	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Aug. 11 (cont.)	252-255	S31	D-	40	ASa	
	256-263	S23	D+	125	ANc	
	278-280	S5	D	90	?	
	285-295	N6	C	300	ANd*	Streamers
	295-300	N13	D	120	ASa	
	300-320	N24	C-	165	ANd	
	323-330	N43	D	80	ANd	
Aug. 12	332-351	N54	C	270	ANd	
	41-48	N61	D+	150	ANm	
	64-71	N39	C-	170	ANd	
	86-87	N18	D-	10	ANc	
	119-135	S24	C+	285	ANd	
	143-158	S47	B	850	ANd	
	160-170	S62	C-	180	ANd	
	234-235	S51	D-	10	ANm	
	250-252	S34	D-	20	ANm	
	259-266	S23	D	190	ANd?	
	270-272	S14	D-	5	?	
	276-305	N3	B+	1000	ANd*	
	279-286	S1	C-	165	BSs	
	310-312	N26	D-	35	ANe	
	317-320	N34	D	60	ANc	
	328-330	N44	D	40	ANc	
Aug. 13	337-348	N57	C+	325	ANd	
	353-355	N69	D-	30	ANc	
	356-22	N81	D-	30	BNs's	
	32-43	N68	D-	10	BNs's	
	45-48	N59	D	60	ANc	
	50-56	N52	D-	10	BNs's	
	59-74	N39	C-	250	ANd	
	74-85	N25	D+	125	ANd	Streamer
	88-95	N14	D+	140	ANd	
	100-107	N2	D-	50	ANd	
	127-143	S30	C+	375	ANd	
	141-161	S48	B+	950	ANc	Streamer
	156-204	S74	D-	35	BNs's	
	164-168	S62	D-	50	ANc	
	213-214	S71	D-	5	ANm	
	239-242	S55	D-	20	BNs?	
	258-262	S26	D-	20	ANc	
	267-271	S16	D-	5	BNs,s	
	272-273	S13	D-	10	ANe	
	276-280	S7	D-	30	ANd	
	287-299	N10	C	220	ANd*	
	299-312	N20	D-	80	ASa	Very faint
	302-309	N21	D-	40	BSs's	
	316-318	N32	D-	5	BNs's	
	323-327	N41	D-	25	ANd	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Aug. 15	343-348	N60	C	190	ANm	
	51-71	N44	C	300	ANd	Poor seeing
	75-80	N28	D-	85	?	" "
	86-88	N19	D	80	ANc	" "
	117-118	S12	D-	15	?	" "
	130-135	S26	D	100	ANd	" "
	143-153	S41	D	130	ANd	" "
	169-170	S64	D-	15	BNs	" "
	223-249	S55	B	800	ANd	" "
	267-270	S17	D	80	ANc	" "
	274-297	S2	D+	250	ANd	" "
	319-32[illegible]	N34	D-	30	ANm	
Aug. 16	344-351	N60	C+	240	ANm	
	45-52	N57	D-	35	ANd	
	58-72	N41	B-	525	ANd	
	75-82	N27	D	65	ANd	
	118-120	S13	D-	30	ANc	
	127-134	S25	D+	140	ANd	
	187-188	S80	D-	10	ANm	
	208-217	S72	D-	10	BNs,s	
	225-245	S53	B+	925	ANd	
	248-250	S37	D-	10	BNs,s	
	252-254	S33	D-	30	ANm	
	262-263	S24	D-	5	BNs	
	277-278	S9	D-	25	ANm	
	284-295	N3	D-	50	ANd	
	297-319	N22	C	350	ANd	
Aug. 17	343-353	N61	C-	325	ANd	
	66-77	N36	C	255	ANc*	Streamers
	82-84	N24	D	20	BNs	
	115-122	S12	D	90	ASa	
	118-125	S13	D	85	BSs's	
	148-157	S46	C-	175	ANd	
	161-163	S55	D-	15	ANm	
	203-223	S73	B-	850	ANe	Streamers
	223-242	S53	B+	900	ANd	
	250-257	S34	C-	170	ANd	
	280-286	S5	D+	115	ANd	Poor seeing
	290-308	N16	D+	130	ANd	" "
	314-324	N32	D+	145	ANd	
Aug. 18	343-356	N62	C+	275	ANd	
	6-20	N83	D-	15	BNs's	
	24-45	N72	D-	20	BNs's	
	64-71	N40	D-	45	ANd	
	72-84	N30	C	275	ANd	
	92-93	N14	D-	20	BSs	
	103-105	N3	D-	10	BNs	
	118-121	S13	D-	30	ANd	
	173-199	S78	D-	45	BNs's	
	229-237	S54	C+	360	ANd	
(cont.)	247-255	S34	D+	140	ANd	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Aug. 18 (cont.)	258-260	S28	D-	10	ANm	
	258-270	S18	D-	10	ANm	
	281-296	S3	C+	400	ANd	
	298-310	N16	C+	225	ANd	
	311-329	N36	C+	315	ANd	
	330-342	N49	D-	15	BNs's	
Aug. 22	335-337	N48	D-	20	ANm	
	345-351	N60	D	110	ANd	
	58-70	N44	D	160	ANd	
	74-81	N31	D	25	BNs's	
	86-104	N14	B-	400	ANd	
	110-123	S5	D	110	ASl	
	119-124	S14	D	50	BSs.s	
	129-134	S24	[illegible]	60	ANd	
	142-145	S33	D-	25	ANm	
	145-161	S45	D-	25	BNs's	
	195-200	S53	D-	15	BNs's	
	218-231	S63	D-	120	ANd	Streamer
	234-238	S52	D-	15	BNs's	
	239-253	S43	C	185	ANd	
	266-267	S21	D-	10	BSs	
	267-270	S19	D+	120	ASf	
	270-272	S17	D	40	ASl	
	272-297	S4	B+	900	ANd*	
	301-309	N15	C-	230	ANb*	
	309-313	N22	D+	105	BSs	Surge along loop
	309-315	N25	D	85	ASl	
	315-323	N29	D	110	ASa	
	325-331	N40	D	90	ANa	
Aug. 23	338-22	N73	D-	45	BNs's	
	347-353	N58	D	100	ANd	
	36-53	N63	C+	330	ANd	
	53-73	N47	B-	600	ANd	
	76-82	N30	C-	200	ASf,f	
	90-117	S4	C+	525	ANd	
	120-133	S17	D-	20	BNs's	
	137-149	S34	C	210	ANd	
	152-161	S46	D-	35	BNs's	
	219-227	S60	C-	180	ANd	
	238-244	S48	D	100	ANd	
	246-247	S42	D-	15	BSs	
	253-261	S32	D-	10	BNs,s	
	263-270	S22	D	115	ASl	
	280-282	S8	D-	50	ANc	
	288-307	N6	B	850	ANd*	
	307-313	N23	D-	100	ASa	
	309-316	N23	D	90	BSs,s	
	319-326	N34	D	115	ASf	
	327-337	N42	D	45	ANd	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Aug. 24	338-340	N50	D-	40	ANa	
	346-355	N59	C-	215	ANa	
	355-16	N73	D-	35	BNs's	
	31-35	N75	D-	15	BNs's	
	37-57	N61	B+	800	ANd	Arching streamers
	57-73	N47	B+	700	ANd	between ANd's
	70-76	N37	D+	200	ASf	
	76-86	N30	D+	185	ASa	
	76-82	N30	D-	50	BSs	
	87-109	N11	B-	550	ANd*	
	109-110	0	D-	10	BSs	
	109-113	S2	D	100	ASf	
	113-114	S4	D-	15	BSs	
	114-116	S6	D-	25	ANd	
	121-124	S14	D-	20	BSs	
	127-132	S22	D-	30	ASa	
	131-135	S24	D+	100	BSs	
	138-145	S32	D+	140	ANd	
	151-153	S43	D-	10	ANm	
	155-206	S71	D-	60	BNs's	
	221-226	S66	C	175	ANm	
	253-258	S34	D	70	ASl	
	266-274	S19	D+	135	ASl	
	290-292	N2	D-	15	ANm	
	298-323	N19	B-	475	ANd	
	328-333	N42	D+	180	ANc	
Aug. 25	332-333	N44	D-	15	ANa	
	345-353	N58	C	250	ANd	
	353-24	N74	D-	35	BNs's	
	29-70	N56	A	1250	ANd	Arching streamers
	72-74	N36	D-	5	BNs	
	76-79	N31	D-	25	ASa	
	78-83	N29	D-	50	ASl?	
	81-86	N27	D	75	BSs	
	83-89	N22	D+	120	ASl	
	90-97	N16	D-	60	ASa	
	91-94	N16	D-	35	ANm*	
	107-112	S2	D-	25	ANc?	
	114-117	S6	D-	20	ANc	
	119-123	S12	D-	50	BSs's	
	124-126	S16	D-	40	ASa	
	128-137	S24	D	80	ASa	
	130-132	S22	D	50	BSs?	or ANm*?
	144-157	S41	C	190	ANd	
	157-159	S49	D-	15	BSs	
	164-210	S72	D-	35	BNs's	
	222-231	S62	B-	400	ANd	
	252-254	S36	D-	20	BS-	
	256-265	S29	D+	120	BSs	
	261-269	S24	C	160	ANd*	
	263-273	S22	D-	65	ASa	
	273-281	S12	D	75	ANd	
	307-315	N20	D	60	ANd	
	320-322	N32	D-	25	ANm	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Aug. 26	345-355	N59	B-	475	ANd	Poor seeing all day
	32-66	N58	A	1400	ANd	
	68-70	N40	D-	60	ANc	
	78-85	N29	D+	155	ASf	
	82-86	N25	D	140	ASa	
	85-92	N20	D	100	ANd*	
	86-89	N22	D+	130	ASf	
	95-104	N10	D+	160	ASl	
	96-104	N8	D	90	BSs,s	Surge along loop
	100-104	N7	D	150	ANc	
	105-114	S1	D+	110	ANd	
	119-120	S10	D-	20	ANc?	
	123-137	S20	D-	120	ASa	Very faint
	225-237	S58	B-	425	ANd	
	256-264	S23	C	200	BSs's	
	257-264	S23	D	100	ASa	
	260-270	S26	D	95	ANd*	
	286-291	S1	D	35	BNs's	
	323-325	N35	D	35	ANm	
Aug. 27	343-355	N58	B-	550	ANd	Poor seeing all day
	36-60	N60	B+	950	ANd	
	66-72	N41	D	65	ANd*	
	68-70	N41	D	50	ASl	
	82-90	N25	D	150	ASl	
	82-84	N28	D	45	BSs	
	100-110	N3	C+	450	ANd	
	115-117	S6	D	30	ANc	
	123-128	S14	D	65	ANc	
	137-161	S39	C	250	ANd	
	228-241	S54	B	575	ANd	
	261-266	S26	D+	150	ASl	
	266-270	S22	C	200	BSs	
	311-313	N22	D	60	ANa	
	313-325	N28	D	100	ANd	
Aug. 28	342-355	N56	B-	575	ANd	
	15-16	N81	D-	5	BNs	
	36-50	N64	B	700	ANd	Arch
	72-74	N37	D-	35	ANd	
	78-91	N24	D	180	ASl	
	99-100	N11	D-	10	BNs	
	103-109	N3	D	150	ASl?	
	112-113	S3	D-	5	BNs	
	121-125	S13	D-	20	ANe	
	135-160	S37	C+	375	ANd	
	162-165	S53	D-	10	BNs,s	
	188-189	S76	D-	5	BNs	
	228-241	S55	B-	500	ANd	
	252-257	S37	D-	60	ASa	
	259-262	S30	D-	60	ASl	
	265-268	S24	D	50	BSs	
	280-282	S9	D-	15	BNs	
	284-294	S1	D-	10	BNs's	
	305-306	N16	D-	10	ASa	
	311-325	N23	D-	50	BSs?	
	324-341	N42	C+	375	ANd	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Aug. 29	334-0	N60	B	750	ANd	
	3-27	N79	D-	20	BNs's	
	29-34	N68	D-	10	BNs's	
	36-52	N65	B-	500	ANd	Arch
	61-80	N40	C	275	ANd	
	86-90	N22	D-	20	BSs	
	89-91	N20	D-	25	ASa	
	97-99	N12	D-	10	ANm	
	103-114	N2	C-	375	ANd	
	115-122	S10	D+	90	ANd	
	139-143	S30	C-	160	ANm	
	143-148	S35	D-	20	BNs,s	
	149-151	S40	D-	20	ANm	
	155-165	S48	D	115	ANd	
	173-175	S64	D	40	BNs?	
	176-207	S80	D-	30	BNs's	
	225-242	S54	B	650	ANd	
	243-245	S46	D-	20	BSs	
	248-260	S36	C-	170	ANd*	
	257-264	S30	D	110	ASa	
	287-289	S2	D-	15	ANc	
	298-299	N8	D-	10	BNs	
	304-308	N16	D	90	ASa	
	309-317	N20	C	190	BSs's	
	323-328	N36	D	70	ANd	
Aug. 30	336-340	N48	D-	5	BNs,s	
	344-7	N64	B-	525	ANd	
	10-27	N82	D-	10	BNs's	
	32-35	N75	D-	10	BNs,s	
	38-50	N65	B-	400	ANd	
	62-104	N30	A	1750	ANd	
	110-112	S1	D-	35	ANc	
	113-116	S4	D	65	ANd	
	125-135	S19	D	25	BNs's	
	143-152	S35	C-	135	ANd	
	156-164	S51	D-	50	ANd	
	172-205	S78	D-	55	BNs's	
	227-228	S62	D-	10	BNs	
	233-241	S53	D+	120	ANd	
	248-251	S41	D	50	BSs	
	254-262	S31	D	80	ANd*	
	264-271	S21	D+	140	BSs?	
	273-277	S15	D-	35	ANd	
	293-296	N5	D-	25	BSs	
	302-319	N20	C	260	BSs's	
	315-324	N27	D-	40	ASa	
	318-327	N33	D	130	ANd	
Aug. 31	335-338	N46	D-	40	BSs	
	347-11	N64	C	350	ANd	
	40-50	N65	C+	290	ANd	
	57-87	N51	A-	1150	ANd	
(cont.)	90-107	N7	B-	485	ANb	Streamers

