

# SOLAR FLARES

8111

AUGUST 1965

OBSERVATORY	DATE AUG 1965	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION - MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					REMARKS
		START	END	MAX. PHASE	APPROX.		McMATH FLAGE REGION				TIME - U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hz	MAX. INT. %	
					LAT.	MER. DIST.										
BUCA	02	0700 E	0742 D		N26	W63	7918		1-	1			1.20		H	
UCCL	02	1409 E	1436 D		N25	W65	7918		1-	2					E	
LOCK	02	2004	2025	2009	S26	E76	7931		1-	C	2009	.20	.60		10	
LOCK	03	1930	2035	2023	N27	E80	7932	65	1	C	2023	1.10	3.30		20	HK
HALE	03	1932	1949	1936	N27	E75	7932		1-	2 C	1936	.20	.50			
MCMA	03	1938 E	2016 D		N27	E85	7932		1-	1 P	1949	.20			D	
HUAN	03	2020	2027	2024	N28	E82	7932		1-	C	2024	.50			E	
HALE	03	2020	2034	2023	N28	E75	7932	14	1+	2 C	2023	.60	1.40		H	
SACP	03	2219	2259	2248	N28	E78	7932		1-	C		.61	1.45		19	
LOCK	03	2222	2258	2230	N27	E80	7932	36	1	C	2247	.80	2.40		20	HK
LOCK	03			2247												
CULG	03	2223	2254	2249	N26	E82	7932		1-	C	2249	.40			CG	
HALE	03	2224	2259	2230	N27	E75	7932		1-	2 C	2230	.50	1.20		HK	
HALE	03			2247												
HUAN	03	2225	2233 D		N28	E80	7932		1-	P	2232	.20			D	
SACP	03	2303	2313	2305	N27	E74	7932		1-	C		.26	.54		18	
LOCK	03	2303	2319	2307	N26	E75	7932		1-	C	2307	.50	1.00		10	J
HALE	03	2304	2315	2306	N26	E71	7932		1-	2 C	2306	.30	.60			
CULG	03	2308 E	2314		N25	E77	7932		1-	P	2306	.20	.80		GH	
CULG	03	2357	2400 D		N26	E81	7932		1-	P	2400	.20			CG	
HALE	03	2358	0008 D	0005	N27	E72	7932		1-	1 P	0005	.50	1.10			
LOCK	03	2358	0015 D	0001	N27	E78	7932		1-	C	0006	.60	1.40		20	K
LOCK	03			0006												
SACP	04	0000 E	0010	0005	N28	E77	7932		1-	P		.39	.90		18	
IKOM	04	0007	0011 D		N25	E75	7932		1-	V					G	
CULG	04	0211	0258 D	0228	N26	E79	7932		1-	P	0228	.40			G	
HALE	04	0212	0256	0216	N27	E73	7932		1-	2 C	0216	.20	.40		K	
HALE	04			0230												
MITK	04	0227	0240 D	0235	N27	E77	7932		1-	C					DG	
MITK	04	0258	0303 D	0302	N27	E77	7932		1-	C					DG	
HALE	04	0258	0304	0300	N26	E72	7932		1-	1 C	0300	.30	.60			
HALE	04	0429	0448 D	0434	N27	E72	7932	19 D	1	2 P	0434	1.20	2.40			
CULG	04	0429	0453	0433	N27	E78	7932		1-	C	0433	.80	3.20		GJ	
MITK	04	0430	0450	0441	N27	E77	7932	20	1	C					HG	
TACH	04	0431	0452	0434	N27	E77	7932		1-	C	0434	1.10	3.80		DL	
HALE	04	0439	0447	0441	N29	E73	7932		1-	2 C	0441	.30	.70			
MITK	04	0513	0522	0517	N27	E77	7932		1-	C					DG	
KANZ	04	0714 E	0724		N26	E73	7932		1-						DGH	
KANZ	04	0740 E	0745 D		N39	E90	7935		1-						A	
KANZ	04	0859 E	0906 D		N27	E36		7 D	1						DG	
ARCE	04	0900 E	0908 D		N22	E85	7932		1-	2	0900	.65	.81			
KANZ	04	0944	0953		N29	E82	7932		1-						DGH	
KANZ	04	1016	1024		S28	E66	7936		1-						DG	
OTTA	04	1215	1250	1234	N30	E82	7932	35	1	2 C	1234	.89	2.44			
KANZ	04	1419	1459		N29	E76	7932		1-						DGH	
HALE	04	2102	2113	2106	N30	E71	7932		1-	2 C	2106	.20	.40			
LOCK	04	2102	2114	2105	N28	E74	7932		1-	C	2105	.40	.80		10	
MONT	05	1115 E			N30	W90	7913		1-						O	

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		START	END	MAX. PHASE	APPROX.		MATH PLAGE REGION				TIME	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. *.		
