S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10134B		TACH	09	30	0533	N06	E23	10	1.9			AXX	5	1	1	4
10134C		LEAR	09	30	0020	S18	E39	10	3.0		B	CRO	20	3	2	2
10134C		HOLL	10	01	1745	S17	E16	10	2.9		B	BXO	10	4	4	3
10137		VORO	09	28	0035	S18	E72	10	3.5			HAX	41	2		3
10137		HOLL	09	28	1900	S18	E70	10	4.1		B	CAO	60	4	6	3
10137		LEAR	09	29	0035	S18	E62	10	3.7		B	DAO	50	5	7	3
10137		TACH	09	29	0724	S17	E59	10	3.8			CSO	42	2	6	2
10137		SVTO	09	29	0800	S14	E58	10	3.7		B	DSO	40	2	7	3
10137		HOLL	09	29	1617	S17	E54	10	3.8		B	CSO	40	4	9	3
10137		LEAR	09	30	0020	S19	E49	10	3.7		B	DAO	60	5	8	2
10137		TACH	09	30	0533	S19	E45	10	3.7			BRI	23	8	9	4
10137		SVTO	09	30	0635	S16	E45	10	3.7		B	CSO	80	4	6	3
10137		RAMY	09	30	1210	S17	E42	10	3.7		B	DAO	50	4	7	3
10137		LEAR	10	01	0120	S19	E31	10	3.4		BG	DAO	90	16	7	1
10137		SVTO	10	01	0620	S18	E31	10	3.6		B	DSO	160	7	8	3
10137		TACH	10	01	0621	S18	E29	10	3.5			DAI	208	7	8	3
10137		RAMY	10	01	1305	S18	E27	10	3.6		BG	DAI	160	19	9	3
10137		HOLL	10	01	1745	S19	E24	10	3.6		BG	DAI	210	25	9	3
10137		LEAR	10	02	0130	S18	E18	10	3.4		B	DAI	140	28	9	4
10137		VORO	10	02	0312	S19	E17	10	3.4			DAI	255	19	5	3
10137		TACH	10	02	0449	S19	E17	10	3.5			CAI	157	12	7	3
10137		SVTO	10	02	1114	S18	E15	10	3.6		B	DAI	330	14	9	3
10137		RAMY	10	02	1125	S18	E17	10	3.8		BG	EKI	380	38	12	4
10137		HOLL	10	02	1441	S18	E12	10	3.5		B	DKC	400	33	10	3
10137	31453	MWIL	10	02	2100	S19	E07	10	3.4	5	(B)					
10137		VORO	10	02	2240	S19	E07	10	3.5			DAI	464	25	5	2
10137		LEAR	10	03	0120	S19	E05	10	3.4		BG	DKI	250	20	10	3
10137		SVTO	10	03	0617	S19	E05	10	3.6		B	DAO	260	9	9	2
10137		TACH	10	03	0650	S19	E03	10	3.5			DAI	286	17	7	3
10137		RAMY	10	03	1205	S19	E04	10	3.8		BG	EKI	390	25	11	3
10137		HOLL	10	03	1435	S19	W01	10	3.5		BD	EKC	310	20	11	3
10137	31453	MWIL	10	03	1515	S19	W02	10	3.5	5	(B)					
10137		VORO	10	03	2259	S19	W06	10	3.5			DAI	341	14	8	2
10137		LEAR	10	04	0115	S19	W08	10	3.4		BG	DSI	200	11	9	2
10137		TACH	10	04	0601	S19	W10	10	3.5			CAI	237	12	8	2
10137		SVTO	10	04	0915	S19	W13	10	3.4		BG	ESI	260	11	12	3
10137		RAMY	10	04	1215	S20	W12	10	3.6		BG	ESI	150	19	11	3
10137		HOLL	10	04	1418	S19	W15	10	3.4		BG	EAI	260	27	12	2
10137	31453	MWIL	10	04	1515	S19	W16	10	3.4	5	(D)					
10137		VORO	10	04	2315	S18	W21	10	3.4			DAI	316	29	5	3
10137		LEAR	10	05	0120	S16	W24	10	3.2		BGD	DSI	200	12	10	2
10137		TACH	10	05	0448	S18	W22	10	3.5			CAI	254	18	8	3
10137		RAMY	10	05	1215	S20	W26	10	3.5		BG	EAI	230	22	12	3
10137		HOLL	10	05	1425	S19	W28	10	3.5		BG	EAI	240	28	11	4
10137	31453	MWIL	10	05	1515	S19	W29	10	3.4	5	(BG)					
10137		LEAR	10	06	0205	S18	W35	10	3.4		BG	EAO	190	20	11	2
10137		TACH	10	06	0725	S18	W37	10	3.5			DAI	310	10	7	4
10137		RAMY	10	06	1115	S20	W41	10	3.3		BG	DAI	240	18	10	3
10137	31453	MWIL	10	06	1445	S19	W43	10	3.3	5	(B)					
10137		SVTO	10	06	1510	S20	W44	10	3.3		B	EAI	170	6	11	2
10137		HOLL	10	06	1641	S18	W43	10	3.4		B	EAO	210	12	11	2
10137		VORO	10	06	2223	S18	W45	10	3.5			DAI	208	14	8	3
10137		LEAR	10	07	0028	S18	W47	10	3.4		B	DAO	240	12	10	4
10137		TACH	10	07	0612	S18	W49	10	3.5			CAO	189	4	8	2
10137		SVTO	10	07	1051	S19	W53	10	3.4		B	ESI	140	6	11	2
10137		RAMY	10	07	1112	S20	W54	10	3.3		B	DAO	180	5	10	3
10137	31453	MWIL	10	07	1500	S19	W56	10	3.3	5	(BP)					
10137		LEAR	10	08	0020	S18	W61	10	3.4		B	DAO	140	6	10	2
10137		TACH	10	08	0525	S18	W66	10	3.2			HSX	146	1	2	3
10137		SVTO	10	08	0551	S21	W67	10	3.1		A	HSX	120	1	4	3
10137		RAMY	10	08	1113	S20	W71	10	3.0		A	HAX	150	1	3	4
10137	31453	MWIL	10	08	1515	S19	W73	10	3.1	5	(AP)					
10137		HOLL	10	08	2135	S18	W77	10	3.0		A	HSX	120	1	2	3
10137		VORO	10	09	0218	S19	W79	10	3.1			HRX	111	1		3
10137		TACH	10	09	0423	S19	W80	10	3.1			HXX	55	1	2	4
10137		LEAR	10	09	0839	S18	W77	10	3.5		B	DAO	150	3	4	3
10137		SVTO	10	09	0912	S19	W83	10	3.0		B	DSO	70	10	6	2

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10137		LEAR	10	10	0050	S18	W80	10	3.9		B	DAO	40	2	3	3
10137A		HOLL	10	02	1441	S10	E20	10	4.1		A	AXX	10	3	2	3
10137B	31456	MWIL	10	04	1515	N16	W01	10	4.5	4	(AP)					
10137B		LEAR	10	07	0028	N19	W29	10	4.8		B	BXO	10	2	3	4
10143		RAMY	10	02	1125	S13	E42	10	5.6		B	BXO	10	3	3	4
10143		HOLL	10	02	1441	S16	E37	10	5.4		A	AXX	10	2	2	3
10143	31454	MWIL	10	02	2100	S16	E35	10	5.5	4	(AP)					
10143		VORO	10	02	2240	S16	E33	10	5.4			BXO	10	6	2	3
10143		RAMY	10	03	1205	S13	E28	10	5.6		A	HSX	10	1	1	3
10143		HOLL	10	03	1435	S15	E23	10	5.3		A	AXX	10	1	1	3
10143		RAMY	10	07	1112	S19	W31	10	5.1		A	HRX	10	1	1	3
10143	31464	MWIL	10	07	1500	S17	W32	10	5.2	4	(B)					
10143		LEAR	10	08	0020	S17	W38	10	5.1		B	DAO	30	5	4	2
10143		TACH	10	08	0525	S17	W39	10	5.3			BRI	34	3	3	3
10143		RAMY	10	08	1113	S19	W43	10	5.2		B	DSO	40	3	4	4
10143	31464	MWIL	10	08	1515	S17	W44	10	5.3	4	(BG)					
10143		HOLL	10	08	2135	S17	W47	10	5.3		B	BXO	30	13	6	3
10143		VORO	10	09	0218	S17	W48	10	5.4			BRI	104	5	2	3
10143		TACH	10	09	0423	S17	W49	10	5.4			CAI	57	6	4	4
10143		LEAR	10	09	0839	S17	W49	10	5.6		B	DAO	100	12	6	3
10143		RAMY	10	09	1009	S17	W56	10	5.2		B	DSO	50	10	5	3
10143		HOLL	10	09	1448	S16	W56	10	5.4		B	BXO	40	10	6	4
10143	31464	MWIL	10	09	1515	S17	W56	10	5.4	4	(B)					
10143		VORO	10	09	2227	S19	W60	10	5.3			AXX	68	16		3
10143		LEAR	10	10	0050	S16	W62	10	5.3		BGD	DSO	100	12	6	3
10143	31464	MWIL	10	10	1500	S16	W71	10	5.2	3	(AP)					
10143A		LEAR	10	07	0028	N13	W17	10	5.7		B	CRO	20	5	6	4
10143B		HOLL	10	04	1418	N19	E31	10	7.0		A	AXX	10	2	1	2
10143B	31457	MWIL	10	04	1515	N20	E30	10	6.9	4	(AF)					
10143B		HOLL	10	05	1425	N17	E17	10	6.9		B	BXO	10	3	3	4
10143B	31457	MWIL	10	05	1515	N17	E17	10	6.9	4	(AF)					
10143B	31462	MWIL	10	06	1445	N17	E10	10	7.4	3	AP					
10143B	31457	MWIL	10	06	1445	N18	E03	10	6.8	2	AP					
10143B		HOLL	10	09	1448	N21	W34	10	7.0		A	AXX	10	1	1	4
10141		RAMY	10	05	1215	S06	E27	10	7.5		B	BXO	20	2	3	3
10141		HOLL	10	05	1425	S07	E24	10	7.4		B	CAO	20	2	3	4
10141	31460	MWIL	10	05	1515	S08	E23	10	7.3	4	(B)					
10141		LEAR	10	06	0205	S08	E16	10	7.3		B	CAO	40	3	3	2
10141		TACH	10	06	0725	S08	E13	10	7.3			CAO	45	4	3	4
10141		RAMY	10	06	1115	S07	E12	10	7.4		B	DSO	20	9	4	3
10141	31460	MWIL	10	06	1445	S08	E09	10	7.3	4	(B)					
10141		SVTO	10	06	1510	S07	E09	10	7.3		B	DSO	50	8	5	2
10141		HOLL	10	06	1641	S07	E08	10	7.3		B	DAO	50	8	5	2
10141		VORO	10	06	2223	S07	E05	10	7.3			DRI	53	7	4	3
10141		LEAR	10	07	0028	S08	E04	10	7.3		B	DAO	70	10	5	4
10141		TACH	10	07	0612	S07	E01	10	7.3			BRI	11	5	4	2