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Aug. 31 (cont.)	116-117	S5	D-	30	?	
	135-140	S26	D	90	ANd	
	150-153	S41	D-	65	ANd	
	168-198	S63	D-	25	BNs's	
	260-262	S30	D-	25	ANe	
	266-269	S24	D-	30	ANd	
	274-279	S14	D-	110	ANd	
	297-325	N19	C+	350	ANd	
Sept. 1	337-338	N47	D-	10	BNs	
	340-344	N52	D-	30	ANd	
	347-354	N59	D-	15	BNs's	
	356-7	N69	D	110	ANd	
	8-27	N81	D-	50	BNs's	
	35-36	N74	D-	10	BNs	
	41-47	N65	D+	130	ANm	
	48-56	N59	D-	25	BNs's	
	56-79	N43	A	1150	ANd	Arch
	87-88	N23	D-	5	BNs	
	96-115	N4	C+	450	ANb	Streamer
	116-118	S6	D-	10	BSs?	
	119-124	S11	D-	40	ASa	
	138-142	S29	C-	140	ANm	
	152-161	S43	D	70	ANd	
	168-172	S59	D-	60	ANc	
	178-216	S83	D-	35	BNs's	
	234-243	S53	D	65	ANd	
	260-262	S30	D	40	ANc	
	266-282	S17	D-	15	BNs's	
	301-309	N13	D+	135	ANd*	
	312-324	N26	D	85	BSs's	
	318-319	N28	D-	10	ASa	
	329-334	N40	D-	40	ASl?	
Sept. 2	334-335	N43	D-	15	ANm	
	341-348	N53	C-	160	ANd	
	351-24	N79	D-	45	BNs's	
	44-49	N64	C-	150	ANm	
	59-68	N48	C	240	ANd	
	86-91	N23	D	45	BSs's	
	93-110	N9	B	850	ANd*	
	111-114	S2	D-	15	ANd	
	116-137	S17	D	115	ASa	
	120-124	S11	D	90	BSs?	
	137-147	S31	C-	170	ANd*	
	158-161	S48	D-	40	ANm	
	162-197	S68	D	80	BNs's	
	228-232	S60	D	40	ANc	
	234-241	S54	C+	340	ANc	
	246-258	S40	C-	150	ANd	
	274-276	S6	D	30	ANc	
	294-315	N13	B-	425	ANd	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Sept. 3	336-348	N51	C	275	ANd	
	356-15	N78	D-	10	BNs's	
	24-28	N81	D-	75	ANc	
	45-49	N74	D	90	ANm?	
	61-70	N47	C+	325	ANd	
	74-78	N35	D	55	ANd	
	83-84	N28	D-	10	ASa	
	84-93	N23	D-	35	BSs's	
	96-108	N11	D+	300	ANd	
	112-122	S6	D-	60	ASl?	Very faint
	126-135	S20	D	90	ASa	
	130-133	S21	D	50	ASl	
	144-151	S37	D+	115	ANd	
	161-163	S51	D-	45	ANm	
	209-210	S79	D-	10	BNs	
	227-228	S62	D-	5	BNs	
	232-235	S57	D	75	ANm	
	235-241	S53	D	100	ANc	
	246-253	S42	D	90	ANd	
	256-258	S34	D-	15	?	
	274-280	S14	D	110	BSs	
	283-284	S7	D-	15	?	
	290-326	N21	B	850	ANd	
Sept. 4	334-25	N67	D-	50	BNs's	
14:43	344-351	N55	C-	170	ANd	
-	45-50	N63	D	60	ANd	
14:52	59-63	N51	D	65	ANd	
U.T.	66-74	N42	D	80	ASa	
	68-71	N42	D	50	BSs	
	80-87	N29	D	75	ANd?	
	93-96	N17	D	30	ANe	
	98-100	N13	D	65	ANb	
	101-129	S2	B-	450	ANd*	
	130-140	S22	C	200	BSs's	
	148-152	S38	D+	65	ANm	
	156-185	S56	D-	35	BNs's	
	162-165	S52	D	50	ANd	
	203-222	S73	D-	20	BNs's	
	224-232	S63	D	70	ANd	
	233-239	S57	C	155	ANm	
	242-250	S46	D+	130	ANd	
	258-260	S33	D-	35	ANm	
	264-305	S5	A-	1550	ANd*	
	305-311	N15	C-	140	BSs's	
	307-316	N18	D+	275	ASl	
	315-322	N27	C-	150	ANd*	
Sept. 4	339-27	N69	D-	50	BNs's	Omitted in the Analysis
14:55	345-351	N56	D	65	ANd	
	47-53	N61	D-	45	ANd	
15:23	59-67	N49	D+	130	ANd	
U. T.	70-72	N41	D	25	ASf	
(cont.)	70-72	N41	D	35	BSs	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Sept.4	85-88	N25	D-	30	ANm	
(cont.)	88-89	N24	D-	15	BSs	
14:55	89-92	N21	D-	25	ASa	
-	94-123	N3	B-	450	ANd*	
15:23	123-125	S12	D-	20	ASa	
U. T.	127-140	S23	C	150	BSs's	
	131-135	S20	D	85	ASl	
	149-152	S38	D	55	ANm	
	161-166	S51	D-	60	ANd	Omitted in the
	180-227	S78	D-	25	BNs's	Analysis
	205-219	S79	D-	30	BNs's	
	223-232	S65	D+	115	ANd	
	232-239	S56	C	185	ANm	
	242-250	S46	D+	170	ANd	
	252-259	S37	D	55	ANd?	
	261-309	S7	A	1850	ANd*	
	310-312	N18	D	30	BSs	
	310-315	N20	D	90	ASl	
	315-322	N25	C	165	ANd*	
Sept. 6	23-24	N83	D-	5	BNs	
	47-50	N62	D	55	ANm	
	63-64	N49	D-	10	BNs	
	70-76	N40	D	65	ANe	
	80-83	N31	D	85	ANm	
	91-110	N12	B	525	ANd	
	121-132	S13	C+	400	ASf,f	
	137-143	S27	D	90	ASl?	
	148-156	S39	D-	10	BNs,s	
	163-168	S53	D	55	ANd	
	228-249	S27	B+	900	ANd	Streamer
	244-255	S42	C+	325	ANd*	
	254-260	S35	D+	115	ASl	
	262-265	S28	D+	150	ASf	
	265-272	S23	D+	135	ASl	
	272-296	S9	B-	800	ANd*?	Faint
Sept. 7	340-18	N66	D-	25	BNs's	
	34-68	N58	D-	30	BNs's	
	48-51	N62	D	40	ANm	
	67-73	N43	D	65	ANd	
	77-89	N31	D+	140	ANd	
	92-97	N18	D+	110	ANd	
	100-114	N1	D-	35	BNs's	
	121-132	S11	C+	285	ANc	Streamer
	148-150	S36	D-	10	ANm	
	162-168	S52	D	60	ANd	
	172-203	S69	D-	35	BNs's	
	210-227	S68	C-	180	ANc	Streamer
	214-215	S76	D-	15	BNs	
	230-232	S61	D+	120	ANb	
	232-251	S55	B	750	ANd	Streamers
(cont.)	247-261	S40	C	250	ANd*	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Sept. 7	254-262	S33	D	85	ASa	
(cont.)	262-272	S25	C	190	ANd*	
	282-298	S2	B-	850	ANd*	
	297-303	N6	D	80	ASa	
	303-307	N12	D	85	ANd*	
	307-313	N16	D+	160	ASa	
	307-317	N18	D	45	BSs's	
	318-323	N29	D+	130	ASa?	or ASl?
	324-330	N33	C-	150	ANd*	
Sept. 16	336-341	N44	D	75	ANd	
	355-6	N75	C+	400	ANd	
	45-48	N67	D-	15	BNs	
	56-65	N55	B-	450	ANc	
	66-84	N39	C+	295	ANd*	
	75-89	N29	B-	400	ANe*	
	95-98	N17	D-	20	?	
	105-122	N1	C+	375	ANd	
	125-130	S13	D	70	ANc	
	139-153	S33	C+	300	ANd	
	160-164	S48	D-	45	ANd?	Poor seeing
	209-210	S81	D-	10	BNs	" "
	249-259	S41	C	185	ANd	" "
	256-268	S32	C-	375	ASa	" "
	271-274	S22	C+	200	BSs	" "
	277-284	S8	D-	90	ANd?	" "
	293-297	N1	D	70	ASa	
	311-321	N22	C-	150	BSs's	
Sept. 17	333-342	N44	C	180	ANd	
	358-10	N69	C+	300	ANd	
	13-21	N79	D-	15	BNs's	
	56-86	N46	B-	600	ANd*	
	86-87	N27	D-	35	ASa	
	92-93	N22	D-	10	BNs	
	106-133	S3	B	900	ANd	Streamer
	144-158	S37	C+	265	ANd	
	160-170	S52	C+	350	ANd	
	209-216	S79	D-	10	BNs's	
	234-240	S57	D	60	ANd	
	254-258	S39	D	55	BSs	
	264-274	S26	C+	450	ASl	
	270-274	S22	D	70	BSs	
	274-280	S16	D+	145	ANb*	
	301-317	N15	D+	200	ANd?	
	333-337	N42	D-	85	ANe	
Sept. 18	332-344	N44	C-	150	ANd	
	346-357	N57	D-	15	BNs's	
	359-14	N71	C+	275	ANd	
	22-8	N76	D-	45	BNs's	
	57-71	N51	B	650	ANd	
	76-87	N34	C	215	ANd	
(cont.)	94-95	N20	D-	15	ASa	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Sept. 18	96-102	N15	D-	15	BNs's?	
(cont.)	104-111	N7	D+	110	ANd	
	112-134	S6	B+	850	ANd*	
	141-146	S30	D-	55	ASa	
	152-157	S40	D+	100	ANm	
	158-172	S50	B-	435	ANd	
	176-204	S72	D-	50	BNs's	
	208-228	S75	D-	50	BNs's	
	232-241	S58	D+	110	ANd	