					LAT.	MER. DIST.											U T
	AUG 1965																
LOCK	05	1655	1737	1720	S32	E58	7936		1-	C	1720	.30	.50		10	J	
LOCK	05	1830	1905	1845	S31	E57	7936		1-	C	1845	.30	.50		10	J	
LOCK	05	2017	2048	2027	N37	W09	7930		1-	C	2027	.30	.30		10	J	
SACP	05	2021	2039	2027	N37	W10	7930		1-	C		.57	.60		18		
MCMA	05	2024	2035	2027	N37	W09	7930		1-	2 C	2027	.20	.20			DH	
HUAN	05	2024	2037	2028	N37	W11	7930		1-	C	2028	.20	.24			D	
LOCK	05	2105	2200	2120	S30	E54	7936		1-	C	2120	.30	.50		10	J	
LOCK	06	0005	0110	0040	S29	E53	7936		1-	C	0040	.30	.50		10		
CLMX	06	0039	0047	D 0042	S31	E49	7936		1-	C	0042	.40	.60				
KANZ	06	0752			N27	E45	7932		1-							DGH	
OTTA	06	1056	E 1126	D 1108	N17	E25			1-	2 P	1108	.41	.41				
OTTA	06	1114	E 1135	D 1120	S09	W32			1-	2 P	1120	.23	.25			H	
CLMX	06	1256			S31	E41	7936		1-	C	1400	.40	.50				
CLMX	06	1322			N34	E66	7935		1-	C	1328	.40	.40				
KANZ	06	1325	E 1355	D	N38	E67	7935		1-								
UCCL	06	1423	E 1441		N29	E69	7935		1-	3						D	
LOCA	06	1425	E 1440		N38	E69	7935		1-							H	
HUAN	06	1445	E 1456		N36	E69	7935	15	D	1	P	1448	.18				D
HUAN	06	1652		1655	N36	E69	7935		1-	C	1655	.18				D	
OTTA	06	1657		1705	S32	E45	7936		1-	3 C	1705	.18	.25			D	
OTTA	06	1701			S22	W32			1-	1 C	1704	.12	.13			H	
HALE	06	2003		2008	S30	E44	7936		1-	2 P	2008	.30	.40			D	
MCMA	06	2007		2010	S32	E43	7936		1-	2 C	2010	.20	.40			D	
HUAN	06	2148			N35	E64	7935		1-	P	2152	.50				D	
LOCK	07	0005		0017	N25	E37	7932		1-	C	0017	.60	.70		20		
MITK	07	0011		0016	N26	E37	7932		1-	C						G	
HALE	07	0018	E 0034		N25	E37	7932		1-	1 P	0018	.50	.60				
CULG	07	0019	E 0037		N25	E38	7932		1-	P	0020	.40	.52			G	
ARCE	07	0853	E 0923	D	N25	E59	7932	30	D	1	2	0853	1.21	2.15			
KAND	07	0904			N35	E58	7935		1-								
MCMA	07	1406	E 1420	D 1408	N28	E36	7932		1-	2 P	1408	.90	1.00			FH	
HUAN	07	1407	E 1410	D	N27	E34	7932		1-	P	1407	.38	.49			E	
LOCK	08	0018		0026	N26	E32	7932		1-	C	0026	.80	.80		20		
MANI	08	0020	E 0040	D 0027	N26	E30	7932		1-	2	0027	.40	.44				
HALE	08	0020		0024	N26	E30	7932		1-	2 C	0024	.60	.70			F	
KANZ	08	0755	E 0917	D	N36	E45	7935	82	D	1+						EH	
BUCA	08	0806		0855	N36	E44	7935		1-	2			1.70				
CAPS	08	0808	E 0820		N37	E50	7935		1-	3	0811	.50	.70		190	D	
ISTA	08	0810	E 0830		N34	E44	7935	20	D	1+							
CATA	08	0810		0815	N36	E45	7935		1-	3 C	0815	1.10	1.77		162	E	
ISTA	08	0850		0915	N35	E45	7935		1-								
CAPS	08	0850	E 0925		N39	E50	7935		1-	3	0910	.70	.90		180	D	
ARCE	08	0817	E 0825	D	N25	E40	7932		1-	2	0817	1.31	1.76				
ARCE	08	0840	E 0915	D	N25	E40	7932		1-	2	0852	1.34	1.80				
CATA	08	1036	E 1055	D 1037	N36	E45	7935		1-	3	1037	.26	.40		151	DH	
HUAN	08	1432		1435	N36	E45	7935		1-	C	1435	.20	.31			DH	
KANZ	08	1435			N35	E41	7935	17		1						DH	
CULG	08	2348		2354	N36	E34	7935		1-	P	2354	.20	.26			DH	

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OBSERVATORY	DATE AUG 1965	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION - MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					REMARKS	
		START	END	MAX. PHASE	APPROX.		MC-MATH FLAGE REGION				TIME - UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hr	MAX. INT. °		
					LAT.	MER. DIST.											