10141		SVTO	10	07	1051	S08	W02	10	7.3		B	CRO	40	6	7	2
10141		RAMY	10	07	1112	S08	W02	10	7.3		B	DSO	20	8	6	3
10141	31460	MWIL	10	07	1500	S08	W04	10	7.3	5	(B)					
10141		LEAR	10	08	0020	S08	W10	10	7.3		B	DAO	80	16	7	2
10141		TACH	10	08	0525	S07	W12	10	7.3			BRI	24	7	5	3
10141		SVTO	10	08	0551	S08	W14	10	7.2		A	AXX	20	4	2	3
10141		RAMY	10	08	1113	S08	W18	10	7.1		B	DSO	30	5	3	4
10141	31460	MWIL	10	08	1515	S07	W19	10	7.2	4	(B)					
10141		HOLL	10	08	2135	S07	W24	10	7.1		B	BXO	20	8	3	3
10141		LEAR	10	09	0839	S07	W25	10	7.5		B	DAO	20	4	3	3
10141		RAMY	10	09	1009	S07	W32	10	7.0		B	BXO		3	4	3
10141	31460	MWIL	10	09	1515	S06	W34	10	7.1	4	(AP)					
10141		VORO	10	11	0313	S07	W52	10	7.2			BSO	31	6	3	3
10155		TACH	10	11	0652	S08	W44	10	8.0			AR	4	2	1	4
10155		SVTO	10	11	0924	S11	W45	10	8.0		B	BXO	20	2	3	2
10155		RAMY	10	11	1240	S10	W49	10	7.8		B	DSO	40	2	3	2

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10155		HOLL	10	11	1457	S08	W47	10	8.1		B	CSO	20	4	3	3
10155		LEAR	10	12	0010	S06	W53	10	8.0		B	CRO	50	6	3	2
10155		SVTO	10	12	0610	S10	W56	10	8.0		B	DSO	50	3	4	3
10155		TACH	10	12	0614	S07	W55	10	8.1			BRO	3	3	3	4
10155		RAMY	10	12	1207	S10	W60	10	8.0		B	BXO	10	4	3	3
10155B		TACH	10	03	0650	N20	E62	10	8.0			HA	169	2	2	3
10155A		HOLL	10	05	1425	N29	E33	10	8.2		A	AXX	10	1	1	4
10139		VORO	10	02	0312	N11	E82	10	8.3			HRX	23	1		3
10139		SVTO	10	02	1114	N15	E80	10	8.5		A	HSX	60	1	2	3
10139		RAMY	10	02	1125	N15	E78	10	8.4		B	DSO	90	4	7	4
10139		HOLL	10	02	1441	N12	E76	10	8.3		B	DAO	160	4	4	3
10139	31455	MWIL	10	02	2100	N11	E73	10	8.4	4	(B)					
10139		VORO	10	02	2240	N12	E71	10	8.3			HRX	126	1		3
10139		LEAR	10	03	0120	N10	E69	10	8.2		B	DSO	120	3	4	3
10139		SVTO	10	03	0617	N16	E68	10	8.4		A	HSX	110	1	3	2
10139		RAMY	10	03	1205	N17	E64	10	8.4		B	CAO	220	6	5	3
10139		HOLL	10	03	1435	N12	E66	10	8.6		B	DSO	190	7	5	3
10139	31455	MWIL	10	03	1515	N11	E65	10	8.5	5	(BP)					
10139		VORO	10	03	2259	N11	E59	10	8.4			DAI	234	10	4	3
10139		LEAR	10	04	0115	N09	E58	10	8.4		BG	DSO	180	11	7	2
10139		TACH	10	04	0601	N12	E56	10	8.5			CAI	537	11	6	2
10139		SVTO	10	04	0915	N12	E54	10	8.4		B	DKO	440	11	10	3
10139		RAMY	10	04	1215	N17	E53	10	8.5		BG	DKI	430	19	10	3
10139		HOLL	10	04	1418	N15	E52	10	8.5		BGD	EKC	540	32	11	2
10139	31455	MWIL	10	04	1515	N11	E51	10	8.5	5	(D)					
10139		VORO	10	04	2317	N11	E46	10	8.4			DAI	584	29	3	3
10139		LEAR	10	05	0120	N16	E45	10	8.5		BG	DKI	320	24	10	2
10139		TACH	10	05	0448	N11	E42	10	8.3			CAI	460	23	9	3
10139		RAMY	10	05	1215	N13	E39	10	8.4		BG	EKI	650	37	11	3
10139		HOLL	10	05	1425	N12	E37	10	8.4		BG	DKC	700	50	9	4
10139	31455	MWIL	10	05	1515	N11	E36	10	8.3	6	(BG)					
10139		LEAR	10	06	0205	N11	E30	10	8.3		BG	DKI	420	32	10	2
10139		TACH	10	06	0725	N10	E28	10	8.4			DKI	865	20	6	4
10139		RAMY	10	06	1115	N11	E26	10	8.4		BG	EKI	680	32	11	3
10139	31455	MWIL	10	06	1445	N11	E23	10	8.3	6	(BG)					
10139		SVTO	10	06	1510	N12	E24	10	8.4		B	EKI	480	13	11	2
10139		HOLL	10	06	1641	N12	E22	10	8.3		BG	DKC	650	33	8	2
10139		VORO	10	06	2223	N11	E20	10	8.4			DKI	595	30	3	3
10139		LEAR	10	07	0028	N10	E19	10	8.4		BG	DKC	630	58	10	4
10139		TACH	10	07	0612	N12	E15	10	8.4			DAI	653	23	9	2
10139		SVTO	10	07	1051	N11	E13	10	8.4		B	EKI	490	14	14	2
10139		RAMY	10	07	1112	N11	E12	10	8.4		BGD	EKI	640	33	11	3
10139	31455	MWIL	10	07	1500	N11	E10	10	8.4	5	(D)					
10139		LEAR	10	08	0020	N10	E05	10	8.4		BG	EKI	580	49	11	2
10139		TACH	10	08	0525	N11	E04	10	8.5			DKI	533	23	8	3
10139		SVTO	10	08	0551	N11	E03	10	8.5		BG	EKI	550	14	13	3
10139		RAMY	10	08	1113	N10	W02	10	8.3		BGD	FKI	550	18	11	4
10139	31455	MWIL	10	08	1515	N11	W03	10	8.4	5	(D)					
10139		HOLL	10	08	2135	N11	W06	10	8.4		BGD	EKC	560	51	11	3
10139		VORO	10	09	0218	N11	W08	10	8.5			DKC	600	4	2	3
10139		TACH	10	09	0423	N11	W10	10	8.4			CHI	178	13	5	4
10139		LEAR	10	09	0839	N10	W08	10	8.7		BGD	DKC	560	44	10	3
10139		SVTO	10	09	0912	N10	W13	10	8.4		A	HKX	560	3	6	2
10139		RAMY	10	09	1009	N11	W14	10	8.4		BGD	CKO	620	19	9	3
10139		HOLL	10	09	1448	N11	W15	10	8.5		BGD	EKC	530	29	11	4
10139	31455	MWIL	10	09	1515	N10	W15	10	8.5	5	(D)					
10139		VORO	10	09	2227	N10	W19	10	8.5			DKC	530	16	2	3
10139		LEAR	10	10	0050	N11	W21	10	8.4		BGD	DKC	500	22	10	3
10139		TACH	10	10	0507	N12	W23	10	8.5			CKI	660	17	7	4
10139		RAMY	10	10	1330	N10	W29	10	8.4		BGD	DKI	520	29	9	4
10139		HOLL	10	10	1438	N11	W27	10	8.6		BGD	DKC	530	27	8	4
10139	31455	MWIL	10	10	1500	N10	W29	10	8.4	5	(BG)					
10139		LEAR	10	11	0045	N11	W33	10	8.5		BGD	DKC	450	17	7	2
10139		VORO	10	11	0313	N09	W34	10	8.6			DKI	689	24	2	3
10139		TACH	10	11	0652	N09	W37	10	8.5			HK	611	10	3	4
10139		SVTO	10	11	0924	N07	W39	10	8.5		B	DHO	640	12	8	2

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10139		RAMY	10	11	1240	N09	W42	10	8.4		BG	DKO	610	9	7	2
10139		HOLL	10	11	1457	N10	W41	10	8.5		BD	DKC	650	27	8	3
10139		VORO	10	11	2335	N09	W46	10	8.5			HKC	634	33	3	3
10139		LEAR	10	12	0010	N10	W46	10	8.5		BGD	DKI	520	16	8	2
10139		SVTO	10	12	0610	N07	W50	10	8.5		BG	DAO	570	10	8	3
10139		TACH	10	12	0614	N09	W51	10	8.4			DKI	559	11	6	4
10139		RAMY	10	12	1207	N08	W54	10	8.4		BG	DKO	780	10	8	3
10139		VORO	10	12	2307	N09	W59	10	8.5			HKC	541	14	3	3
10139		LEAR	10	13	0035	N11	W58	10	8.7		BGD	DKO	610	18	8	2
10139		SVTO	10	13	0710	N07	W65	10	8.4		BG	DKO	360	10	10	3
10139		RAMY	10	13	1400	N08	W68	10	8.5		BG	DKO	480	9	8	2
10139		VORO	10	13	2230	N09	W70	10	8.7			DKI	438	15	3	3
10139		LEAR	10	14	0010	N12	W70	10	8.7		BG	DAO	490	9	6	3
10139		SVTO	10	14	0625	N04	W77	10	8.5		BG	EAO	330	7	11	3
10139		RAMY	10	14	1145	N08	W80	10	8.5		BG	EKO	300	8	11	4
10139	31455	MWIL	10	14	1530	N10	W80	10	8.6	5	(AP)					
10139		HOLL	10	14	1700	N09	W82	10	8.5		B	DAO	240	3	5	4
10139		LEAR	10	15	0040	N11	W88	10	8.4		B	DAO	60	2	5	3
10139B	31461	MWIL	10	05	1515	S33	E34	10	8.3	4	(B)					
10139A		HOLL	10	06	1641	S16	E23	10	8.4		A	AXX	10	2	1	2
10139A		LEAR	10	07	0028	S16	E18	10	8.4		A	AXX	10	1		4
10150		HOLL	10	08	2135	S10	E07	10	9.4		A	AXX		1		3
10150		LEAR	10	09	0839	S10	E06	10	9.8		A	HSX	10	3	1	3
10150		HOLL	10	09	1448	S09	W02	10	9.5		A	AXX	10	2	2	4
10150		LEAR	10	10	0050	S09	W07	10	9.5		A	AXX	20	2	2	3
10152		TACH	10	10	0507	N20	W06	10	9.7			BXO	5	2	2	4
10152		RAMY	10	10	1330	N20	W11	10	9.7		B	DSO	10	2	3	4
10152		HOLL	10	10	1438	N21	W11	10	9.8		B	CAO	20	3	5	4
10152	31472	MWIL	10	10	1500	N20	W11	10	9.8	4	(B)					
10152		LEAR	10	11	0045	N20	W17	10	9.7		B	DRO	10	2	6	2
10152		VORO	10	11	0313	N20	W16	10	9.9			AXX	5	2		3