	242-256	S44	B-	475	ANe	
	248-261	S40	C+	400	ANa	
	254-261	S36	D+	95	ANd	
	261-282	S22	C	250	ASa	
	267-270	S26	C-	160	ASl	
	268-272	S24	D	50	BSs	
	280-289	S8	D+	190	ANd*	
	294-311	N10	C-	380	ANd	
	325-331	N35	D	40	ANc	
Sept. 19	336-338	N42	D-	15	ANm	
	339-341	N45	D-	30	ANe	
	339-26	N64	D-	65	BNs's	
	344-346	N50	D-	20	ANm	
	358-3	N64	D+	110	ANd	
	31-62	N71	D-	35	BNs's	
	66-69	N47	D	50	ANm	
	80-91	N31	D-	35	BNs's	
	94-106	N16	D+	110	ANd	
	109-118	0	C	260	ANd	
	122-129	S10	C+	325	ANd	
	136-146	S26	C-	150	ANd	
	149-157	S37	D-	20	BNs's	
	160-176	S53	C+	380	ANd	
	202-228	S78	D-	20	BNs's	
	235-243	S57	D	90	ANd	
	245-255	S43	D+	160	ANa	
	248-257	S44	B	525	ANe	
	253-259	S39	D+	125	ANd	
	258-266	S31	D-	50	ASa	
	259-261	S35	D-	25	BSs	
	271-283	S17	C	290	ANd	
	288-289	S7	D-	10	BNs	
	300-310	N8	D	180	ANc	
	316-317	N22	D-	10	BSs	
	321-331	N30	D-	25	ASa	
	324-325	N50	D-	15	BSs	
Sept. 20	335-340	N42	D-	45	ANd	
	346-354	N54	D-	20	BNs's	
	357-4	N74	D+	100	ANd	
	6-21	N75	D-	40	BNs's	
(cont.)	37-59	N64	D-	15	BNs's	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Sept. 20 (cont.)	73-76	N41	D-	50	ANc	
	82-85	N32	D-	15	BNs's	
	88-97	N22	D	110	ANd	
	103-112	N9	D	90	ANd	
	114-126	S5	B	700	ANd	
	127-131	S15	D-	50	ASl	
	134-154	S26	D-	30	BNs's	
	157-175	S51	C+	425	ANd	
	235-239	S58	D	65	ANd	
	248-260	S42	B-	425	ANd	
	260-284	S23	C+	400	ANd	
	288-296	S3	D	65	ANd	
	307-323	N16	C+	285	ANd?	
Sept. 21	344-346	N50	D-	15	ANa	
	350-356	N57	D-	15	BNs's	
	356-7	N74	C	180	ANd	
	29-44	N72	D	70	ANd	
	44-67	N56	C+	290	ANd	
	69-70	N46	D-	10	ANm	
	74-76	N40	D-	30	ANc	
	82-84	N32	D-	35	ANm	
	87-92	N26	D-	50	ANd	
	91-92	N23	D-	45	ANa	
	99-113	N9	B-	385	ANd	
	116-128	S7	C-	180	ANd	
	132-139	S21	D+	140	ANd	
	141-149	S31	D	70	BSs	
	153-180	S49	B	550	ANd	
	200-201	S82	D-	5	BNs	
	206-228	S78	D-	35	BNs's	
	235-239	S58	D	85	ANd	
	262-278	S23	B-	390	ANd	
	280-293	S8	D+	235	ASa	
	285-290	S8	D	70	ANd*	
Sept. 22	350-353	N57	D-	15	BNs's	
	356-6	N74	C	215	ANd	
	8-28	N80	D-	15	BNs's	
	30-37	N79	D-	20	BNs's	
	40-70	N55	A-	1250	ANd	
	77-85	N34	C-	160	ANd	
	90-98	N19	D	90	ANd	
	102-117	N5	C+	450	ANd	
	118-126	S5	D	80	ANc*	
	128-141	S19	D	160	ASl	
	131-135	S17	D	90	ANd*	
	144-148	S31	D-	15	BSs,s	
	156-180	S52	B	750	ANd	Arch, streamers
	180-200	S72	D-	25	BNs's	
	202-232	S78	D-	15	BNs's	
	234-239	S58	D	60	ANd	
(cont.)	256-270	S28	C+	275	ASf,f	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Sept. 22	266-274	S25	D+	120	ANd*	
(cont.)	280-282	S14	D	45	ANa	
	285-294	S3	D+	125	ASf	
	297-300	N4	D	75	ASf?	
	303-320	N19	C	250	ASa	
	311-317	N19	D	40	BSs	
	327-332	N35	D	70	ANd	
Sept. 24	348-349	N54	D-	15	BNs	
	352-5	N60	C-	170	ANd	
	21-22	N83	D-	10	BNs	
	36-67	N62	A	1800	ANd	Arch
	79-88	N32	D	85	ANd	
	92-111	N13	B	650	ANd	Arching streamers
	122-147	S17	B-	500	ANd	
	163-174	S54	B-	425	ANd	
	192-193	S77	D-	10	BNs	
	226-235	S63	D	100	ANm	
	250-252	S44	D-	25	ANm	
	254-270	S33	C+	275	ANd*	Streamers
	256-262	S35	D+	120	BSs's	
	271-276	S23	D	90	ASa	
	278-286	S14	D	85	ANc	Streamer
	288-309	N3	C+	390	ANc	Streamers
	302-306	N9	D	80	ANd	
	309-326	N22	C	225	BSs's	
	311-332	N26	D+	315	ASa	
Sept. 25	334-21	N60	D-	30	BNs's	
	353-2	N60	C-	175	ANd	
	21-43	N81	D	25	BNs's	
	24-66	N62	A+	3300	ANd	
	72-76	N41	D-	10	BNs,s	
	79-85	N32	D-	25	ANd	
	96-106	N13	D+	215	ANd	
	125-134	S14	D+	200	ANd	
	143-151	S34	D	70	ANd	
	167-177	S57	C	260	ANd	
	186-187	S71	D-	15	BNs	
	202-215	S86	D-	15	BNs's	
	229-231	S64	D	60	ANm	
	255-264	S38	D	75	ANd	
	268-269	S27	D-	15	ASa	
	270-272	S24	D	75	ASf	
	273-286	S15	C-	250	ANd*	
	304-306	N10	D-	10	ANm	
	311-315	N17	D-	40	ANm	
	321-326	N29	C	170	ASf?	or ANc?
Sept. 26	332-340	N39	D	70	ASa	
	333-336	N38	D	40	ANd*	
	340-342	N45	D-	50	ASf	
	352-358	N59	C	235	ANd	
(cont.)	358-17	N80	D-	35	BNs's	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Sept. 26	29-39	N80	D-	25	BNs's	
(cont.)	50-62	N59	C+	400	ANd	
	67-87	N40	B	770	ANd	
	88-95	N23	C	215	ANc	
	98-107	N12	D-	60	ASa	
	111-122	S1	D+	170	ANd	
	125-141	S12	C-	210	ANd	Streamer
	144-148	S30	D	50	ANd	
	157-161	S42	D-	40	ANe	
	169-176	S55	D	80	ANd	Streamer
	179-180	S62	D-	5	BNs	
	214-231	S74	D-	15	BNs's	
	233-239	S60	D+	120	ANm	
	246-261	S42	D-	15	BNs's	
	260-287	S21	C-	325	ASa	
	299-301	N5	D-	10	ANc	
	311-314	N16	D	50	ANm	
	316-327	N28	C	190	ASf	
	321-327	N28	D+	115	ANd*	
	328-329	N33	D-	20	BSs?	
Sept. 27	333-338	N40	D-	20	BNs's	
	345-2	N58	C	240	ANd	
	25-32	N83	D-	15	BNs's	
	53-64	N58	C	220	ANd	
	68-90	N39	A-	1450	ANd	Arching streamer
	90-101	N21	C+	375	ANb	from ANd to ANb
	102-110	N10	D-	90	ANe	
	120-133	S11	D-	15	BNs's	
	140-142	S25	D-	30	ANm	
	143-152	S31	D-	25	BNs's	
	154-165	S43	D+	150	ANc	
	167-196	S65	D-	20	BNs's	
	207-216	S82	D-	20	BNs's	
	223-232	S68	D-	15	BNs's	
	232-241	S58	C	270	ANd	
	262-269	S29	D-	115	ASa	
	273-284	S16	C	225	ANd	
	312-313	N17	D-	5	BNs	
	321-332	N31	D+	350	ASa	
	322-329	N32	C+	300	ASf	
Sept. 28	339-358	N51	B-	450	ANd	
	6-27	N76	D-	15	BNs's	
	25-48	N79	D-	35	BNs's	
	48-55	N64	D	85	ANd	
	67-90	N37	A	1650	ANd	
	90-100	N21	B	650	ANb	Streamers
	103-107	N10	D-	75	ANd	
	110-117	N3	D-	10	BNs,s	
	121-124	S7	D	40	ANn?	
	125-127	S10	D	30	ANm	
(cont.)	131-147	S21	C-	170	ANd	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Sept. 28	151-154	S36	D	65	ANm	
(cont.)	199-200	S81	D-	5	BNs	
	230-243	S58	C+	375	ANd	
	252-253	S44	D-	5	BNs	
	258-264	S34	D+	120	BSs,s	
	267-269	S28	D-	15	ASa	
	275-285	S14	D-	45	?	
	297-300	N2	D-	15	ANd	
	305-309	N11	D-	10	BNs's	
	312-315	N17	D-	20	ANd	
	313-335	N29	C-	350	ASa	
	320-322	N25	D-	40	BSs	
Sept. 29	341-0	N51	B-	575	ANd	
	31-32	N82	D-	5	BNs	
	54-57	N60	D	15	ANm	
	63-90	N38	A-	1000	ANd	
	90-102	N20	B+	800	ANb	Streamer
	115-120	S1	D-	50	ANc	
	127-138	S16	D	100	BSs's	
	137-142	S24	D-	30	ASa	
	143-149	S30	D-	40	ANd	
	154-158	S40	D	60	ANd	
	204-220	S81	D-	15	BNs's	