KAND	09	0936	1002		N24	W20			1-								
KANZ	09	0946 E	0957		N30	E23	7935	11 D	1							DH	
MONT	09	1025	1040	1029	N26	E30	7935		1-			2.00				DO	
LOCK	09	1605	1640	1622	N34	E22	7935		1-	C	1622	.40	.40		10	J	
KANZ	09	1610 E	1650		N31	E22	7935	40 D	1							DH	
KANZ	09	1610 E	1656 D		N33	E17	7935	46 D	1							DH	
MCMA	09	1632 E	1657 D		N35	E22	7935		1-	2 P	1633	.30	.40			E	
MITK	10	0042	0052	0047	N18	W90	7943		1-	C						G	
TACH	10	0534	0543	0536	S32	W04	7936		1-	C	0536	1.10	1.40				
ARCE	10	0941 E	0952 D		S32	E09	7936		1-	3	0945	.69	.87				
MCMA	10	1946	1957	1948	S33	W12	7936		1-	1 P	1948	.20	.30			DH	
LOCK	10	1948	2020	2003	N37	E14	7935		1-	C	2003	.30	.30		10		
MCMA	10	2036	2045	2040	S33	W12	7936		1-	2 C	2040	.20	.30			D	
HALE	11	0156	0234	0208	S31	W15	7936		1-	2 C	0208	.70	.80			F	
MANI	11	0203 E	0253 D		S21	W34	7931		1-	2	0209	1.00	1.10				
CULG	11	0239	0250	0242	S34	W15	7936		1-	C	0240	.20	.27			CGH	
HALE	11	0244	0249	0247	S33	W14	7936		1-	2 C	0247	.10	.10			HJ	
HALE	11	0321	0343	0324	S30	W20	7936		1-	2 C	0324	.20	.20				
CAPS	11	0629 E	0653		S30	W18	7936		1-	3	0631	.40	.50		157	DH	
KAND	11	0957	1019		S31	W19	7936		1-								
MCMA	11	1559 E	1650	1602	S32	W22	7936		1-	2 C	1620	.40	.60			E	
MCMA	11			1620													
CLMX	11	1559	1652	1601	S31	W22	7936		1-	C	1601	.20	.20				
KANZ	11	1635 E			S31	W24	7936		1-							E	
LOCK	11	1710		1720	S31	W26	7936		1-	C	1720	.30	.30		10	D	
MCMA	11	1712	1725	1715	S32	W20	7936		1-	2 C	1715	.20	.30				
CLMX	11	1713	1727	1718	S31	W24	7936		1-	C	1718	.40	.40				
OTTA	11	1715	1723 D		S31	W23	7936		1-	1 C	1719	.18	.20				
SACP	11	1715	1741	1721	S30	W23	7936		1-	C		.43	.50		15		
LOCK	11	1813	1821	1816	S32	W28	7936		1-	C	1816	.40	.40		10		
IKOM	12	0515 E	0526 D		S30	W34	7936		1-	V	0515	.60	.80	.68	80	D	
KAND	12	0538	0601		S31	W30	7936		1-								
IKOM	12	0538 E	0615 D		S30	W34	7936		1-	V	0538	.80	1.00		80	D	
KANZ	12	0859 E	0915 D		S31	W34	7936		1-							D	
KANZ	12	0942 E			S30	W36	7936		1-								
KANZ	12	1009 E	1030 D		S31	W34	7936	21 D	1								
KANZ	12	1327 E	1340		S28	W44	7936		1-								
	12	2350	2400	NO FLARE	PATROL												
	13	0000	0020	NO FLARE	PATROL												
MITK	13	0247 E	0254		N37	W19	7935		1-	C						G	
MCMA	13	1254	1302	1256	N29	E36	7948		1-	2 C	1256	.30	.40			E	
CLMX	13	1254	1319	1257	N28	E37	7948		1-	C	1257	.30	.30			DE	
ONDR	13	1256	1305		N30	E38	7948		1-	1						DG	
CULG	14	0309	0325	0311	N30	W53	7932		1-	C	0311	.20	.34			G	
LOCK	14	1628	1639	1633	S33	W66	7936		1-	C	1633	.20	.40				
CLMX	14	1630	1639	1635	S27	W60	7936		1-	C	1635	.30	.50				

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OBSERVATORY	DATE AUG 1965	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION - MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					REMARKS	
		START	END	MAX. PHASE	APPROX.		McMATH PLAGE REGION				TIME - UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H <sub>c</sub>	MAX. INT. * <sub>s</sub>		
					LAT.	MER. DIST.											
