

PART B
SOLAR - GEOPHYSICAL DATA

ISSUED
SEPTEMBER 1962

U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

SOLAR - GEOPHYSICAL DATA

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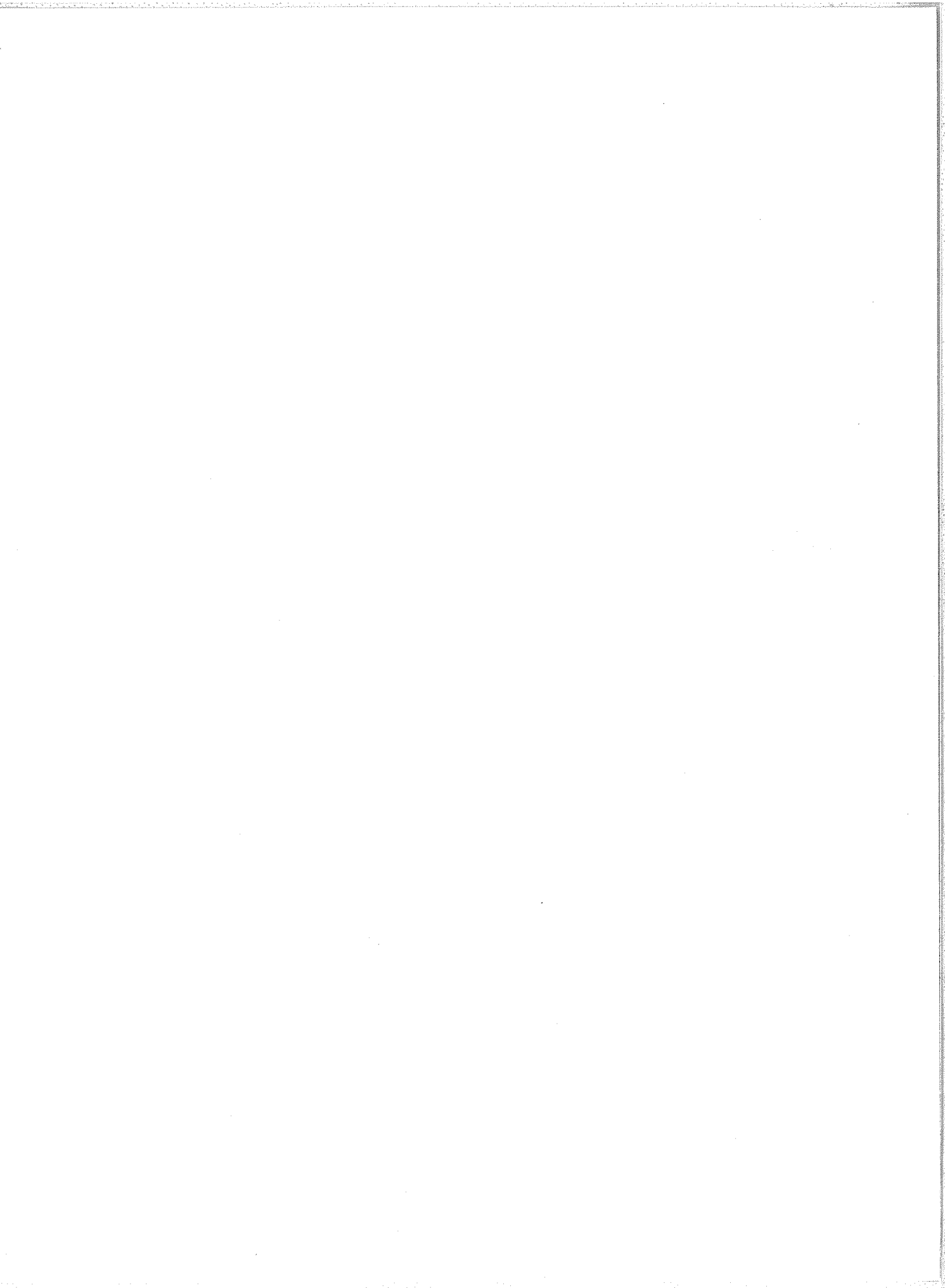
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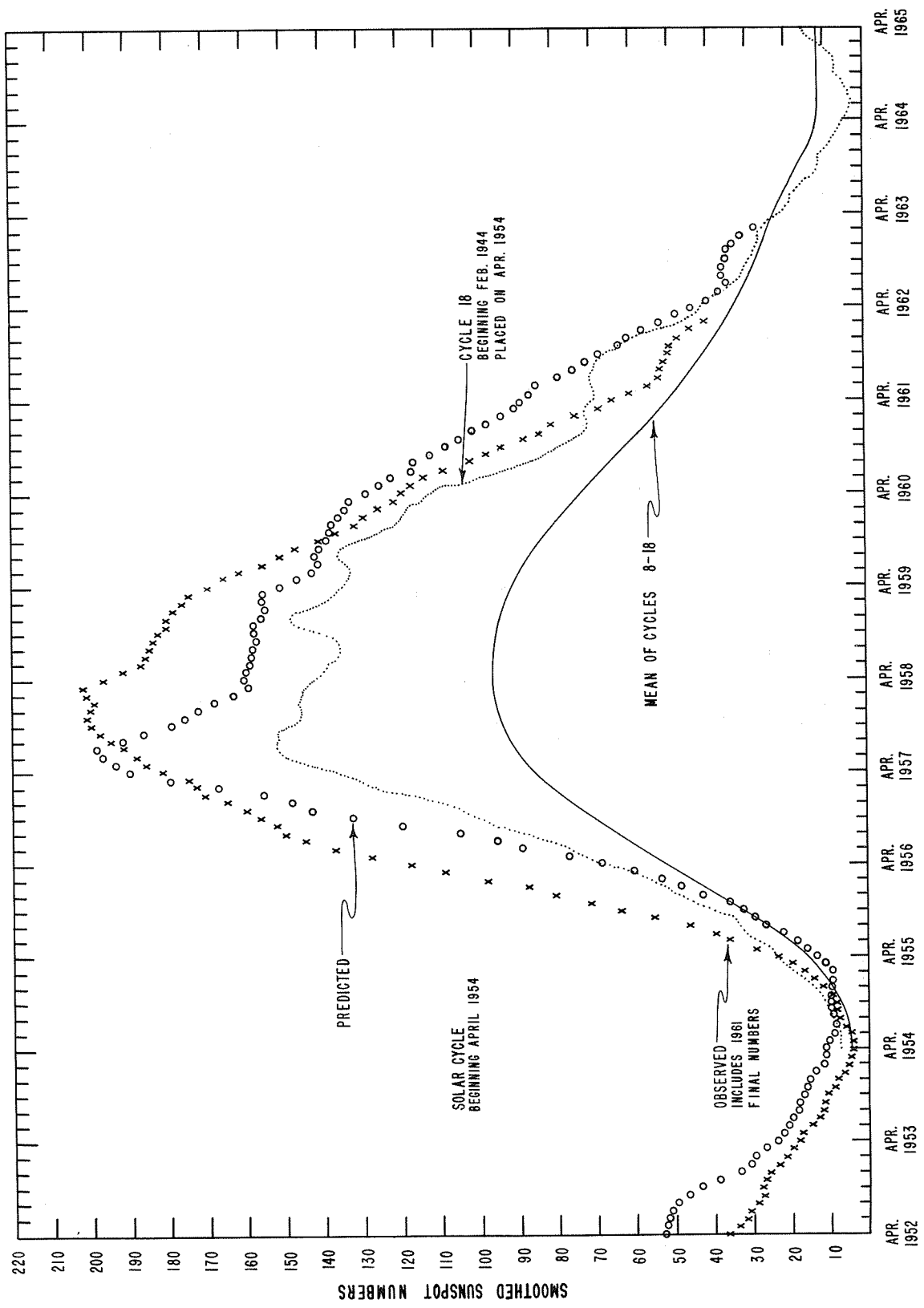


The descriptive text was republished November 1961.
Addenda to the text were published February 1962.

DAILY SOLAR INDICES

July 1962	American Relative Sunspot Numbers R_A'
1	38
2	37
3	38
4	31
5	18
6	18
7	11
8	13
9	12
10	11
11	13
12	18
13	23
14	26
15	15
16	17
17	18
18	12
19	9
20	3
21	23
22	13
23	12
24	12
25	10
26	11
27	9
28	7
29	5
30	1
31	0
Mean:	15.6

Aug. 1962	Zürich Provisional Relative Sunspot Numbers R_Z	Daily Values Solar Flux at 2800 Mc, Ottawa, Canada Flux
1	0	71
2	7	73
3	7	72
4	10	73
5	14	70
6	11	72
7	9	71
8	8	72
9	0	73
10	0	76
11	0	74
12	15	76
13	24	79
14	40	83
15	50	92
16	50	90
17	53	89
18	43	85
19	45	83
20	39	84
21	36	82
22	30	80
23	27	79
24	30	79
25	14	77
26	7	75
27	7	73
28	14	72
29	8	72
30	25	72
31	22	75
Mean:	20.8	77.2



PREDICTED AND OBSERVED SUNSPOT NUMBERS

CALCIUM PLAGES AND SUNSPOT REGIONS

AUGUST 1962

CMP Aug. 1962	Lat	McMath Plage Number	Return of Region	Calcium Plage Data		Sunspot Data		
				CMP Values Area Int.	History, Age	CMP Values Area Count	History	
01.3	S02	6508	New	(500) (2)	b / l 1			
03.2	S05	6503	6472	500 2.5	l / l 5	40 3	b ^ d	
05.7	N08	6504	New	200 1	l \ d 1			
07.0	N15	6505	6476	500 2	l - l 8			
07.0	N05	6510	New	400 2.5	b / l 1			
07.7	S14	6506	6477	600 2	l - l 3			
08.8	N10	6507	6480	1,400 2.5	l - l 3			
09.4	N21	6511	*	800 2	l - l 1			
09.6	N09	6512	6480	500 2	b / +			
13.3	N07	6514	New	1,000 2.5	b / l 1	60 2	b / l	
16.4	N22	6515	6492	900 1.5	l - l 5			
17.2	N12	6513	6495	1,000 3	l \ l 2			
18.6	N21	6518	New	100 2	l \ d 1			
19.0	S11	6529	New	(400) (2)	b / l 1			
19.4	N03	6516	New	1,900 3	l - l 1			
19.5	N13	6527	New	(200) (1.5)	b / l 1			
20.5	N02	6522	New	900 4	l / l 1	130 5	l - l	
21.5	N07	6523	New	100 1.5	b ^ d 1			
23.0	N01	6524	6497	400 2.5	l / l 3			
23.0	N16	6526	New	(100) (1)	b ^ d 1			
24.7	S17	6540		(500) (2)	b / l			
25.0	N09	6525	New	400 2	l - l 1			
25.9	S02	6541		(500) (2)	b ^ d			
27.8	N08	6537	New	500 1.5	b ^ d 1			
30.2	S05	6543	6503	(500) (2)	b / l 6			

* New in position of 6481

+ Merged with 6507

COMMERCE - STANDARDS - BOULDER

MT. WILSON MAGNETIC CLASSIFICATIONS OF SUNSPOTS

11b

AUGUST 1962

Aug. 1962	Time Meas.	Lat.	Mer. Dist.	Type	Aug. 1962	Time Meas.	Lat.	Mer. Dist.	Type
2	1635	W05	N05	αp	14	1700	W19 E64	N06 N02	βv βf
4	1735	W23	S03	αp	18	1520	W70 E07	N07 N04	β αp
5	2415	E13	N07	β			E17 E33	N02 N10	β αf
6	1930	E05	N07	αf	20	1640	*E08 *E08	N02 N02	αf β
7	1845	W10	N07	β	24	1620	W67	N02	αf
12	2335	E04	N07	βp	29	2229	E50	S06	αf
13	1700	W06 E49 E78	N06 N12 N02	β αf αf	30	1820	E36 E40	S07 N10	βp βp
					31	2340	E19 E23	S07 N10	αp βf

COMMERCE - STANDARDS - BOULDER

* Probably two distinct groups.

PROVISIONAL CORONAL LINE EMISSION INDICES

AUGUST 1962

CMP Aug 1962	North East Quadrant (observed 7 days earlier)				South East Quadrant (observed 7 days earlier)				South West Quadrant (observed 7 days later)				North West Quadrant (observed 7 days later)			
	G ₆	G ₁	R ₆	R ₁	G ₆	G ₁	R ₆	R ₁	G ₆	G ₁	R ₆	R ₁	G ₆	G ₁	R ₆	R ₁
1	X	X	X	X	X	X	X	X	6	8	9	10	17	22	8	11
2	X	X	X	X	X	X	X	X	10	12	10	15	11	16	9	12
3	26a	31a	8a	17a	16a	6a	9a	9a	17	31	X	X	17	28	4	6
4	21	28	4	8	17	5	10	10	22	28	13a	21a	12	15	10a	14a
5	17	25	X	X	18	X	X	X	X	X	X	X	X	X	X	X
6	7a	18a	12	22	3a	10	25	25	14	20	15	22	20	25	9	12
7	23	48	10	27	4	6	10	16	17	28	10	16	24	34	7	14
8	49	87	10a	40a	18	5a	10a	23a	17	34	18a	23a	37	47	5a	15a
9	48	70	6a	8a	34	8a	12a	22a	14	20	17a	22a	36	42	10a	25a
10	7	12	X	X	4	X	X	X	16	22	19a	25a	27	34	18a	26a
11	17	25	5	6	10	6	8	8	X	X	X	X	X	X	X	X
12	16	20	5a	6a	9	7a	10a	10a	5	9	12	13	12	26	14	25
13	5	8	5	5	3	6	7	7	X	X	X	X	X	X	X	X
14	6	8	X	X	3	4	X	X	X	X	X	X	X	X	X	X
15	13	17	8	9	36	45	15	15	9	14	8	9	43	70	8	10
16	34	71	12	22	9	17	19	19	13	25	10	14	47	92	12	16
17	55	87	8	16	13	14	12	12	18	28	30a	42a	48	70	34a	52a
18	44	73	18a	40a	13	17	17a	17a	34	112	38a	68a	64	92	53a	118a
19	35	78	X	X	9	17	X	X	13	34	47a	66a	58	129	77a	157a
20	11	20	15a	24a	1	3	42a	42a	17	28	36a	41a	72	171	51a	123a
21	15	20	19	28	10	20	34	34	18	28	16a	18a	24	42	24a	36a
22	15	20	23a	33a	6	17	32a	32a	13	22	26a	35a	20	31	29a	33a
23	33	78	14a	23a	20	25	28a	28a	X	X	X	X	X	X	X	X
24	32	59	23a	40a	18	25	25a	25a	20	59	15a	20a	17	48	19a	27a
25	28	76	X	X	12	17	X	X	6	8	14a	16a	13	17	13a	15a
26	7	10	14	18	5	7	13	13	9	11	11	14	13	14	13	17
27	X	X	X	X	X	X	X	X	6	8	X	X	12	22	X	X
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	14	20	7	10	15	22	9	9	X	X	16a	20a	X	X	25a	29a
30	24	42	12	20	12	15	9	11	10	15	13	15	8	10	13	16
31	22	34	23a	33a	14	22	21a	30a	25	31	11	12	12	16	7	10

SOLAR FLARES

AUGUST 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS				PROVISIONAL IONOSPHERIC EFFECT	
		START	END	APPROX. LAT.	MER. DIST.	MCMATH PLACE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Sq.		MAX. INT. %
[SAC PEAK MCMATH	01 0000	0045	NO FLARE	PATROL				1-	1						
	01 0105	0120	NO FLARE	PATROL				1-	2					15	
	01 0205	0505	NO FLARE	PATROL											
	01 2248	2300 D	2257	N08 E54											
01 2253	2307	2259	N09 E55	6504											
WENDEL WENDEL	02 0000	0500	NO FLARE	PATROL											
	02 0538 E	0609		N10 E48	6504			1							
	02 0643 E	0716 D		N10 E47	6504			1							
02 1955	2020	NO FLARE	PATROL												
	02 0024	0044 D	0026	N00 W07				1-	2						
HONOLULU	03 0100	0130	NO FLARE	PATROL											
	03 0150	0600	NO FLARE	PATROL											
	03 0726 E	0800 D		N16 E25	6504			1							
	03 0846 E	0907 D		S03 W02				1-	2						
[ATHENES CAPRI S	03 0854 E	0955 D		S10 W02				1-	3						
	03 1018 E	1041 D		S10 W03				1-	3						
CAPRI S	04 0055	0450	NO FLARE	PATROL											
	04 0947	1020 D		N15 E38				1-	3						
	04 1800	1820	NO FLARE	PATROL											
	04 1850	1900	NO FLARE	PATROL											
[ATHENES	04 2125	2225	NO FLARE	PATROL											
	04 2255	2400	NO FLARE	PATROL											
	05 0000	0440	NO FLARE	PATROL											
	05 0550	0555	NO FLARE	PATROL											
	05 0645	0657		S04 W30				1-	3						
05 2345	2350	NO FLARE	PATROL												
[LOCKHEED SAC PEAK	06 0200	0600	NO FLARE	PATROL											
	06 2001	2015	2006	N11 E28				1-	2						
	06 2002	2016	2008	N09 E19				1-	2						
	06 2350	2400	NO FLARE	PATROL											
HONOLULU	07 0000	0035	NO FLARE	PATROL											
	07 0055	0140	NO FLARE	PATROL											
	07 0205	0555	NO FLARE	PATROL											
	08 0152	0200	0156	N07 W15				1-	2						
[CAPRI S SAC PEAK MCMATH LOCKHEED	08 0205	0600	NO FLARE	PATROL											
	08 0711 E	0737 D		N09 W19	6510			1							
	08 1622	1648	1630	N07 W23				1-	2						
	08 1633 E	1717 D		N07 W23	6510			1-	3						
08 2327	2341	2331	N07 E06				1-	2							
SAC PEAK CAPRI S [SAC PEAK	09 0140	0445	NO FLARE	PATROL											
	09 1538	1602	1540	N07 W38				1-	2						
	09 1539 E	1558 D		S05 W35				1-	2						
	09 1934	1950 D	1946 U	N07 W40				1-	2						

