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Jul 98

H α SOLAR FLARES

JULY 1998

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0001	HOLL	01	0004	0005	0028	N25	E39	8259	07	4.0	24	SF	3	E		45		
			01 0011		0102	No Flare Patrol												
			01 0120		0129	No Flare Patrol												
			01 0309		0318	No Flare Patrol												
			01 0327		0342	No Flare Patrol												
0002	SVTO	01	1054	1056	1104	N25	E32	8259	07	3.9	10	SF	3	E		10		
0003		01	14132	14144	1430	N23	E29	8259	07	3.8	17	SF				18		F
	HOLL	01	1413	1414	1424	N25	E31	8259	07	4.0	11	SF	3	E		22		F
	SVTO	01	1415	1418	1437	N21	E27	8259	07	3.7	22	SF	3	E		13		
0004	HOLL	01	1742	1742	1748	N16	W46	8253	06	28.3	6	SF	3	E		12		F
0005		01	17599	18104	1850	S23	W02	8256	07	1.6	51	1F				144		FS
	HOLL	01	1759	1814	1915	S23	W02	8256	07	1.6	76	1F	3	E		226		F
	RAMY	01	1808	1810	1825	S23	W02	8256	07	1.6	17	SF	3	E		62		S
0006		01	1837	1839	1848	N14	W45	8253	06	28.5	11	SF				44		H
	HOLL	01	1837	1839	1849	N15	W45	8253	06	28.5	12	SF	3	E		71		
	RAMY	01	1838E	1838U	1848	N14	W45	8253	06	28.5	10D	SF	3	E		16		H
			01 2034		2055	No Flare Patrol												
			01 2204		2235	No Flare Patrol												
0007		02	0110*	01221	0124	N18	W42	8253	06	28.9	14	1B				132	1.8	E
	URUM	02	0110	0122	0130D	N19	W41	8253	06	29.0	20D	1B		P		209	2.9	E
	MITK	02	0123	0123	0124	N17	W42	8253	06	29.0	1	SN		C	0123	56	0.8	
0008	URUM	02	0937E	0937	0937D	N15	W52	8253	06	28.6	1D	SN		P		32	0.5	D
0009	URUM	02	0948E	0948	0948D	N14	W53	8253	06	28.5	1D	SB		P		32	0.6	D
			02 1029		1058	No Flare Patrol												
0010	HOLL	02	1241E	1241U	1247	S26	W14	8256	07	1.4	6D	SF	2	E		36		
			02 2204		2400	No Flare Patrol												
			03 0000		0042	No Flare Patrol												
0011	MITK	03	0107	0112	0124	S23	W21	8256	07	1.4	17	1N		C	0112	180	2.2	E
0012	RAMY	03	1123E	1123U	1132	S25	W26	8256	07	1.5	9D	SF	2	E		28		F
0013	HOLL	03	1740	1741	1751	S25	W31	8256	07	1.3	11	SF	3	E		15		
0014	HOLL	03	1830	1830	1833	N15	W72	8253	06	28.4	3	SF	3	E		14		
0015	HOLL	03	2015	2015	2022	S25	W29	8256	07	1.6	7	SF	3	E		12		
			03 2025		2029	No Flare Patrol												
			03 2118		2151	No Flare Patrol												
			03 2208		2400	No Flare Patrol												
			04 0000		0015	No Flare Patrol												
0016	URUM	04	0018E	0018	0018D	S24	W34	8256	07	1.4	7D	SB		P		80	1.1	E
0017	URUM	04	0054	0058	0109	S23	W35	8256	07	1.3	15	SN		C		48	0.7	D
0018	URUM	04	0117	0125	0133	N16	W71	8253	06	28.8	16	SN		P		64		E
0019	SVTO	04	0511	0519	0532	S22	W38	8256	07	1.3	21	SF	3	E		15		
0020		04	0540	0543	0608	S24	W38	8256	07	1.3	28	SB				78	1.4	EF
	SVTO	04	0540	0543	0614	S24	W40	8256	07	1.1	34	SN	3	E		59		FE
	URUM	04	0543E	0543U	0603	S25	W37	8256	07	1.4	20D	SB		P		96	1.4	E
0021	SVTO	04	0729	0739	0800	S22	W04	8260	07	4.0	31	SF	3	E		20		F