CAPS	15	0615	0636		S35	W75	7936	21		2	0628	2.00	7.00		180	G	
KANZ	15	1328 E	1339 D		N38	W47	7935									DG	
KANZ	15	1347 E	1400 D		N38	W47	7935									DG	
SACP	15	1411 E	1419 U	1412	S33	W79	7936								17		
CLMX	15	1432	1448 D		N34	W49	7935				1445	.96 .30	.40				
MCMA	15	1854	1903	1855	N26	E20	7947			2 C	1855	.20 .20	.20			DH	
LOCK	16	0030 E	0048	0040	N31	E90	7952			C	0040	.30	1.50		10	H	
	16	0235	0245	NO FLARE	PATROL												
ARCE	16	0920 E	0955 D		N25	W90	7932	35 D		2	0920	.56	3.18				
MCMA	16	2010	2020	2012	N22	E75	7952			1 C	2012	.30				EL	
LOCK	17	0600	0605	NO FLARE	PATROL												
	17	1812	1835	1824	S34	W80	7936			C	1824	.20	.50		10		
HALE	18	0110	0129	0117	N28	W01	7947			2 C	0117	.40	.40				
	18	0225	0230	NO FLARE	PATROL												
	18	0935	0945	NO FLARE	PATROL												
	18	0955	1000	NO FLARE	PATROL												
SACP	18	1432	1442	1437	N23	E84	7956			C		.70			18		
IKOM	19	2320	2333 D		N20	E70	7956			V						G	
CAPS	20	0719	0742		N20	E63	7956			3	0724	.50	1.00		180	G	
HALE	20	1637	1648	1641	N39	W90	7935	11		3 C	1641	.50					
LOCK	20	1638 E	1644	1638 U	N38	W90	7935			C	1638	.30	1.50		10		
LOCK	20	1839	1901	1848	N22	E57	7956			C	1848	.50	.80		10		
HALE	20	1846	1903	1852	N23	E56	7956			1 C	1852	.40	.60				
MANI	21	0528 E	0555 D	0530	N38	W43	7947			2	0530	.20	.28				
	21	1800	1815	NO FLARE	PATROL												
LOCK	21	2140	2230	2148	N25	E76	7960			C	2148	.40	.80		10	K	
LOCK	21			2215													
	22	1620	1625	NO FLARE	PATROL												
KAND	23	0909	0945		N10	E30	7959			1-							
KAND	23	0956	1019		N25	E90	7961										
UCCL	23	1406	1408		N24	E19	7956			2							
OTTA	23	1504	1511	1507	N28	E90	7961			2	1507	.47				DJ	
CLMX	23	1505	1512	1509	N24	E90	7961			C	1509	.40	2.00				
UCCL	23	1506	1511		N26	E87	7961			2							
UCCL	23	1539			N25	E90	7961			2							
LOCK	23	1841	1852	1845	N28	E90	7961			C	1845	.30	1.50		10	AD AD	
CLMX	23	1841 E	1856	1845	N27	E90	7961			C	1845	.30	1.50			H	
MCMA	24	2007	2025	2010	N28	E08	7956			1 C	2010	.40	.40			EL	
CLMX	24	2012 E	2023 D		N24	E16	7956			C	2010	.30	.30				
UCCL	25	1123	1131		N24	W07	7956			3						D	
UCCL	25	1141	1142		N24	W10	7956			3						D	

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		START	END	MAX. PHASE	APPROX.		MeMATH FLARE REGION				TIME - U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. **	
					LAT.	MER. DIST.										