SOLAR FLARES

AUGUST 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		LOCATION		DURA-TION MINUTES	IM-PORTANCE	OBS. COND.	TIME U T	MEASUREMENTS		MAX. WIDTH H _z	MAX. INT. %	PROVISIONAL IONOSPHERIC EFFECT
		START	END	APPROX. LKT.	MGR. DIST.					MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.			
[] LOCKHEED	09	1937	2017	N06 W37			1-	2	1949	.30	.30	.30	20	
[] HONOLULU	09	1940 E	2022	N05 W39			1-	2	1946	1.80	2.00	2.00		
[] MCMATH	09	1949 E	2024	N07 W40	6510		1-	2	1954	.40	.50	.50		
[] HONOLULU	09	2108	2134 D	N07 W39	6510	26 D	1-	3	2116	3.70	4.20	4.20		
[] LOCKHEED	09	2109	2139	N08 W40	6510	32	1-	2	2115	2.20	2.50	2.50	10	
[] SAC PEAK	09	2110	2136 D	N06 W37			1-	2	2115	1.30	1.40	1.40	16	
		2110	2114	N08 W40			1-	1	2115	1.16	1.28	1.28		
[] SAC PEAK	10	0135	0140	PATROL				2					16	
[] MCMATH	10	1530	1558	N08 W18	6507		1-	3	1539	.72	.72	.72		
[] HONOLULU	10	1904	1908 D	N10 W18	6510	4 D	1-	2	1906	.50	.50	.50		
[] HONOLULU	10	2004	2017	N04 W50	6507		1-	1	2007	2.80	2.84	2.84		
[] SAC PEAK	10	2004	2018	N16 W19			1-	3	2008	.20	.20	.20	18	
[] LOCKHEED	10	2005	2027	N15 W20			1-	2	2008	1.24	1.24	1.24	20	
	10	2340	2400	N13 W20			1-	2	2009	.43	.43	.43		
		0000	0005	N14 W17			1-	2		.20	.20	.20		
		0025	0050	PATROL				3		.30	1.20	1.20		
		0145	0520	PATROL										
		0735 E	0743	N05 E75										
		2250	2305	PATROL										
		2345	2400	PATROL										
[] SAC PEAK	12	0040	0455	PATROL			1-	2		.14	.14	.14	17	
[] HONOLULU	12	1544	1552	N03 E09			1-	3	2100	1.80	1.80	1.80		
		2052	2106	N05 E06										
		0115	0520	PATROL										
		0632 E	0640	N04 E84	6516	8 D	1+	2		.70	4.70	4.70		
		0714 E	0735 D	N04 E84	6516	21 D	2	2		.80	5.80	5.80		
		0716	0730	N07 E01			1-	2		1.10	1.20	1.20		
		0755 E	0855	N04 E86	6516	60 D	2	3		.80	5.40	5.40		
		0846 E	0851	N14 E53			1-	3		.70	1.10	1.10		
		1222 E	1229 D	N06 E01	6514	7 D	1	3		.70	2.10	2.10		
		1253	1317 D	N07 W02	6514	24 D	1	2		.41	4.00	4.00	15	
		1416	1436	N06 W02			1-	2		.39	.39	.39		
		1618 E	1631 D	N03 E75			1-	2		.30	.30	.30	20	
		1618	1643	N02 E80			1-	2	1624	.30	.30	.30	20	
		1749	1804	N02 E80			1-	2	1756	.40	.40	.40	20	
		1918	1944	N07 W05			1-	2	1923	.40	.40	.40	20	
		2020	2031	N02 E80			1-	2	2024	.20	.60	.60	10	
		2037	2118	N07 W06	6514	32 D	1-	2	2045	1.30	1.30	1.30	20	
		2040 E	2112 U	N06 W05			1-	2	2045	2.15	2.15	2.15	25	Slow S-SWF
		2304	2344	N07 W06			1-	2	2322	.60	.60	.60	20	
		2316 U	2326 U	N06 W06			1-	2		1.13	1.11	1.11	17	
		2330	2400	PATROL			1-	2						
		0000	0055	PATROL										

SOLAR FLARES

AUGUST 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		APPROX. LAT.	LOCATION		DURA. TION - MINUTES	IM. POR. TANCE	OBS. COND.	MEASUREMENTS				PROVISIONAL IONOSPHERIC EFFECT	
		START	END		MAX. PHASE	APPROX. MER. DIST.				McMATH PLAGE REGION	TIME U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH He
	1962														
WENDEL	14	0115	0120		PATROL			1-	2						
CAPRI S	14	0130	0530	NO FLARE	PATROL		45 D	1-	3			2.40			
WENDEL	14	0551	0601	NO FLARE	S00 E71			1-				.80			
ATHENES	14	0635	0720		N04 E73			1-				.60			
WENDEL	14	0650	0700		N02 E73		31 D	1-				1.90			
CAPRI S	14	0653	0724		S01 E70			1-				4.00			
ONDREJOV	14	0810	0844		N04 E70			1-				1.90		3.20	
WENDEL	14	0825	0841		N03 E69		16 D	1-				8.00			
ATHENES	14	0825	0951		S01 E68		86 D	2				2.20			
ONDREJOV	14	0829	0841		N03 E70		12 D	1				.80			
WENDEL	14	0904	0918		N03 E68		14 D	1				2.20			
ONDREJOV	14	1107	1135	1109	N07 W14		18	1+				5.00			
ATHENES	14	1120	1133		N07 W14		28	1-				.40		3.00	
ATHENES	14	1120	1136		N02 E68		151 D	1-				.70			
ONDREJOV	14	1151	1336	1222	N04 E65		40 D	2				1.90		3.20	
CAPRI S	14	1152	1232		N04 E70		66 D	1				3.00			
WENDEL	14	1202	1308		N01 E66			2				9.00			
ONDREJOV	14	1341	1355		N07 W19			1-				.50		1.50	
WENDEL	14	1345	1355		N07 W15			1-				.30			
MCMATH	14	1659	1735	1700	N06 W17			1-				.50			
LOCKHEED	14	1829	1912	1839	N07 W17			1-				.30			
	14	2025	2055	NO FLARE	PATROL										
	14	2105	2120	NO FLARE	PATROL										
LOCKHEED	14	2159	2225	2205	N07 W17			1-				.30		20	
MCMATH	14	2159	2225	2202	N07 W21			1-				.40		20	
LOCKHEED	14	2159	2337	2302	N07 W17			1-				.50		20	
MCMATH	14	2256	2324	2302	N07 W23			1-				1.10			
MCMATH	14	2259	2324	2311	N07 W23			1-				1.00			
	15	0010	0115	NO FLARE	PATROL										
	15	0135	0600	NO FLARE	PATROL		6 D	1-							
ONDREJOV	15	0900	0906		N06 W24			1-				1.60		2.40	
ATHENES	15	0900	0911	0902	N05 W26			1-				1.50			
MCMATH	15	1145	1200	1147	N05 W30			1-				.30			
MCMATH	15	1207	1214	1210	N07 W30			1-				.20			
MCMATH	15	1229	1242	1233	N06 W30			1-				.30			
SAC PEAK	15	1420	1434	1426	N22 E40			1-				.29		17	
LOCKHEED	15	1704	1727	1709	N10 W28			1-				.50		10	
SAC PEAK	15	1704	1734	1708	N07 W30			1-				1.44		19	
MCMATH	15	1706	1730	1708	N08 W30			1-				.60			
SAC PEAK	15	1812	1834	1808	N07 W34			1-				.91		18	
LOCKHEED	15	2229	2239	2237	N05 W34			1-				.60		10	
MCMATH	15	2229	2239	2231	N05 W35			1-				.70			
MCMATH	15	2306	2313	2309	N06 W32			1-				.20		20	
LOCKHEED	15	2355	2400	NO FLARE	PATROL			1-							
	16	0000	0045	NO FLARE	PATROL										
	16	0130	0500	NO FLARE	PATROL										
	16	0555	0600	NO FLARE	PATROL										
ATHENES	16	1204	1218		N09 W39			1-				.80		1.00	

COMMENCE - STANDARDS - BOULDER

SOLAR FLARES

AUGUST 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		LOCATION		DUR- ATION MINUTES	IM- POR- TANCE	OBS. COND.	TIME U T	MEASUREMENTS		MAX. INT. %	PROVISIONAL IONOSPHERIC EFFECT
		START	END	APPROX. LAT.	MER. DISP.					MCMATH PLACE REGION	MEAS. AREA Sq. Deg.		
ONDREJOV	16	1319	1333 D	1321		14 D	1	2	1321	.52	.60	2.40	
SAC PEAK	16	1334	1352	1344			1-	3	1341	.52	.60	1.80	
ONDREJOV	16	1341 E	1349	1446			1-	3	1445	.20	.30	10	
SAC PEAK	16	1440	1452				1-	2	1632	.29	.33	16	
MCMATH	16	1444 E	1445 D				1-	1	1642	.29	.33	17	
LOCKHEED	16	1627 E	1636	1632			1-	2	1720	.30	.40	10	
SAC PEAK	16	1630	1636	1632			1-	2	2117	.30	.30	10	
MCMATH	16	1639	1646	1642			1-	2					
SAC PEAK	16	1718	1726	1722			1-	2					
MCMATH	16	1720 E	1725 D				1-	2					
LOCKHEED	16	1915	2020	NO FLARE			1-	2					
	16	2113	2133	2117			1-	2					
	16	2130	2140	NO FLARE			1-	2					
	16	2300	2320	NO FLARE			1-	2					
	16	2335	2340	NO FLARE			1-	2					
	16	2350	2400	NO FLARE			1-	2					
LOCKHEED	17	0000	0005	NO FLARE			1-	2	0013	.20	.20	10	
	17	0011	0021	0015			1-	2					
	17	0135	0555	NO FLARE			1-	1	1321	.30	.60	10	
MCMATH	17	1318	1330	1321			1-	2	1708	.50	1.00	10	
MCMATH	17	1707	1750	1708			1-	2	1717	.30	.40	10	
LOCKHEED	17	1712	1755	1725			1-	2	1741	.20	.20	10	
LOCKHEED	17	1736	1744	1741			1-	2	1739	.20	.20	10	
MCMATH	17	1737	1744	1739			1-	2	2240	.40	.90	10	
MCMATH	17	2237	2302 D	2240			1-	2					
	17	2345	2400	NO FLARE			1-	2					
CAPRI S	18	0000	0125	NO FLARE			1-	3	1025	2.20	2.30	20	
CAPRI S	18	0205	0550	NO FLARE			1-	3	1100	.60	1.50	20	
MCMATH	18	1056	1105	1105		40 D	1-	2	1421	.10	.10	20	
MCMATH	18	1419	1430	1421			1-	2	1806	.30	1.20	20	
MCMATH	18	1804	1818	1806			1-	2	2051	.40	.40	20	
MCMATH	18	2048	2101	2051			1-	2	2051	.40	.40	20	
LOCKHEED	18	2048	2103	2051			1-	2	2315	.20	.20	20	
LOCKHEED	18	2308	2323	2315			1-	2					
ATHENS	19	0000	0455	NO FLARE			1-	2					
ONDREJOV	19	0718	0736	0853			1-	3	0853	1.30	1.40	20	
ONDREJOV	19	0849	0909	0952 D			1	3	0948	1.00	1.00	20	
ONDREJOV	19	0941 E	0952 D				1-	2	1132	1.00	1.00	20	
CAPRI S	19	0946 E	1016 D				1-	2	1230	1.59	1.55	20	
ONDREJOV	19	1128	1142	1142			1	2	1655	1.00	1.00	20	
ONDREJOV	19	1228	1236 D				1-	2	1656	1.20	1.20	20	
SAC PEAK	19	1648	1700 D	1656			1-	2	1857	.70	.70	20	
LOCKHEED	19	1650	1713	1655			1-	2	1902	.80	.80	20	
LOCKHEED	19	1656 E	1715				1-	2					
MCMATH	19	1854	1915	1857			1-	2					
MCMATH	19	1854	1921	1902			1-	2					

SOLAR FLARES

AUGUST 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		MAX. PHASE	LOCATION		DURA-TION MINUTES	IM. POR-TANCE	OBS. COND.	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT	
		START	END		APPROX. LAT.	MER. DIST.				McMATH PLAGE REGION	TIME U T	MEAS. AREA Sq. Deg.		CORR. AREA Sq. Deg.
LOCKHEED	19 AUG 1962	2200	2225	NO FLARE	PATROL			1-	2	0.80	0.80	0.80	20	
		2240	2400	NO FLARE	PATROL									
		2306	2336	2316	N02 E08									
[ATHENES	20	0000	0510	NO FLARE	PATROL									
[WENDEL	20	0540 E	0625 D		N02 E02	6522	45 D	1+	3	3.80	3.80	3.80	15	
[SAC PEAK	20	0551 E	0620		N02 E02	6522	29 D	1+	3	.14	.14	.19		
	20	1326	1338	1332	N12 E56									
	20	1700	1755	NO FLARE	PATROL									
	20	1820	1845	NO FLARE	PATROL									
	20	1855	1900	NO FLARE	PATROL									
[SAC PEAK	20	2112	2122 D	2118	N02 E75			1-	1	1.07	1.07	1.03	17	
	20	2325	2335	NO FLARE	PATROL									
LOCKHEED	21	0038	0058	0045	N05 W21			1-	2	.70	.70	.70	10	
HONOLULU	21	0056	0112	0100	N01 W32			1-	2	.52	.54	.54		
	21	0205	0500	NO FLARE	PATROL									
[MCMATH	21	1342	1353	1348	N01 W26	6516		1-	2	.20	.20	.20		
[MCMATH	21	1538	1548	1539	N01 W27	6516		1-	2	.20	.20	.20		
[MCMATH	21	1718	1726	1720	N01 W28	6516		1-	2	.20	.20	.20		
LOCKHEED	22	0056	0112	0100	N00 W30			1-	1	.30	.30	.30	20	
	22	0205	0540	NO FLARE	PATROL									
[MCMATH	22	1419	1450 D	1426	N03 W31	6522		1-	2	.90	1.10	1.10		
[SAC PEAK	22	1420	1450	1436	N04 W30	6522	30	1	2	2.02	2.09	2.09	19	Slow S-SWF
[CAPRI S	22	1426 E	1507		N05 W29	6522	41 D	1	3	3.40	3.90	3.90		
[MCMATH	22	2307	2312	2309	N06 E85			1-	3	.20	.20	.20		
ONDREJOV	23	0205	0530	NO FLARE	PATROL									
[WENDEL	23	1315 E	1336		S12 W68			1-	3			1.40		
[SAC PEAK	23	1359 E	1635 D		S12 W67	6529	156 D	1+	1	.43	.83	.83	17	
[WENDEL	23	1608	1625 D	1618	S13 W68			1-	1					
[WENDEL	23	1622 E	1635 D		S12 W68			1-	1	.20	.20	.40	20	
[LOCKHEED	23	2357	0013	0005	S12 W70			1-	1					
WENDEL	24	0205	0600	NO FLARE	PATROL									
[SAC PEAK	24	0833 E	0841 D		N04 W51			1-	3	.58	1.44	1.44	17	
[CAPRI S	24	1332	1406	1358	S14 W80			1-	3	.40	2.00	2.00		
[WENDEL	24	1359 E	1402 D		S13 W76	6529	28 D	1-	3					
[SAC PEAK	24	1616 E	1644 D		S11 W84			1-	3	.43	1.07	1.07	17	
[LOCKHEED	24	1628	1642	1638	S13 W82			1-	1	.30	.30	.30	20	
[MCMATH	24	1630	1645	1635	S13 W80			1-	2	.30	1.20	1.20	20	
[LOCKHEED	24	1947 E	1952		S12 W88	6529		1-	2	.20	1.00	1.00	20	
[MCMATH	24	2127	2155	2135	S18 W90			1-	3	.20	1.00	1.00	20	
[MCMATH	24	2128	2158	2133	S12 W90	6529		1-	3	.20	1.00	1.00	20	
[MCMATH	24	2128	2158	2140	S12 W90			1-	2	.58	.58	.58	21	
[SAC PEAK	24	2128 E	2200 U	2140	S13 W89			1-	2	.72	.72	.72	21	
[SAC PEAK	24	2213	2252	2234	S12 W89			1-	2	.30	.30	.30	20	
[LOCKHEED	24	2225	2247	2234	S17 W90			1-	2			1.50		
	25	0205	0600	NO FLARE	PATROL									