	237-244	S55	C-	170	ANd	
	250-269	S36	B-	500	ANd	
	292-297	S2	D+	150	ANm	
	305-311	N12	D-	15	?	
	314-316	N19	D	70	ASf	
	317-336	N29	D	110	ASa	
Sept. 30	340-352	N52	C	250	ANc	Streamer
	356-26	N73	D-	15	BNs's	
	32-60	N70	D-	50	BNs's	
	65-72	N49	D	100	ANd	
	96-113	N12	D+	160	ANd	Streamer
	134-149	S23	C-	215	ASa	
	137-143	S23	D	90	BSs	
	162-164	S47	D	20	ANm	
	171-181	S59	D-	15	BNs's	
	240-267	S41	B+	900	ANd	
	275-286	S14	D+	235	ANd	
	291-301	S1	C	350	ANd	
	303-307	N9	D	40	ANd	
	311-313	N16	D-	20	ANc	
	314-329	N21	C-	325	ASf	
Oct. 1	349-354	N56	D	115	ANc	
	45-55	N65	D+	210	ASf	
	66-74	N47	D+	150	ANd	
	85-87	N30	D-	15	ANm	
	108-110	N7	D-	35	ANm	
(cont.)	123-126	S8	D-	30	ANm	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Oct. 1 (cont.)	134-140	S21	D	100	ANd	
	152-154	S37	D-	40	ANm	
	188-189	S71	D-	5	BNs	Poor seeing
	200-201	S82	D-	5	BNs	" "
	220-226	S72	D	60	ANa	" "
	247-261	S43	B-	400	ANd	" "
	266-278	S22	D+	225	ANd	" "
	280-287	S12	D-	100	ANd	" "
	291-306	N2	C	525	ANd	" "
	315-317	N20	D	40	BSs	
	319-323	N24	D	120	ASf	
	326-332	N33	D-	10	BSs,s	
Oct. 2	335-338	N41	D-	40	ANm	Poor seeing all day
	347-348	N51	D-	15	BNs	
	356-358	N60	D-	5	?	
	49-53	N64	D-	20	ANd	
	65-67	N50	D-	10	?	
	108-114	N5	D-	50	ANd	
	125-132	S13	D	60	?	
	139-141	S24	D-	10	?	Omitted in the Analysis
	149-152	S35	D-	50	ASa	
	153-161	S40	C	170	ANd	
	165-168	S51	D	30	ANd	
	217-218	S77	D-	5	BNs	
	223-230	S68	D+	120	ANc	
	276-290	S16	B	700	ANd	
	299-306	N7	D	90	ANd	
	331-333	N36	D-	20	ANm	
Oct. 3	337-342	N43	D	100	ANc	
	346-352	N53	D	85	ANd	
	29-34	N81	D-	10	BNs,s	
	44-48	N69	D	65	ANd	
	49-60	N61	D-	15	BNs's	
	60-68	N52	D+	90	ANd	
	71-73	N44	D-	25	ANc	
	82-89	N30	D-	20	BNs's	
	90-95	N23	D	60	ANd	
	100-110	N13	D-	10	BNs's	
	125-131	S12	D	85	ANd	
	132-147	S25	D	90	ASa	
	150-158	S38	D	80	ANd	
	163-170	S51	B	550	ANd	
	174-200	S73	D-	25	BNs's	
	200-230	S79	D-	40	BNs's	
	230-233	S63	D-	45	ANc	
	245-248	S50	D	35	ANc	
	257-268	S34	D-	20	BNs's	
	269-275	S25	D	65	ANd	
	277-284	S15	B	600	ASf	
	285-297	S7	B-	600	ANd*	
	301-318	N13	C-	150	ANd	
	324-327	N29	D	40	ANd	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Oct. 4	342-344	N47	D-	35	ANc	
	350-355	N56	D	65	ANd	
	356-25	N80	D-	40	BNs's	
	27-41	N79	D-	20	BNs's	
	45-50	N66	D	80	ANd	
	55-66	N55	D-	60	ANd	
	71-74	N43	D-	45	ANc	
	87-103	N19	D	75	ANd	
	115-120	S1	D-	30	ANd	
	121-143	S14	B-	450	ANd	
	160-167	S47	D	110	ANd	
	167-173	S54	C-	160	ANm	
	180-206	S74	D-	20	BNs's	
	208-218	S80	D-	15	BNs's	
	222-235	S66	D+	130	ANd	
	246-250	S48	D	60	ANc	
	263-265	S32	D-	40	BSs?	
	265-268	S30	D-	30	ASa	
	269-275	S24	C-	160	ANd*	
	274-276	S21	D	55	ASa	
	275-277	S20	D	40	BSs	
	278-286	S15	C+	450	ASf	
	286-294	S7	D+	290	ANd*	
	295-300	N1	D+	170	ANd*	
	300-315	N12	D+	120	ASa	
	303-316	N11	D+	90	BSs's	
	324-326	N29	D-	25	ASa	
	333-339	N41	D-	20	ASa?	
Oct. 5	333-339	N40	D-	100	ASa	
	344-355	N56	D	110	ANd	
	22-31	N84	D-	15	BNs,s	
	42-52	N66	D	125	ANd	
	55-62	N59	D-	10	BNs's	
	78-80	N37	D-	10	BNs	
	85-88	N29	D-	15	BNs	
	90-99	N21	C	170	ANd	
	101-116	N7	C	225	ANd	
	119-144	S14	C+	400	ANd	
	152-158	S38	D	70	ANd	
	160-162	S45	D+	115	ANc	
	164-165	S48	D-	5	BNs	
	168-174	S55	D+	130	ANd	
	177-204	S80	D-	30	BNs's	
	228-229	S67	D-	5	BNs	
	232-238	S60	D+	160	ANd	
	247-264	S39	C+	300	ANd*	
	264-277	S26	C-	170	BSs's	
	268-286	S22	C	350	ASa	
	274-283	S18	D+	110	ASf	
(cont.)	281-286	S13	D	60	BSs's	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Oct.	294-303	N3	C-	175	ASf	
(cont.)	298-309	N6	D	60	BSs's	
	301-313	N9	D+	250	ASa	
	315-322	N24	C+	270	BSs	
	322-329	N29	D+	100	ANd*	
Oct. 7	334-340	N41	D	50	ANd	
	343-354	N55	C-	165	ANd	
	24-45	N80	D-	25	BNs's	
	48-55	N63	D	250	ANm	
	58-68	N54	D-	25	BNs's	
	70-80	N44	C	300	ANc	
	82-88	N41	D	70	ANd	
	90-98	N23	C+	325	ASl?	
	100-110	N14	D-	45	ANd	
	113-116	N2	D-	50	ANm	
	121-123	S6	D-	20	BSs	
	129-147	S20	C	190	BSs's	
	130-149	S21	D	60	ASa	
	171-175	S57	D	45	ANd	
	176-205	S73	D-	40	BNs's	
	221-223	S73	D-	30	ANm	
	228-229	S67	D-	10	BNs	
	233-249	S57	C+	315	ANd	
	261-268	S30	D+	125	ASl	
	268-282	S24	C+	300	ANd*	Streamers
	287-292	S7	D-	45	ANa	
	309-315	N15	D-	25	ASa	
	318-328	N25	D+	100	ANd	
Oct. 8	335-342	N43	D	90	ANd	
	350-358	N55	D-	50	ANd	
	25-43	N80	D-	40	BNs's	
	49-58	N62	C	215	ANd	
	65-72	N49	D+	180	ANd	
	77-83	N36	D-	30	ASa	
	78-85	N35	D-	15	BSs	
	86-92	N27	C+	375	ASl	Arch of funnel
	92-96	N22	B-	400	ASf	and partial loops
	112-115	N2	D-	10	BNs,s	
	135-138	S20	D-	25	BNs's	
	167-168	S51	D-	5	BNs	
	169-174	S55	D	85	ANd	
	180-206	S75	D-	40	BNs's	
	233-251	S54	B	700	ANd	
	264-286	S21	B	650	ANd	
	294-301	N1	D	80	ANd	
	302-316	N10	D-	30	BNs's	
	328-331	N34	D-	20	AN[illegible]	
Oct. 9	343-348	N49	D	65	ANd	
	357-20	N69	D-	15	BNs's	
	21-43	N81	D-	10	BNs's	
	51-55	N61	D+	135	ANm	
(cont.)	59-64	N55	D-	10	BNs's	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Oct. 9 (cont.)	69-83	N40	C+	350	ANd	
	90-93	N25	D	40	BSs	
	91-94	N24	D-	25	ASa	
	96-97	N19	D-	5	BNs	
	115-137	S11	C-	185	ANd*	
	120-127	S7	D	80	ASl	
	132-137	S19	D-	25	ASa	
	164-166	S49	D-	10	BNs	
	171-176	S57	D	65	ANd	
	177-178	S60	D-	5	BNs	
	207-226	S80	D-	10	BNs's	
	231-240	S60	D	105	ANd	
	255-263	S37	C-	175	ANc	
	267-292	S26	B	700	ANd	Streamers
	296-299	N2	D-	50	ANc	
	307-311	N13	D-	10	BNs,s	
	325-326	N30	D-	10	ASa	
	332-334	N37	D-	20	ASa?	
Oct. 10	339-344	N45	D-	10	BNs's	
	346-349	N51	D	70	ANc	
	27-47	N77	D-	35	BNs's	
	52-56	N61	D+	110	ANd	
	57-63	N56	D-	10	BNs's	
	65-71	N47	D	75	ANd	
	73-82	N38	C-	170	ANd	
	88-93	N25	D-	50	ANd	
	94-97	N21	D-	5	BNs,s	
	120-129	S9	D-	15	BNs's	
	131-137	S17	D	75	ASl	
	150-155	S36	D-	10	BNs's	
	160-165	S46	D-	5	BNs,s	
	172-177	S59	D-	25	ANd	
	197-198	S70	D-	5	BNs	
	214-231	S75	D-	15	BNs's	
	235-239	S59	D	80	ANd	
	243-244	S52	D-	5	BNs	
	251-259	S42	C-	170	BSs's	
	251-259	S42	D	80	ASa	