	26	0130	0145	NO FLARE	PATROL											
	26	0830	0835	NO FLARE	PATROL											
	26	0845	0855	NO FLARE	PATROL											
MCMA	26	1425	1530	D	N27	E50	7961		1-	1 P	1427	.40	.60			FH
MCMA	26	1821	1912	D	N27	E48	7961		1-	1 P	1832	.30	.40			EH
ARCE	27	0815	0830	D	N27	E40	7961		1-	2	0815	.82	1.14			
ARCE	27	0910	0925	D	N27	E40	7961		1-	2	0910	.43	.60			
UCCL	27	1011	1016		N29	E43	7961									B
UCCL	27	1045	1047		N27	E41	7961									E
UCCL	27	1045	1049		N29	E41	7961		1-	3						DJ
UCCL	27	1054	1115		N29	E42	7961		1-	3						D
UCCL	27	1135	1137		N27	E42	7961		1-	3						D
LOCK	27	2039	2110		N01	E27	7968		1-	C	2045	.20	.20		10	
ARCE	28	0820			N27	E28	7961		1-	2	0820	1.11	1.36			
MITK	29	0252	0316		N02	E18	7968		1-	C						GH
HALE	29	0306	0315	D	N02	E18	7968		1-	2 P	0308	.20	.20			
HALE	29	1852	1904		N25	E08	7961		1-	3 C	1857	.10	.10			
ARCE	30	0900	0930	D	N26	E00	7961		1-	2	0900	.78	.84			
UCCL	30	0911	0915		N26	E01	7961		1-	3						E
UCCL	30	0921	0956		N39	E26	7964		1-	3						D
SACP	30	1410	1432	D	N26	W03	7961		1-	C		.87	.86		23	
ZURI	30	1415	1427		N25	W01	7961	12 D	1	S						
CAPS	30	1415	1430		N26	E00	7961		1-	3	1418	.90	1.00		170	E
OTTA	30	1601	1632		N27	W04	7961		1-	2	1608	.75	.75			E
LOCK	30	1720	1744		N24	W04	7961		1-	C	1733	.20	.20			
HALE	30	1846	1923		N27	W04	7961	37	1	3 C	1852	2.10	2.10			
LOCK	30	1847	1928		N26	W04	7961		1-	C	1854	1.60	1.60		20	
SACP	30	1853	1940	U	N27	W05	7961	47 D	1	P		2.35	2.34		23	
LOCK	30	2320	2339		N26	W88	7956		1-	C	2327	.20	.60		10	H
KAND	31		0757		N15	W90	7956		1-							
MITK	31	0625	0645		N22	W90	7956		1-	C						GH
KAND	31	0801	0822		N15	W90	7956	21	1+							
KAND	31	0902	1030		N15	W90	7956	88	1+							
CAPS	31	1122	1138		S02	W11	7968		1-	2	1126	.40	.40		175	DG
LOCK	31	2310	2333		N25	W21	7961		1-	C	2314	1.60	1.60		20	
SACP	31	2311	2334		N26	W22	7961	23	1	C		2.56	2.61		28	
CLMX	31	2312	2334		N26	W19	7961		1-	C	2314	.90	.90			
HALE	31	2312	2339		N25	W22	7961	27	1	2 C	2314	2.60	2.60			

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OBSERVATORY	DATE AUG 1965	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION - MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					REMARKS
		START	END	MAX. PHASE	LAT.	MER. DIST.	McMATH PLAGE REGION				TIME - U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. °	
LOCK	02	2004	2025	2009	S26	E76	7931		1-	C	2009	.20	.60		10	
LOCK	03	1930	2035	2023	N27	E80	7932	65	1	C	2023	1.10	3.30		20	HK
HALE	03	1932	1949	1936	N27	E75	7932		1-	C	1936	.20	.50			
MCMA	03	1938	2016	D	N27	E85	7932		1-	P	1949	.20				D
HUAN	03	2020	2027	2024	N28	E82	7932		1-	C	2024	.50				E
HALE	03	2020	2034	2023	N28	E75	7932	14	1+	C	2023	.60	1.40			H
SACP	03	2219	2259	2248	N28	E78	7932		1-	C		.61	1.45		19	
LOCK	03	2222	2258	2230	N27	E80	7932	36	1	C	2247	.80	2.40		20	HK
LOCK	03			2247												
HALE	03	2224	2259	2230	N27	E75	7932		1-	C	2230	.50	1.20			HK
HALE	03			2247												
HUAN	03	2225	2233	D	N28	E80	7932		1-	P	2232	.20				D
SACP	03	2303	2313	2305	N27	E74	7932		1-	C		.26	.54		18	
LOCK	03	2303	2319	2307	N26	E75	7932		1-	C	2307	.50	1.00		10	J
HALE	03	2304	2315	2306	N26	E71	7932		1-	C	2306	.30	.60			
HALE	03	2358	0008	D	N27	E72	7932		1-	P	0005	.50	1.10			