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														Time (UT)	Apparent (10-6 Disk)		Corr (Sq Deg)
		09 0000		0021			No Flare Patrol										
0041	URUM	09 0344	0401	0404D	N14	W34	8264	07	6.6	20D	SB			P	64	0.8	D
		09 0909		1103			No Flare Patrol										
0042	KANZ	09 1104E	1104U	1129	S22	W37	8263	07	6.6	25D	SF	2		C			
		09 1112		1120			No Flare Patrol										
0043	KANZ	09 1121E	1121U	1137	S23	E63		07	14.3	16D	SF	2		C			
		09 1158		1204			No Flare Patrol										
		09 1206		1207			No Flare Patrol										
0044		09 1532	1536	1554	N15	W41	8264	07	6.5	22	SF				36		F
	SVTO	09 1532	1536	1554	N16	W40	8264	07	6.6	22	SF	3		E	49		F
	RAMY	09 1533E	1533U	1548D	N14	W42	8264	07	6.5	15D	SF	3		E	23		
		09 2110		2138			No Flare Patrol										
		09 2303		2400			No Flare Patrol										
		10 0000		0026			No Flare Patrol										
0045	URUM	10 0252	0256	0316	S23	W54	8263	07	5.9	24	SB			C	32	0.6	D
0046	URUM	10 0408	0412	0428	S15	E54		07	14.3	20	SN			C	96	1.8	E
0047	URUM	10 0408	0412	0420	S23	E80	8270	07	16.3	12	1N			C	177		DG
0048		10 0453	04487	0504	S21	W55	8263	07	6.0	11	SN				46	1.6	EF
	URUM	10 0448E	0448	0504	S21	W54	8263	07	6.0	16D	SN			P	80	1.6	E
	SVTO	10 0453	0455	0504	S21	W56	8263	07	5.9	11	SF	3		E	12		F
0049	SVTO	10 0632E	0635U	0646	S22	E78	8270	07	16.3	14D	SF	3		E	34		
0050	KANZ	10 0630	0630U	0646D	S20	E15		07	11.4	16D	SF	2		C			
0051	HOLL	10 1905	1905	1911	S21	E46		07	14.3	6	SF	3		E	15		
		10 2358		2400			No Flare Patrol										
		11 0000		0011			No Flare Patrol										
		11 0015		0059			No Flare Patrol										
		11 0120		0139			No Flare Patrol										
		11 0158		0414			No Flare Patrol										
0052	SVTO	11 0434	0450	0508	S21	W63	8263	07	6.4	34	SF	3		E	23		F
0053	SVTO	11 0438	0438	0446	N16	W60	8264	07	6.6	8	SF	3		E	24		
0054	SVTO	11 1057	1058	1106	S23	E62	8270	07	16.2	9	SF	3		E	25		H
0055		11 1249	1253	1257	N16	W67	8264	07	6.4	8	SF				23		FH
	RAMY	11 1247E	1247U	1311D	N16	W68	8264	07	6.4	24D	SF	3		E	24		F
	SVTO	11 1249	1253	1257	N17	W66	8264	07	6.5	8	SF	3		E	22		H
0056	HOLL	11 1838	1838	1844	S22	E55	8270	07	16.0	6	SF	3		E	10		
		11 2248		2255			No Flare Patrol										
		11 2322		2400			No Flare Patrol										
		12 0000		0359			No Flare Patrol										
		13 0013		0400			No Flare Patrol										
0057	SVTO	13 1651	1651	1704	S22	E33	8270	07	16.2	13	SF	3		E	16		
0058	HOLL	13 2029	2033	2040	N17	E32	8269	07	16.3	11	SF	3		E	22		
		13 2310		2400			No Flare Patrol										
		14 0000		0329			No Flare Patrol										

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																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
0059	SVTO	14	0814	0818	0825	S22	E24	8270	07	16.2	11	SF		3	E		11			
0060	SVTO	14	1037	1039	1043	S21	E22	8270	07	16.1	6	SF		4	E		12		F	