10142	31458	MWIL	10	04	1515	N06	E85	10	11.0	4	AP					
10142		VORO	10	04	2317	N07	E78	10	10.8			AXX	26	1		3
10142		TACH	10	05	0448	N06	E74	10	10.7			AXX	18	1	1	3
10142		RAMY	10	05	1215	N08	E71	10	10.8		A	AXX	20	1	1	3
10142		HOLL	10	05	1425	N07	E69	10	10.8		A	AXX	10	1	1	4
10142	31458	MWIL	10	05	1515	N06	E68	10	10.7	4	(AP)					
10142		LEAR	10	06	0205	N05	E61	10	10.6		A	AXX	10	1		2
10142		TACH	10	06	0725	N05	E58	10	10.6			AXX	14	1	1	4
10142		RAMY	10	06	1115	N06	E58	10	10.8		B	CSO	20	2	5	3
10142	31458	MWIL	10	06	1445	N06	E54	10	10.6	4	(AP)					
10142		SVTO	10	06	1510	N05	E55	10	10.7		A	HSX	10	1	1	2
10142		HOLL	10	06	1641	N06	E53	10	10.7		A	HSX	30	1	1	2
10142		VORO	10	06	2223	N06	E49	10	10.6			HRX	17	1		3
10142		LEAR	10	07	0028	N05	E48	10	10.6		A	HSX	40	1	1	4
10142		TACH	10	07	0612	N06	E45	10	10.6			AXX	14	1	1	2
10142		SVTO	10	07	1051	N05	E43	10	10.7		A	HSX	10	1	1	2
10142		RAMY	10	07	1112	N06	E42	10	10.6		A	HRX	10	1	1	3
10142	31458	MWIL	10	07	1500	N05	E40	10	10.6	5	(AP)					
10142		LEAR	10	08	0020	N05	E34	10	10.5		A	HSX	20	1	1	2
10142		TACH	10	08	0525	N05	E31	10	10.5			AR	19	3	2	3
10142		SVTO	10	08	0551	N05	E32	10	10.6		A	HSX	20	1	1	3
10142		RAMY	10	08	1113	N04	E28	10	10.6		B	CSO	20	2	3	4
10142	31458	MWIL	10	08	1515	N05	E27	10	10.6	5	(BP)					
10142		HOLL	10	08	2135	N04	E23	10	10.6		A	HAX	20	3	2	3
10142		VORO	10	09	0218	N05	E19	10	10.5			HRX	14	1		3
10142		TACH	10	09	0423	N04	E19	10	10.6			AXX	13	1	1	4
10142		LEAR	10	09	0839	N04	E21	10	10.9		A	HSX	10	1	1	3
10142		SVTO	10	09	0912	N05	E16	10	10.6		A	HSX	20	1	1	2
10142		RAMY	10	09	1009	N04	E14	10	10.5		A	HSX	10	1	1	3
10142		HOLL	10	09	1448	N04	E12	10	10.5		A	HAX	20	1	1	4
10142	31458	MWIL	10	09	1515	N04	E12	10	10.5	5	(AP)					
10142		LEAR	10	10	0050	N04	E06	10	10.5		A	HSX	20	1	1	3
10142		TACH	10	10	0507	N03	E05	10	10.6			AXX	5	1	1	4

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10142		RAMY	10	10	1330	N04	W01	10	10.5		A	HSX	10	1	1	4
10142		HOLL	10	10	1438	N04	W01	10	10.5		A	AXX	10	1	1	4
10142	31458	MWIL	10	10	1500	N04	W02	10	10.5	4	(AP)					
10142		LEAR	10	11	0045	N05	W05	10	10.6		B	BXO	10	4	5	2
10142		VORO	10	11	0313	N07	W03	10	10.9			ARX	9	3	1	3
10142		TACH	10	11	0652	N06	W06	10	10.8			BXO	3	2	2	4
10142		HOLL	10	11	1457	N05	W12	10	10.7		A	AXX		1		3
10140		HOLL	10	04	1418	S07	E81	10	10.7		A	HAX	90	1	2	2
10140	31459	MWIL	10	04	1515	S08	E86	10	11.1	4	AP					
10140		VORO	10	04	2317	S08	E79	10	10.9			HRX	129	1		3
10140		LEAR	10	05	0120	S13	E76	10	10.8		A	HKX	60	1	4	2
10140		TACH	10	05	0448	S08	E75	10	10.8			HSX	253	1	3	3
10140		RAMY	10	05	1215	S05	E68	10	10.6		B	CAO	230	2	5	3
10140		HOLL	10	05	1425	S06	E66	10	10.5		B	CKO	320	7	12	4
10140	31459	MWIL	10	05	1515	S08	E67	10	10.6	5	(AP)					
10140		LEAR	10	06	0205	S09	E60	10	10.6		B	DAO	160	3	8	2
10140		TACH	10	06	0725	S08	E58	10	10.6			CSO	235	4	10	4
10140		RAMY	10	06	1115	S07	E56	10	10.7		B	CSO	150	8	13	3
10140	31463	MWIL	10	06	1445	S08	E50	10	10.4	4	(B)					
10140	31459	MWIL	10	06	1445	S08	E57	10	10.9	5	(AP)					
10140		SVTO	10	06	1510	S07	E57	10	10.9		A	HSX	110	1	2	2
10140		HOLL	10	06	1641	S07	E53	10	10.7		B	CKO	190	7	12	2
10140		VORO	10	06	2223	S07	E52	10	10.8			HHX	242	1		3
10140		LEAR	10	07	0028	S09	E48	10	10.6		B	DSO	230	6	10	4
10140		TACH	10	07	0612	S08	E44	10	10.5			CSI	201	4	9	2
10140		SVTO	10	07	1051	S07	E43	10	10.7		B	CSO	140	4	12	2
10140		RAMY	10	07	1112	S08	E44	10	10.8		B	ESO	200	6	12	3
10140	31463	MWIL	10	07	1500	S08	E37	10	10.4	4	(B)					
10140	31459	MWIL	10	07	1500	S08	E44	10	10.9	5	(AP)					
10140		LEAR	10	08	0020	S09	E34	10	10.6		B	DAO	190	6	10	2
10140		TACH	10	08	0525	S07	E31	10	10.5			CSO	194	2	9	3
10140		SVTO	10	08	0551	S08	E37	10	11.0		A	HSX	140	1	4	3
10140		RAMY	10	08	1113	S08	E28	10	10.6		B	ESO	190	7	11	4
10140	31463	MWIL	10	08	1515	S08	E25	10	10.5	4	(B)					
10140	31459	MWIL	10	08	1515	S08	E31	10	10.9	5	(AP)					
10140		HOLL	10	08	2135	S08	E23	10	10.6		B	CHO	80	12	11	3
10140		VORO	10	09	0218	S07	E25	10	11.0			HHX	203	1		3
10140		LEAR	10	09	0839	S10	E24	10	11.2		B	CSO	170	4	6	3
10140		SVTO	10	09	0912	S08	E22	10	11.0		A	HSX	200	1	2	2
10140		RAMY	10	09	1009	S09	E19	10	10.8		B	CAO	220	5	7	3
10140		HOLL	10	09	1448	S09	E15	10	10.7		B	CHO	180	17	11	4
10140	31459	MWIL	10	09	1515	S08	E19	10	11.0	5	(AP)					
10140	31463	MWIL	10	09	1515	S10	E12	10	10.5	4	(BG)					
10140		VORO	10	09	2227	S07	E14	10	11.0			HHX	180	1		3
10140		LEAR	10	10	0050	S10	E13	10	11.0		B	CAO	160	10	8	3
10140		TACH	10	10	0507	S08	E04	10	10.5			BXI	3	3	5	4
10140		RAMY	10	10	1330	S11	E05	10	10.9		B	CHO	210	12	10	4
10140		HOLL	10	10	1438	S08	E05	10	11.0		B	CHO	220	26	10	4
10140	31459	MWIL	10	10	1500	S09	E06	10	11.1	5	(BG)					
10140		LEAR	10	11	0045	S08	E02	10	11.2		B	CSO	170	5	5	2
10140		VORO	10	11	0313	S07	W02	10	11.0			HAX	192	1		3
10140		SVTO	10	11	0924	S08	W03	10	11.2		B	CSO	190	2	5	2
10140		RAMY	10	11	1240	S08	W08	10	10.9		B	CSO	150	2	3	2
10140		HOLL	10	11	1457	S08	W07	10	11.1		B	CKO	200	6	5	3
10140		VORO	10	11	2335	S07	W14	10	10.9			CAI	188	4	3	3
10140		LEAR	10	12	0010	S08	W14	10	10.9		A	HSX	160	3	3	2
10140		SVTO	10	12	0610	S09	W16	10	11.0		A	HSX	200	1	3	3
10140		RAMY	10	12	1207	S08	W19	10	11.1		B	CSO	200	3	5	3
10140		VORO	10	12	2307	S08	W25	10	11.1			HAX	162	1		3
10140		LEAR	10	13	0035	S07	W27	10	11.0		A	HSX	170	1	2	2
10140		SVTO	10	13	0710	S09	W31	10	11.0		A	HSX	230	1	4	3
10140		RAMY	10	13	1400	S09	W34	10	11.0		A	HSX	170	1	2	2
10140		VORO	10	13	2230	S07	W39	10	11.0			HHX	177	1		3
10140		LEAR	10	14	0010	S07	W40	10	11.0		A	HSX	170	1	2	3
10140		SVTO	10	14	0625	S10	W43	10	11.0		A	HSX	150	1	3	3
10140		RAMY	10	14	1145	S09	W47	10	11.0		B	CSO	220	2	3	4
10140	31459	MWIL	10	14	1530	S08	W47	10	11.1	5	(AP)					
10140		HOLL	10	14	1700	S08	W49	10	11.0		B	CAO	150	6	5	4

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10140		LEAR	10	15	0040	S07	W54	10	11.0		A	HSX	140	1	2	3
10140		VORO	10	15	0606	S07	W56	10	11.0			HKX	186	3		3
10140		SVTO	10	15	0638	S12	W57	10	11.0		A	HSX	110	1	2	2
10140		RAMY	10	15	1205	S10	W61	10	10.9		A	HSX	140	1	2	3
10140	31459	MWIL	10	15	1515	S08	W61	10	11.1	5	(AP)					
10140		HOLL	10	15	1633	S08	W62	10	11.0		A	HSX	130	2	2	2
10140		VORO	10	15	2248	S07	W64	10	11.1			HAX	133	1		3
10140		LEAR	10	16	0010	S07	W66	10	11.1		A	HAX	140	2	2	4
10140		TACH	10	16	0417	S07	W68	10	11.1			HSX	70	1	1	4
10140		SVTO	10	16	0605	S13	W71	10	10.9		A	HSX	120	1	3	2
10140		RAMY	10	16	1220	S09	W73	10	11.0		A	HSX	180	2	2	3
10140		HOLL	10	16	1500	S08	W73	10	11.1		A	HAX	120	2	2	3