SOLAR FLARES

AUGUST 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		LOCATION		DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	TIME — U T	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT
		START	END	APPROX. LAT.	MER. DIST.					MEAS. AREA Sq. Deg.	COOR. AREA Sq. Deg.	MAX. WIDTH Hg	
	AUG 1962												
ISTANBUL LOCKHEED	25	1625	1720	NO FLARE	PATROL								
	25	1730	1800	NO FLARE	PATROL								
HONOLULU	26	0200	0550	NO FLARE	PATROL	25 D	1U	2					
	26	0850 E	0900	0900	S06 W21		1-	2	1627	0.20	1.00		10
	26	1622	1640	1627	N04 W90								
	26	1730	1800	NO FLARE	PATROL								
	26	1825	1830	NO FLARE	PATROL		1-	2	2058	0.31	1.50		
HONOLULU	26	2042	2119	2058	N05 W90								
	26	2345	2355	NO FLARE	PATROL								
HONOLULU	27	0148 E	0152 D	0150	N07 W55		1-	2	0150	1.40	2.00		
	27	0200	0505	NO FLARE	PATROL								
	27	0635 E	0650 D	NO FLARE	PATROL		1-	2		1.30	1.30		
	27	0935 E	0954 D		S07 E81	19 D	1-				3.00		
	27	1006 E	1013 D		S07 E80		1-						
	27	1422	1445	1435	S08 E86		1-	2	1435	0.30	1.90		
	27	1428	1442	1436	S08 E88		1-	2		0.29			18
	27	1433 E	1441 D		S08 E80	8 D	1-	3	1436	0.60	3.10		
	27	1832	1844	1836	S07 E80		1-	2		0.29			17
	27	1839 E	1845		S08 E81		1-	2	1839	0.20	1.00		
MCMATH	27	2345	2350	NO FLARE	PATROL								
	28	0205	0545	NO FLARE	PATROL		1-	2	2252	0.20	0.30		
MCMATH	28	2250	2258	2252	N07 E48								
	29	0120	0125	NO FLARE	PATROL								
MCMATH	29	0135	0505	NO FLARE	PATROL								
	30	0205	0515	NO FLARE	PATROL								
MCMATH	30	0530	0545	NO FLARE	PATROL								
	31	0125	0130	NO FLARE	PATROL								
WENDEL	31	0145	0600	NO FLARE	PATROL								
	31	1112 E	1127 D		N08 E35	15 D	1				3.00		
	31	2020	2100	NO FLARE	PATROL								
	31	2115	2130	NO FLARE	PATROL								
	31	2222	2233	2226	N27 W13		1-	1	2226	0.10	0.10		10

SOLAR FLARES

AUGUST 1962

ATHENS	ATHENS, GREECE	HONOLULU	HAWAII, USA	NERA	NEDERHORST den BERGH,
BAKOU	PIRGULLI, USSR	IKOMASAN	KYOTO, JAPAN	NIZMIR	NETHERLANDS
CAPTOWN	ROYAL OBSERVATORY,	KIEV KO	KIEV GAO, USSR	SAC PEAK	KRASNAYA PAKHRA, USSR
CAPRI F	CAPE OF GOOD HOPE	KIEV KY	KIEV UNIVERSITY, USSR	SALTSJÖBADEN	SACRAMENTO PEAK, N.MEX. USA
CAPRI S	CAPRI, ITALY (GERMAN)	LOCKHEED	LOS ANGELES, CALIF., USA	SCHAUTINS	STOCKHOLM, SWEDEN
CRIMEE	CAPRI, ITALY (SWEDISH)	MCMATH	MCMATH-HUILBERT	TACHKENT	SCHAUTINSLAND, GFR
HERSTONCEU	SIMEIZ, USSR	MOSCOU	PONTIAC, MICH., USA	WENDEL	TASHKENT, USSR
	ROYAL GREENWICH OBSERVATORY,		MOSCOM-GAISH, USSR	WENDELSTEIN	WENDELSTEIN, GFR
	HERSTONCEUX, ENGLAND				HTE-PROVEN = HAUTE-PROVENCE

ALL VALUES IN THE MAXIMUM INTENSITY COLUMN FOR SAC PEAK ARE ARBITRARY UNITS (0-40) AND FOR LOCKHEED ARE ARBITRARY UNITS (10-40), NOT PERCENT OF CONTINUOUS SPECTRUM.

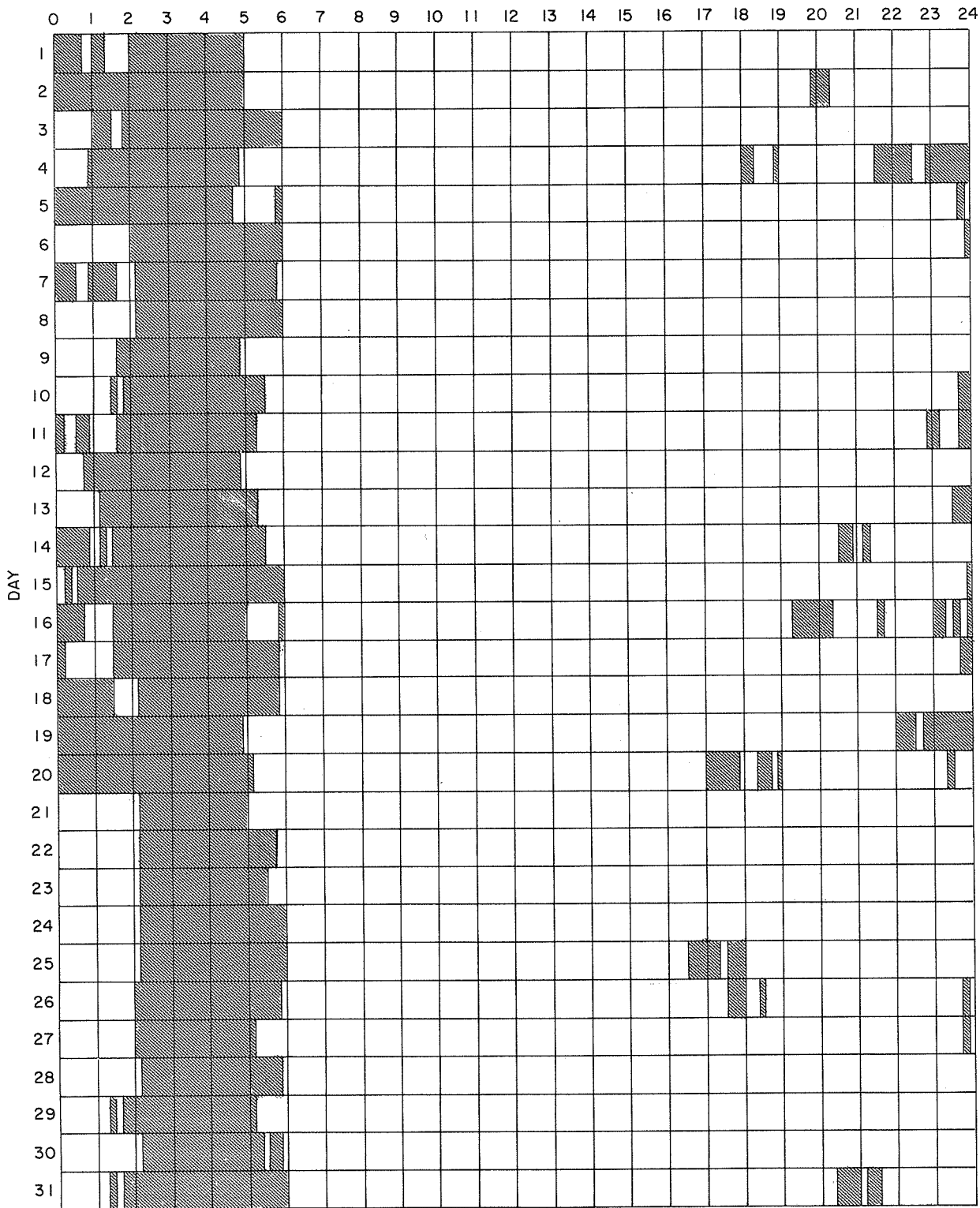
SEE DESCRIPTIVE TEXT PUBLISHED NOVEMBER 1961 FOR DEFINITION OF CORRECTED AREA VALUES LISTED FOR CLIMAX, HAWAII, LOCKHEED AND SACRAMENTO PEAK.

E = LESS THAN D = GREATER THAN U = APPROXIMATE □ = NOT REPORTED.

INTERVALS OF NO FLARE PATROL OBSERVATIONS

AUGUST 1962

HOUR-UT



COMMERCE - STANDARDS - BOULDER 355044H-195-04

Arcetri
Athens

Capri - (Swedish)
Honolulu

Istanbul
Ondrejov

Sacramento Peak
Wendelstein

SOLAR FLARES

MAY 1962

OBSERVATORY	DATE MAY 1962	OBSERVED UNIVERSAL TIME		LOCATION		DURA- TION MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	APPROX. LAT.				MER. DIST.	McARTH FLARE REGION	TIME U-T	
CAPE TOWN	01	0645 E	0729		N21 E69	44 D	2		2.00	6.50	6.50	S-SWF
ABASTUMANI	01	0648 E	0702 D	0652	N19 E70	14 D	2		2.07	6.80	6.80	
UCCLE	01	0953 E	1026		N22 E65		3		0.50	1.00	1.00	G-SWF
CAPRI F	01	1010	1023	1010	N20 E67		3		0.90	2.40	2.40	
UCCLE	01	1036	1042 D		N22 E66	30	1		1.10	2.90	2.90	G-SWF
CAPE TOWN	01	1150	1220	1159	N21 E65		1		1.50	4.00	4.00	
MEUDON	01	1241	1400 U		N15 E68	57	1		1.00	2.00	2.00	S-SWF
CAPE TOWN	01	1247	1344	1252	N21 E65		1		2.50	6.30	6.30	
CAPRI F	01	1325 E	1342 D	1325	N20 E65		2		3.19	3.96	3.96	S-SWF
CAPE TOWN	01	1353	1417 D	1356	N20 E65	24 D	1		2.73	3.26	3.26	
CAPRI F	01	1420 E	1438 D	1420	N21 E65		2		4.50	5.10	5.10	S-SWF
ALMA-ATA	03	0206	0237	0213	N11 W26	31	1+		4.68	5.20	5.20	
MEUDON	03	0630	0730	0652	N12 W27	60	1		2.06	2.90	2.90	S-SWF
CAPE TOWN	03	0639 E	0740	0656	N12 W28	61 D	2		2.50	6.30	6.30	
BAKOU	03	0652 E	0716	0700	N11 W30	24 D	1		3.19	3.96	3.96	S-SWF
BAKOU	03	0652 E	0720	0704	N12 W26	28 D	1+		2.73	3.26	3.26	
CAPRI F	03	0652 E	0720	0652	N12 W27	28 D	1+		4.50	5.10	5.10	S-SWF
ABASTUMANI	03	0700 E	0735 D	0716	N12 W28	35 D	1+		2.00	3.30	3.30	
UCCLE	03	0920	0922		N20 E39		1					S-SWF
UCCLE	03	1043	1048		N20 E39		1					
UCCLE	03	1104	1110		N20 E39		3					S-SWF
UCCLE	03	1106	1110		N13 W36		1					
UCCLE	03	1347	1353		N14 W30		3					S-SWF
UCCLE	03	1418	1429	1420	N14 W34		1		1420			
UCCLE	03	1546	1559	1551	N10 W30		1		1551			S-SWF
UCCLE	04	0950	1005	NO FLARE	PATROL		1					
UCCLE	04	1045	1105	NO FLARE	PATROL		1					S-SWF
UCCLE	05	0852.	0903 D	0854	N18 E12	7 D	1		2.00	3.30	3.30	
CAPRI F	07	0828 E	0835 D		N15 E55		3					S-SWF
UCCLE	08	0205	0220	NO FLARE	PATROL		1					
UCCLE	08	1300	1303		N15 E30		4					S-SWF
UCCLE	09	0825 E	0827 D		S17 W25		3					
UCCLE	09	1039 E	1050		S17 W26		1					S-SWF
UCCLE	09	1055 E	1105 D		S17 W26		3					
UCCLE	09	1149 E	1205 D		S17 W26		3					S-SWF
UCCLE	09	1222	1309		S17 W26		3					
UCCLE	09	1312 E	1350 D		S17 W26		3					S-SWF
CAPRI F	10	1400 E	1442 D		S16 W41		2		1.00	1.30	1.30	
UCCLE	10	1455 E	1615		S18 W43	80 D	1		2.00	3.00	3.00	S-SWF
UCCLE	10	1650	1726 D		S18 W42	36 D	3		2.00	3.00	3.00	
CAPRI F	11	0933 E	0937 D		S18 W51		3		1.00	1.50	1.50	S-SWF
UCCLE	11	1415	1431		S18 W60		3					
UCCLE	11	1435	1510		S10 E42		4					S-SWF
UCCLE	11	1435	1510		S10 E42		4					

SOLAR FLARES

MAY 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		LOCATION			DURA-TION MINUTES	IN-PORTANCE	OBS. COND.	MEASUREMENTS				PROVISIONAL IONOSPHERIC EFFECT
		START	END	APPROX. LAT.	MER. DIST.	MONTH FLARE REGION				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
ALMA-ATA	22 MAY 1962	0200	0215	PATROL				1-		0.258	0.41			52
	22	0256 E	0258 D	S08 E80				1-						
	22	0305	0335	PATROL										
CAPRI F	23	0652	0658	N16 E38								1.00		
CAPRI F	23	0652	0701	S08 E63			6427	1-	2	0652	0.50	4.00		
UCCLE	23	0855	0918 D	N14 E43			6426	1	2	0655	2.00	4.00		
UCCLE	23	0855	0918 D	S08 E63			6427	1	4		3.00	5.00		
UCCLE	23	0855	0918 D	S08 E63				1	4		2.00	4.00		
UCCLE	23	0855	0918 D	S08 W13				1	4	0858	0.90	1.20		
CAPRI F	23	0951	1016	N11 E41				1-	2	0958	1.00	1.30		
UCCLE	23	0956	1008	N12 E38				1-	4	0958	1.00	1.30		
UCCLE	23	1023 E	1142	N14 E43				1-	4		2.00	4.00		
UCCLE	23	1023 E	1231	S08 E63			6427	1	4	1034				
UCCLE	23	1025	1100	S08 W13				1-	4	1030				
UCCLE	23	1205	1220	N14 E43				1-	4					
UCCLE	23	1215	1238	S08 W12				1-	4					
UCCLE	23	1229	1238	N14 E43				1-	4					
UCCLE	23	1233	1250	N14 E43				1-	4					
UCCLE	23	1233	1250	S08 E60				1-	3					
UCCLE	23	1249	1310 D	S08 W13				1-	4	1239				
UCCLE	23	1322 E	1323 D	N14 E44				1-	4					
UCCLE	23	1322 E	1323 D	S08 E59				1-	4					
UCCLE	23	1322 E	1323 D	S08 W14				1-	4					
UCCLE	23	1337 E	1408	N14 E42				1-	4					
UCCLE	23	1337 E	1408	S08 E58				1-	4					
UCCLE	23	1337 E	1416	S08 W14				1-	4					
UCCLE	23	1417	1420 D	S08 E58				1-	4					
UCCLE	23	1502	1512 D	S08 E58				1-	4					
UCCLE	23	1502	1512 D	S08 W15				1-	4					
UCCLE	24	0909	0923	S07 E50				1-	4					
UCCLE	24	1001 E	1031 D	N13 E28				1-	3					
ABASTUMANI	24	1003 E	1021 D	N12 E28				1-	2					
UCCLE	24	1008	1012 D	S07 E48				1-	3		1.16	1.39		
	24	2310	2325	PATROL										
ALMA-ATA	25	0125	0150	PATROL										
NIZMIR	25	0200 E	0210 D	S08 E41				1-		0204	0.83	1.80		60
	25	0940 E	1015	S09 E40			6427	1						65
	26	0220	0245	PATROL										
	26	0325	0345	PATROL										
CAPRI F	27	0608 E	0614	S06 W08				1-	3	0610	1.00	1.00		
NIZMIR	27	0700 E	0733	S08 E08			6427	1			0.90	0.93		80
CAPRI F	27	1131 E	1148	S06 W11			6427	1	3	1145	3.00	3.00		
CAPRI F	27	1235 E	1245	S08 W13				1-	3	1240	1.00	1.00		
ABASTUMANI	29	0654 E	0949 D	N14 W39			6426	1	2	0724	2.70	3.70		70
NIZMIR	29	0708 E	0754	N12 W42				1-			2.20	2.27		
CAPRI F	29	0708 E	0755	N14 W40			6426	1	3	0723	1.80	2.40		

SOLAR FLARES

MAY 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		LOCATION		IM- POR- TANCE	OBS. COND.	TIME — U T	MEASUREMENTS		MAX. WIDTH H _g	MAX. INT. %	PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	APPROX. LAT.				MER. DIST.	MgMATH PLAGE REGION			
CAPE TOWN	29	0717	0749	0723	N13 W39	1		0723	2.50	3.30			
CAPRI F	29	0833 E	0848		N14 W40	1	3	0834	1.30				
CAPE TOWN	29	0932	0958	0934	N15 W42	1		0934	1.30	1.80			
CAPRI F	29	0940 E	0956		N14 W41	1	3	0942	1.00	1.30			
UCCLE	29	1003 E	1038	1007	N16 W43	1	3						
UCCLE	29	1016 E	1033		N11 W25	1	3						
UCCLE	29	1047 E	1119		N16 W43	1	3						
UCCLE	29	1101	1119	1107	N16 E70	1	3						
UCCLE	29	1106	1119		N11 W25	1	3						
UCCLE	29	1133	1201		N16 W43	1	3						
UCCLE	29	1142 E	1201		N11 W25	1	3						
UCCLE	29	1156	1254		N16 E70	1	3						
UCCLE	29	1206	1224		N11 W25	1	3						
UCCLE	29	1206	1354		N16 W43	1	3						
UCCLE	29	1302	1312		N11 W25	1	3						
CRIMEE	30	0751	0822	0755	N12 W51	1	2	0755	.90				
CAPE TOWN	30	0752	0818	0757	N14 W53	1	26	0757	1.90	3.20			
CAPRI F	30	0754	0823		N16 W53	1	3	0755	1.20	2.00			
CAPE TOWN	30	0808	0817	0810	S06 W38	1	3	0810	1.20	1.50			
CAPRI F	30	0812	0818		S06 W37	1	3	0814	1.00	1.60			
VOROSHILOV	31	0029	0038	0032	S07 W45	1	2		.80			66	
VOROSHILOV	31	0157	0212	0210	S11 W47	1	2		1.26			71	
ALMA-ATA	31	0157 E	0215 D	0202	S11 W48	1	3	0202	.72			56	
CAPRI F	31	0953	0956		N15 W69	1	3	0955	.25	.60			
CAPE TOWN	31	1046	1333 D	1101	N15 W70	2		1148	2.30	6.80			
CAPE TOWN	31	1046	1333 D	1148	N15 W70	2							
CAPRI F	31	1055 E	1230 D	1145	N14 W69	2	4	1145	3.50	7.70			G-SWF
KHARKOV	31	1125 E	1220 D		N13 W66	1	1	1130	1.70	4.60			
KIEV KO	31	1128 E	1200 D	1146	N15 W69	1+	1	1146	3.61			70	

SOLAR FLARES

MAY 1962

These flare reports are addenda to the May 1962 flares published in CRPL-F 214 Part B, June 1962.