	266-272	S27	D	90	ANd	
	289-292	S5	D+	120	ANc	
	299-333	N23	D-	35	BNs's	
Oct. 11	336-352	N50	D-	15	BNs's	
	30-40	N80	D-	20	BNs's	
	47-57	N64	D	65	ANd?	
	67-76	N45	D	95	ANd*	
	77-84	N38	D-	40	ASa	
	100-111	N10	D-	20	BNs's	
	135-136	S20	D-	15	ASf	
	143-145	S28	D-	15	BNs,s	
	162-175	S52	D-	15	BNs's	
(cont.)	224-225	S71	D-	5	BNs	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Oct. 11	248-255	S45	C	200	ANc	
(cont.)	264-267	S30	D-	25	BSs,s	
	273-275	S22	D-	40	ASf	
	275-283	S17	D	85	ASa	
	305-306	N10	D-	5	BNs	
	309-315	N15	D+	100	ANc	
	324-332	N33	D	65	ANd	
Oct. 13	350-356	N57	D	95	ANm	
	359-21	N72	D-	25	BNs's	
	22-51	N79	D-	30	BNs's	
	52-59	N61	C	220	ANd	Arch
	61-70	N51	D-	10	BNs,s	
	97-102	N17	D-	45	ANd	
	104-110	N9	D-	20	BNs's	
	111-125	0	C+	400	ANd	Streamer
	127-136	S16	D-	20	BNs's	
	139-152	S27	B-	525	ANc	Streamer
	167-173	S54	D	115	ANc	
	173-177	S59	D-	10	BNs,s	
	178-197	S69	D-	25	BNs's	
	204-231	S68	D-	20	BNs's	
	234-250	S51	B-	500	ANd*	
	250-253	S44	D+	120	ASl	
	252-260	S41	C-	160	ASf	
	254-262	S37	D	70	ANd*	
	262-274	S29	D	160	ASa	
	263-283	S27	C+	270	BSs's	
	306-314	N15	D+	160	ASa	
	315-317	N20	D+	75	BSs	
	317-324	N26	D+	120	ANc*	
	328-334	N35	C-	150	ANd	
Oct. 14	334-343	N43	C	250	ANd	
	346-351	N52	D-	15	BNs's	
	352-355	N57	D	50	ANm	
	21-40	N82	D-	30	BNs's	
	51-63	N60	C	240	ANd	
	66-69	N49	D-	10	BNs's	
	81-85	N33	D-	15	BNs's	
	87-90	N28	D-	25	ASa	
	90-93	N25	D	70	BSs	
	101-102	N15	D-	5	BNs	
	114-122	S1	C	375	ANd*	
	117-119	S2	D-	35	BSs	
	141-148	S28	B-	400	ANb	
	147-156	S35	D-	60	ANd	
	159-177	S54	C+	350	ANd	
	191-206	S80	D-	15	BNs's	
	221-233	S73	D-	45	BNs's	
	239-265	S48	B	750	ANd*	Streamer
	266-280	S23	C-	325	ASa	
(cont.)	269-281	S22	D	85	BSs's	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Oct. 14 (cont.)	287-289	S8	D-	50	ANe	
	294-300	0	D+	100	ANm	
	302-305	N7	D-	45	BSs	
	307-311	N14	D-	20	ASa	
	312-324	N25	C-	175	ANc*	Streamer
Oct. 15	337-343	N47	C+	270	ANd	
	344-26	N65	D-	50	BNs's	
	352-356	N59	D	60	ANm	
	33-49	N74	D-	15	BNs's	
	52-66	N58	C	260	ANd	
	70-77	N43	D+	110	ANd	
	77-86	N32	D+	130	BSs's	
	87-103	N24	D-	65	ASa	
	91-99	N24	D-	75	BSs's	
	110-124	0	C-	260	ANd	
	127-132	S14	D+	165	ANc	
	137-140	S22	D-	40	ANc	
	146-151	S31	C	210	ANb	
	148-178	S41	B	650	ANd	
	192-194	S76	D-	25	ANm	
	225-237	S64	D-	35	BNs's	
	238-261	S48	B-	500	ANd*	
	263-286	S24	C+	450	ASa	
	264-280	S24	C-	170	BSs's	
	295-310	N4	C+	300	ANd*	
	309-311	N14	D-	30	BSs	
	312-321	N18	D	110	ASa	
	321-336	N38	D+	150	ANc*	
Oct. 16	328-344	N45	C	320	ANd	
	345-351	N52	D-	15	BNs's	
	352-357	N59	D	90	ANd	
	0-23	N73	D-	10	BNs's	
	25-56	N82	D-	35	BNs's	
	64-79	N43	C	270	ANd	
	85-88	N30	D-	35	ANd	
	98-99	N18	D-	10	BNs	
	107-123	S1	C+	325	ANd	
	128-131	S13	D-	25	ANd	
	149-151	S34	D+	135	ANb	
	149-177	S42	B	650	ANd	Arch
	201-202	S83	D-	15	BNs	
	204-227	S80	D-	25	BNs's	
	233-249	S55	C	285	ANd	
	254-268	S36	D	60	BSs's	
	261-272	S31	D+	120	ASa	
	278-284	S15	D-	25	?	
	298-322	N11	C+	350	ANd	
Oct. 17	346-351	N52	D-	10	BNs's	
	352-2	N60	C	275	ANd	
	4-21	N73	D-	30	BNs's	
	49-56	N64	D-	45	ANd	
(cont.)	63-68	N50	D	50	ASa?	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p....	Class	Comments
1956						
Oct. 17	72-74	N43	D-	15	BSs	
(cont.)	93-99	N19	D	65	BSs's	
	105-129	0	B	600	ANd*	
	130-137	S18	D	110	BSs	
	145-147	S30	D-	25	BSs	
	156-175	S54	D	90	ANd	
	188-189	S73	D-	10	BNs	
	236-239	S59	D	55	ANm	
	244-245	S51	D-	5	BNs	
	250-276	S35	C-	235	ANd*	
	273-278	S21	D	40	ASa	
	279-281	S16	D-	10	BNs,s	
	300-316	N13	D+	170	ANd*	
	316-319	N21	D-	25	ASl	
	324-325	N28	D-	5	BNs	
	329-337	N36	C	240	ANd	
Oct. 19	335-341	N40	D	50	ANc	
	356-359	N61	D-	15	ANd	
	15-16	N78	D-	5	BNs	
	53-65	N57	C+	250	ANd	
	65-66	N50	D-	10	BSs	
	66-72	N47	D-	75	ASa	
	74-78	N41	D+	125	ASf	
	78-81	N36	D-	5	BNs's	
	83-87	N31	D	50	ANm	
	95-97	N20	D-	10	ASa	
	98-105	N16	D-	40	ANd*	
	109-126	S3	C	280	ANd*	
	124-131	S12	B-	450	ASf	
	133-148	S20	D+	160	ANd*	
	162-164	S47	D-	5	BNs	
	195-207	S82	D-	20	BNs's	
	220-221	S74	D-	5	BNs	
	229-241	S59	C-	160	ANd	
	251-255	S38	C	210	ANd	
	273-289	S15	C	235	ASl	
	280-287	S15	D-	25	BSs's	
	313-324	N18	D+	115	BSs	
Oct. 23	342-343	N47	D-	10	BNs	
	354-0	N60	C-	145	ANd	
	11-23	N80	D-	10	BNs's	
	28-29	N85	D-	5	BNs	
	45-68	N59	B-	525	ANd	
	80-84	S34	D-	20	ANm	
	92-99	S22	D-	30	BSs,s	
	118-123	S5	D	65	ANc	
	130-144	S21	D+	175	ANd	
	148-160	S36	D-	30	BNs's	
	165-173	S54	C	265	ANm	
	174-193	S85	D-	15	BNs's	
(cont.)	233-235	S61	D	40	ANm	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Oct. 23 (cont.)	240-242	S55	D-	10	BNs	
	255-256	S40	D-	5	BNs	
	262-274	S27	C	265	ANd	Streamer
	275-290	S14	B	650	ANd	Streamers
	301-306	N8	D-	40	ASl	
	304-310	N11	D-	115	ASa	
	305-306	N9	D-	20	BSs	
	316-323	N23	C-	170	ANd	
Oct. 24	337-340	N43	D-	40	ANd	Poor seeing all day
	353-2	N60	C+	340	ANd	
	50-65	N60	B-	550	ANd	Arch
	70-80	N41	D-	45	ANd	
	133-135	S18	D-	40	ASa	
	147-149	S32	D-	15	ANc	
	166-173	S54	C	250	ANd	
	233-235	S62	D-	50	ANm	
	266-272	S27	C	190	ASf	
	276-281	S17	D-	90	ASa	
	284-287	S11	D-	30	ANc?	
	291-297	S1	D	70	ANd	
	301-311	N10	D	90	ANm	Streamer
	322-326	N17	D+	120	ANc	
Oct. 25	337-346	N45	D-	30	BNs's	
	352-2	N60	B-	425	ANd	
	10-24	N77	D-	35	BNs's	
	42-65	N61	B	750	ANd	Ascending
	66-71	N48	D-	15	BNs's	
	73-96	N32	D+	165	ANd*	
	99-104	N14	D	60	ASa	
	122-126	S8	D+	170	BSs	
	130-143	S18	D	90	ASa	
	134-136	S19	D-	15	BSs	
	165-177	S56	C	235	ANd	
	193-199	S79	D-	10	BNs,s	
	233-243	S59	D-	15	BNs's	
	261-273	S29	C+	285	ANd	
	281-286	S12	D-	10	BNs's	
	295-307	N4	D	80	ANd	
	325-329	N30	D	40	BSs	
Oct. 27	326-331	N33	D	75	ANc	
	342-343	N48	D-	5	BNs	
	349-0	N58	B	900	ANb	Streamers
	358-11	N76	C+	475	ANd	" "
	54-59	N59	C	240	ANb	
	68-79	N41	D+	180	ANd	
	82-100	N25	C	315	ASa	
	83-94	N26	C+	220	BSs's	
	100-105	N12	D	90	ANc*	
(cont.)	108-115	N4	D+	125	ANd	