10140	31459	MWIL	10	16	1500	S08	W74	10	11.1	5	(AP)					
10140		VORO	10	16	2258	S08	W78	10	11.1			HRX	43	1		3
10140		LEAR	10	17	0015	S07	W82	10	10.9		A	HAX	60	1	2	3
10140		SVTO	10	17	0815	S12	W89	10	10.6		A	HSX	10	1	1	3
10144		TACH	10	07	0612	N11	E53	10	11.2			AXX	4	1	1	2
10144		RAMY	10	07	1112	N12	E51	10	11.3		B	CRO	20	8	4	3
10144	31465	MWIL	10	07	1500	N12	E48	10	11.2	5	(BP)					
10144		LEAR	10	08	0020	N11	E43	10	11.2		B	DAO	70	11	6	2
10144		TACH	10	08	0525	N11	E40	10	11.2			CSI	73	7	6	3
10144		SVTO	10	08	0551	N12	E39	10	11.2		B	DSO	60	5	5	3
10144		RAMY	10	08	1113	N12	E37	10	11.2		B	DAO	100	7	6	4
10144	31465	MWIL	10	08	1515	N12	E35	10	11.3	5	(BP)					
10144		HOLL	10	08	2135	N12	E32	10	11.3		B	DAO	130	14	7	3
10144		VORO	10	09	0218	N13	E27	10	11.1			CAI	101	8	5	3
10144		TACH	10	09	0423	N12	E28	10	11.3			CAI	62	6	5	4
10144		LEAR	10	09	0839	N11	E29	10	11.5		B	DAO	90	11	5	3
10144		SVTO	10	09	0912	N13	E23	10	11.1		B	DAO	70	4	7	2
10144		RAMY	10	09	1009	N12	E23	10	11.1		B	DSO	140	11	7	3
10144		HOLL	10	09	1448	N12	E21	10	11.2		B	DAO	110	15	7	4
10144	31465	MWIL	10	09	1515	N12	E21	10	11.2	5	(B)					
10144		VORO	10	09	2227	N12	E16	10	11.1			DAI	163	19	6	3
10144		LEAR	10	10	0050	N12	E17	10	11.3		B	DAO	110	10	7	3
10144		TACH	10	10	0507	N11	E13	10	11.2			CAI	79	13	2	4
10144		RAMY	10	10	1330	N12	E08	10	11.2		B	DAI	170	31	7	4
10144		HOLL	10	10	1438	N12	E08	10	11.2		B	DAI	100	20	7	4
10144	31465	MWIL	10	10	1500	N13	E07	10	11.1	5	(B)					
10144		LEAR	10	11	0045	N12	E03	10	11.2		B	DSO	130	13	8	2
10144		VORO	10	11	0313	N12	E01	10	11.2			DAI	214	17	6	3
10144		TACH	10	11	0652	N12	W03	10	11.1			DAO	166	4	5	4
10144		SVTO	10	11	0924	N11	W03	10	11.2		B	DSO	120	3	7	2
10144		RAMY	10	11	1240	N12	W05	10	11.1		B	DSO	100	8	8	2
10144		HOLL	10	11	1457	N12	W04	10	11.3		B	DAI	110	19	7	3
10144		VORO	10	11	2335	N12	W10	10	11.2			DAI	140	13	6	3
10144		LEAR	10	12	0010	N12	W10	10	11.2		B	DSO	100	7	7	2
10144		SVTO	10	12	0610	N11	W15	10	11.1		B	DAO	130	13	8	3
10144		TACH	10	12	0614	N12	W14	10	11.2			CAI	83	11	6	4
10144		RAMY	10	12	1207	N12	W18	10	11.1		B	DSO	100	7	8	3
10144		LEAR	10	13	0035	N12	W23	10	11.3		B	DSO	80	3	7	2
10144		SVTO	10	13	0710	N11	W29	10	11.1		B	CSO	90	4	8	3
10144		RAMY	10	13	1400	N11	W33	10	11.1		B	DSO	100	4	8	2
10144		VORO	10	13	2230	N12	W36	10	11.2			CHI	121	2	6	3
10144		LEAR	10	14	0010	N13	W40	10	11.0		A	HSX	100	1	2	3
10144		SVTO	10	14	0625	N09	W45	10	10.9		A	HSX	80	1	2	3
10144		RAMY	10	14	1145	N10	W48	10	10.9		A	HSX	110	1	2	4
10144	31465	MWIL	10	14	1530	N13	W47	10	11.1	5	(BP)					
10144		HOLL	10	14	1700	N11	W48	10	11.1		B	CSO	90	4	8	4
10144		LEAR	10	15	0040	N13	W53	10	11.0		B	CSO	70	2	6	3
10144		VORO	10	15	0606	N13	W54	10	11.2			CAI	65	8	6	3
10144		SVTO	10	15	0638	N07	W58	10	10.9		A	HSX	30	1	1	2
10144		RAMY	10	15	1205	N11	W60	10	11.0		B	CAO	70	2	6	3
10144	31465	MWIL	10	15	1515	N12	W60	10	11.1	5	(B)					
10144		HOLL	10	15	1633	N12	W60	10	11.2		B	CSO	40	3	7	2
10144		VORO	10	15	2248	N11	W65	10	11.0			HAX	43	1		3
10144		LEAR	10	16	0010	N13	W65	10	11.1		B	CAO	50	2	7	4
10144		TACH	10	16	0417	N12	W70	10	10.9			HSX	63	1	1	4
10144		SVTO	10	16	0605	N07	W72	10	10.9		A	AXX	10	1	1	2

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)
OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10144		RAMY	10	16	1220	N11	W74	10	10.9		A	HAX	60	1	1	3
10144		HOLL	10	16	1500	N11	W73	10	11.1		A	HSX	90	1	2	3
10144	31465	MWIL	10	16	1500	N11	W75	10	11.0	4	(AP)					
10144		VORO	10	16	2258	N11	W78	10	11.1			HRX	49	5		3
10144		LEAR	10	17	0015	N12	W80	10	11.0		A	HSX	30	1	2	3
10144A		TACH	10	10	0507	S22	E20	10	11.7			AXX	3	1	1	4
10144A		RAMY	10	10	1330	S22	E13	10	11.6		A	AXX		3	1	4
10146	31466	MWIL	10	08	1515	S10	E40	10	11.6	4	(AP)					
10146		HOLL	10	08	2135	S11	E38	10	11.7		B	BXO	30	9	4	3
10146		VORO	10	09	0218	S09	E35	10	11.7			CRI	32	7	2	3
10146		TACH	10	09	0423	S09	E30	10	11.4			DAI	192	6	12	4
10146		LEAR	10	09	0839	S10	E37	10	12.1		B	DAO	30	6	3	3
10146		SVTO	10	09	0912	S10	E32	10	11.8		B	DSO	20	2	3	2
10146		RAMY	10	09	1009	S11	E31	10	11.7		B	CAO	50	4	4	3
10146		HOLL	10	09	1448	S10	E28	10	11.7		B	CAO	70	11	6	4
10146	31466	MWIL	10	09	1515	S10	E28	10	11.7	4	(B)					
10146		VORO	10	09	2227	S09	E24	10	11.7			CRI	33	6	3	3
10146		LEAR	10	10	0050	S11	E23	10	11.8		B	DAO	50	4	5	3
10146		TACH	10	10	0507	S09	E18	10	11.6			CSI	174	7	3	4
10146		RAMY	10	10	1330	S10	E16	10	11.8		B	DAO	20	5	5	4
10146		HOLL	10	10	1438	S10	E15	10	11.7		B	DAO	40	9	6	4
10146	31466	MWIL	10	10	1500	S09	E12	10	11.5	4	(B)					
10146		LEAR	10	11	0045	S09	E08	10	11.6		A	HSX	20	1	1	2
10146		VORO	10	11	0313	S08	E04	10	11.4			BRO	11	3	4	3
10146		TACH	10	11	0652	S11	E04	10	11.6			CHI	230	4	8	4
10146		SVTO	10	11	0924	S09	E03	10	11.6		A	HRX	10	1	1	2
10146		RAMY	10	11	1240	S09	E01	10	11.6		A	HSX	20	1	1	2
10146		HOLL	10	11	1457	S09	W01	10	11.5		A	HSX	20	1	1	3
10146		VORO	10	11	2335	S09	W06	10	11.5			HAX	18	2		3
10146		LEAR	10	12	0010	S09	W06	10	11.5		A	AXX	10	2	1	2
10146		SVTO	10	12	0610	S09	W08	10	11.6		B	BXO	20	2	2	3
10146		TACH	10	12	0614	S08	W12	10	11.3			CSO	189	2	8	4
10146		RAMY	10	12	1207	S09	W12	10	11.6		A	AXX		1		3
10156		RAMY	10	10	1330	N10	E30	10	12.8		A	AXX		3	2	4
10156		HOLL	10	10	1438	N08	E29	10	12.8		B	BXO	10	3	4	4
10156	31473	MWIL	10	10	1500	N10	E29	10	12.8	3	(B)					
10156		LEAR	10	11	0045	N09	E23	10	12.7		B	BXO	10	2	3	2
10156		TACH	10	11	0652	N08	E21	10	12.9			BRO	14	3	4	4
10156		SVTO	10	11	0924	N10	E17	10	12.7		A	AXX	10	1	1	2
10156		RAMY	10	11	1240	N10	E15	10	12.6		A	HSX	10	1	1	2
10156		HOLL	10	11	1457	N09	E15	10	12.7		A	HSX	20	1	2	3
10156		LEAR	10	12	0010	N09	E08	10	12.6		A	AXX		1		2
10156		SVTO	10	12	0610	N09	E04	10	12.5		A	HRX	10	1	1	3
10156		TACH	10	12	0614	N09	E05	10	12.6			AXX	1	1	1	4
10156		RAMY	10	12	1207	N09	E02	10	12.6		A	AXX	10	1		3
10156		LEAR	10	13	0035	N09	W05	10	12.6		A	AXX		1		2
10147		VORO	10	09	0218	S02	E51	10	12.9			AXX	20	5		3
10147		RAMY	10	09	1009	S03	E47	10	12.9		B	BXO	10	3	3	3
10147		HOLL	10	09	1448	S03	E43	10	12.8		B	BXO	10	2	3	4
10147	31469	MWIL	10	09	1515	S04	E45	10	13.0	3	(B)					
10147		LEAR	10	10	0050	S04	E39	10	12.9		B	BXO	20	2	3	3
10147		TACH	10	10	0507	S03	E38	10	13.0			AXX	3	1	1	4
10151	31467	MWIL	10	08	1515	S15	E69	10	13.8	4	(AP)					
10151		HOLL	10	08	2135	S15	E64	10	13.7		A	AXX	10	2	1	3
10151		LEAR	10	09	0839	S15	E61	10	14.0		A	AXX	10	1		3
10151		HOLL	10	09	1448	S13	E52	10	13.5		A	AXX	10	1	1	4
10151	31483	MWIL	10	17	1515	S14	W54	10	13.5	4	(AP)					