ATHENS	ATHENS, GREECE	HONOLULU	HAWAII, USA	NERA	NEDERHORST den BERGH,
BAKOU	PIRCULI, USSR	IKOMASAN	KYOTO, JAPAN		NETHERLANDS
CAPETOWN	ROYAL OBSERVATORY, CAPE OF GOOD HOPE	KIEV KO	KIEV GAO, USSR	NIZMIR	KRASNAVA PAKHRA, USSR
CAPRI F	CAPRI, ITALY (GERMAN)	KIEV KY	KIEV UNIVERSITY, USSR	SAC PEAK	SACRAMENTO PEAK, N. MEX. USA
CAPRI S	CAPRI, ITALY (SWEDISH)	LOCKHEED	LOS ANGELES, CALIF., USA	SALTSJOBADEN	STOCKHOLM, SWEDEN
CRIMEE	SIMEIZ, USSR	MCMATH	MCMATH-HULBERT	SCHAUIS	SCHAILNSLAND, GFR
HERSTMONCEU	ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX, ENGLAND	MOSCOU	PONTIAC, MICH., USA	TACHKENT	TASHKENT, USSR
			MOSCOW-GAISH, USSR	WENDEL	WENDELSTEIN, GFR
					HTE-PROVEN = HAUTE-PROVENCE

ALL VALUES IN THE MAXIMUM INTENSITY COLUMN FOR SAC PEAK ARE ARBITRARY UNITS (0-40) AND FOR LOCKHEED ARE ARBITRARY UNITS (10-40), NOT PERCENT OF CONTINUOUS SPECTRUM.

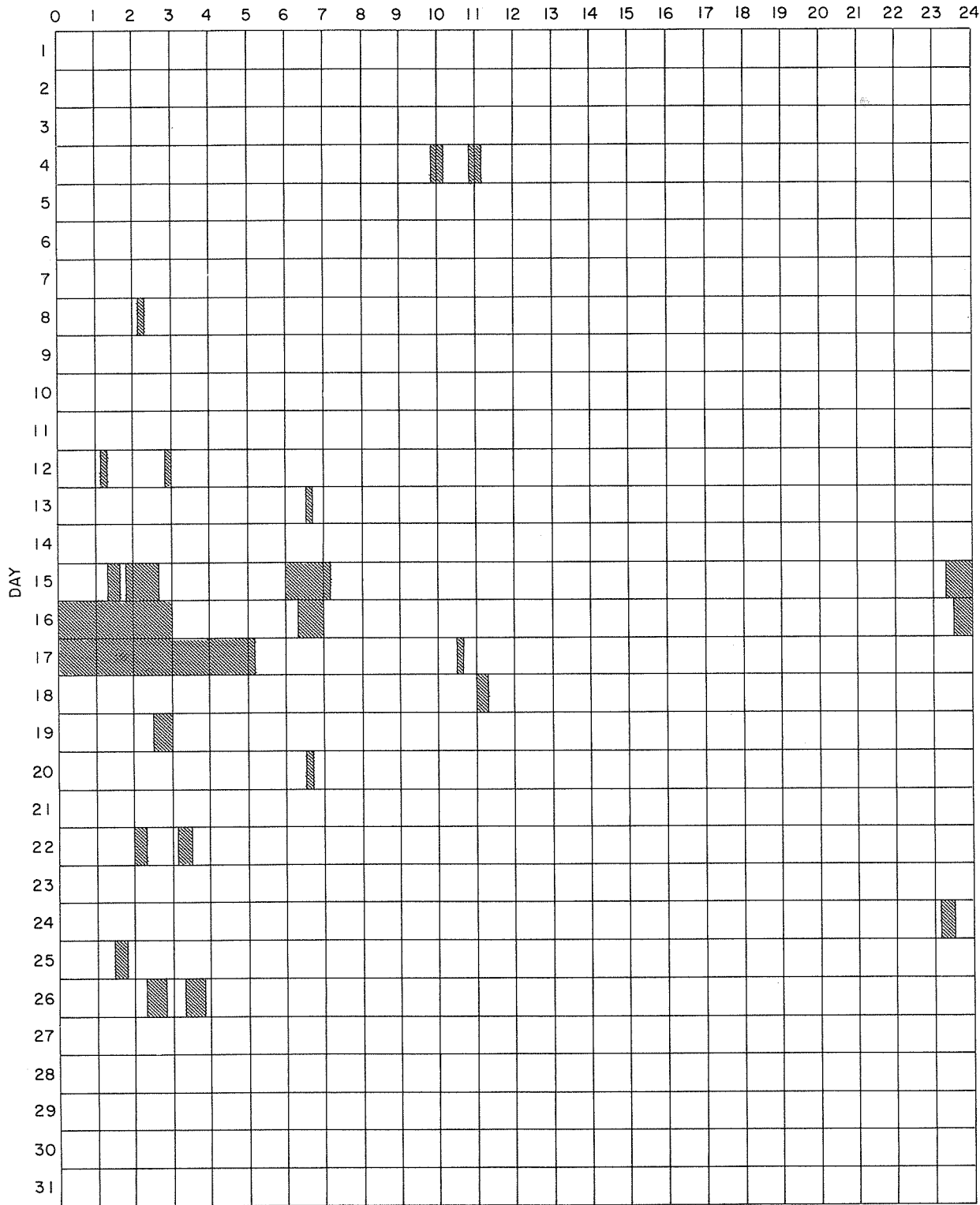
SEE DESCRIPTIVE TEXT PUBLISHED NOVEMBER 1961 FOR DEFINITION OF CORRECTED AREA VALUES LISTED FOR CLIMAX, HAWAII, LOCKHEED AND SACRAMENTO PEAK.

E = LESS THAN D = GREATER THAN U = APPROXIMATE □ = NOT REPORTED.

INTERVALS OF NO FLARE PATROL OBSERVATIONS

MAY 1962

HOUR-UT



COMMERCE - STANDARDS - BOULDER

- | | | | | | |
|------------|------------------|----------|----------------|-----------------|-------------|
| Abastumani | Capri (German) | Honolulu | Kodaikanal | Moscou | Sydney |
| Alma-Ata | Capri (Swedish) | Huancayo | Locarno | Nizamiah | Tachkent |
| Arcetri | Climax | Ikomasan | Lockheed | Nizmir | Uccle |
| Arosa | Crimée | Istanbul | McMath-Hulbert | Ondrejov | Voroshilov |
| Bakou | Dunsink | Kharkov | Meudon | Sacramento Peak | Wendelstein |
| Bucharest | Haute - Provence | Kiev Ko | Mitaka | Saltsjöbaden | Zurich |
| Capetown | Herstmonceux | | | | |

IONOSPHERIC EFFECTS OF SOLAR FLARES

IIIo

SHORT WAVE RADIO FADEOUTS
 SUDDEN COSMIC NOISE ABSORPTION
 SUDDEN ENHANCEMENTS OF ATMOSPHERICS
 SUDDEN PHASE ANOMALIES
 SOLAR NOISE BURSTS AT 18 Mc

JULY 1962

JULY 1962	UNIVERSAL TIME			SWF TYPE	IMPORTANCE					WIDE SPREAD INDEX	STATIONS	KNOWN FLARE
	START	END	MAX		IMP	ABS	SCNA	SEA	SPA			
01	1803	1920		SL 1+						5	HU PR AD	
02	1435	1657		G 3+						4	HU PR	
03	1725	1743		SL 1-						5	PR BO HU WS	
04	2035	2135		G 1						4	WS HU	
* 05	1429	1431							1	4	MC BO	
* 05	1708	1745	1716				3			4	A9 A1 MC A5	
* 05	1715	1730	1720					22		1	BO	
* 05	1716	1726	1721		10	1				2	BO MC (Gradual onset)	1716
* 05	1716	1800	1725				1			3	MC A10	
* 05	1717	1728		S 1						3	BE MC PR	
* 05	1749	1753							1	5	MC HA BO	
* 05	1930	1955	1940				3+			3	A9 A1 A5	
* 05	1935	2001	1944	SL 1				35		3	BE MC PR	1932
* 05	1935	2030	1944							1	BO	
* 05	1938	2000	1943		20	1				5	BO HA MC	
* 05	1939	2005	1947				2			5	HA MC A10	
* 05	1940	2000		S 1						4	BE MC PR	
06	1420	1432		S 1-						4	HU PR	
06	1501	1550		G 1+						4	BE HU	
06	1557	1633		G 1						4	WS BE PR	
06	1718	1735		SL 1						4	PR BO WS	
07	1303	1328		S 1+						4	PR HU	
08	1350	1430		SL 1+						4	HU PR	
09	1803	1950		G 2						4	PR HU	
11	1506	1550		SL 1+						1	HU	1501E
18	1722	1756		S 1						3	WS PR	1735
20	1515	1539		G 2+						4	WS PR HU	
20	2243	2246							1	5	HA MA	
20	2302	2305							1	5	HA MA	
21	1510	1555		SL 1+						5	HU MC	1451E
21	1630	1706		SL 1						4	HU PR	
24	0018	0021							1	5	HA MA	
25	1658	1932		G 2						4	BE BO HU WS	
29	1804	1900		G 1						4	BE HU PR	1813
31	1500	1528		SL 2						4	WS HU	
31	1638	1658		SL 1-						4	MC HU WS PR	

IVa

**SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES**

SEPTEMBER 1962

ARO-OTTAWA

2800 MC.

Aug. 1962	Type	Start UT	Duration Hrs:Mins	Maximum			Remarks			
				Time UT	Peak Flux	Mean Flux				
13	2 Simple 2 f	2039.5	2.6	2041	23	7				
	4 Post Increase		30		2	1				
15	8 Group (2)	2305.5	5	2306	22	6				
	2 Simple 2	2305.5	1.5							
	6 Complex	2307.5	3					2308.5	9	4
16	8 Group (3)	1250	30	1250.5	4	1.5				
	1 Simple 1	1250	1							
	2 Simple 2 f	1255.5	1.5					1255.6	10	2.5
	2 Simple 2	1257.9	2.1					1258	8	2.5
	5 Absorption	1300	20					- 2	- 1.5	
19	1 Simple 1	1128.3	3	1129	6	2.5				
22	3 Simple 3	1422	1 35	1435	3	2				
29	2 Simple 2 f	1214	1	1214.3	9	2				
29	2 Simple 2 f	1410.8	1	1411	8	2				

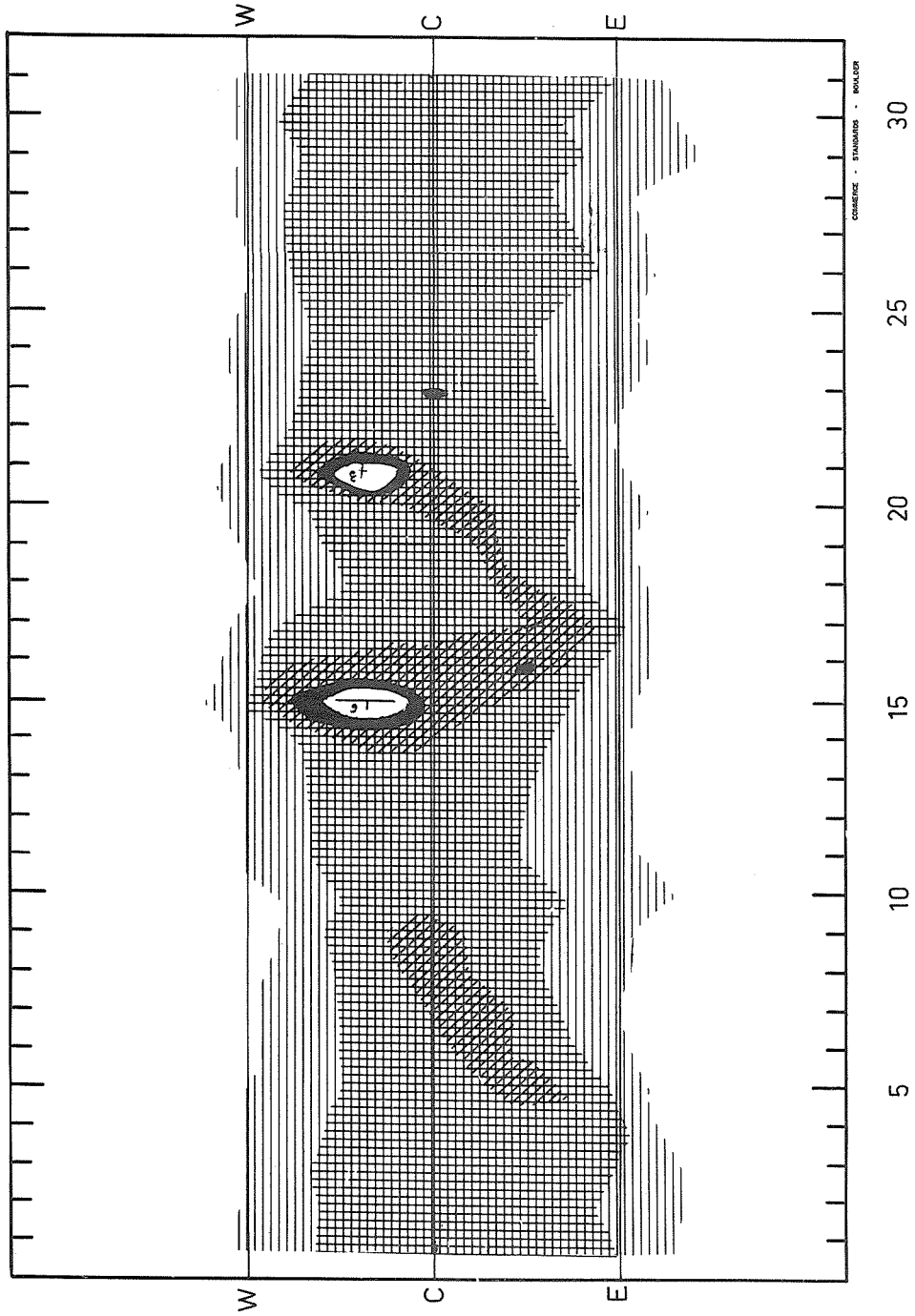
COMMERCE - STANDARDS - BOULDER

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS

AUGUST 1962

169 Mc

Meady



AUGUST 1962

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
AUGUST 1962

BOULDER

108 Mc.

Aug 1962	Type	Start UT	Time of Maximum UT	Duration Minutes	Intensity
1	3	1811.4	1812.1	1.7	3
7	6	1209E		110D	1
7	3	1214.4	~1215.5	1.9	3
7	3	1246.1	1246.6	1.7	2
8	6	1210E		120D	1
9	6	1210E		125D	1
9	3	1244.9	1245.6	1.5	2
9	3	1552.7	1553.0	0.8	2
9	3	1555.0	1555.9	1.9	2
9	3	1613.1	1613.5	1.8	2
12	3	1727.0	1727.7	1.1	3
13	6	1214E	1344.1	105D	1
13	3	1252.1	1253.3	1.8	3
13	3	1353.9	1354.2	1.4	3
13	3	2039.5	2040.3	1.5	2
14	3	1334.2	1336.5	1.8	3
15	3	0059.9	0001.0	3.1	2
18	3	1423.1	1423.8	1.2	3
19	2	1227.1	1228.4	1.8	3
19	3	1653.3	1654.0	1.5	3
19	3	1901.0	1901.1	1.1	2

COMMERCE - STANDARDS - BOULDER

NOMINAL TIMES OF OBSERVATION
OUTSTANDING OCCURRENCES

AUGUST 1962

BOULDER

108 Mc.

Aug. 1962	U. T.	Aug. 1962	U. T.
1	1203-0155	19	1220-0135 I 1959-2255
2	1204-0154	20	1221-1445; 1710-0133
3	1205-0153 I 1756-2135	21	1222-2147 I 1854-2147
4	1206-0152 I 1913-2256	22	1653-0130 I 2300-0050
5	1207-0151		
6	1555-1953; 2030-0150	23	1224-0129 I 1753-0129
7	1209-0148	24	1225-0127
8	1210-0147	25	1332-2240
9	1210-0146 I 1840-0146	26	No usable record
		27	1720-0123
10	1211-2022; 2120-0145	28	1229-0121
11	1212-0143	29	1229-0120
12	1213-0142 I 1500-0052	30	1230-0118 I 2050-2310
13	1214-1854; 1905-0142	31	1231-0117
14	1215-0140 I 1215-1940		
15	1216-1541 I 1216-1541		
16	No usable record		
17	2052-0137 I 2052-2330		
18	1219-0136 I 1826-2335		