1956

Oct. 27 (cont.)	124-129	S11	D	65	ANd	
	132-137	S20	D-	45	BSs's	
	139-142	S25	D-	35	ASl	
	142-147	S30	D	100	BSs	
	142-154	S36	C	240	ANc*	Streamer
	170-204	S66	D-	35	BNs's	
	176-178	S61	D-	60	ANm	
	225-230	S66	D	80	ANd	
	231-244	S59	D-	15	BNs's	
	250-259	S40	D+	130	ANd	
	259-269	S33	C	220	ASf	
	287-294	S5	D-	35	BSs's	
	310-327	N18	D	80	ANd	
Oct. 28	340-343	N47	D-	10	BNs,s	
	355-357	N61	D-	15	ANm	
	13-24	N71	D-	15	BNs's	
	39-43	N73	D-	10	BNs,s	
	42-47	N69	D-	35	ANd	
	66-76	N44	C-	170	ANd	
	90-94	N23	D	50	ANm	
	100-116	N7	C+	325	ANd	
	123-126	S10	D-	40	ANd*	
	126-135	S14	D-	50	ASa	
	144-173	S43	B-	500	ANd	
	181-193	S71	D-	15	BNs's	
	231-249	S61	C+	325	ANd	Streamer
	254-263	S36	C	230	ANc	
	277-278	S17	D-	15	ANm	
	285-292	S8	D	100	ANd	
	310-312	N16	D	65	ASf	
	312-327	N27	C	195	ANd*	
Nov. 4	341-353	N56	D	55	ANd	
	21-22	N85	D-	10	BNs	
	39-44	N72	D	80	ANd*	
	48-51	N65	D-	30	BSs	
	76-90	N32	D	110	ANd	
	90-98	N23	C-	155	ANb	
	100-101	N13	D-	10	BSs?	
	117-126	S7	C	280	ANd*	
	124-134	S16	D+	170	ASa	
	134-136	S21	D+	135	BSs	
	135-139	S23	D	100	ASl	
	139-145	S27	D-	25	ANd*	
	162-165	S50	D-	25	ANm	
	212-214	S80	D	45	ANc	
	224-231	S68	D+	110	ANd	
	256-262	S33	D	40	BSs	
	259-267	S31	C	190	ASa	
	269-296	S14	B	850	ANd	Streamers
	300-307	N9	D+	200	ASl	
	300-305	N8	D	50	BSs	
	313-331	N29	D-	60	ANd	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Nov. 5	346-351	N55	D+	120	ANd	
	5-14	N74	D-	5	BNs's	
	21-31	N85	D-	15	BNs's	
	40-47	N71	C-	160	ANd	
	79-94	N27	C+	330	ANd	
	98-101	N14	D-	20	BSs	
	103-106	N10	D-	25	ASa	
	111-134	S6	B	650	ANd	
	162-165	S49	D-	10	BNs,s	
	169-171	S56	D-	15	ANm	
	179-180	S66	D-	5	BNs	
	215-226	S74	D-	10	BNs's	
	227-229	S66	D	45	ANm	
	246-249	S47	D-	10	BNs,s	
	260-264	S32	D-	20	BSs,s	
	263-274	S26	D-	70	ASa	
	280-287	S10	D	100	ANd	
	298-300	N5	D-	15	ANm	
	317-324	N27	C	240	ASf	
	327-335	N37	C	200	ANd	Arch
Nov. 8	340-357	N51	B-	450	ANd	
	29-39	N78	D-	10	BNs,s	
	45-49	N66	D+	140	ANm	
	60-66	N50	D	90	ANd	
	79-87	N30	D-	15	BNs's	
	97-101	N14	D	85	ANm	
	122-143	S17	D-	15	BNs's	
	146-148	S34	D-	15	ANm	
	167-172	S56	D+	135	ANd	
	228-233	S62	C+	220	ANm	
	241-251	S49	C+	325	ANd	
	267-276	S22	C	190	BSs	
	279-280	S13	D-	10	ANm	
	295-296	N3	D-	15	?	
	303-319	N13	C+	400	ANd	
Nov. 9	341-356	N55	B+	850	ANd	Ascending
	0-24	N76	D-	20	BNs's	
	29-37	N79	D-	10	BNs's	
	38-51	N67	D+	135	ANd	
	58-65	N51	D	75	ANd	
	72-82	N36	D+	115	ANd*	
	78-88	N27	D+	200	ASa	
	89-108	N15	B-	400	ANd*	
	117-131	S11	D	85	ASa	
	118-131	S11	D+	130	BSs's	
	138-139	S25	D-	20	ASf?	
	143-145	S31	D-	20	BSs?	
	145-156	S37	D-	15	BNs's	
	166-174	S57	C-	170	ANd	
(cont.)	181-203	S77	D-	15	BNs's	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Nov. 9	220-224	S71	D-	15	BNs,s	
(cont.)	228-235	S61	C+	280	ANd	
	239-249	S48	C-	175	ANd	
	252-263	S37	C	240	ANd*	
	264-266	S28	D	30	BSs	
	271-275	S20	D-	25	ANd	
	282-292	S2	D	100	ANd	
	304-306	N12	D	60	BSs	
	306-324	N22	C	300	ANd*	
	325-331	N34	D	160	ASa	
Nov. 10	336-24	N68	D-	65	BNs's	
	341-345	N50	D+	125	ANd	
	28-39	N77	D-	10	BNs's	
	41-56	N65	C-	170	ANd	
	60-66	N50	D	70	ANd	
	71-80	N37	D	65	ANd*	
	81-82	N32	D-	20	ASa	
	85-94	N21	D+	160	ANd	
	102-113	N7	B-	475	ANd	
	120-127	S10	D-	60	ANd*	
	123-125	S11	D-	15	ASa	
	134-141	S24	D-	25	BSs's	
	141-144	S29	D+	120	ASf,f	
	144-149	S33	D	80	ANd*	
	144-151	S33	D-	70	ASl	
	160-165	S49	D-	5	BNs,s	
	167-175	S56	C-	160	ANd	
	176-208	S80	D-	30	BNs's	
	226-235	S62	C+	325	ANd	
	251-252	S42	D-	25	ANm	
	269-273	S22	D	60	ANd	
	284-297	N1	C	275	ANd	
	306-316	N20	C+	215	ANd*	Incipient surge?
	322-332	N34	D	85	ASa	
Nov. 11	339-347	N50	C	285	ANd	
	350-25	N72	D-	40	BNs's	
	30-45	N75	D-	20	BNs's	
	46-55	N62	C	210	ANd	
	61-70	N46	D+	130	ANd	
	75-78	N36	D-	20	ASa	
	77-88	N31	D	100	ANd	
	95-96	N18	D-	20	ASa	
	101-102	N12	D-	15	BNs	
	108-113	N3	D-	40	ANd	
	125-127	S13	D-	15	?	
	141-159	S33	B	450	ANc	Streamer
	168-173	S57	D	70	ANm	
	173-182	S66	D-	20	BNs's	
	186-201	S78	D-	15	BNs's	
	201-225	S77	D-	30	BNs's	
(cont.)	225-239	S64	D	150	ANd	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Nov. 11 (cont.)	244-249	S48	D	100	ANd	
	249-258	S40	C+	300	ANe	
	254-264	S33	D	90	ANd	
	285-289	S6	D-	15	BNs's	
	290-297	0	C-	180	ANd	
	302-307	N12	D-	15	BNs's	
	307-312	N17	C-	140	BSs	
	312-318	N20	D+	115	ANd*	
	322-326	N31	D	45	ANd	
Nov. 14	343-351	N55	D-	135	ANd	
	352-24	N73	D-	30	BNs's	
	40-41	N70	D-	10	BNs	
	44-53	N65	D	85	ANd	
	64-74	N44	C-	175	ANd	
	80-86	N30	D	45	BSs?	
	92-94	N19	D-	15	BSs	
	96-98	N15	D-	20	ASa	
	97-102	N13	D	100	ANd*	
	111-125	S3	B	800	ANd	Ascending
	126-142	S22	D-	40	BNs's	
	151-174	S48	C+	385	ANd	
	186-201	S79	D-	15	BNs's	
	230-2[illegible]	S59	C	250	ANm	Poor seeing
	260-268	S29	D	70	ANd*	" "
	268-280	S18	D+	250	ASa	" "
	279-301	S9	C+	475	ANd*	" "
	286-290	S4	D	95	ASa	" "
	325-327	N34	D-	15	ANm	
Nov. 15	344-357	N58	D+	130	ANd	
	4-7	N72	D-	5	BNs's	
	31-32	N79	D-	5	BNs	
	35-40	N73	D-	35	ANa	
	44-50	N65	D	85	ANm	
	66-72	N42	D	90	ANd	
	79-86	N30	D	55	ANd	
	93-105	N22	C	200	ANd	
	98-135	S3	A	1250	ANd	Streamers
	139-145	S30	D-	10	BNs,s	
	154-168	S48	C+	290	ANd	
	230-235	S60	D	100	ANd	
	253-261	S35	D	85	ANd	
	265-270	S24	D-	40	BSs	
	267-277	S20	D	50	ASa	
	273-293	S8	B	650	ANd*	
	303-305	N12	D-	15	BNs,s	
	325-336	N39	D-	10	BNs's	
Nov. 16	340-26	N68	D-	25	BNs's	
	348-354	N60	C-	180	ANm	
	27-47	N73	D-	45	BNs's	
	48-51	N62	D	50	ANc	
(cont.)	53-65	N51	D-	15	BNs's	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Nov. 16 (cont.)	67-69	N43	D-	40	ANc	
	78-90	N28	D-	20	BNs's	
	95-104	N14	D	90	ANd	
	111-116	S2	D	80	ANc	
	117-120	S8	D-	20	ANc	
	124-133	S17	D+	110	ANd*	
	133-141	S25	D+	120	ASl	
	150-167	S47	B	575	ANd	
	174-203	S76	D-	35	BNs's	
	211-214	S69	D-	10	BNs,s	
	226-232	S62	D+	125	ANd	
	239-247	S48	D	75	ANd	
	251-260	S35	D	90	ASl	
	261-263	S29	D-	30	BSs	
	270-291	S9	B	575	ANc*	
	305-314	N18	D-	20	BNs's	
	319-325	N30	D	60	ASl?	
Nov. 21	350-351	N61	D-	5	BNs	
	353-357	N64	D	45	ANc	
	14-20	N86	D-	15	BNs's	
	46-66	N60	B	700	ANd	
	75-90	N26	D+	135	ANd*	
	90-96	N18	D	115	ASl	
	117-118	S7	D-	5	BNs	
	122-125	S13	D	40	BSs?	
	127-137	S20	C	280	ASf	
	133-137	S25	D-	25	ANd	
	137-142	S30	D	100	BSs?	or ANc*?
	177-178	S67	D-	10	BNs	
	218-232	S64	D	90	ANd	
	259-274	S22	C	240	ANd*	
	276-286	S11	C-	230	ASa	
	287-305	N6	C	280	ANd*	
	310-316	N22	D	60	BSs's	
	319-335	N37	C+	375	ANd	
Nov. 24	340-343	N53	D-	65	ANm	
	357-2	N70	D+	155	ANd	
	24-25	N84	D-	5	BNs	
	55-70	N51	C+	285	ANd	
	70-92	N30	C	260	ANd*	
	86-88	N22	D	90	BSs	
	92-107	N7	C	270	ANd*	
	128-131	S21	D	75	BSs?	or ASa
	134-149	S32	C+	270	ANd*	
	174-178	S66	D-	50	ANd	
	214-219	S73	C	170	ANm	
	224-269	S48	A	1450	ANd	
	289-290	0	D-	25	ANc	
	315-325	N34	D	60	ANd	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Nov. 25	335-340	N49	D	60	ANd	
	344-348	N58	D-	40	ANd	
	0-6	N83	C	280	ANb	
	8-21	N86	D-	25	BNs's	
	50-61	N52	C-	220	ANd	
	66-82	N34	C-	200	ANd	
	73-87	N28	C+	300	ANe	
	88-93	N17	D+	140	BSs	
	100-115	N2	C	190	ANd	Streamers
	114-124	S9	C-	175	ANd	
	135-151	S36	C+	370	ANd	
	156-157	S48	D-	20	ANc	
	163-202	S74	D-	25	BNs's	
	169-173	S63	D	80	ANm	
	232-238	S53	D+	120	ANm	
	243-270	S28	A	1250	ANd	Streamers
	288-294	N2	D-	15	BNs's	
	311-318	N27	D-	15	BNs's	
Dec. 13	328-341	N58	D+	170	ANd	
	346-348	N66	D-	15	ANm	
	62-78	N31	C+	425	ANd	
	82-90	N17	D	75	ANd	
	95-98	N5	D	85	ASl	
	98-99	N2	D-	35	BSs	
	100-135	S20	B+	950	ANd*	Streamers
	133-135	S33	D	70	ASa	
	128-145	S38	D	45	BSs's	
	154-163	S58	C-	150	ANd	
	168-172	S69	D-	30	ANd	
	225-237	S48	C+	415	ANd	
	266-272	S12	D	45	ASa	
	282-294	N8	D+	140	ANd	
	306-310	N27	D	90	ASa?	
	314-319	N34	D	115	ASl	
Dec. 14 a.m.	334-340	N47	D+	130	ANd	
	356-2	N77	D+	125	ANd	
	10-18	N87	D-	10	BNs,s	
	39-45	N61	D	50	BSs?	or ANm?
	51-71	N56	B	700	ANd	
	P.A. 90°, 135°, 180°, 225°, 270° & 315° missing Omitted in the Analysis					
Dec. 14 p.m.	335-339	N56	D-	35	ANm	
	353-2	N76	C	190	ANd	
	39-42	N61	D	40	ANm	
	57-71	N36	B	675	ANd	
	73-79	N24	C	220	ANd	
	84-87	N16	D-	10	BNs,s	
	92-104	N7	B-	400	ASa?	or BSs?
(cont.)	107-116	S10	D-	60	ANd	