10151		LEAR	10	18	0015	S13	W58	10	13.6		A	AXX	10	1	1	3
10151A		LEAR	10	10	0050	S04	E59	10	14.4		A	HAX	20	1	1	3
10151A		TACH	10	10	0507	S04	E59	10	14.6			AXX	2	1	1	4
10151A		HOLL	10	10	1438	S05	E52	10	14.5		A	AXX	10	1	1	4
10151A	31469A	MWIL	10	10	1500	S04	E51	10	14.4	3	(AP)					
10145		TACH	10	08	0525	N12	E83	10	14.5			HSX	113	1	1	3

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo	Day	(UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10145		SVTO	10	08	0551	N12	E85	10	14.6		A	HSX	10	1	1	3
10145		RAMY	10	08	1113	N12	E80	10	14.5		A	HSX	60	1	2	4
10145	31468	MWIL	10	08	1515	N12	E79	10	14.6	4	(AP)					
10145		HOLL	10	08	2135	N12	E74	10	14.5		A	HSX	90	1	2	3
10145		VORO	10	09	0218	N13	E73	10	14.6			HAX	80	1		3
10145		TACH	10	09	0423	N12	E73	10	14.7			HSX	83	1	2	4
10145		LEAR	10	09	0839	N11	E74	10	14.9		A	HAX	90	1	2	3
10145		SVTO	10	09	0912	N13	E70	10	14.7		A	HSX	100	1	2	2
10145		RAMY	10	09	1009	N11	E67	10	14.5		A	HSX	80	1	4	3
10145		HOLL	10	09	1448	N11	E66	10	14.6		A	HAX	100	1	1	4
10145	31468	MWIL	10	09	1515	N12	E66	10	14.6	5	(AP)					
10145		VORO	10	09	2227	N12	E61	10	14.5			HAX	82	1		3
10145		LEAR	10	10	0050	N11	E60	10	14.5		A	HAX	60	1	2	3
10145		TACH	10	10	0507	N11	E59	10	14.6			HSX	96	1	1	4
10145		RAMY	10	10	1330	N14	E56	10	14.8		A	CSO	80	3	6	4
10145		HOLL	10	10	1438	N11	E52	10	14.5		A	HSX	60	1	2	4
10145	31468	MWIL	10	10	1500	N12	E52	10	14.5	5	(AP)					
10145	31474	MWIL	10	10	1500	N15	E50	10	14.4	3	B					
10145		LEAR	10	11	0045	N11	E48	10	14.6		A	HSX	60	1	2	2
10145		VORO	10	11	0313	N12	E45	10	14.5			HAX	78	1		3
10145		TACH	10	11	0652	N12	E45	10	14.7			HSX	85	1	2	4
10145		SVTO	10	11	0924	N13	E42	10	14.6		A	HSX	50	1	2	2
10145		RAMY	10	11	1240	N12	E40	10	14.5		A	HSX	50	1	1	2
10145		HOLL	10	11	1457	N14	E41	10	14.7		B	CAO	100	3	6	3
10145		VORO	10	11	2335	N12	E34	10	14.5			HAX	96	1		3
10145		LEAR	10	12	0010	N11	E34	10	14.6		A	HSX	70	1	2	2
10145		SVTO	10	12	0610	N13	E31	10	14.6		A	HSX	90	1	2	3
10145		TACH	10	12	0614	N15	E32	10	14.7			CSO	71	2	4	4
10145		RAMY	10	12	1207	N14	E27	10	14.5		B	DSO	90	5	6	3
10145		VORO	10	12	2307	N12	E21	10	14.5			HAX	77	1		3
10145		VORO	10	12	2307	N15	E17	10	14.2			ARX	11	1		3
10145		VORO	10	12	2307	N17	E24	10	14.8			AXX	9	2	1	3
10145		LEAR	10	13	0035	N11	E22	10	14.7		A	HSX	40	1	1	2
10145		SVTO	10	13	0710	N13	E17	10	14.6		A	HSX	60	1	3	3
10145		RAMY	10	13	1400	N13	E11	10	14.4		B	DAO	120	3	6	2
10145		VORO	10	13	2230	N12	E08	10	14.5			HHX	100	1		3
10145		VORO	10	13	2230	N15	E04	10	14.2			AXX	6	2		3
10145		LEAR	10	14	0010	N12	E07	10	14.5		A	HSX	80	1	2	3
10145		SVTO	10	14	0625	N12	E04	10	14.6		A	HSX	100	1	2	3
10145		RAMY	10	14	1145	N13	E00	10	14.5		B	CSO	90	5	8	4
10145	31468	MWIL	10	14	1530	N11	W00	10	14.6	5	(BP)					
10145	31474	MWIL	10	14	1530	N14	W04	10	14.3	4	(B)					
10145		HOLL	10	14	1700	N11	W02	10	14.5		A	HAX	100	6	3	4
10145		LEAR	10	15	0040	N12	W06	10	14.6		B	CSO	100	10	3	3
10145		VORO	10	15	0606	N12	W08	10	14.6			HAX	85	5		3
10145		SVTO	10	15	0638	N11	W09	10	14.6		A	HSX	40	1	2	2
10145		RAMY	10	15	1205	N11	W12	10	14.6		B	CSO	60	6	3	3
10145	31468	MWIL	10	15	1515	N11	W13	10	14.6	5	(BP)					
10145		HOLL	10	15	1633	N11	W13	10	14.7		B	CSO	70	6	5	2
10145		VORO	10	15	2248	N11	W18	10	14.6			HAX	56	1		3
10145		LEAR	10	16	0010	N15	W18	10	14.6		B	CSO	80	8	8	4
10145		TACH	10	16	0417	N12	W19	10	14.7			HA	162	3	3	4
10145		SVTO	10	16	0605	N09	W23	10	14.5		A	HSX	40	1	2	2
10145		RAMY	10	16	1220	N12	W25	10	14.6		A	HSX	90	2	2	3
10145		HOLL	10	16	1500	N11	W27	10	14.6		A	HAX	110	2	2	3
10145	31468	MWIL	10	16	1500	N12	W27	10	14.6	5	(BP)					
10145		VORO	10	16	2258	N11	W31	10	14.6			HSX	91	8		3
10145		LEAR	10	17	0015	N12	W32	10	14.6		B	CSO	90	6	5	3
10145		SVTO	10	17	0815	N08	W38	10	14.5		A	HSX	70	1	2	3
10145		RAMY	10	17	1112	N11	W39	10	14.5		A	HSX	50	1	2	3
10145	31468	MWIL	10	17	1515	N12	W40	10	14.6	5	(AP)					
10145		LEAR	10	18	0015	N13	W46	10	14.5		B	CSO	100	4	4	3
10145		TACH	10	18	0632	N11	W49	10	14.6			HA	84	3	2	3
10145		SVTO	10	18	0804	N07	W51	10	14.5		A	HSX	60	1	2	2
10145		RAMY	10	18	1205	N11	W53	10	14.5		A	HSX	60	1	2	3
10145	31468	MWIL	10	18	1530	N12	W54	10	14.6	5	(BP)					
10145		HOLL	10	18	1810	N12	W57	10	14.5		A	HAX	70	1	1	4
10145		VORO	10	18	2248	N11	W57	10	14.7			HAX	84	1		3
10145		LEAR	10	19	0015	N12	W59	10	14.6		A	HSX	60	1	2	4

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10145		TACH	10	19	0551	N10	W62	10	14.6			HSX	104	1	1	2
10145		SVTO	10	19	0814	N11	W65	10	14.4		A	HSX	40	1	1	3
10145		RAMY	10	19	1204	N11	W67	10	14.5		A	HSX	80	1	2	3
10145		HOLL	10	19	1510	N12	W68	10	14.5		A	HAX	90	1	2	3
10145	31468	MWIL	10	19	1615	N11	W67	10	14.6	5	(AP)					
10145		VORO	10	19	2253	N11	W70	10	14.7			HRX	65	1		3
10145		LEAR	10	20	0020	N12	W72	10	14.6		A	HSX	60	1	1	5
10145		TACH	10	20	0533	N12	W77	10	14.4			HSX	64	1	2	4
10145		SVTO	10	20	0636	N10	W74	10	14.7		A	HSX	60	1	2	3
10145		RAMY	10	20	1220	N11	W80	10	14.5		A	HSX	60	1	1	3
10145	31468	MWIL	10	20	1600	N11	W80	10	14.6	4	(AP)					
10148		RAMY	10	09	1009	S21	E80	10	15.5		A	HSX	30	1	1	3
10148		HOLL	10	09	1448	S21	E73	10	15.2		A	HAX	60	1	1	4
10148	31470	MWIL	10	09	1515	S21	E74	10	15.3	4	(AP)					
10148		VORO	10	09	2227	S20	E68	10	15.1			HRX	45	1		3
10148		LEAR	10	10	0050	S22	E68	10	15.3		A	HAX	40	1	2	3
10148		TACH	10	10	0507	S21	E68	10	15.4			HSX	40	1	1	4
10148		RAMY	10	10	1330	S20	E63	10	15.4		A	HSX	80	2	2	4
10148		HOLL	10	10	1438	S21	E61	10	15.3		A	HAX	80	2	1	4
10148	31470	MWIL	10	10	1500	S21	E59	10	15.1	4	(AP)					
10148		LEAR	10	11	0045	S21	E55	10	15.2		A	HSX	40	1	2	2
10148		VORO	10	11	0313	S20	E54	10	15.3			HAX	52	3		3
10148		TACH	10	11	0652	S20	E53	10	15.3			HSX	53	1	1	4
10148		SVTO	10	11	0924	S19	E52	10	15.3		A	HSX	20	1	2	2
10148		RAMY	10	11	1240	S20	E49	10	15.3		A	HSX	30	1	1	2
10148		HOLL	10	11	1457	S20	E47	10	15.2		A	HAX	60	1	2	3
10148		VORO	10	11	2335	S20	E42	10	15.2			HAX	85	3		3
10148		LEAR	10	12	0010	S21	E42	10	15.2		A	HSX	60	1	2	2
10148		SVTO	10	12	0610	S19	E41	10	15.4		A	HSX	80	1	2	3
10148		TACH	10	12	0614	S19	E39	10	15.2			HSX	51	1	1	4
10148		RAMY	10	12	1207	S20	E37	10	15.3		B	CSO	50	2	3	3
10148		VORO	10	12	2307	S20	E29	10	15.2			HAX	60	2		3
10148		LEAR	10	13	0035	S21	E28	10	15.2		A	HSX	40	2	1	2
10148		SVTO	10	13	0710	S19	E27	10	15.3		B	CSO	20	2	1	3
10148		RAMY	10	13	1400	S20	E22	10	15.3		A	HSX	40	2	2	2
10148		VORO	10	13	2230	S19	E17	10	15.2			HRX	35	3		3
10148		LEAR	10	14	0010	S20	E16	10	15.2		A	HSX	20	2	1	3