LOCK	03	2358	0015	0001	N27	E78	7932		1-	C	0006	.60	1.40		20	K
LOCK	03			0006												
SACP	04	0000	E	0010	N28	E77	7932		1-	P		.39	.90		18	
IKOM	04	0007		0011	N25	E75	7932		1-	V						G
HALE	04	0212		0256	N27	E73	7932		1-	C	0216	.20	.40			K
HALE	04			0230												
MITK	04	0227		0240	N27	E77	7932		1-	C						DG
MITK	04	0258		0303	N27	E77	7932		1-	C						DG
HALE	04	0258		0300	N26	E72	7932		1-	C	0300	.30	.60			
HALE	04	0429		0448	N27	E72	7932	19	1	P	0434	1.20	2.40			
MITK	04	0430		0450	N27	E77	7932	20	1	C						HG
HALE	04	0439		0447	N29	E73	7932		1-	C	0441	.30	.70			
MITK	04	0513		0522	N27	E77	7932		1-	C						DG
KANZ	04	0714	E	0724	N26	E73	7932		1-	C						DGH
KANZ	04	0740	E	0745	N39	E90	7935		1-	C						A
KANZ	04	0859	E	0906	N27	E36			1-	C						DG
ARCE	04	0900	E	0908	N22	E85	7932	7	1-	C	0900	.65	.81			
KANZ	04	0944		0953	N29	E82	7932		1-	C						DGH
KANZ	04	1016		1024	S28	E66	7936		1-	C						DG
OTTA	04	1215		1250	N30	E82	7932	35	1	C	1234	.89	2.44			
KANZ	04	1419		1459	N29	E76	7932		1-	C						DGH
HALE	04	2102		2113	N30	E71	7932		1-	C	2106	.20	.40			
LOCK	04	2102		2114	N28	E74	7932		1-	C	2105	.40	.80		10	
LOCK	05	1655		1737	S32	E58	7936		1-	C	1720	.30	.50		10	J
LOCK	05	1830		1905	S31	E57	7936		1-	C	1845	.30	.50		10	J
LOCK	05	2017		2048	N37	W09	7930		1-	C	2027	.30	.30		10	J
SACP	05	2021		2039	N37	W10	7930		1-	C		.57	.60		18	
MCHA	05	2024		2035	N37	W09	7930		1-	C	2027	.20	.20			DH
HUAN	05	2024		2037	N37	W11	7930		1-	C	2028	.20	.24			D
LOCK	05	2105		2200	S30	E54	7936		1-	C	2120	.30	.50		10	J
LOCK	06	0005		0110	S29	E53	7936		1-	C	0040	.30	.50		10	

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OBSERVATORY	DATE AUG 1965	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION - MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					REMARKS
		START	END	MAX. PHASE	APPROX.		McMATH PLAGE REGION				TIME - UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.										
KANZ	06	0752 E			N27	E45	7932		1-							DGH
OTTA	06	1056 E	1126 D	1108	N17	E25			1-	2 P	1108	.41	.41			
OTTA	06	1114 E	1135 D	1120	S09	W32			1-	2 P	1120	.23	.25			H
KANZ	06	1325 E	1355 D		N38	E67	7935		1-							
LOCA	06	1425 E	1440		N38	E69	7935	15 D	1	S						H
HUAN	06	1445 E	1456		N36	E69	7935		1-	P	1448	.18				D
HUAN	06	1652	1658	1655	N36	E69	7935		1-	C	1655	.18				D
OTTA	06	1657	1708	1705	S32	E45	7936		1-	3 C	1705	.18	.25			
OTTA	06	1701	1709		S22	W32			1-	1 C	1704	.12	.13			H
HALE	06	2003	2018 D	2008	S30	E44	7936		1-	2 P	2008	.30	.40			D
MCMA	06	2007	2020	2010	S32	E43	7936		1-	2 C	2010	.20	.40			D
HUAN	06	2148	2155 D		N35	E64	7935		1-	P	2152	.50				D
LOCK	07	0005	0040	0017	N25	E37	7932		1-	C	0017	.60	.70		20	
MITK	07	0011	0023	0016	N26	E37	7932		1-	C						G
HALE	07	0018 E	0034		N25	E37	7932		1-	1 P	0018	.50	.60			
ARCE	07	0853 E	0923 D		N25	E59	7932	30 D	1	2	0853	1.21	2.15			
KAND	07	0904	0911		N35	E58	7935		1-							
MCMA	07	1406 E	1420 D	1408	N28	E36	7932		1-	2 P	1408	.90	1.00			FH
HUAN	07	1407 E	1410 D		N27	E34	7932		1-	P	1407	.38	.49			E
LOCK	08	0018	0040	0026	N26	E32	7932		1-	C	0026	.80	.80		20	
MANI	08	0020 E	0040 D	0027	N26	E30	7932		1-	2	0027	.40	.44			
HALE	08	0020	0048	0024	N26	E30	7932		1-	2 C	0024	.60	.70			F