Date	Spread	Lat. of Center of Intensity°	Importance	Area in p.u.	Class	Comments
1956						
Dec. 14 p.m. (cont.)	120-135	S26	C+	470	ANd*	
	133-138	S35	D	80	BSs,s	
	140-151	S46	D+	130	ANd	
	157-160	S58	D	55	ANm	
	169-170	S69	D-	15	BNs	
	225-237	S50	B	550	ANd	
	241-256	S32	C+	290	ANd	
	264-274	S12	D-	70	ANe	
	270-278	S8	D+	170	ASa?	
	278-293	N3	C+	350	ANd	
	297-299	N17	D	60	ANc*	
	299-301	N19	D	50	ASf	
	305-314	N29	D+	120	ASa	
	315-318	N36	D	70	BSs	
Dec. 15	346-357	N70	C+	325	ANd	
	38-45	N59	C	200	ANm	
	52-67	N40	B+	1050	ANd	
	73-74	N27	D-	5	BNs	
	79-85	N18	D	60	ANd	
	103-108	S5	D	85	ANd	
	120-127	S23	C+	320	ANc*	
	127-134	S29	C	290	ASa	
	128-136	S32	D	70	BSs's	
	142-149	S46	C-	180	BSs	
	157-158	S58	D-	10	BNs	
	175-176	S76	D-	20	ANm	
	202-203	S78	D-	15	BNs	
	225-233	S52	B-	350	ANm	
	241-245	S48	D-	20	BNs,s	
	264-279	S9	D+	170	ASa	
	272-284	S2	D+	165	BSs's	
	273-284	S4	D+	235	ANe*	
	297-316	N25	D	125	ANd*	
	301-311	N27	D-	60	ASa	
Dec. 16	334-343	N58	D-	20	BNs's	
	344-355	N67	C+	420	ANd	
	356-9	N80	D-	10	BNs's	
	24-39	N69	D-	25	BNs's	
	39-45	N58	C	240	ANm	
	47-49	N52	D-	10	BNs,s	
	52-65	N40	B+	1000	ANd	
	68-73	N29	D-	35	BSs's	
	78-82	N20	D	70	ANd	
	86-87	N13	D-	5	BNs	
	92-112	S10	B	600	ANd	
	115-125	S22	D+	160	ANd*	
	117-139	S32	C+	400	ASa	
	127-135	S30	D+	180	ASf,f	
	135-149	S44	C	250	ANd*	
(cont.)	166-171	S68	D	65	ANd	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Dec. 16	180-202	S89	D-	10	BNs's	
	226-242	S50	B-	350	ANd	
	257-260	S22	D-	15	BNs's	
	264-278	S10	C-	250	ASa	
	268-285	S6	D	60	BSs's	
	273-285	S3	D+	115	ANd*	
	272-284	0	C+	525	ASf	
	295-307	N20	D-	25	BNs's	
	315-322	N39	D	80	ANd	
Dec. 17	342-356	N71	C+	550	ANd	Part ascended
	15-45	N64	D-	50	BNs's	
	75-79	N21	D-	30	BSs	
	81-97	N11	C+	370	ANd*	
	90-98	N5	C	260	ASl	
	118-122	S21	D	85	BSs	
	123-127	S26	D	30	ASl	
	128-137	S31	C-	175	ANb*	
	139-149	S43	C+	350	ANd	
	154-185	S66	D-	25	BNs's	
	225-231	S52	C+	240	ANm	
	238-247	S37	D-	20	BNs's	
	263-272	S11	C+	325	ASl	
	272-275	S6	C+	235	BSs	
	277-285	N1	D-	60	ASa	
	298-304	N23	C	200	ANm	
	311-322	N39	B-	415	ANd	
Dec. 20	348-350	N71	D	40	ANm	Poor seeing all day
	52-56	N44	D+	150	ANd	
	74-80	N22	C	215	ANd*	
	82-91	N12	C-	235	ASl	
	84-91	N11	C-	165	BSs	
	93-100	N2	D	85	ASa	
	93-99	N2	D+	115	BSs?	
	118-122	S22	D	60	ASl	
	124-125	S26	D-	20	BSs	
	160-161	S63	D-	15	BNs	
	209-228	S61	C	230	ANd	
	252-273	S18	B	750	ANd	Streamer
	277-292	N5	D+	215	ANd	
	300-325	N34	D-	45	BNs's?	
Dec. 21	335-339	N59	D	50	ANm	
	346-349	N70	D-	20	ANm	
	22-26	N74	D-	10	BNs,s	
	51-58	N45	C-	160	ANc	
	74-85	N19	C+	250	ANd*	
	85-93	N10	D+	125	ASa	
	96-98	N1	D	50	BSp	
	98-105	S2	C	175	BSs	
(cont.)	108-118	S14	D+	160	ANd	

Date	Spread	Lat. of Center of Intensity°	Impor-tance	Area in p.u.	Class	Comments
1956						
Dec. 21 (cont.)	121-124	S25	D-	20	BNs,s	
	129-134	S33	D-	50	ANd	
	143-148	S49	D-	35	ANd	
	157-161	S61	D-	20	ANd	
	215-223	S59	D	65	ANd	
	248-272	S16	B	1100	ANd	
	287-290	N10	D-	35	ANd	
	301-309	N28	D-	20	BNs's	
	314-318	N38	D	40	ASa?	

TABLE II

SACRAMENTO PEAK PROMINENCE FILMS

Date	PA	Class	Comments
1956			
Jan. 12	52°	ASa, BSs, ASl, BSp, s	Surges flare, loops evolve
Feb. 10	53	ANd, ASa, BSs, ANd*	Huge dome-shaped surges flare (dramatic)
11	52	ANd*, ASa, l	
12	52	ANd*, ASl, a	
25	73	ANa, BSs	
Mar. 11	37	ANd*, ASf, a	Streamers
21	105	ANd	
	268	ASa, l, ANc*, m	
	283	ASl, BSs, ANm	Mound evolves into hedgerow
24	280	ANd*, ASf, l, BSs, ANd	Loop-shaped streamers from funnel which ascends slowly
25	292	ANd, ASf, ANm*	
27	105	ANa, d	Hedgerow ascends, then descends in streamers
	260	ANd*, BSs's, ASa	Dome-shaped surges flare Horizontal surges
Apr. 1	281	BSs, ANe, d	Cloud sends streamers to hedgerow
5	35	ANd, ASa, BSs	
7	90	BSs, ASa, ANd	
8	90	ASl, a, BSs's, ANc*	Flare in small dome-shaped surge
10	30	ANd*, ASl, a, BSs	Flares in surges; one surge moves slowly in horizontal direction
11	26	ASf, BSs's, ASa, ANd*	Spectacular funnel; flare in dome-shaped surge with horizontal motion followed by ejection of material to great heights from both sides of the dome.
14	270	ANd*, ASa, BSs's, ANd*	
16	58	ANd	Streamers form an arch
21	270	ANe*, ASf, ANd*, ASa, BSs	The suspended cloud ascends, then sends down loop-shaped streamers. The funnel evolves into a tree. Flare occurs in large dome-shaped surge which arises from one side of hedgerow while loop-shaped streamers emerge from opposite side.