10148		SVTO	10	14	0625	S19	E14	10	15.3		BG	KX	20	1	1	3
10148		RAMY	10	14	1145	S20	E11	10	15.3		A	HSX	10	1	1	4
10148	31470	MWIL	10	14	1530	S20	E08	10	15.2	5	(BP)					
10148		HOLL	10	14	1700	S20	E08	10	15.3		A	HSX	40	1	2	4
10148		LEAR	10	15	0040	S20	E03	10	15.2		A	HRX	10	1	1	3
10148		VORO	10	15	0606	S19	E01	10	15.3			HRX	19	1		3
10148		SVTO	10	15	0638	S21	E03	10	15.5		A	HRX	20	1	1	2
10148		RAMY	10	15	1205	S20	W02	10	15.3		A	HSX	20	1	1	3
10148	31470	MWIL	10	15	1515	S20	W03	10	15.4	5	(BP)					
10148		HOLL	10	15	1633	S20	W05	10	15.3		A	HSX	20	1	1	2
10148		VORO	10	15	2248	S19	W08	10	15.3			HRX	15	1		3
10148		LEAR	10	16	0010	S20	W10	10	15.2		A	HSX	20	1	1	4
10148		TACH	10	16	0417	S19	W11	10	15.3			AXX	23	1	1	4
10148		SVTO	10	16	0605	S21	W11	10	15.4		A	AXX		1		2
10148		RAMY	10	16	1220	S20	W17	10	15.2		A	HAX	30	1	1	3
10148		HOLL	10	16	1500	S19	W15	10	15.5		B	CSO	30	7	4	3
10148	31470	MWIL	10	16	1500	S20	W16	10	15.4	5	(AP)					
10148		VORO	10	16	2258	S19	W21	10	15.3			HRX	13	5		3
10148		LEAR	10	17	0015	S20	W22	10	15.3		A	HSX	20	1	1	3
10148		SVTO	10	17	0815	S22	W25	10	15.4		A	HRX	20	1	1	3
10148		RAMY	10	17	1112	S20	W28	10	15.3		A	HSX	10	1	1	3
10148	31470	MWIL	10	17	1515	S20	W30	10	15.3	4	(AP)					
10148		LEAR	10	18	0015	S19	W35	10	15.3		A	HRX	10	1	1	3
10148		TACH	10	18	0632	S20	W36	10	15.5			AXX	7	1	1	3
10148		SVTO	10	18	0804	S23	W37	10	15.5		A	AXX		1		2
10148		RAMY	10	18	1205	S21	W42	10	15.3		A	HSX	10	1	1	3
10148	31470	MWIL	10	18	1530	S20	W43	10	15.3	5	(BP)					
10148		HOLL	10	18	1810	S20	W43	10	15.5		A	AXX	10	1	1	4
10148		VORO	10	18	2248	S20	W46	10	15.4			HRX	13	2		3
10148		LEAR	10	19	0015	S20	W48	10	15.3		A	HRX	20	1	1	4
10148		TACH	10	19	0551	S21	W50	10	15.4			AXX	9	1	1	2

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10148		SVTO	10	19	0814	S22	W54	10	15.2		A	AXX		1		3
10148		RAMY	10	19	1204	S22	W55	10	15.3		A	HSX	20	1	1	3
10148		HOLL	10	19	1510	S20	W55	10	15.4		A	AXX	10	1	1	3
10148	31470	MWIL	10	19	1615	S21	W57	10	15.3	4	(AP)					
10149		HOLL	10	08	2135	N16	E82	10	15.1		A	HSX	120	1	2	3
10149		VORO	10	09	0218	N17	E81	10	15.2			HRX	122	1		3
10149		TACH	10	09	0423	N16	E84	10	15.5			HSX	378	1	4	4
10149		LEAR	10	09	0839	N16	E81	10	15.5		A	HSX	140	1	2	3
10149		SVTO	10	09	0912	N17	E79	10	15.4		A	HSX	120	1	2	2
10149		RAMY	10	09	1009	N16	E79	10	15.4		A	HAX	80	2	4	3
10149		HOLL	10	09	1448	N17	E77	10	15.5		B	CAO	190	5	8	4
10149	31471	MWIL	10	09	1515	N16	E75	10	15.3	5	(BP)					
10149		VORO	10	09	2227	N17	E70	10	15.2			HAX	142	3		3
10149		LEAR	10	10	0050	N16	E74	10	15.6		B	DAO	140	4	9	3
10149		TACH	10	10	0507	N16	E67	10	15.3			HA	200	4	3	4
10149		RAMY	10	10	1330	N16	E66	10	15.6		B	DAO	190	9	7	4
10149		HOLL	10	10	1438	N16	E65	10	15.5		B	DAO	170	8	8	4
10149	31471	MWIL	10	10	1500	N16	E63	10	15.4	5	(B)					
10149		LEAR	10	11	0045	N15	E60	10	15.6		B	CSO	140	7	9	2
10149		VORO	10	11	0313	N16	E58	10	15.5			CAI	247	11	6	3
10149		TACH	10	11	0652	N15	E54	10	15.4			CAI	145	6	11	4
10149		SVTO	10	11	0924	N16	E55	10	15.6		B	DSI	240	13	9	2
10149		RAMY	10	11	1240	N15	E53	10	15.5		B	DSO	240	5	7	2
10149		HOLL	10	11	1457	N15	E52	10	15.5		B	DAI	240	19	8	3
10149		VORO	10	11	2335	N13	E47	10	15.5			DAI	60	10	6	3
10149		VORO	10	11	2335	N16	E46	10	15.5			CAI	196	9	4	3
10149		LEAR	10	12	0010	N14	E45	10	15.4		B	DAI	360	15	10	2
10149		SVTO	10	12	0610	N17	E43	10	15.5		B	DAO	390	9	8	3
10149		TACH	10	12	0614	N15	E49	10	16.0			EAI	430	11	16	4
10149		RAMY	10	12	1207	N15	E40	10	15.5		B	DAI	440	14	10	3
10149		VORO	10	12	2307	N12	E33	10	15.4			DAI	122	13	6	3
10149		VORO	10	12	2307	N14	E34	10	15.5			DAI	282	14	6	3
10149		LEAR	10	13	0035	N14	E33	10	15.5		B	DAI	380	25	10	2
10149		SVTO	10	13	0710	N17	E29	10	15.5		B	ESO	390	15	13	3
10149		RAMY	10	13	1400	N17	E25	10	15.5		B	DHI	470	37	10	2
10149		VORO	10	13	2230	N13	E19	10	15.4			DAI	162	14	7	3
10149		VORO	10	13	2230	N15	E22	10	15.6			DHI	217	14	6	3
10149		LEAR	10	14	0010	N13	E19	10	15.4		B	DSO	430	21	9	3
10149		SVTO	10	14	0625	N15	E16	10	15.5		B	ESO	400	15	11	3
10149		RAMY	10	14	1145	N16	E12	10	15.4		BG	ESI	500	35	11	4
10149	31471	MWIL	10	14	1530	N14	E11	10	15.5	6	(BG)					
10149		HOLL	10	14	1700	N13	E09	10	15.4		BG	EKI	430	45	11	4
10149		LEAR	10	15	0040	N16	E06	10	15.5		BG	EAI	450	37	12	3
10149		VORO	10	15	0606	N14	E03	10	15.5			DAI	241	11	8	3
10149		VORO	10	15	0606	N16	E02	10	15.4			HAX	183	11		3
10149		SVTO	10	15	0638	N16	E02	10	15.4		B	EAO	460	16	14	2
10149		RAMY	10	15	1205	N16	W02	10	15.3		B	EAI	480	28	11	3
10149	31471	MWIL	10	15	1515	N14	W03	10	15.4	5	(BP)					
10149	31479	MWIL	10	15	1515	N19	W04	10	15.3	4	(B)					
10149		HOLL	10	15	1633	N17	W03	10	15.5		BG	EKC	400	39	12	2
10149		VORO	10	15	2248	N13	W07	10	15.4			DKI	201	11	8	3
10149		VORO	10	15	2248	N15	W08	10	15.3			HKX	189	9		3
10149		LEAR	10	16	0010	N16	W07	10	15.5		BG	EAI	550	48	12	4
10149		TACH	10	16	0417	N16	W09	10	15.5			DAI	540	20	9	4
10149		SVTO	10	16	0605	N15	W13	10	15.3		B	EAO	320	16	11	2
10149		RAMY	10	16	1220	N18	W17	10	15.2		BG	EAI	520	28	13	3
10149	31471	MWIL	10	16	1500	N14	W16	10	15.4	6	(BG)					
10149		HOLL	10	16	1500	N14	W17	10	15.3		BG	EKC	440	31	12	3
10149	31479	MWIL	10	16	1500	N19	W17	10	15.3	4	(BP)					
10149		VORO	10	16	2258	N13	W20	10	15.4			DKI	200	32	8	3
10149		VORO	10	16	2258	N15	W21	10	15.4			HKX	214	21		3
10149		LEAR	10	17	0015	N16	W21	10	15.4		BG	EAI	420	41	13	3
10149		SVTO	10	17	0815	N14	W26	10	15.4		B	ESO	390	19	15	3
10149		RAMY	10	17	1112	N16	W27	10	15.4		BG	DKI	390	26	11	3
10149	31471	MWIL	10	17	1515	N14	W29	10	15.4	5	(BP)					
10149	31479	MWIL	10	17	1515	N19	W31	10	15.3	4	(B)					
10149		LEAR	10	18	0015	N15	W35	10	15.4		B	EAI	440	27	11	3
10149		TACH	10	18	0632	N15	W38	10	15.4			DAI	344	12	9	3

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10149		SVTO	10	18	0804	N11	W41	10	15.2		B	DAO	260	10	6	2
10149		RAMY	10	18	1205	N14	W43	10	15.2		BG	DAO	450	11	10	3
10149	31471	MWIL	10	18	1530	N15	W44	10	15.3	5	(BG)					
10149	31479	MWIL	10	18	1530	N19	W42	10	15.4	4	(B)					
10149		HOLL	10	18	1810	N15	W46	10	15.3		BG	DKC	330	15	8	4
10149		VORO	10	18	2248	N12	W46	10	15.5			CAI	210	15	8	3
10149		VORO	10	18	2248	N15	W46	10	15.5			HAX	143	3		3
10149		LEAR	10	19	0015	N15	W47	10	15.4		BG	DAO	250	19	8	4
10149		TACH	10	19	0551	N13	W50	10	15.5			DAI	289	10	9	2
10149		SVTO	10	19	0814	N13	W54	10	15.3		B	ESO	230	12	11	3
10149		RAMY	10	19	1204	N13	W57	10	15.2		BG	DAO	320	11	10	3
10149		HOLL	10	19	1510	N14	W58	10	15.2		BG	DAC	380	13	9	3
10149	31471	MWIL	10	19	1615	N14	W58	10	15.3	5	(BG)					
