

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
							USAF Region							CMP Mo Day	Apparent (10-6 Disk)	
		01	0208		0305	No	Flare	Patrol								
		01	0332		0645	No	Flare	Patrol								
		01	0650		0657	No	Flare	Patrol								
		01	1044		1402	No	Flare	Patrol								
		01	1435		1442	No	Flare	Patrol								
		01	2113		2145	No	Flare	Patrol								
		02	1101		1242	No	Flare	Patrol								
		02	1319		1325	No	Flare	Patrol								
		02	1628		1752	No	Flare	Patrol								
		02	2348		2354	No	Flare	Patrol								
		03	0435		0525	No	Flare	Patrol								
		03	0833		0849	No	Flare	Patrol								
		03	1045		1403	No	Flare	Patrol								
		03	1658		1755	No	Flare	Patrol								
		03	2102		2206	No	Flare	Patrol								
		04	0832		0846	No	Flare	Patrol								
		04	1608		1701	No	Flare	Patrol								
		04	1741		2009	No	Flare	Patrol								
		04	2019		2134	No	Flare	Patrol								
		05	1314		1329	No	Flare	Patrol								
		05	1359		1404	No	Flare	Patrol								
		05	2056		2103	No	Flare	Patrol								
		06	1047		1127	No	Flare	Patrol								
		06	1145		1308	No	Flare	Patrol								
		06	1322		1431	No	Flare	Patrol								
		06	1435		1501	No	Flare	Patrol								
		06	1532		1540	No	Flare	Patrol								
		06	1545		1556	No	Flare	Patrol								
		06	2150		2212	No	Flare	Patrol								
		06	2220		2227	No	Flare	Patrol								
		07	0608		0716	No	Flare	Patrol								
		07	1148		1210	No	Flare	Patrol								
		07	1215		1217	No	Flare	Patrol								
		07	1220		1221	No	Flare	Patrol								
		07	1228		1328	No	Flare	Patrol								
		07	1352		1407	No	Flare	Patrol								
		08	1049		1408	No	Flare	Patrol								
		09	1138		1212	No	Flare	Patrol								
		09	1214		1222	No	Flare	Patrol								
		09	1225		1227	No	Flare	Patrol								
		09	1230		1309	No	Flare	Patrol								
		09	1341		1524</											

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF		Dur (Min)	Imp		Obs See	Time (UT)	Area Measurement		Remarks
							Region	CMP Mo Day		Opt	Xray			Apparent (10-6 Disk)	Corr (Sq Deg)	
		14	1218		1219	No	Flare	Patrol								
		14	1301		1412	No	Flare	Patrol								
0002	HOLL	14	1543E	1552U	1618D	N16	W55	11133	12	10.5	35D	SF	3	E	30	F
		14	2351		2400	No	Flare	Patrol								
		15	0000		0247	No	Flare	Patrol								
		15	1053		1150	No	Flare	Patrol								
		15	1200		1447	No	Flare	Patrol								
		15	2108		2133	No	Flare	Patrol								
		16	0507		0749	No	Flare	Patrol								
		16	0838		0840	No	Flare	Patrol								
		16	1318		1334	No	Flare	Patrol								
		16	1425		1907	No	Flare	Patrol								
		16	2018		2054	No	Flare	Patrol								
		16	2117		2220	No	Flare	Patrol								
		16	2257		2400	No	Flare	Patrol								
		17	0000		0705	No	Flare	Patrol								
		17	1500		1544	No	Flare	Patrol								
		17	1548		1559	No	Flare	Patrol								
		17	1905		2140	No	Flare	Patrol								
		17	2151		2400	No	Flare	Patrol								
		18	0000		0713	No	Flare	Patrol								
		18	0943		1001	No	Flare	Patrol								
		18	1049		1050	No	Flare	Patrol								
		18	1053		1054	No	Flare	Patrol								
		18	1059		1104	No	Flare	Patrol								
		18	1106		1131	No	Flare	Patrol								
		18	1133		1137	No	Flare	Patrol								
		18	1139		1208	No	Flare	Patrol								
		18	1210		1212	No	Flare	Patrol								
		18	1218		1221	No	Flare	Patrol								
		18	1229		1230	No	Flare	Patrol								
		18	1240		1242	No	Flare	Patrol								
		18	1352		1555	No	Flare	Patrol								
		18	1608		1720	No	Flare	Patrol								
		18	2336		2400	No	Flare	Patrol								
		19	0000		0758	No	Flare	Patrol								
		19	0800		0813	No	Flare	Patrol								
		19	0835		0837	No	Flare	Patrol								
		19	1107		1109	No	Flare	Patrol								
		19	1111		1112	No	Flare	Patrol								
		19	1117		1134	No	Flare	Pat								