Date	PA	Class	Comments
1956			
Apr. 22	272°	ASa, ANd	
23	213	ANc, ASa, ANd, ASl, a, BSs	
May 1	35	ASl, BSs's	
2	221	ANc, ANm, BSs's, ASl	
3	19	ANm, BSs, ANm	Surge shaped like the head of an animal
5	280	ANd*, BSs, ANc*	Tree ascends, then descends in streamers
8	89	ASa, l, BSs	Flare in surge which evolves into loops
14	85	ANd*, ASa, BSs's	
22	118	ANd*, BSs?	
28	42	ANm, ANd, ASa	
	100	ANd, BSs	
30	235	ANm, BSs's, ANd	
31	225	ANd*, BSs's, ASa	Flares in surges
June 2	35	ANd, ANd*, BSs, ANc, BSs	
6	125	ANc, ANd	Tree ascends, then descends in streamers
12	45	BSs's	
13	110	ANd*, ASa, BSs	Flare in surge
15	300	ANc*, BSs, ANm	
22	290	ANd, ASa, BSs, ANd	
30	125	ASl, ANd*, ANc	
July 10	229	ANm, BSs, ANd	Arch
Aug. 12	290	BSs, ASa, ANd*, BSs	Loop-shaped streamers
28	87	ANe, ANc	
30	83	ANd	
Sept. 6	247	ANd, ANd*, ASf, f, ANd	Streamers arching from hedgerow to hedgerow
18	264	ASf, f, ASa, l, BSs's	
19	264	ASf, ANd*, ASa, BSs, ANd*	
24	101	BSs's, ASf	
25	60	ANd, BSs	Active hedgerow
26	75	ANd, ANd*, ASa, ANc	Tree becomes tree trunk
28	84	ANd, BSs, ANc	
29	85	BSs, ASl, a, ANd	
Oct. 5	263	ANd*, ASa, ANc*	
	260	ANd*, BSs, ANc*, ASf	
8	80	ANc, ANc	Streamers from tree to tree form a large arch
	87	ANd, BSs	Hedgerow forms from separate trees
15	273	ANm*, ASa, BSs, ASl	
Nov. 4	130	ANd*, ASl, f, a, BSs	
8	264	ANd, ASa, BSs's	Small flare in a dome-shaped surge

Date	PA	Class	Comments
1956			
Nov. 14	290°	ANd	Active hedgerow
Dec. 14	90	BSs, ASl, ANc	
	110	ASl, ASa, BSs, ANd	
	130	ANc*, ASa, BSs, p, ANm	
15	267	BSs, ASa, ANd*, ANe	Flare in surge

COMPARISON OF CLASSES FROM SURVEYS AND FILMS

When we compared the classifications made on the films with those made on the surveys we discovered that on two of the 58 days that motion picture studies were made, no stills were made at a corresponding position angle. In the comparable pictures we classified a total of 219 prominences. Of these, 184 were found on both the films and the surveys.

In Table III we show the classifications given to the prominences in both media. Of the prominences seen in both, 127 or 69 per cent were classified indentically; 43 or 23 per cent were typed as belonging to closely related groups; and 14 or 8 per cent otherwise.

TABLE III

COMPARISON OF CLASSIFICATIONS FROM FILMS AND SURVEYS

PROMINENCE TYPES SEEN IN SACRAMENTO PEAK FILMS, 1956

PROMINENCE TYPES SEEN IN SACRAMENTO PEAK SURVEYS, 1956	ASl	ASf	ASa	BSs	BSp	ANa	ANb	ANc	ANd	ANe	ANm	BNs	Unclassed	Missing
ASl	7	1	3	1				2						2
ASf		5						2	1					
ASa	7		20											2
BSs	1			32										
BSp				1										
ANa			1			1								
ANb								1						
ANc		1						3						
ANd		2						8	54		6			2
ANe		1						11		1				
ANm								1	2		4			
BNs				3										1
Unclassed				1										
Missing	3	1	9	11	2						2			

ANALYSIS

In Table IV we give the average number of prominence units per day for the various prominence classes and for each 10° of solar latitude.

In Table V we list the average number of prominence units at all latitudes for types A and B, S and N, those unclassed, and for all types together, for each third of the year. The total areas incresed throughout the year and the total for 1956 is considerably greater than for 1955.

For 1956 we were unable to type 0.3 per cent of the prominences; to 92 per cent we assigned A classifications, denoting that the material was moving downward toward the chromosphere; and to 16 per cent we gave S classifications, indicating their association with sunspots.

In Table I we indicated the N type prominences which were interacting with S types by adding an asterisk to the classification. During 1956, 20 per cent of the treetrunks(ANb), 23 per cent of the tree (ANc), 21 per cent of the hedgerows (ANd), 17 per cent of the suspended clouds (ANe), and 2 per cent of the mounds (ANm), showed this activity.

TABLE IVa

AVERAGE NUMBER OF PROMINENCE UNITS PER DAY

Class	Northern Latitudes 90-80	79-70	69-60	59-50	49-40	39-30	29-20	19-10	9-0	All N. Latitudes
1956				January - April 60 days' observations						
ASl				2.8		1.3	22.0	7.6	1.2	34.9
ASf				46.6		4.8	14.8	7.9	1.0	75.1
ASa				1.1	1.1	9.1	34.3	25.5	1.8	72.9
BSs				4.1	6.8	7.6	26.9	17.4	7.3	70.1
BSp										--
ANa	0.7		2.1	1.8		1.2	2.2		1.8	9.8
ANb	0.3	0.3		4.2	14.2	0.4	2.1	6.9	2.2	30.6
ANc		0.5	1.7	3.9	24.5	12.7	0.2	10.7	11.2	65.4
ANd		12.2	60.8	162.2	168.0	232.2	111.8	176.0	137.5	1060.7
ANe				1.1			16.0	0.2	8.4	25.7
ANm		0.8	8.4	23.7	1.7	1.1	0.2	2.6	0.3	38.8
BNs	4.2	9.5	4.7	1.7	1.8	1.9	3.1	1.4	1.6	29.9
Unclassed					0.2		1.3	1.6	1.1	4.2
All	5.2	23.3	77.7	253.2	218.3	272.3	234.9	257.8	175.4	1518.1
				May - August 97 days' observations						
ASl				0.6	1.2	6.0	15.1	7.5	2.9	33.3
ASf				1.6	4.8	10.5	9.9	3.6	7.0	37.4
ASa					0.8	15.2	21.1	17.8	6.2	61.1
BSs				3.0	6.8	9.6	23.3	10.7	3.1	56.5
BSp						0.4				0.4
ANa	0.7		0.2	3.5	1.9	2.0	4.3	5.7	2.3	20.6
ANb			2.7	3.3	0.4	0.6	2.2	3.4	5.9	18.5
ANc			7.1	5.2	14.8	7.7	10.3	15.3	14.1	74.5
ANd		1.4	129.6	187.0	156.9	197.5	166.6	97.8	157.9	1094.7
ANe				2.6	2.3	4.4	0.4	3.9	0.8	14.4
ANm	0.6	2.9	23.7	15.2	8.7	1.8	1.2	1.0	3.6	58.7
BNs	16.0	12.8	4.5	2.3	3.8	2.0	2.9	2.1	4.6	51.0
Unclassed		0.2				0.5	1.6	0.2	1.9	4.4
All	17.3	17.3	167.8	224.3	202.4	258.2	258.9	169.0	210.3	1525.5
				September - December 59 days' observations						
ASl					0.7	3.0	13.3	10.6	9.9	37.5
ASf			3.6		3.0	5.1	24.5	3.1	13.2	52.5
ASa				0.8	4.7	14.7	32.4	21.5	16.0	90.1
BSs				0.2	1.1	7.9	26.5	18.1	5.5	59.3
BSp									0.8	0.8
ANa		0.6		0.3			0.8			1.7
ANb	4.8			19.3			33.6	1.1	7.6	66.4
ANc	1.3		1.6	15.0	14.1	4.8	8.6	6.6	11.1	63.1
ANd	3.6	53.8	192.0	167.0	154.8	158.2	61.6	103.6	144.7	1039.3
ANe					3.1		11.9	2.0		17.0
ANm		2.5	21.2	13.8	1.5	3.4	0.8	4.7	3.4	51.3
BNs	8.7	13.3	8.1	5.4	2.4	2.9	3.3	3.4	1.7	49.2
Unclassed								0.6	0.3	0.9
All	18.4	70.2	226.5	221.8	185.4	200.0	217.3	175.3	214.2	1529.1

TABLE IVb

AVERAGE NUMBER OF PROMINENCE UNITS PER DAY

Class	Southern Latitudes 1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	All S. Latitudes
1956	**January - April 60 days' observation**									
ASl	3.4	16.3								19.7
ASf	3.6	2.5	7.2	5.8						19.1
ASa	1.0	21.0	18.4	0.8	3.6					44.8
BSs	7.3	26.3	10.8	5.8	7.0	3.7				60.9
BSp				0.7						0.7
ANa	4.2	7.8	0.8		0.3			0.7		13.8
ANb							0.4			0.4
ANc	9.2	3.9	9.3	3.6	8.3	6.8	1.8			42.9
ANd	98.2	65.2	58.0	127.8	120.4	59.6		20.7		549.9
ANe	3.8	4.7	0.6		2.7					11.8
ANm	0.8	1.3	4.3	3.3	18.8	8.5	0.6		0.5	38.1
BNs	1.2	2.7	1.3	3.2	1.5	2.8	7.2	6.8	3.1	29.8
Unclassed	1.0	1.2	3.6	0.8		0.3				6.9
All	133.7	152.9	114.3	151.8	162.6	81.7	10.0	28.2	3.6	838.8
	May - August 97 days' observations									
ASl	2.3	15.6	11.7	4.2	1.3					35.1
ASf	18.8	6.0	11.4		1.1	0.6				37.9
ASa	0.9	38.5	26.3	3.5	0.3					69.5
BSs	10.6	17.2	25.2	6.2	7.6					66.8
BSp		0.6								0.6
ANa	3.4	3.9	1.0		0.9			0.4		9.6
ANb					0.3			0.2	0.2	0.7
ANc	18.6	6.2	7.4	5.6	15.2	0.5	1.3	0.7	0.5	56.0
ANd	136.3	78.5	113.4	171.6	272.0	131.5	16.5			919.8
ANe		11.3	1.0	7.1	3.1	1.7				24.2
ANm	0.7	2.1	6.1	2.5	7.0	16.9	5.0	0.2		40.5
BNs	4.5	2.6	3.8	2.9	2.2	2.6	9.3	12.2	8.1	48.2
Unclassed	3.0	1.1	0.7	0.3		0.3				5.4
All	199.1	183.6	208.0	203.9	311.0	154.1	32.1	13.7	8.8	1314.3
	September - December 59 days' observations									
ASl	2.4	14.3	22.0	4.8	2.0					45.5
ASf	2.1	39.1	17.8	3.7	2.7					65.4
ASa	15.6	24.9	51.4	21.9	1.4					115.2
BSs	15.3	18.1	36.1	10.5	5.9					85.9
BSp										--
ANa	1.4	0.8		6.8	2.7			1.0		12.7
ANb		2.5	6.8	8.8			2.0			20.1
ANc	17.3	10.8	15.7	18.8	9.8	11.1	3.8	0.8		88.1
ANd	255.5	136.8	135.8	81.3	206.0	182.2	35.3			1032.9
ANe	4.8	1.2		5.1	17.7					28.8
ANm	3.6	0.4	6.3	5.9	2.3	33.6	11.1	4.2		67.4
BNs	0.6	1.9	2.5	2.9	1.5	2.2	6.7	14.6	2.8	35.7
Unclassed	0.3	1.4		0.3						2.0
All	318.9	252.2	294.4	170.8	252.0	229.1	58.9	20.6	2.8	1599.7

TABLE V

SUMMARY FOR 1956

AVERAGE NUMBER OF PROMINENCE UNITS PER DAY AT ALL LATITUDES

Type	Jan. - Apr.	May - Aug.	Sept. - Dec.
A	2154.4	2606.5	2895.0
B	191.4	223.5	230.9
S	398.2	398.6	552.2
N	1947.6	2431.4	2573.7
Unclassed	11.1	9.8	2.9
All	2356.9	2839.8	3128.8