10149		VORO	10	19	2253	N13	W60	10	15.4			CAI	240	7	8	3
10149		VORO	10	19	2253	N16	W60	10	15.4			HAX	134	10		3
10149		LEAR	10	20	0020	N15	W61	10	15.4		BG	DSO	230	12	9	5
10149		TACH	10	20	0533	N14	W66	10	15.2			DSI	315	4	4	4
10149		SVTO	10	20	0636	N14	W65	10	15.4		B	DSO	220	7	8	3
10149		RAMY	10	20	1220	N13	W69	10	15.3		B	DAO	340	4	6	3
10149		HOLL	10	20	1545	N13	W75	10	15.0		BG	EAI	210	9	13	3
10149	31471	MWIL	10	20	1600	N14	W70	10	15.4	4	(AP)					
10149		LEAR	10	21	0010	N15	W77	10	15.2		BG	DAO	150	4	12	2
10149		SVTO	10	21	0632	N14	W79	10	15.3		A	HSX	70	2	8	3
10149		TACH	10	21	0637	N13	W79	10	15.3			DAO	425	4	5	3
10149	31471	MWIL	10	21	1500	N14	W85	10	15.2	4	(AP)					
10149		RAMY	10	21	1515	N14	W84	10	15.3		B	DAO	30	2	3	3
10161		RAMY	10	15	1205	N06	E06	10	15.9		B	BXO	10	2	3	3
10161	31480	MWIL	10	15	1515	N06	E05	10	16.0	4	(B)					
10161		HOLL	10	15	1633	N07	E03	10	15.9		B	CAO	30	4	3	2
10161		LEAR	10	16	0010	N06	W01	10	15.9		B	DRO	30	5	3	4
10161		TACH	10	16	0417	N06	W03	10	15.9			AR	4	2	3	4
10161		SVTO	10	16	0605	N05	W06	10	15.8		A	AXX		1		2
10161		RAMY	10	16	1220	N06	W07	10	16.0		B	CAO	40	5	4	3
10161		HOLL	10	16	1500	N06	W09	10	15.9		B	CSO	30	4	3	3
10161	31480	MWIL	10	16	1500	N06	W09	10	15.9	4	(B)					
10161		VORO	10	16	2258	N05	W14	10	15.9			AXX	7	6		3
10161		LEAR	10	17	0015	N07	W15	10	15.9		B	CSO	20	7	4	3
10161		LEAR	10	18	0015	N08	W28	10	15.9		B	BXO	10	2	2	3
10157		HOLL	10	11	1457	N16	E66	10	16.6		A	AXX	10	1	1	3
10157		VORO	10	11	2335	N16	E60	10	16.5			ARX	15	2		3
10157		LEAR	10	12	0010	N15	E59	10	16.5		A	HRX	10	1	1	2
10157		SVTO	10	12	0610	N18	E58	10	16.7		A	HRX		1		3
10157		RAMY	10	12	1207	N17	E56	10	16.8		B	BXO	20	4	4	3
10157		RAMY	10	13	1400	N16	E38	10	16.5		A	HSX	80	3	1	2
10157		VORO	10	13	2230	N15	E33	10	16.4			AXX	4	4		3
10157		LEAR	10	14	0010	N15	E33	10	16.5		B	CRO	10	2	1	3
10157		VORO	10	15	0606	N16	E17	10	16.5			AXX	5	6		3
10157		VORO	10	16	2258	N16	W07	10	16.4			AXX	4	5		3
10157		LEAR	10	17	0015	N16	W07	10	16.5		A	HSX	10	2	1	3
10157		RAMY	10	17	1112	N16	W13	10	16.5		B	CRO		2	3	3
10157	31484	MWIL	10	17	1515	N16	W15	10	16.5	4	(B)					
10157		TACH	10	18	0632	N20	W30	10	16.0			AR	4	2	1	3
10154		VORO	10	09	2227	S12	E79	10	15.9			HRX	35	1		3
10154		TACH	10	10	0507	S14	E78	10	16.1			HSX	145	1	2	4
10154		RAMY	10	10	1330	S13	E75	10	16.2		A	HSX	30	1	2	4
10154		HOLL	10	10	1438	S12	E71	10	15.9		A	HAX	60	2	1	4
10154	31475	MWIL	10	10	1500	S13	E81	10	16.7	3	(AP)					
10154		LEAR	10	11	0045	S14	E68	10	16.2		A	HSX	20	1	2	2
10154		VORO	10	11	0313	S12	E68	10	16.2			CAI	55	5	6	3
10154		TACH	10	11	0652	S12	E67	10	16.3			BRI	35	4	4	4
10154		SVTO	10	11	0924	S12	E62	10	16.1		B	BXO	30	2	1	2
10154		RAMY	10	11	1240	S11	E61	10	16.1		B	CSO	20	2	3	2
10154		HOLL	10	11	1457	S14	E60	10	16.1		B	CSO	50	3	3	3
10154		VORO	10	11	2335	S12	E53	10	16.0			BRO	38	6	3	3
10154		LEAR	10	12	0010	S13	E53	10	16.0		B	DSO	50	3	5	2
10154		SVTO	10	12	0610	S11	E52	10	16.2		B	CSO	50	2	3	3

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10154		TACH	10	12	0614	S11	E51	10	16.1			HA	43	2	2	4
10154		RAMY	10	12	1207	S11	E53	10	16.5		B	CSO	50	3	12	3
10154		VORO	10	12	2307	S12	E41	10	16.0			BRO	24	2	1	3
10154		VORO	10	12	2307	S12	E49	10	16.6			BRO	22	4	3	3
10154		LEAR	10	13	0035	S13	E45	10	16.4		B	DSO	50	6	10	2
10154		SVTO	10	13	0710	S10	E43	10	16.5		B	ESO	60	4	11	3
10154		RAMY	10	13	1400	S12	E39	10	16.5		B	ESO	60	7	11	2
10154		VORO	10	13	2230	S11	E36	10	16.6			CAI	29	5	4	3
10154		VORO	10	13	2230	S13	E28	10	16.0			HRX	19	1		3
10154		LEAR	10	14	0010	S13	E33	10	16.5		B	DAO	50	7	10	3
10154		SVTO	10	14	0625	S10	E30	10	16.5		B	ESO	20	4	11	3
10154		RAMY	10	14	1145	S12	E27	10	16.5		B	DSO	40	6	10	4
10154	31475	MWIL	10	14	1530	S12	E26	10	16.6	5	(B)					
10154		HOLL	10	14	1700	S13	E24	10	16.5		B	EAO	40	18	11	4
10154		LEAR	10	15	0040	S13	E18	10	16.4		B	CRO	30	16	12	3
10154		VORO	10	15	0606	S11	E22	10	16.9			HRX	9	1		3
10154		VORO	10	15	0606	S13	E12	10	16.1			HRX	15	2		3
10154		SVTO	10	15	0638	S13	E19	10	16.7		B	BXO	20	5	11	2
10154		RAMY	10	15	1205	S12	E14	10	16.5		B	EAO	20	6	11	3
10154	31475	MWIL	10	15	1515	S12	E12	10	16.5	4	(B)					
10154		HOLL	10	15	1633	S12	E11	10	16.5		B	CSO	30	10	11	2
10154		VORO	10	15	2248	S11	E11	10	16.8			HRX	7	1		3
10154		VORO	10	15	2248	S13	E02	10	16.1			HRX	15	1		3
10154		LEAR	10	16	0010	S12	E06	10	16.4		B	ESO	40	17	11	4
10154		TACH	10	16	0417	S12	E04	10	16.5			BRI	13	7	10	4
10154		SVTO	10	16	0605	S13	E05	10	16.6		B	BXO	10	5	10	2
10154		RAMY	10	16	1220	S13	E00	10	16.5		B	EAO	110	8	11	3
10154	31475	MWIL	10	16	1500	S12	W01	10	16.5	4	(B)					
10154		HOLL	10	16	1500	S12	W02	10	16.5		B	CSO	40	13	9	3
10154		VORO	10	16	2258	S13	W02	10	16.8			ARX	13	12		3
10154		VORO	10	16	2258	S13	W11	10	16.1			ARX	8	9		3
10154		LEAR	10	17	0015	S12	W07	10	16.5		B	EAO	50	20	12	3
10154		SVTO	10	17	0815	S12	W07	10	16.8		B	BXO	10	4	6	3
10154		RAMY	10	17	1112	S12	W12	10	16.6		B	CSO	10	7	8	3
10154	31475	MWIL	10	17	1515	S12	W13	10	16.6	4	(B)					
10154		LEAR	10	18	0015	S12	W21	10	16.4		B	ESO	50	16	12	3
10154		TACH	10	18	0632	S13	W22	10	16.6			BRI	6	6	10	3
10154		SVTO	10	18	0804	S13	W18	10	17.0		B	DRO	10	4	2	2
10154		RAMY	10	18	1205	S13	W27	10	16.5		B	ESO	50	4	11	3
10154	31475	MWIL	10	18	1530	S12	W27	10	16.6	4	(B)					
10154		HOLL	10	18	1810	S12	W26	10	16.8		B	CSO	30	3	4	4
10154		LEAR	10	19	0015	S13	W34	10	16.4		B	EAO	30	5	11	4
10154		TACH	10	19	0551	S15	W42	10	16.1			AXX	4	1	1	2
10154		RAMY	10	19	1204	S15	W44	10	16.2		A	HSX	10	1	1	3
10154		HOLL	10	19	1510	S13	W44	10	16.3		A	AXX	10	1	1	3
10154	31475	MWIL	10	19	1615	S15	W45	10	16.3	4	(AF)					
10154		VORO	10	19	2253	S14	W47	10	16.4			ARX	7	1		3
10154		LEAR	10	20	0020	S13	W49	10	16.3		A	AXX	10	1	1	5
10154		TACH	10	20	0533	S14	W53	10	16.2			AR	5	2	4	4
10154		HOLL	10	20	1545	S15	W58	10	16.3		A	AXX	10	1	1	3
10154	31475	MWIL	10	20	1600	S15	W57	10	16.3	3	(AP)					
10157A		LEAR	10	16	0010	S22	E29	10	18.2		B	BXO	10	5	3	4
10157A	31482	MWIL	10	16	1500	S20	E25	10	18.5	4	(AP)					
10157A		HOLL	10	16	1500	S21	E23	10	18.4		A	AXX	10	3	2	3
10157A		LEAR	10	17	0015	S20	E15	10	18.1		B	BXO	10	4	6	3
10157A	31482	MWIL	10	17	1515	S22	E07	10	18.2	4	(AP)					
10157A		LEAR	10	18	0015	S22	E03	10	18.2		B	CRO	20	6	5	3
10157A		TACH	10	18	0632	S21	E01	10	18.3			AR	1	2	2	3
10157A	31482	MWIL	10	18	1530	S22	W07	10	18.1	4	(AP)					
10157A		HOLL	10	18	1810	S21	W07	10	18.2		B	BXO	10	2	3	4
10157A		TACH	10	23	0435	S19	W60	10	18.6			AR	18	3	1	4