0061	SVTO	14	1053	1056	1128	N20	E26	8269	07	16.4	35	SF		3	E		48		FU	
0062	RAMY	14	1054E	1054U	1116	N20	W26	8269	07	12.5	22D	SF		3	E		16		F	
0063		14	12551	1259	1329	S21	E21	8270	07	16.1	34	1B					147		EF	
	SVTO	14	1255	1259	1340	S23	E20	8270	07	16.1	45	1B		3	E		198		E	
	RAMY	14	1256	1259	1314	S21	E21	8270	07	16.1	18	SN		3	E		88		F	
	HOLL	14	1259E	1302U	1332	S20	E23	8270	07	16.3	33D	1B		2	E		155			
0064	URUM	15	0138E	0138	0142	S22	E12	8270	07	16.0	4D	SN			P		48	0.6	D	
0065	URUM	15	0539	0543	0547	N26	E17	8271A	07	16.5	8	SN			C		80	0.9	D	
0066	SVTO	15	0727	0728	0738	S21	E10	8270	07	16.1	11	SF		3	E		14		F	
0067	SVTO	15	0741	0742	0751	S21	E09	8270	07	16.0	10	SF		3	E		13		F	
0068		15	10382	1042	1056	S30	E65	8272	07	20.5	18	SF					30		FH	
	KANZ	15	1038	1048U	1048D	S31	E67	8272	07	20.7	10D	SF		2	C					
	SVTO	15	1040	1042	1053	S31	E65	8272	07	20.6	13	SF		3	E		27		F	
	RAMY	15	1043E	1044U	1058	S29	E64	8272	07	20.5	15D	SN		3	E		32		H	
0069		15	1106	1106	1121	S22	E09	8270	07	16.1	15	SF					18		F	
	RAMY	15	1102E	1105U	1130	S21	E10	8270	07	16.2	28D	SF		3	E		11		F	
	SVTO	15	1106	1106	1112	S23	E08	8270	07	16.1	6	SF		2	E		24		F	
		15	1206		1259	No Flare Patrol														
0070	HOLL	15	1335	1337	1342	S27	E26	8272	07	17.6	7	SF		3	E		14			
0071		15	1515	15151	1532	S21	E04	8270	07	15.9	17	SF					30			
	RAMY	15	1515	1515	1530	S21	E06	8270	07	16.1	15	SF		3	E		24			
	HOLL	15	1515	1516	1534	S21	E03	8270	07	15.9	19	SF		3	E		36			
0072		15	1536*	1553	1638	S20	E06	8270	07	16.1	62	SF					44		F	
	HOLL	15	1536	1553	1647	S20	E07	8270	07	16.2	71	SF		3	E		63		F	
	RAMY	15	1551	1553	1630	S21	E06	8270	07	16.1	39	SF		3	E		26			
0073	HOLL	15	1602	1603	1607	S27	E25	8273	07	17.6	5	SF		3	E		21			
0074	HOLL	15	1951	2010	2052	S20	E03	8270	07	16.0	61	SF		3	E		75		F	
		15	2100		2237	No Flare Patrol														
0075	HOLL	15	2348	2348	2354	S20	E00	8270	07	16.0	6	SF		3	E		12			
0076	LEAR	16	0022	0022	0033	S20	W01	8270	07	15.9	11	SF		3	E		35			
0077	URUM	16	0313	0317	0325	S20	E02	8270	07	16.3	12	SN			C		48	0.5	E	
0078	URUM	16	0345E	0345	0349	S22	E01	8270	07	16.2	4D	SN			P		48	0.6	E	
0079		16	07551	07597	0815	S20	W04	8270	07	16.0	20	SF					27			
	LEAR	16	0755	0759	0815	S20	W05	8270	07	15.9	20	SF		3	E		27			
	KANZ	16	0756	0806	0810D	S21	W02	8270	07	16.2	14D	SF		2	C					
0080	KHAR	16	0925		0950	S20	W09	8270	07	15.7	25	1N		2	V					
0081		16	1023	1027	1037D	S30	E52	8272	07	20.5	14D	SF					34		F	
	SVTO	16	1023E	1025U	1037D	S31	E52	8272	07	20.5	14D	SF		2	E		34		F	
	KANZ	16	1023	1027	1036D	S30	E51	8272	07	20.4	13D	SF		2	C					
0082	URUM	16	1141	1145	1153	S21	W06	8270	07	16.0	12	SB			C		64	0.7	D	
0083	HOLL	16	1315	1319	1325	S22	W06	8270	07	16.1	10	SF		3	E		18		F	

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															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0084	HOLL	16	1349	1351	1354	S28	E49	8272	07	20.4	5	SF	3	E		21		F