KANZ	08	0755 E	0917 D		N36	E45	7935	82 D	1+							EH
BUCA	08	0806	0855		N36	E44	7935		1-	2			1.70			
CAPS	08	0808 E	0820		N37	E50	7935		1-	3	0811	.50	.70		190	D
ISTA	08	0810 E	0830		N34	E44	7935	20 D	1+							
CATA	08	0810	0830	0815	N36	E45	7935		1-	3 C	0815	1.10	1.77		162	E
ARCE	08	0817 E	0825 D		N25	E40	7932		1-	2	0817	1.31	1.76			
ARCE	08	0840 E	0915 D		N25	E40	7932		1-	2	0852	1.34	1.80			
ISTA	08	0850	0915		N35	E45	7935		1-							
CAPS	08	0850 E	0925		N39	E50	7935		1-	3	0910	.70	.90		180	D
CATA	08	1036 E	1055 D	1037	N36	E45	7935		1-	3	1037	.26	.40		151	DH
HUAN	08	1432	1442	1435	N36	E45	7935		1-	C	1435	.20	.31			DH
KANZ	08	1435	1452		N35	E41	7935	17	1							DH
KAND	09	0936	1002		N24	W20			1-							
KANZ	09	0946 E	0957		N30	E23	7935	11 D	1							DH
LOCK	09	1605	1640	1622	N34	E22	7935		1-	C	1622	.40	.40		10	J
KANZ	09	1610 E	1650		N31	E22	7935	40 D	1							DH
KANZ	09	1610 E	1656 D		N33	E17	7935	46 D	1							DH
MCMA	09	1632 E	1657 D		N35	E22	7935		1-	2 P	1633	.30	.40			E
MITK	10	0042	0052	0047	N18	W90	7943		1-	C						G
ARCE	10	0941 E	0952 D		S32	E09	7936		1-	3	0945	.69	.87			
MCMA	10	1946	1957	1948	S33	W12	7936		1-	1 P	1948	.20	.30			DH
LOCK	10	1948	2020	2003	N37	E14	7935		1-	C	2003	.30	.30		10	
MCMA	10	2036	2045	2040	S33	W12	7936		1-	2 C	2040	.20	.30			D
HALE	11	0156	0234	0208	S31	W15	7936		1-	2 C	0208	.70	.80			F

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OBSERVATORY	DATE AUG 1965	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION - MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					REMARKS
		START	END	MAX. PHASE	LAT.	MER. DIST.	McMATH FLAGE REGION				TIME - U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H <sub>α</sub>	MAX. INT. %	
MANI	11	0203 E	0253 D	0209	S21	W34	7931		1-	2	0209	1.00	1.10			
HALE	11	0244	0249	0247	S33	W14	7936		1-	2 C	0247	.10	.10			HJ
HALE	11	0321	0343	0324	S30	W20	7936		1-	2 C	0324	.20	.20			
CAPS	11	0629 E	0653		S30	W18	7936		1-	3	0631	.40	.50		157	DH
KAND	11	0957	1019		S31	W19	7936		1-							
MCMA	11	1559 E	1650	1602	S32	W22	7936		1-	2 C	1620	.40	.60			E
MCMA	11			1620												
KANZ	11	1635 E			S31	W24	7936		1-							E
LOCK	11	1710	1735	1720	S31	W26	7936		1-	C	1720	.30	.30		10	E
MCMA	11	1712	1725	1715	S32	W20	7936		1-	2 C	1715	.20	.30			D
OTTA	11	1715	1723 D		S31	W23	7936		1-	1 C	1719	.18	.20			
SACP	11	1715	1741	1721	S30	W23	7936		1-	C		.43	.50		15	
LOCK	11	1813	1821	1816	S32	W28	7936		1-	C	1816	.40	.40		10	
IKOM	12	0515 E	0526 D		S30	W34	7936		1-	V	0515	.60	.80	.68	80	D
KAND	12	0538	0601		S31	W30	7936		1-							
IKOM	12	0538 E	0615 D		S30	W34	7936		1-	V	0538	.80	1.00		80	D
KANZ	12	0859 E	0915 D		S31	W34	7936		1-							D
KANZ	12	0942 E			S30	W36	7936		1-							
KANZ	12	1009 E	1030 D		S31	W34	7936	21 D	1							
KANZ	12	1327 E	1340		S28	W44	7936		1-							
MITK	13	0247 E	0254		N37	W19	7935		1-	C						G
MCMA	13	1254	1302	1256	N29	E36	7948		1-	2 C	1256	.30	.40			E
ONDR	13	1256	1305		N30	E38	7948		1-	1						DG
LOCK	14	1628	1639	1633	S33	W66	7936		1-	C	1633	.20	.40			
CAPS	15	0615	0636		S35	W75	7936	21	2	2	0628	2.00	7.00		180	G
KANZ	15	1328 E	1339 D		N38	W47	7935		1-							DG
KANZ	15	1347 E	1400 D		N38	W47	7935		1-							DG