COMMERCE - STANDARDS - BOULDER

SOLAR RADIO EMISSION SPECTRUM OBSERVATIONS

IVd

AUGUST 1962

HAO BOULDER

7.6-41 Mc

Date 1962	Bursts			Frequency Range (mc)	Date 1962	Bursts			Frequency Range (mc)	
	Type	Time (U.T.)	Inten- sity			Type	Time (U.T.)	Inten- 'sity		
1 Aug	III	1619-1619.30	1	11.5-41	13 Aug	III	2445-2445.30	1+	23-41	
	III	1620-1620.45	1-	12-31		14	III	1518.45-1519.15	1-	21-41
	III	1621.15-1621.30	1	18-41		III	1520-1520.30	1-	20-41	
	III	1624.30-1701	1	8-41		III	* 2148.45-2149.15	1	22-41	
	III	1703.45-1704.30	1	7.6-41		15	III	1541-1542	1	12-41
	III	1932.30-1940.45	1-	21-41		III	1707.45-1708	1-	27-41	
	III	2257.45-2259	1+	7.6-41		III	1830-1830.30	1-	21-32	
	III	2303.30-2304.45	1	13.5-41		III	1859-1859.15	1	16-28	
	III	2433-2433.30	1	16-41		III	1905.45-1906.15	1-	22-40	
	2	III	1452.45-1453.30	1-		22-35	III	1947.45-1949	2-	7.6-41
3	III	2423.30-2424	1+	16-41	16	III	1950-1950.15	1	21-33	
	III	1501-1501.15	1-	21.38		III	2001-2003	2-	8-41	
	III	2026.15-2027	1+	7.6-41		III	2010.15-2010.45	1	23-38	
	III	2005.45-2008	2-	7.6-41		III	2013.45-2015	1	16-39	
	10	III	1416.30-1417	1		12-41	III	2016-2017	1	22-41
	13	III	1417.45-1418.15	1		12-41	III	2017-2018.45	1+	15-41
		III	1419.30-1420	1+		12-41	III	2035.15-2036.15	1+	20-41
		III	1431.30-1431.45	1-		22-33	III	2041.15-2043.15	2-	7.6-41
		III	1432.45-1433.30	1+		12-41	III	2049.15-2049.45	1+	20-41
		III	1434-1434.30	1		12.5-41	III	2053.15-2055.30	2	7.6-41
III		1434.30-1435	1+	12.5-41	III	2110.30-2111	1	22-41		
III		1437.15-1437.30	1-	21-41	III	2141.30-2142	1	26-40		
III		1453.30-1454.15	1-	22-41	III	2150.30-2151.15	1	20-41		
III		1506.30-1507	1+	20-41	III	2212-2212.15	1-	21-41		
III		1518.15-1519	1-	21-41	III	2219.45-2220.30	1+	15-41		
III	1519.45-1520.30	1+	21-41	18	III	2231.15-2231.45	1-	34-41		
	III	1527.30-1527.45	1+		20-41	III	2238.15-2238.45	1	20-41	
	III	1544.45-1545	1		24-41	III	2252.30-2253.30	1+	16-41	
	III	1630.45-1631.15	1-		24-37	III	2305.30-2310	2	7.6-41	
	III	1834.15-1834.30	1		21-41	III	2406.15-2406.30	1-	21-41	
	III	1911.15-1912.15	1+		8-41	III	2410.15-2411.45	1+	15-41	
	III	1918.45-1920.45	2-		7.6-41	III	1401.45-1402.15	1-	26-41	
	III	1921-1922	2-		7.6-41	III	1409.45-1410.15	1	23-41	
	III	1924.45-1925	1-		21-41	III	1431.30-1433.15	2-	9-41	
	III	1925.30-1926	1+		7.6-41	III	1438.30-1441	2-	8.5-41	
III	1936-1936.15	1-	20-38	continuum	III	1442.45-1444.45	2-	11-41		
	III	1959.30-1959.45	1-		21-41	III	1445-1447	2	7.6-41	
	III	2009.15-2009.45	1+		19-41	III	1606.30-1607.15	1-	27-38	
	III	2014.45-2015.30	1		20-41	III	1612.30-1613	1-	16-40	
	III	2016.15-2016.45	1-		21-41	III	1628.15-1628.30	1	18-40	
	continuum	2033.45-2034	1-		21-34	III	1635.30-1636	1	21-38	
	III	2035.15-2045.45	1		12-41	III	1651.30-1652	1-	21-33	
	III	2039.45-2041.30	2		7.6-41	III	1735-1735.30	1	24-41	
	III	2045-2046.15	2-		7.6-41	continuum	1800-2000	1-	23-41	
	III	2048.45-2050.30	2		7.6-41	III	1803.15-1803.30	1	20-41	
III	2124.15-2126.30	2-	8-41	18	III	1809.15-1809.45	1	22-41		
	III	2126.45-2127.15	1		21-40	III	2240.15-2240.30	1-	22-41	
	III	2127.30-2128.15	1		22-40	III	2331-2331.30	1-	22-35	
	III	2130-2131	1		11-41	III	2459.30-2459.45	1-	25-38	
	III	2211-2212.15	1+		12-41	III	1402.15-1403	1	15-37	
	III	2213.30-2215	1-		18-41	III	1406.30-1407.30	1+	12-40	
	III	2304-2305.30	2-		11-41	III	1414.45-1415.15	1	16-38	
	III	2309-2309.45	1		20-41	III	1415.30-1417	1+	11-40	
	III	2310.30-2311	1-		22-41	III	1417.30-1419.30	1	16-41	
	III	2314.15-2314.30	1		21-41	III	1420.15-1421.30	2-	8.5-41	
III	2317.45-2318.15	1-	17-41	III	1551.45-1552.15	1-	16-33			
	III	2318.45-2319.30	1		17-41	III	1558.15-1559.15	1	11-41	
	III	2321.15-2322.45	1+		11-41	III	1609-1609.30	1-	21-36	
	III	2349.30-2351	1		20-41	III	1639.15-1640.30	1+	8-36	
	III	2442.30-2443.15	1-		20-41	III	1700.15-1703	2-	7.6-41	

* No observations 1800-2200

COMMERCIAL - STANDARDS - BOULDER

SOLAR RADIO EMISSION SPECTRUM OBSERVATIONS

AUGUST 1962

HAO BOULDER

7.6 - 41 MC.

Date 1962	Bursts			Frequency Range (mc)	Date 1962	Bursts			Frequency Range (mc)	
	Type	Time (U.T.)	Inten- sity			Type	Time (U.T.)	Inten- sity		
18 Aug	III	1703.15-1704.45	1+	7.6-41	22 Aug	III	2336-2337.15	1	16-41	
	III	1851-1853.30	1+	7.6-38		III	2341.45-2342.15	1-	21-38	
	III	1854-1855	1+	7.6-41		24	III	1354.30-1355	1	21-41
	III	1855-1856.45	2-	7.6-41			III	1356.30-1357.15	1-	21-41
	III	1859.15-1859.45	1	21-41			III	1632.30-1633	1	21-41
	III	1902.15-1902.30	1	16-41	III	1946.30-1947.15	1-	24-39		
	III	1956.15-1957.45	1	8.5-41	III	2027-2027.15	1-	24-37		
	III	2002.15-2002.45	1-	22-41	III	2049.30-2050	1	21-41		
	III	2017.45-2019.45	2-	7.6-41	III	2106.45-2107	1-	24-41		
	III	2046.45-2047	1-	18-37	III	2133.45-2134.30	1+	12-41		
	III	2047.45-2048.45	1	8-40	III	2136.45-2137.30	1+	12-41		
	III	2049.15-2051	1+	7.6-41	III	2219-2219.30	1-	23-39		
	III	2051.15-2052.45	1+	7.6-41	III	2327.30-2328.30	1	20-40		
	III	2052.45-2054.15	1	7.6-41	III	1437-1437.30	1-	22-41		
III	2138.45-2139.15	1-	20-35	II	1519-1523	1-	28-41			
19	III	2251-2251.30	1	11-38	III	1520-1521.30	1	28-41		
	III	1540-1540.30	1-	26-38	III	2249-2250	1	16-41		
	III	1649.30-1650	1	8-41	III	2250.15-2250.45	1-	16-41		
	continuum	1650.30-1655.30	2	7.6-41	III	1739.30-1739.45	1	22-41		
	III	*b1857-1859.45	2	7.6-41	III	1739.45-1740	1-	24-41		
20	III	1955.15-1955.30	1-	23-41	31	III	1757.15-1757.45	1-	7.6-35	
	III	1417.45-1418	1-	18-35		III	1758-1758.30	1-	7.6-35	
	III	1654.15-1654.30	1-	23-39		III	2325.30-2325.45	1	16-41	
	III	2324.30-2325.30	1	16.5-41						
21	III	1716.15-1717.45	1	7.6-35						
	III	1718.30-1719.45	1+	7.6-41						
22	III	1912-1914.15	1	7.6-38						
	III	2009.45-2011.15	1	8.5-40						
	III	1637.45-1640	3	7.6-41						
	III	2329.30-2330	1	21-38						
		* No observations 1855-1857								

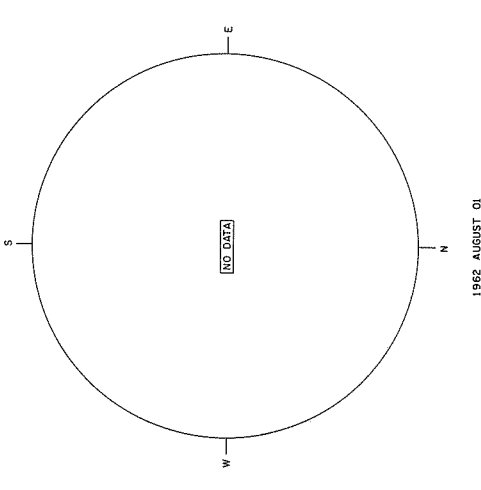
COMMENCE - STANDARD - BOLDER

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

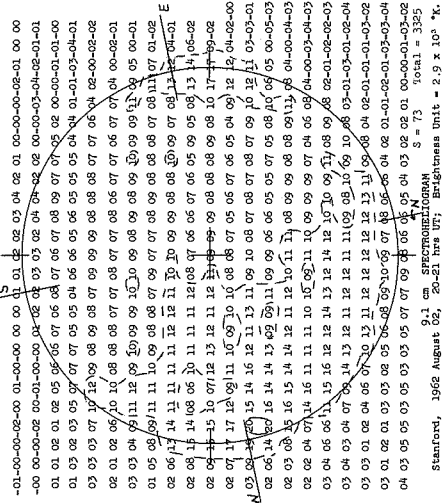
AUGUST 1962

STANFORD

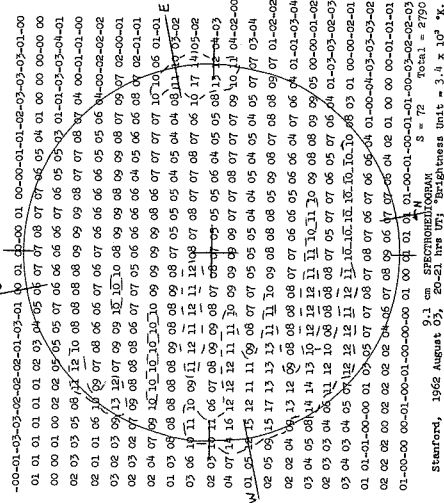
9.1 cm



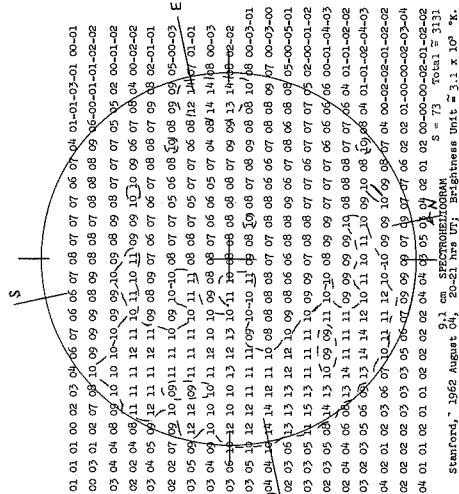
1962 AUGUST 01



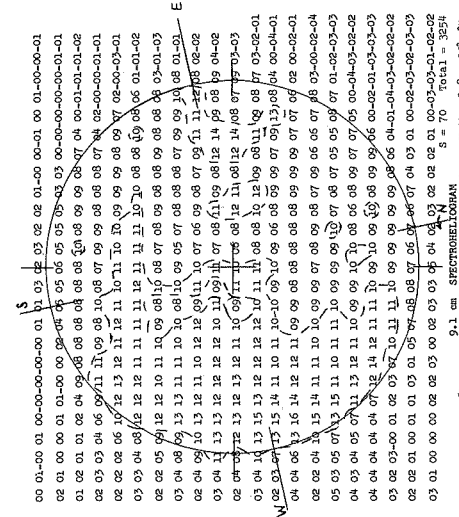
Stanford, 1962 August 02, 9.1 cm, SPECTROHELIOGRAM S = 73. Total = 3254.
Brightness Unit = 2.8 x 10⁶ K.



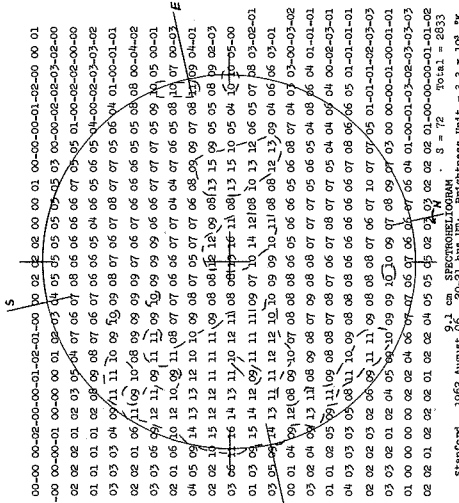
Stanford, 1962 August 03, 9.1 cm, SPECTROHELIOGRAM S = 72. Total = 2790.
Brightness Unit = 3.4 x 10⁶ K.



Stanford, 1962 August 04, 9.1 cm, SPECTROHELIOGRAM S = 73. Total = 3131.
Brightness Unit = 3.1 x 10⁶ K.



Stanford, 1962 August 05, 9.1 cm, SPECTROHELIOGRAM S = 72. Total = 2833.
Brightness Unit = 3.3 x 10⁶ K.

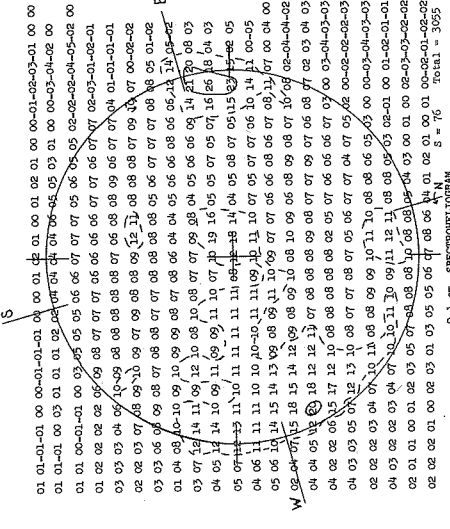
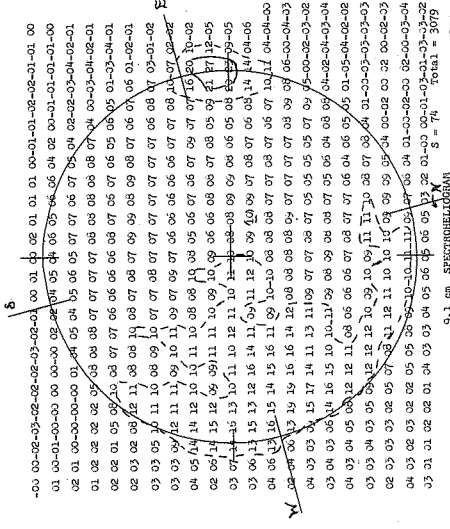
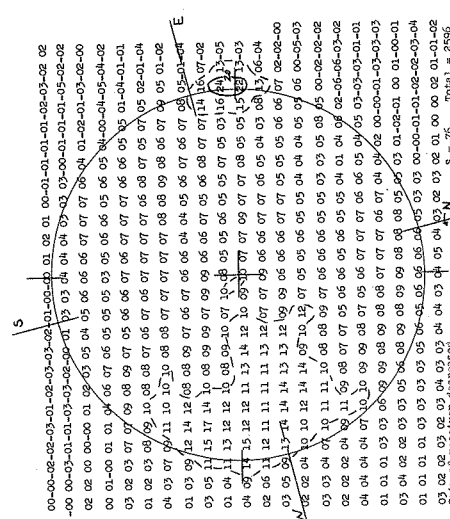
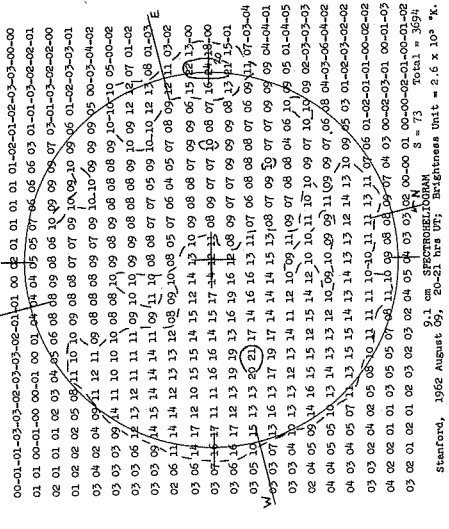
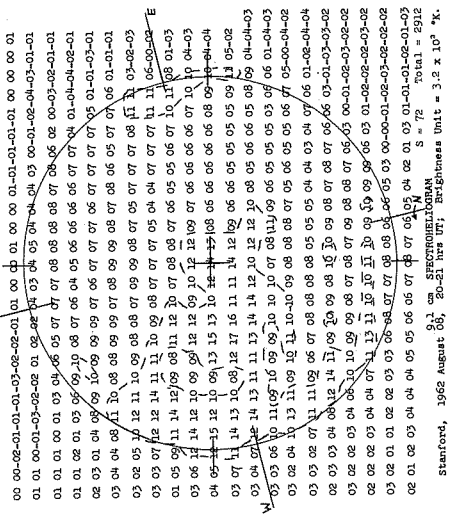
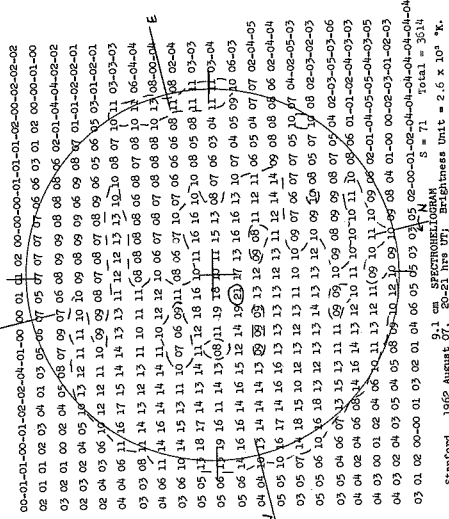


Stanford, 1962 August 06, 9.1 cm, SPECTROHELIOGRAM S = 75.
Brightness Unit = 2.8 x 10⁶ K.