0085	HOLL	16	1559	1605	1614	S21	W09	8270	07	16.0	15	SF	3	E		28		
0086		16	16202	16232	1645	S22	W08	8270	07	16.1	25	SF				33		F
	HOLL	16	1620	1625	1653	S22	W08	8270	07	16.1	33	SF	3	E		50		F
	RAMY	16	1621	1624	1647	S22	W07	8270	07	16.1	26	SF	4	E		33		F
	SVTO	16	1622	1623	1635	S21	W09	8270	07	16.0	13	SF	3	E		17		F
0087	HOLL	16	1907	1909	1914	S29	E47	8272	07	20.5	7	SF	3	E		15		
0088	HOLL	16	1922	1922	1932	S20	W09	8270	07	16.1	10	SF	3	E		13		
		16	1947		1953	No Flare Patrol												
0089	HOLL	16	2024	2034	2101	S21	W10	8270	07	16.1	37	1F	3	E		110		
		16	2026		2032	No Flare Patrol												
		16	2048		2101	No Flare Patrol												
		16	2134		2335	No Flare Patrol												
0090	HOLL	17	0004	0004	0013	S21	W11	8270	07	16.1	9	SF	3	E		15		
0091		17	15118	1521	1530	S29	E37	8272	07	20.5	19	SF				56		F
	SVTO	17	1511	1521	1536	S30	E35	8272	07	20.4	25	1F	3	E		112		F
	HOLL	17	1514	1521	1527	S29	E37	8272	07	20.5	13	SF	3	E		43		
	RAMY	17	1519	1521	1526	S29	E39	8272	07	20.7	7	SF	3	E		13		
0092	SVTO	17	1532	1532	1544	S21	W21	8270	07	16.0	12	SF	3	E		24		F
0093	SVTO	17	1718	1720	1726	S19	W23	8270	07	16.0	8	SF	3	E		12		F
		17	1746		1849	No Flare Patrol												
		17	1857		2310	No Flare Patrol												
		18	1743		1753	No Flare Patrol												
		18	2154		2328	No Flare Patrol												
0094		19	11135	1151	1222	S20	W25	8274	07	17.5	69	SF				20		
	SVTO	19	1113	1151	1222	S19	W26	8274	07	17.5	69	SF	3	E		20		
	KANZ	19	1118	1122U	1122D	S20	W24	8274	07	17.6	4D	SF	2	C				
0095	SVTO	19	1124	1125	1130	S23	W44	8270	07	16.1	6	SF	3	E		18		
0096		19	1325	13251	1330	S24	W42	8270	07	16.3	5	SF				20		H
	HOLL	19	1325	1325	1331	S24	W42	8270	07	16.3	6	SF	3	E		27		
	RAMY	19	1325	1326	1328	S24	W43	8270	07	16.2	3	SF	4	E		14		H
0097		19	1325*	13391	1350	S23	W45	8270	07	16.1	25	SF				31		
	SVTO	19	1325	1339	1355	S23	W45	8270	07	16.1	30	SF	3	E		39		
	HOLL	19	1336	1339	1348	S23	W46	8270	07	16.0	12	SF	3	E		36		
	RAMY	19	1339	1340	1346	S24	W44	8270	07	16.2	7	SF	4	E		17		
0098		19	15103	15125	1526	S23	W45	8270	07	16.2	16	SF				27		
	SVTO	19	1510	1512	1525	S23	W46	8270	07	16.1	15	SF	3	E		23		
	HOLL	19	1510	1516	1523	S23	W45	8270	07	16.2	13	SF	3	E		31		
	KANZ	19	1513	1517	1529	S24	W45	8270	07	16.1	16	SF	2	C				
		19	2044		2105	No Flare Patrol												
		19	2213		2249	No Flare Patrol												
		19	2256		2327	No Flare Patrol												
0099		20	07411	07441	0748	S24	W53	8270	07	16.2	7	SF				11		
	KANZ	20	0741	0745	0749	S23	W52	8270	07	16.3	8	SF	2	C				
	SVTO	20	0742	0744	0747	S24	W54	8270	07	16.1	5	SF	3	E		11		
0100	KANZ	20	0833	0837	0841	S14	W53	8271	07	16.3	8	SF	2	C				
0101	KANZ	20	0853	0853	0857	S19	E60	8276	07	24.9	4	SF	2	C				