H A S O L A R F L A R E S

DECEMBER 2010

		NOAA/										Area Measurement						
Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
		21	1635		1646	No	Flare	Patrol										
		22	0112		0250	No	Flare	Patrol										
		22	0517		0645	No	Flare	Patrol										
		22	1057		1417	No	Flare	Patrol										
		22	1423		1537	No	Flare	Patrol										
		22	1551		1839	No	Flare	Patrol										
		22	1846		2203	No	Flare	Patrol										
		23	0000		0324	No	Flare	Patrol										
		23	1057		1601	No	Flare	Patrol										
		23	1823		1903	No	Flare	Patrol										
		23	1941		1949	No	Flare	Patrol										
		23	2035		2152	No	Flare	Patrol										
		24	1058		1139	No	Flare	Patrol										
		24	1144		1149	No	Flare	Patrol										
		24	1155		1157	No	Flare	Patrol										
		24	1159		1412	No	Flare	Patrol										
		24	1440		1448	No	Flare	Patrol										
		25	1058		1418	No	Flare	Patrol										
		26	1059		1419	No	Flare	Patrol										
		26	2037		2101	No	Flare	Patrol										
		27	1128		1129	No	Flare	Patrol										
		27	1133		1134	No	Flare	Patrol										
		27	1142		1143	No	Flare	Patrol										
		27	1145		1146	No	Flare	Patrol										
		27	1153		1154	No	Flare	Patrol										
		27	1159		1201	No	Flare	Patrol										
		27	1210		1319	No	Flare	Patrol										
		27	1346		1350	No	Flare	Patrol										
		27	1353		1453	No	Flare	Patrol										
		27	1501		1607	No	Flare	Patrol										
		27	1627		1644	No	Flare	Patrol										
		27	1753		1809	No	Flare	Patrol										
		27	1820		2208	No	Flare	Patrol										
		27	2224		2231	No	Flare	Patrol										
		28	0239		0830	No	Flare	Patrol										
		28	0853		0911	No	Flare	Patrol										
		28	0921		0922	No	Flare	Patrol										
		28	1024		1026	No	Flare	Patrol										
		28	1031		1032	No	Flare	Patrol										
		28	1113		1119	No	Flare	Patrol										
		28	1456		1554	No	Flare	Patrol										
		28	1602		1608	No	Flare	Patrol										
		28	1621		1811	No	Flare	Patrol										
		28	1831		1934	No	Flare	Patrol										
		28	1939		2047	No	Flare	Patrol										
		28	2203		2214	No	Flare	Patrol										
		28	2357		2400	No	Flare	Patrol										
		29	0000		0348	No	Flare	Patrol										
		29	0353		0546	No	Flare	Patrol										
		29	1435		1507	No	Flare	Patrol										
		29	1839		1936	No	Flare	Patrol										
		29	1944		2328	No	Flare	Patrol										
		30	0056		0714	No	Flare	Patrol										
		30	1415		1424	No	Flare	Patrol										
		30	1438		1446	No	Flare	Patrol										
		30	1530		1619	No	Flare	Patrol										
		30	1700		1843	No	Flare	Patrol										
		30	1856		2216	No	Flare	Patrol										
		31	1122		1128	No	Flare	Patrol										
		31	1355		1356	No	Flare	Patrol										
		31	1358		1420	No	Flare	Patrol										
		31	1623		1929	No	Flare	Patrol										
		31	2040		2142	No	Flare	Patrol										

"Remarks"

A = Eruptive prominence whose base is less than 90 degrees from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.

O = Observations have been made in the H and K lines of Ca II.
 P = Flare shows Helium D3 in emission.
 Q = Flare shows Balmer continuum in emission.
 R = Marked asymmetry in H-alpha line suggests

E = Two or more brilliant points.	ejection of high-velocity material.
F = Several eruptive centers.	S = Brightness follows disappearance of filament in same position.
G = No visible spots in the neighborhood.	T = Region active all day.
H = Flare accompanied by high-speed dark filament.	U = Two bright branches, parallel or converging.
I = Active region very extended.	V = Occurrence of an explosive phase; important, expansion within roughly 1 minute that often includes a significant intensity increase.
J = Distinct variations of plage intensity before or after the flare.	W = Great increase in area after time of maximum intensity.
K = Several intensity maxima.	X = Unusually wide H-alpha line.
L = Existing filaments show signs of sudden activity.	Y = System of loop-type prominences.
M = White-light flare.	Z = Major sunspot umbra covered by flare.
N = Continuous spectrum shows effects of polarization.	

Observation Type: C=Cinematographic, E=Electronic, P=Photographic, V=Visual