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

AUGUST 1962

STANFORD

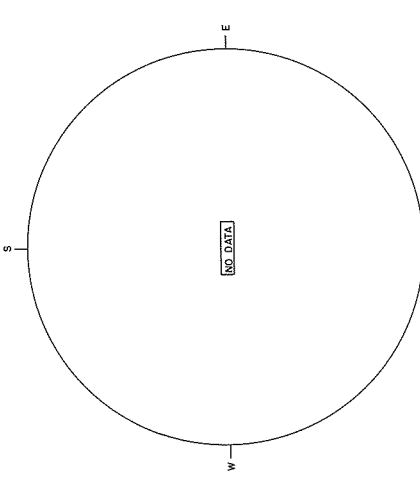
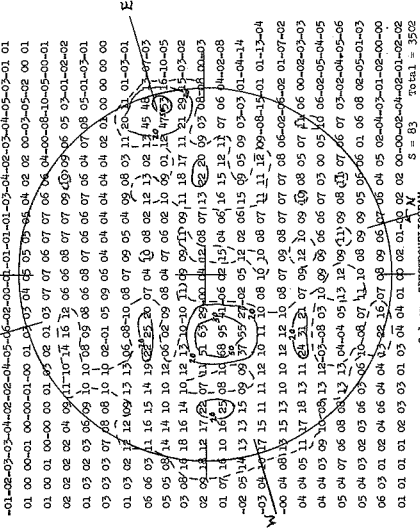
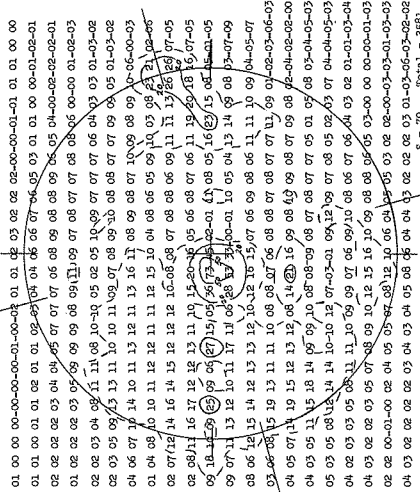


SOLAR RADIO EMISSION SPECTROHELIOGRAMS

AUGUST 1962

STANFORD

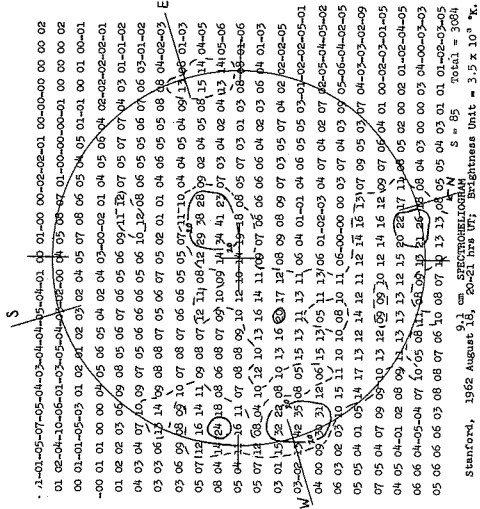
9.1 cm



1962 AUGUST 15

1962 AUGUST 16

1962 AUGUST 17



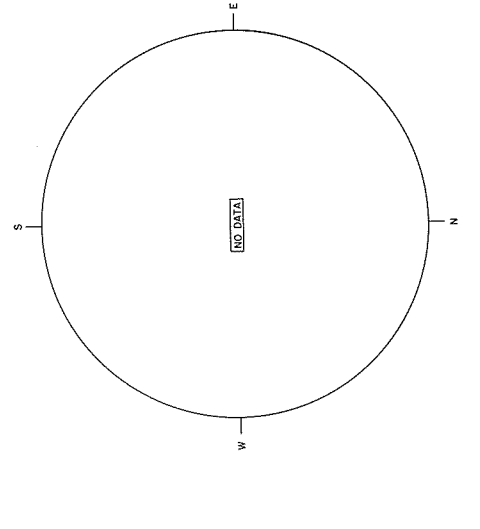
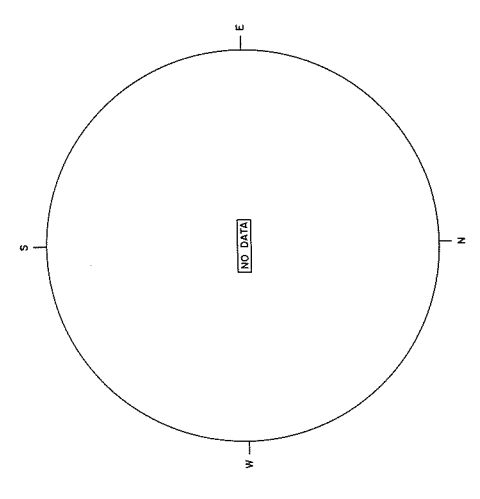
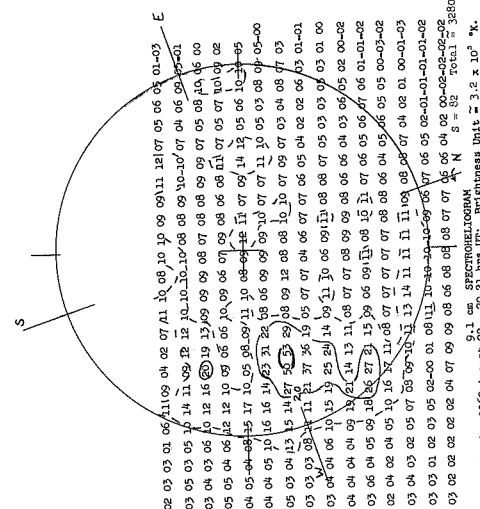
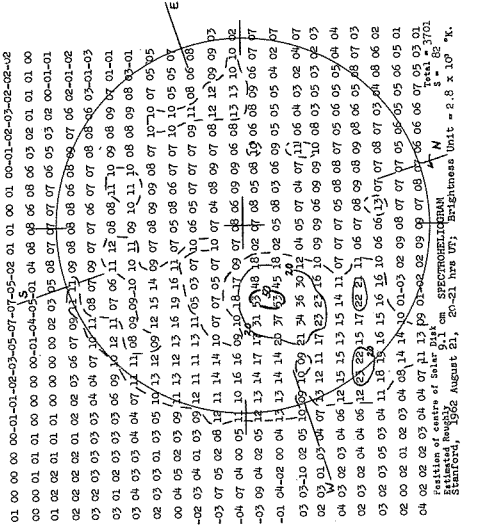
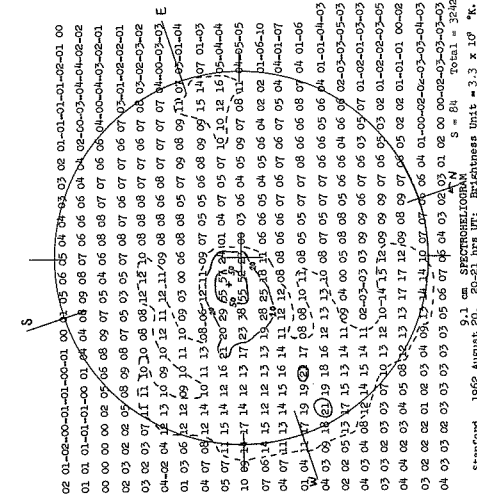
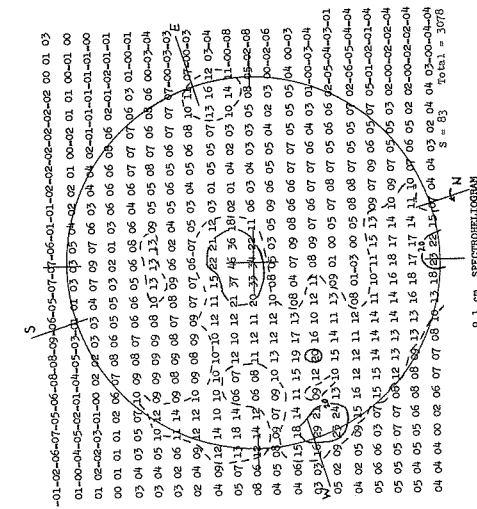
IVh

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

AUGUST 1962

STANFORD

9.1 cm



1962 AUGUST 24

1962 AUGUST 23

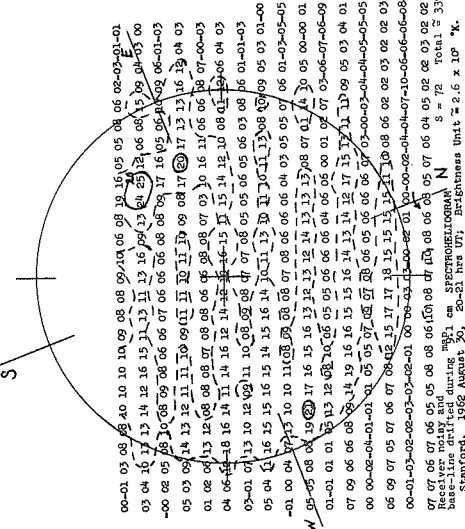
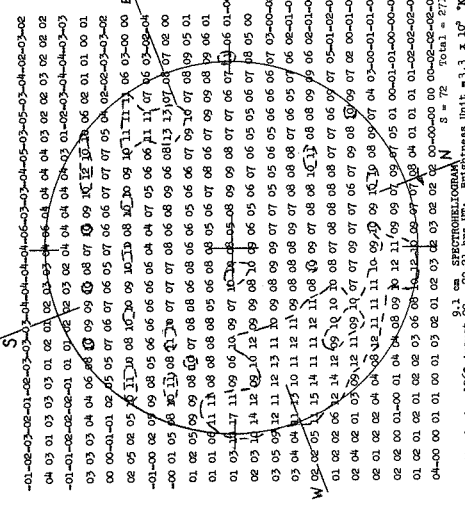
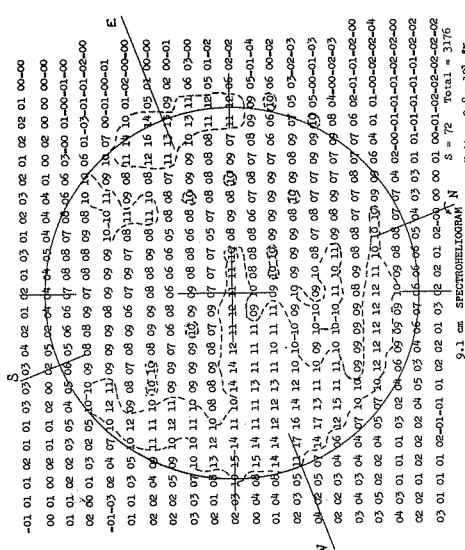
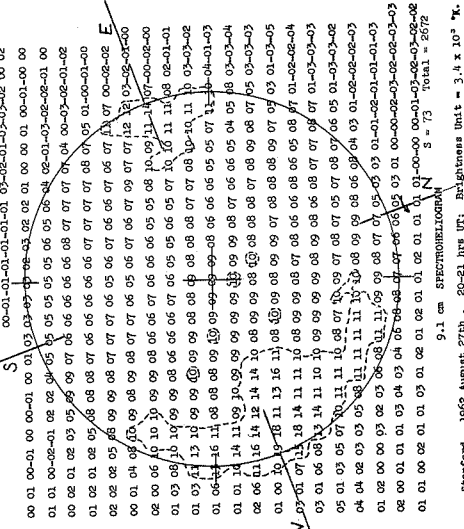
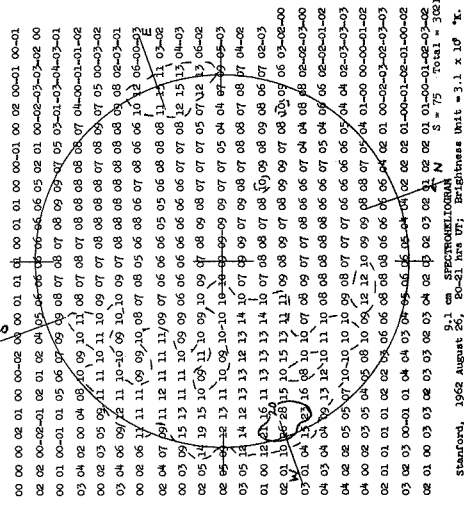
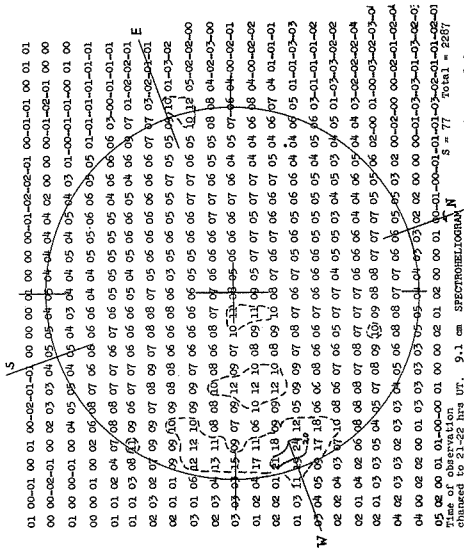
1962 AUGUST 22