SACP	15	1411 E	1419 U	1412	S33	W79	7936		1-	P		.96			17	DG
MCMA	15	1854	1903	1855	N26	E20	7947		1-	2 C	1855	.20	.20			DH
LOCK	16	0030 E	0048	0040	N31	E90	7952		1-	C	0040	.30	1.50		10	H
ARCE	16	0920 E	0955 D		N25	W90	7932	35 D	1	2	0920	.56	3.18			
MCMA	16	2010	2020	2012	N22	E75	7952		1-	1 C	2012	.30				EL
LOCK	17	1812	1835	1824	S34	W80	7936		1-	C	1824	.20	.50		10	
HALE	18	0110	0129	0117	N28	W01	7947		1-	2 C	0117	.40	.40			
SACP	18	1432	1442	1437	N23	E84	7956		1-	C		.70			18	
IKOM	19	2320	2333 D		N20	E70	7956		1-	V						G
CAPS	20	0719	0742		N20	E63	7956		1-	3	0724	.50	1.00		180	G
HALE	20	1637	1648	1641	N39	W90	7935	11	1+	3 C	1641	.50				
LOCK	20	1638 E	1644	1638 U	N38	W90	7935		1-	C	1638	.30	1.50		10	
LOCK	20	1839	1901	1848	N22	E57	7956		1-	C	1848	.50	.80		10	
HALE	20	1846	1903	1852	N23	E56	7956		1-	1 C	1852	.40	.60			
MANI	21	0528 E	0555 D	0530	N38	W43	7947		1-	2	0530	.20	.28			



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OBSERVATORY	DATE AUG 1965	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION - MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					REMARKS
		START	END	MAX. PHASE	APPROX.		M-MATH FLARE REGION				TIME - U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.										
LOCK	21	2140	2230	2148	N25	E76	7960		1-	C	2148	.40	.80		10	K
LOCK	21			2215												
KAND	23	0909	0945		N10	E30	7959		1-							
KAND	23	0956	1019		N25	E90	7961		U							
OTTA	23	1504	1511	1507	N28	E90	7961		1-	2	1507	.47				
LOCK	23	1841	1852	1845	N28	E90	7961		1-	C	1845	.30	1.50		10	H
MCMA	24	2007	2025	2010	N28	E08	7956		1-	1 C	2010	.40	.40			EL
MCMA	26	1425	1530 D		N27	E50	7961		1-	1 P	1427	.40	.60			FH
MCMA	26	1821	1912 D		N27	E48	7961		1-	1 P	1832	.30	.40			EH
ARCE	27	0815 E	0830 D		N27	E40	7961		1-	2	0815	.82	1.14			
ARCE	27	0910 E	0925 D		N27	E40	7961		1-	2	0910	.43	.60			
LOCK	27	2039	2110	2045	N01	E27	7968		1-	C	2045	.20	.20		10	
ARCE	28	0820 E			N27	E28	7961		1-	2	0820	1.11	1.36			
MITK	29	0252 E	0316	0308	N02	E18	7968		1-	C						GH
HALE	29	0306	0315 D	0308	N02	E18	7968		1-	2 P	0308	.20	.20			
HALE	29	1852	1904	1857	N25	E08	7961		1-	3 C	1857	.10	.10			
ARCE	30	0900 E	0930 D		N26	E00	7961		1-	2	0900	.78	.84			
SACP	30	1410	1432 D	1418	N26	W03	7961		1-	C					23	
ZURI	30	1415 E	1427		N25	W01	7961	12 D	1	S		.87	.86			
CAPS	30	1415	1430		N26	E00	7961		1-	3	1418	.90	1.00		170	E
OTTA	30	1601	1632	1608	N27	W04	7961		1-	2	1608	.75	.75			E
LOCK	30	1720	1744	1733	N24	W04	7961		1-	C	1733	.20	.20			
HALE	30	1846	1923	1852	N27	W04	7961	37	1	3 C	1852	2.10	2.10			
LOCK	30	1847	1928	1854	N26	W04	7961		1-	C	1854	1.60	1.60		20	
SACP	30	1853 E	1940 U	1854	N27	W05	7961	47 D	1	P		2.35	2.34		23	
LOCK	30	2320	2327	2327	N26	W88	7956		1-	C	2327	.20	.60		10	H
KAND	31		0757		N15	W90	7956		1-							
MITK	31	0625	0645	0634	N22	W90	7956		1-	C						GH
KAND	31	0801	0822		N15	W90	7956	21	1+							
KAND	31	0902	1030		N15	W90	7956	88	1+							
CAPS	31	1122	1138		S02	W11	7968		1-	2	1126	.40	.40		175	DG
LOCK	31	2310	2333	2314	N25	W21	7961		1-	C	2314	1.60	1.60		20	
SACP	31	2311	2334	2314	N26	W22	7961	23	1	C		2.56	2.61		28	
HALE	31	2312	2339	2314	N25	W22	7961	27	1	2 C	2314	2.60	2.60			