1962 AUGUST 21

SOLAR RADIC EMISSION SPECTROHELIOGRAMS
AUGUST 1962

STANFORD

9.1 cm



STANFORD

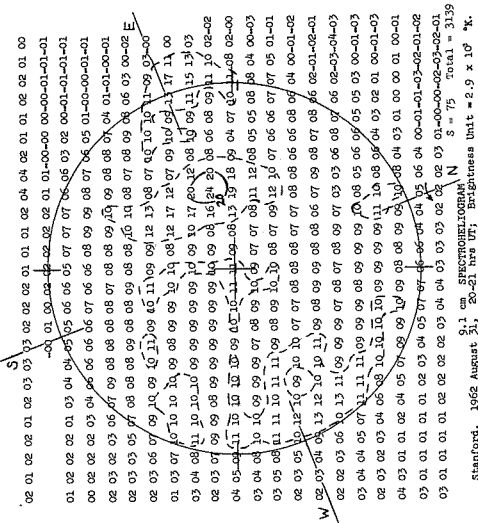
9.1 cm

IVj

STANFORD

SOLAR RADIO EMISSION SPECTROHELIOGRAMS
AUGUST 31 1962

9.1 cm



COSMIC RAY INDICES

Va

Climax Neutron Monitor
IGC STATION B 305

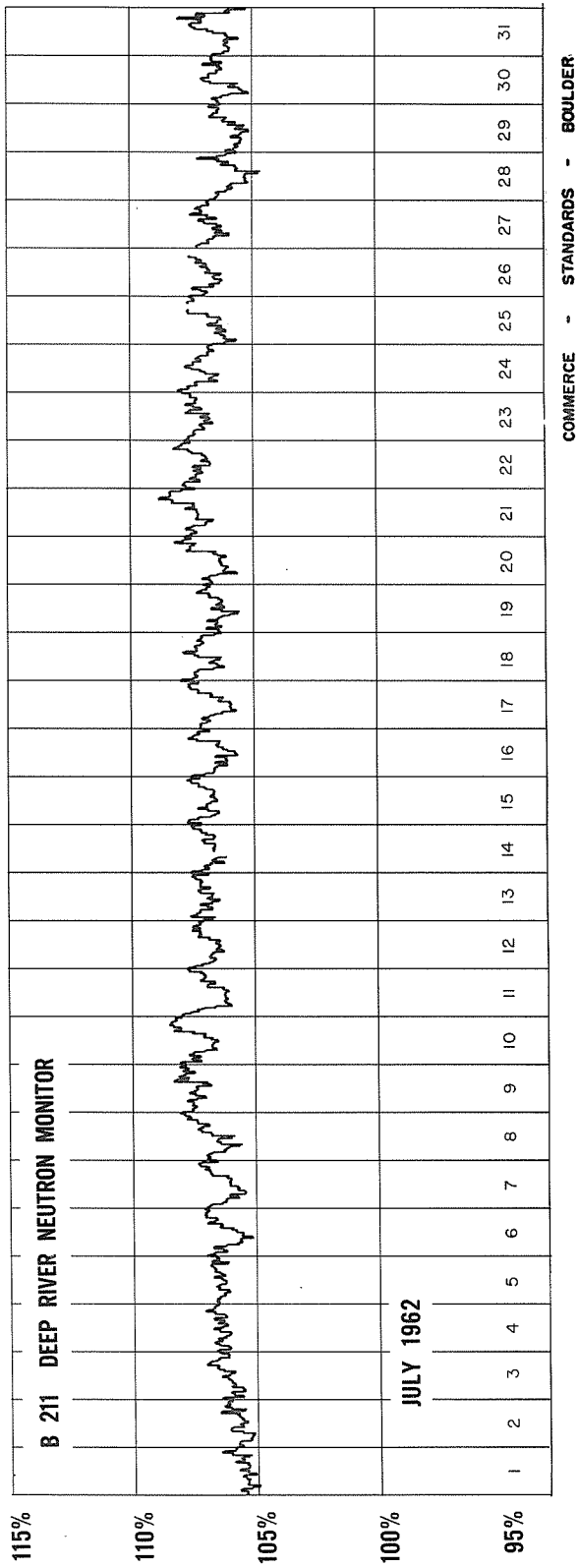
JULY 1962

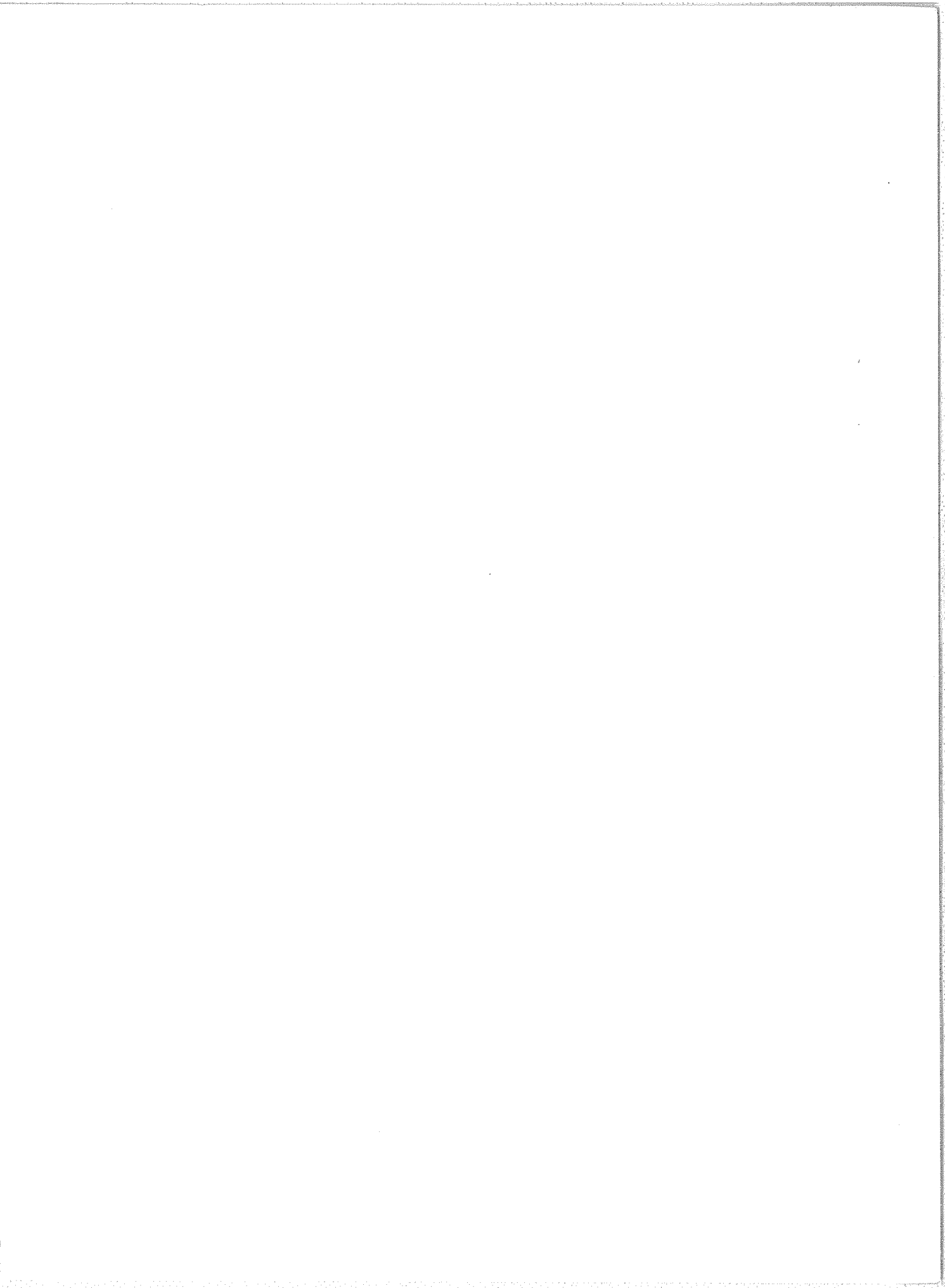
July 1962	Daily average counts/hr*	July 1962	Daily average counts/hr*
1	3057.2	16	3094.5
2	3064.1 + 34	17	3087.9
3	3079.6	18	3094.6
4	3092.9 + 34	19	3070.5
5	3090.1	20	3090.2
6	3091.3	21	3094.8
7	3086.1	22	3091.6
8	3090.7	23	3107.3 + 35
9	3096.9	24	3093.9
10	3111.8	25	3087.9
11	3096.0	26	3086.3 + 38
12	3086.0	27	3092.6 + 16
13	3097.6	28	3067.2
14	3096.8	29	3070.3
15	3090.5	30	3078.0
		31	3068.0

COMMERCE - STANDARDS - BOULDER

* Scaling Factor 128
+ Number of Section Hours

COSMIC RAY INDICES
(Pressure Corrected Hourly Totals)

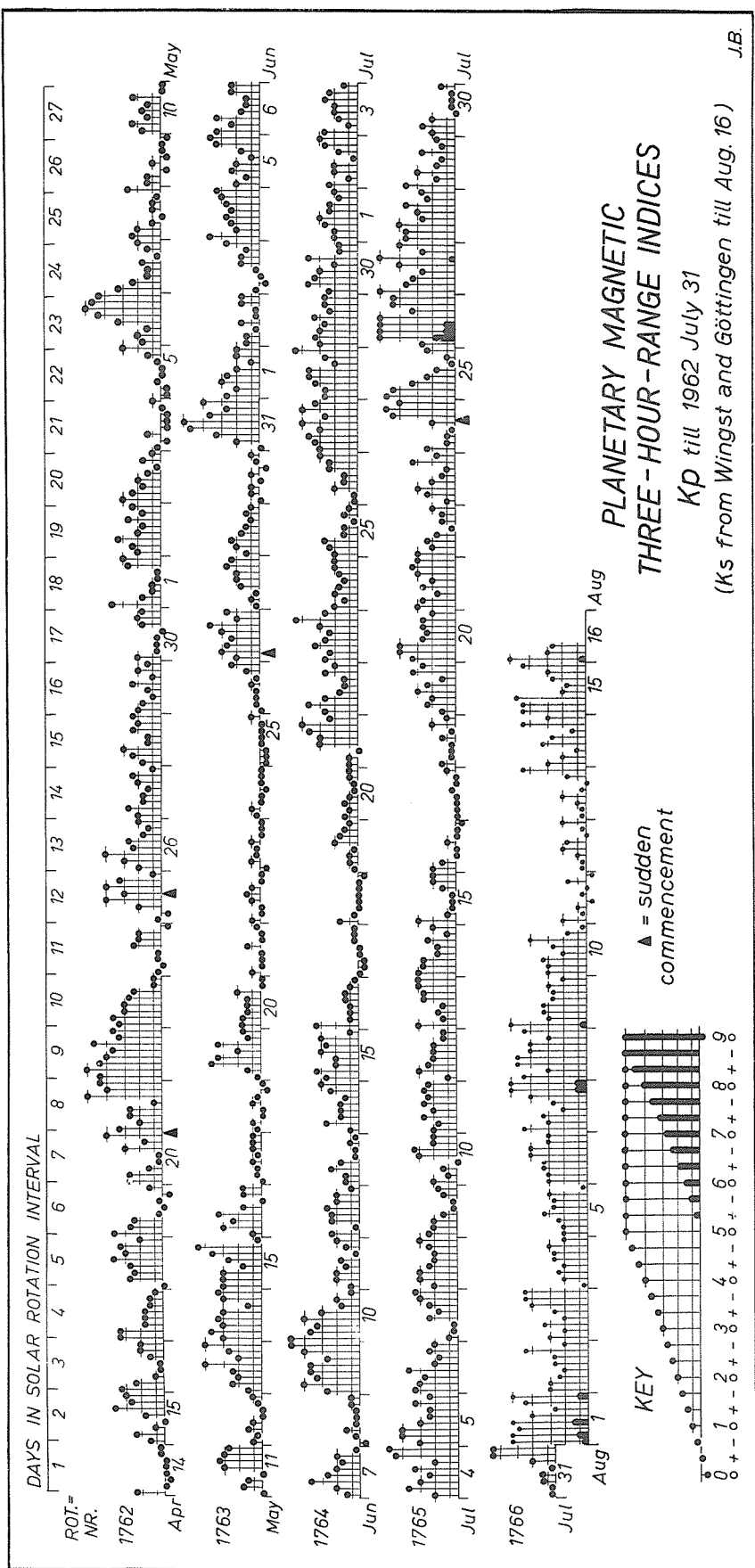




GEOMAGNETIC ACTIVITY INDICES

JULY 1962

July 1962	C	Values Kp								Sum	Ap	Final Selected Days
		Three hour Gr. interval										
		1	2	3	4	5	6	7	8			
1	0.6	2o	2o	3-	3o	2+	2+	2-	2o	18o	9	Five Quiet
2	0.5	2+	1o	2o	2o	1-	2-	3-	3o	15+	8	
3	0.5	3-	1o	2-	2o	2o	3-	2+	1+	16-	8	
4	1.2	2o	4-	3o	2+	3+	2o	4+	5-	25+	19	
5	1.0	3o	4o	4o	3o	2+	2+	3+	2+	24+	16	
6	0.8	3+	3o	3-	4-	2o	2-	2+	2o	21-	12	17
7	0.5	1o	1-	1-	2+	2-	2+	3o	3+	15o	8	18
8	0.7	2o	3o	3o	2+	2o	2o	2+	3o	20-	10	30
9	0.3	2+	2o	2o	1+	1-	1-	1+	2-	12o	6	
10	0.5	2o	1o	1+	0+	3o	3+	2o	2o	15o	8	
11	0.6	2o	2-	3-	2o	3-	2+	3-	2+	18+	9	Five Disturbed
12	0.5	1o	3o	2+	2o	2o	2o	1+	1+	15o	7	
13	0.6	3o	1+	2-	1+	3-	3-	3o	3o	19-	11	
14	0.7	3o	3-	3-	2-	2-	2+	1o	2o	17o	9	4
15	0.3	3o	1o	1-	1-	1-	1+	2o	2o	11+	6	5
16	0.1	2o	1+	0+	0+	1o	0+	0+	0o	6-	3	26
17	0.1	0+	0+	0+	0+	1-	0+	0+	1o	4-	2	27
18	0.2	1+	1-	1-	1-	1+	1-	2o	1o	8+	4	28
19	0.8	1+	2+	2o	3o	2+	1+	3+	3-	18+	10	
20	1.0	3+	4o	4o	3-	2+	3-	3-	2o	24-	16	
21	0.8	3o	3-	2-	3-	2o	3o	3+	3o	21+	12	Ten Quiet
22	0.4	3o	2o	2+	2-	1-	1+	1+	2o	14+	7	
23	0.6	1o	2+	3o	2o	1+	1o	3+	2-	16-	8	
24	1.0	2+	1o	1o	1-	2o	4+	5-	4o	20o	16	2
25	1.0	5-	4+	3+	2+	2-	1-	1o	2+	20+	15	3
26	1.6	3-	6+	6-	6-	5o	3+	4+	4+	37+	46	9
27	1.4	5o	4-	3+	3-	4o	5+	3-	4o	31-	28	12
28	1.1	4-	4-	4o	3-	3o	4-	2+	3-	26-	18	15
29	0.7	4-	2-	3o	2-	1+	3-	1+	2-	17o	10	16
30	0.2	2o	3-	2o	0+	1-	1-	1-	1+	10+	5	17
31	0.9	1-	1-	1+	1+	1-	2o	4+	4+	15+	11	18
												22
												30
Mean:	0.68									Mean:	12	



COMMERCE - STANDARDS - BOULDER

CRPL RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

JULY 1962

NORTH PACIFIC

NORTH ATLANTIC

JULY 1962	NORTH ATLANTIC 6-HOURLY QUALITY FIGURES				SHORT-TERM FORECASTS ISSUED IN ADVANCE OF: HOUR IN ADVANCE OF:	WHOLE DAY INDEX	ADVANCE FORECASTS (AP REPORTS) FOR WHOLE DAY ISSUED IN ADVANCE BY:		GEOMAGNETIC Kp	NORTH PACIFIC 12-HOURLY QUALITY FIGURES		SHORT-TERM FORECASTS ISSUED AT:	WHOLE DAY INDEX	ADVANCE FORECASTS (AP REPORTS) FOR WHOLE DAY ISSUED IN ADVANCE BY:		GEOMAGNETIC Kp	
	00 06 12 18 24	00 06 12 18	00 06 12 18	00 06 12 18			E-7 1-7 1-3 1-7 DAYS DAYS DAYS DAYS FINAL J5 SDW J	0700 1900 TO TO 1900 0700		0600 1800	1-7 1-7 1-3 1-7 DAYS DAYS SDW DAYS FINAL J5 SDW J			0700 1900 TO TO 1900 0700	0600 1800		1-7 1-7 1-3 1-7 DAYS DAYS SDW DAYS FINAL J5 SDW J
01	6+	6+	6+	6+	7	6	7	6	6	6	6	6	6	6	6	3	2
02	6+	6+	7-	7-	7	6	7	7	6	6	6	6	6	6	6	2	2
03	6+	5+	6+	6+	7	6	6	6	3	6	6	6	6	6	6	2	2
04	6+	6+	6+	6+	6	6	5	7	6	6	6	6	6	6	6	3	3
05	6-	5+	6+	6+	6	5	6	6	(4)	6	5	4	5	6	6	(4)	2
06	6+	5+	6+	6+	6	5	6	6	(4)	6	5	5	5	6	6	3	2
07	7-	6-	7-	6+	6	5	6	6	2	6	6	6	6	6	6	1	2
08	7-	6+	6+	6+	6	6	7	7	3	6	6	7	6	6	6	3	2
09	7-	6+	6+	6+	7	6	7	6	2	6	6	6	5	6	6	2	0
10	6+	6+	6+	7-	6	5	6	6	1	6	6	6	6	6	6	1	2
11	7-	5+	6+	6-	7	6	6	6	3	5	6	6	6	6	6	2	3
12	6+	5+	6+	6+	6	5	6	6	3	6	5	5	5	5	5	2	1
13	6+	6-	6+	6+	6	5	6	6	2	6	6	6	6	6	6	2	3
14	6+	6-	6+	6+	6	6	6	6	3	6	5	6	6	6	6	3	2
15	6+	6-	6+	6+	6	6	6	6	2	6	5	6	6	6	6	1	1
16	6+	6-	6+	6+	6	6	6	6	1	6	6	6	6	6	6	0	1
17	7-	6+	7-	6+	6	6	7	6	0	6	6	6	6	6	6	0	1
18	6+	6+	7-	6+	6	6	7	6	1	6	6	6	7	5	5	1	1
19	6+	6+	7-	6+	6	6	7	6	2	6	6	6	6	6	6	2	2
20	6+	5-	7-	7-	6	6	6	6	(4)	6	5	6	6	6	6	(4)	2
21	6+	6+	6+	6+	7	5	7	6	3	5	6	6	6	6	6	2	2
22	6+	5+	6+	6+	6	6	6	6	3	5	6	6	6	6	6	2	1
23	7-	6-	6+	6+	6	6	7	6	3	5	6	6	6	6	6	2	1
24	6+	6-	6+	6+	6	6	6	6	2	5	5	6	5	5	5	1	3
25	4-	3+	5+	5+	6	5	6	6	(4)	4	5	5	5	5	5	(4)	1
26	5+	4+	6-	5-	4	4	5	5	(5)	3	4	3	5	5	5	(6)	3
27	3+	3+	5+	5+	4	3	5	5	(4)	3	5	4	5	5	5	3	(4)
28	5-	3+	5+	5+	5	4	6	6	(4)	4	4	4	6	5	5	(4)	2
29	5+	4+	6-	6+	6	6	6	6	3	5	6	5	5	5	5	3	1
30	6-	5+	6-	6+	6	4	6	6	2	5	6	5	6	5	5	2	0
31	6+	5+	6+	6+	6	5	6	6	2	5	6	6	6	5	5	1	2
Score: Quiet Periods	P	18	17	20	26	19	19	19		15	15	15	15	17	17		
	S	11	9	11	5	9	9	9		11	11	11	11	10	10		
	U	0	0	0	0	0	0	0		0	0	0	0	1	1		
	F	0	0	0	0	0	0	0		0	0	0	0	0	0		
Disturbed Periods	P	0	3	0	0	0	0	0		2	0	0	0	0	0		
	S	1	1	0	0	2	2	2		1	1	1	1	3	3		
	U	0	1	0	0	0	0	0		0	0	0	0	0	0		
	F	1	0	0	0	1	1	1		1	1	1	1	0	0		

CRPL RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

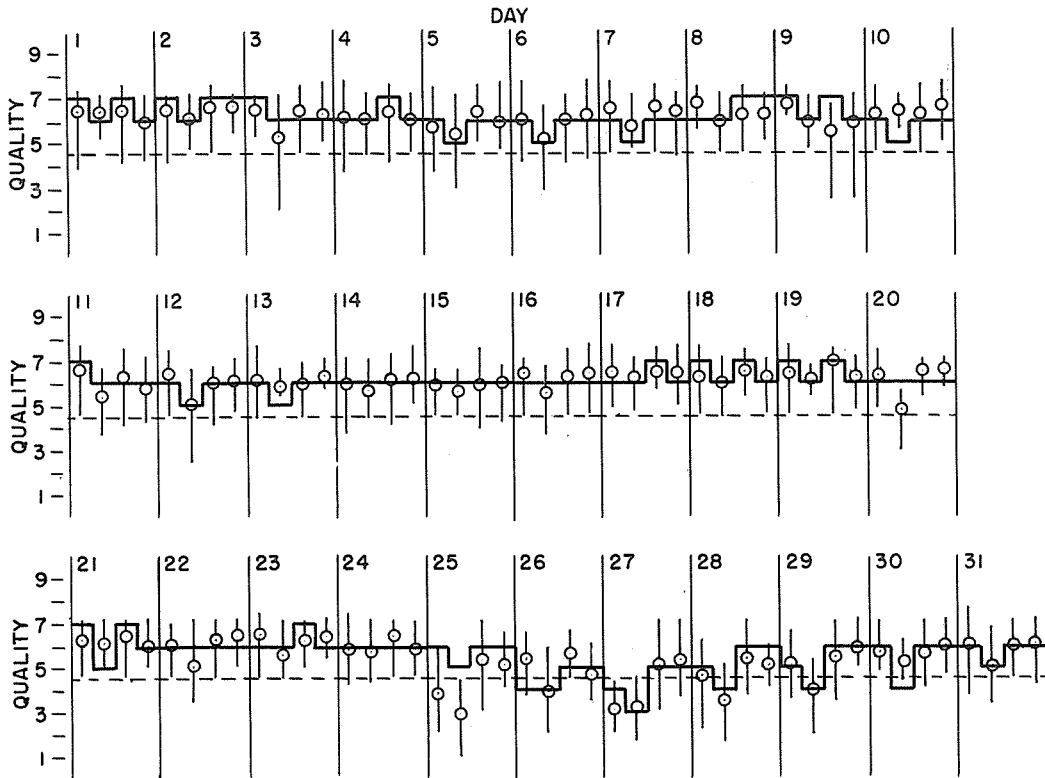
VIIb

NORTH ATLANTIC

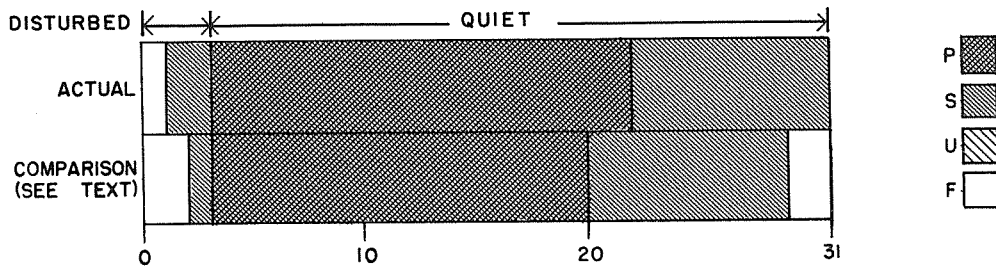
JULY 1962

— Short-term forecast
 ○ Quality figure

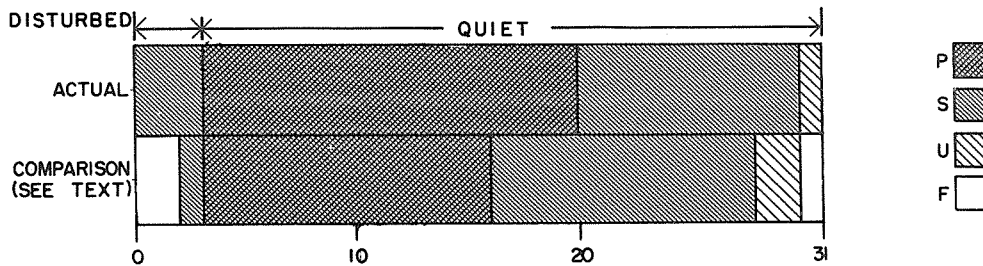
| Range of reports



OUTCOME OF ADVANCED FORECASTS FINAL ESTIMATE
 NORTH ATLANTIC

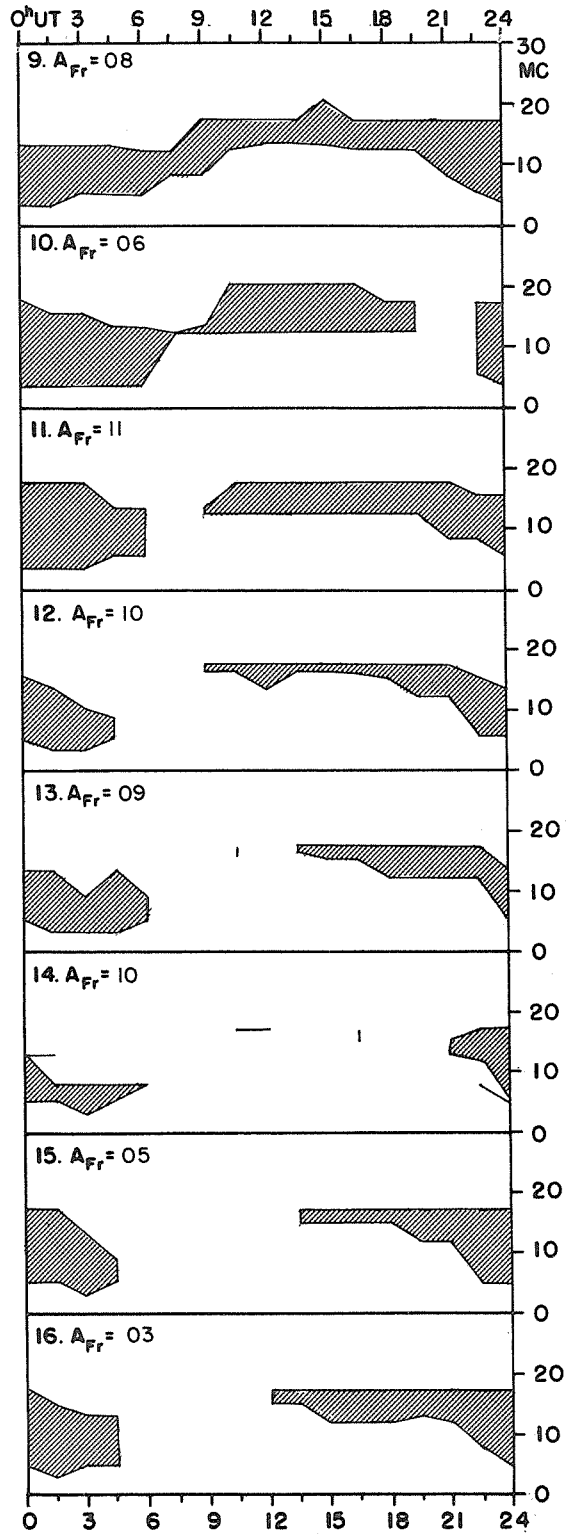
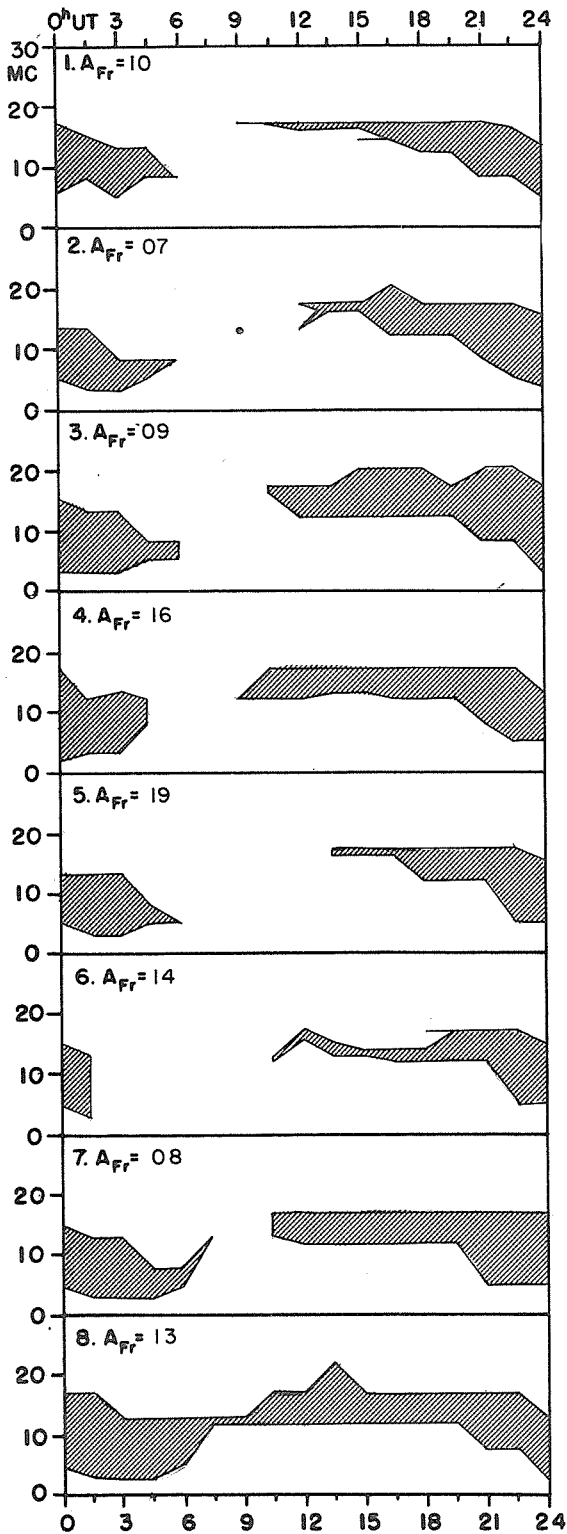


NORTH PACIFIC



USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

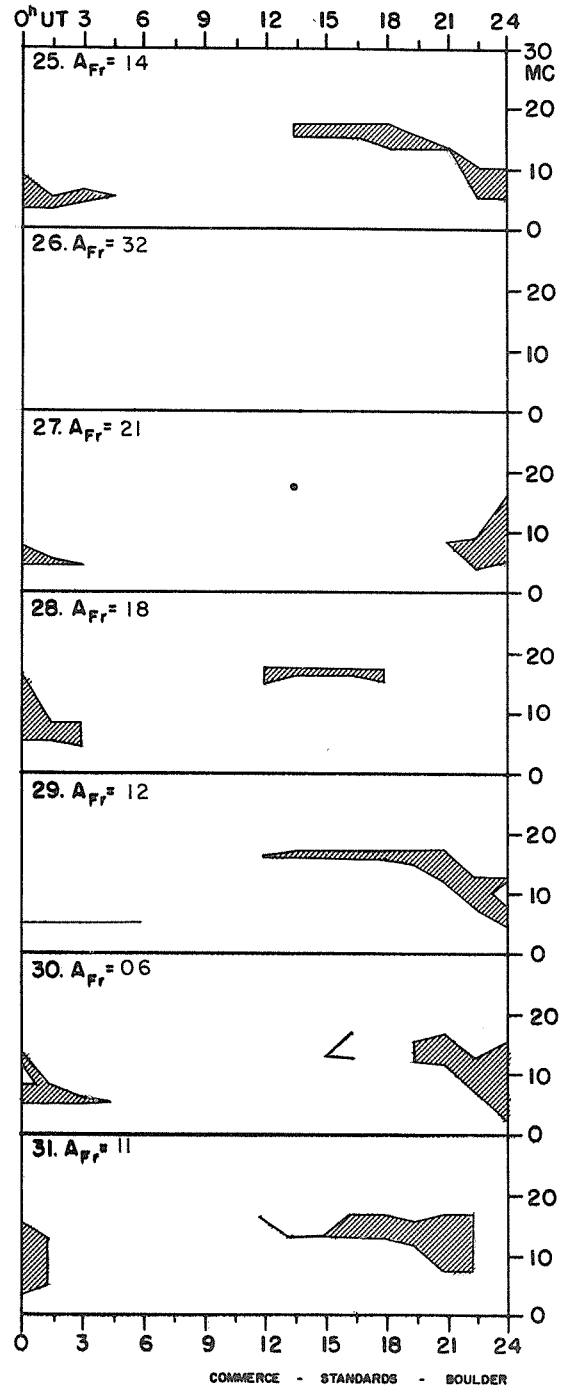
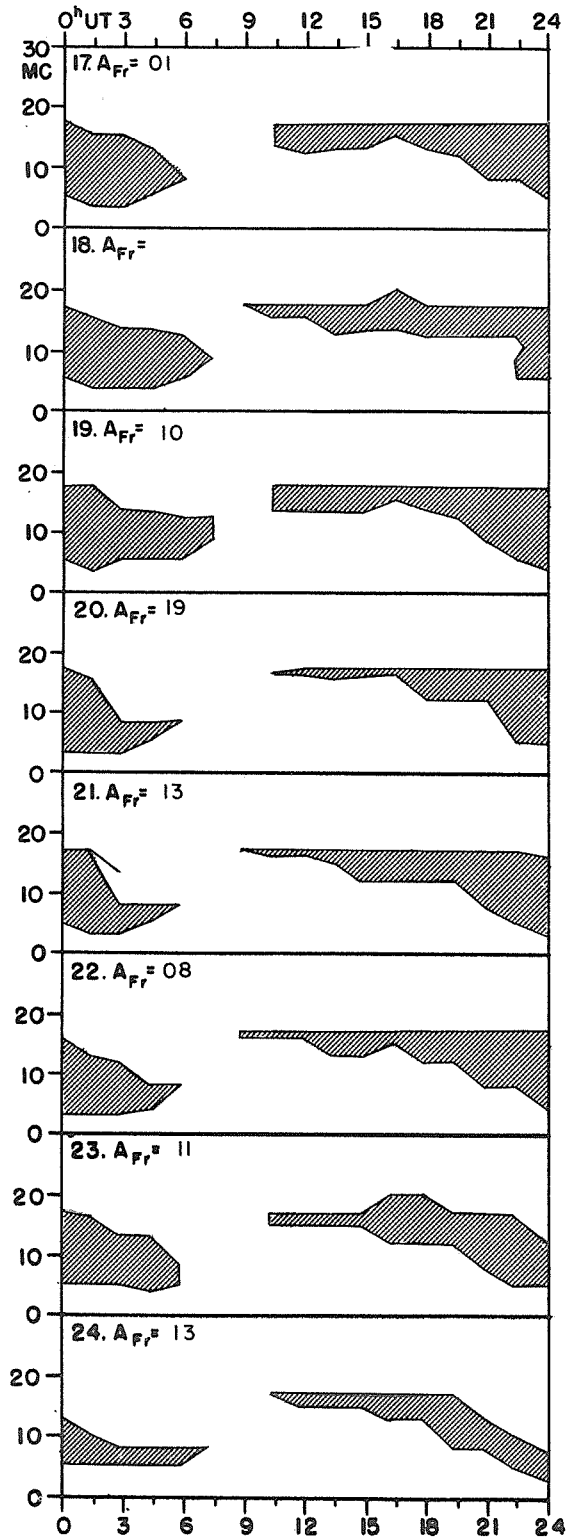
JULY 1962



USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

VIIId

JULY 1962



ALERT PERIODS AND SPECIAL WORLD INTERVALS

INTERNATIONAL WORLD DAY SERVICE

AUGUST 1962

Issued August 1962 Day/Time U. T.	Advance Geophysical Alert	No.	World-Wide Geophysical Alert	Special World Intervals
01/1205	Ft. Belvoir, Magnetic Storm 31/20XXZ			
01/1600		171	Magnetic Storm, 31/20XXZ	Start
02/1600		172		Finish
08/1600		173	Magnetic Storm, 07/14XXZ	
15/1600		174	Magnetic Storm, 14/14XXZ	
22/1600		175	Magnetic Storm, 21/17XXZ	Start
23/1600		176		Finish
31/1215	Ft. Belvoir, Magnetic Storm 31/00XXZ			
31/1600		177	Magnetic Storm, 31/00XXZ	