10158		SVTO	10	12	0610	S07	E87	10	18.8		A	HSX	60	1	4	3
10158		RAMY	10	12	1207	S09	E88	10	19.1		A	HSX	120	1	4	3
10158		VORO	10	12	2307	S09	E72	10	18.4			HAX	98	1		3
10158		LEAR	10	13	0035	S11	E75	10	18.7		B	DSO	90	2	6	2
10158		SVTO	10	13	0710	S08	E75	10	18.9		B	ESO	120	2	12	3
10158		RAMY	10	13	1400	S09	E67	10	18.6		A	HSX	140	1	2	2

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10158		VORO	10	13	2230	S09	E59	10	18.4			HAX	112	1		3
10158		LEAR	10	14	0010	S10	E57	10	18.3		A	HSX	80	1	2	3
10158		SVTO	10	14	0625	S07	E56	10	18.5		A	HSX	120	1	2	3
10158		RAMY	10	14	1145	S08	E53	10	18.5		A	HSX	130	1	3	4
10158	31476	MWIL	10	14	1530	S09	E50	10	18.4	5	(AP)					
10158		HOLL	10	14	1700	S08	E49	10	18.4		A	HAX	90	2	2	4
10158		LEAR	10	15	0040	S08	E47	10	18.5		B	CSO	60	2	8	3
10158		VORO	10	15	0606	S04	E47	10	18.8			AXX	9	2		3
10158		VORO	10	15	0606	S08	E42	10	18.4			HAX	101	1		3
10158		SVTO	10	15	0638	S04	E47	10	18.8		B	CSO	70	3	9	2
10158		RAMY	10	15	1205	S05	E42	10	18.6		B	DSO	100	3	7	3
10158	31481	MWIL	10	15	1515	S05	E42	10	18.8	4	(AP)					
10158	31476	MWIL	10	15	1515	S09	E37	10	18.4	5	(AP)					
10158		HOLL	10	15	1633	S06	E38	10	18.5		B	CSO	190	3	7	2
10158		VORO	10	15	2248	S04	E37	10	18.7			AXX	18	6		3
10158		VORO	10	15	2248	S09	E33	10	18.4			HSX	97	1		3
10158		LEAR	10	16	0010	S07	E34	10	18.5		B	CSO	120	4	7	4
10158		TACH	10	16	0417	S07	E32	10	18.6			CSO	127	3	4	4
10158		SVTO	10	16	0605	S05	E32	10	18.6		B	CSO	50	3	7	2
10158		RAMY	10	16	1220	S07	E27	10	18.5		B	DSO	200	5	6	3
10158	31481	MWIL	10	16	1500	S04	E28	10	18.7	4	(BG)					
10158		HOLL	10	16	1500	S07	E28	10	18.7		B	DAO	90	4	7	3
10158	31476	MWIL	10	16	1500	S09	E25	10	18.5	5	(AP)					
10158		VORO	10	16	2258	S04	E22	10	18.6			BRI	40	7	1	3
10158		VORO	10	16	2258	S09	E20	10	18.4			HSX	69	1		3
10158		LEAR	10	17	0015	S07	E21	10	18.6		B	DAO	120	11	8	3
10158		SVTO	10	17	0815	S04	E18	10	18.7		B	DSI	120	13	9	3
10158		RAMY	10	17	1112	S06	E17	10	18.7		B	DAO	110	16	9	3
10158	31481	MWIL	10	17	1515	S04	E14	10	18.7	5	(B)					
10158	31476	MWIL	10	17	1515	S09	E12	10	18.5	5	(AP)					
10158		LEAR	10	18	0015	S06	E09	10	18.7		BG	DAI	160	20	9	3
10158		TACH	10	18	0632	S06	E03	10	18.5			CSI	107	9	6	3
10158		SVTO	10	18	0804	S06	E04	10	18.6		B	DSO	110	10	7	2
10158		RAMY	10	18	1205	S06	E02	10	18.6		BG	DAI	110	13	6	3
10158	31481	MWIL	10	18	1530	S04	E00	10	18.6	5	(BG)					
10158	31476	MWIL	10	18	1530	S09	W02	10	18.5	5	(AP)					
10158		HOLL	10	18	1810	S05	W03	10	18.5		BG	DAI	130	25	8	4
10158		VORO	10	18	2248	S04	W05	10	18.6			DAI	60	9	3	3
10158		VORO	10	18	2248	S09	W06	10	18.5			HSX	72	3		3
10158		LEAR	10	19	0015	S07	W06	10	18.6		BG	DSO	70	17	5	4
10158		TACH	10	19	0551	S06	W08	10	18.6			CSI	93	9	4	2
10158		SVTO	10	19	0814	S07	W11	10	18.5		B	DSO	150	11	9	3
10158		RAMY	10	19	1204	S06	W13	10	18.5		B	DSI	150	21	6	3
10158		HOLL	10	19	1510	S08	W13	10	18.6		BG	DAI	140	21	6	3
10158	31481	MWIL	10	19	1615	S05	W14	10	18.6	4	(BG)					
10158	31476	MWIL	10	19	1615	S10	W16	10	18.5	5	(AP)					
10158		VORO	10	19	2253	S04	W17	10	18.7			BRI	49	17	4	3
10158		VORO	10	19	2253	S09	W18	10	18.6			HSX	69	4		3
10158		LEAR	10	20	0020	S06	W20	10	18.5		BG	DSO	100	11	6	5
10158		TACH	10	20	0533	S07	W21	10	18.6			CSI	81	5	3	4
10158		SVTO	10	20	0636	S08	W23	10	18.5		B	DSO	80	5	7	3
10158		RAMY	10	20	1220	S08	W27	10	18.5		BG	DAO	140	8	7	3
10158		HOLL	10	20	1545	S08	W26	10	18.7		B	CAO	60	13	7	3
10158	31481	MWIL	10	20	1600	S05	W27	10	18.6	4	(B)					
10158	31476	MWIL	10	20	1600	S10	W28	10	18.6	5	(AP)					
10158		LEAR	10	21	0010	S07	W34	10	18.5		B	CSO	40	2	2	2
10158		SVTO	10	21	0632	S08	W37	10	18.5		A	HSX	30	3	4	3
10158		TACH	10	21	0637	S07	W36	10	18.6			CAI	121	7	3	3
10158	31481	MWIL	10	21	1500	S05	W42	10	18.5	4	(B)					
10158	31476	MWIL	10	21	1500	S09	W41	10	18.5	4	(AP)					
10158		RAMY	10	21	1515	S08	W43	10	18.4		BG	DSO	100	6	7	3
10158		LEAR	10	22	0027	S07	W48	10	18.4		B	DSO	100	6	8	2
10158		TACH	10	22	0526	S07	W50	10	18.5			CSI	150	5	7	3
10158		RAMY	10	22	1205	S09	W56	10	18.3		BG	DSO	140	7	9	3
10158	31481	MWIL	10	22	1500	S06	W58	10	18.3	5	(B)					
10158	31476	MWIL	10	22	1500	S09	W54	10	18.6	5	(AP)					
10158		VORO	10	23	0110	S06	W60	10	18.5			HAX	37	2		3
10158		VORO	10	23	0110	S09	W59	10	18.6			HAX	55	2		3
10158		LEAR	10	23	0125	S06	W63	10	18.3		B	DSO	100	4	8	2

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10158		TACH	10	23	0435	S08	W64	10	18.4			DSO	97	3	7	4
10158		SVTO	10	23	0925	S08	W68	10	18.3		B	DAO	180	5	9	2
10158		RAMY	10	23	1222	S09	W69	10	18.3		B	DAO	100	5	10	3
10158		HOLL	10	23	1420	S08	W70	10	18.3		B	DAO	80	3	7	3
10158	31481	MWIL	10	23	1500	S06	W70	10	18.4	5	(B)					
10158	31476	MWIL	10	23	1500	S09	W67	10	18.6	5	(AP)					
10158		VORO	10	23	2329	S09	W71	10	18.6			AXX	13	1		2
10158		LEAR	10	24	0010	S06	W75	10	18.4		B	DAO	80	3	8	3
10160		RAMY	10	13	1400	S22	E75	10	19.3		A	HSX	20	1	1	2
10160		LEAR	10	14	0010	S24	E65	10	19.0		A	HRX	20	1	1	3
10160		SVTO	10	14	0625	S17	E64	10	19.1		B	DRO	20	3	6	3
10160		RAMY	10	14	1145	S20	E60	10	19.1		B	BXO	40	3	3	4
10160	31477	MWIL	10	14	1530	S20	E56	10	18.9	4	(BG)					
10160		HOLL	10	14	1700	S20	E56	10	19.0		B	BXO	40	3	4	4
10160		LEAR	10	15	0040	S21	E51	10	18.9		B	BXO	10	3	4	3
10160		VORO	10	15	0606	S18	E46	10	18.7			AXX	7	1		3
10160		VORO	10	15	0606	S22	E50	10	19.1			AXX	21	12		3
10160		SVTO	10	15	0638	S19	E51	10	19.2		B	BXO	20	3	6	2
10160		RAMY	10	15	1205	S20	E47	10	19.1		B	DSO	50	6	6	3
10160	31477	MWIL	10	15	1515	S22	E45	10	19.1	4	(B)					
10160		HOLL	10	15	1633	S19	E43	10	19.0		B	CAO	40	9	8	2
10160		VORO	10	15	2248	S20	E39	10	18.9			BRI	34	6	0	3
10160		VORO	10	15	2248	S22	E43	10	19.2			HRX	28	2		3
10160		LEAR	10	16	0010	S21	E39	10	19.0		B	DAI	100	20	7	4
10160		TACH	10	16	0417	S21	E39	10	19.2			BRI	26	9	4	4
10160		SVTO	10	16	0605	S19	E38	10	19.1		B	CAO	60	13	10	2
10160		RAMY	10	16	1220	S21	E37	10	19.3		BG	DAI	200	14	9	3
10160		HOLL	10	16	1500	S21	E32	10	19.1		B	DAO	250	17	8	3
10160	31477	MWIL	10	16	1500	S22	E33	10	19.2	5	(B)					
10160		VORO	10	16	2258	S19	E25	10	18.9			HAX	88	24		3
10160		VORO	10	16	2258	S23	E31	10	19.3			HAX	87	15		3
10160		LEAR	10	17	0015	S22	E28	10	19.2		B	DAI	120	17	9	3
10160		SVTO	10	17	0815	S20	E25	10	19.2		B	DSO	130	16	9	3
10160		RAMY	10	17	1112	S21	E23	10	19.2		B	DAI	160	21	10	3
10160	31477	MWIL	10	17	1515	S22	E20	10	19.2	5	(B)					
10160		LEAR	10	18	0015	S22	E15	10	19.2		B	DAI	150	26	10	3
10160		TACH	10	18	0632	S21	E11	10	19.1			DAI	166	8	7	3
10160		SVTO	10	18	0804	S21	E12	10	19.2		B	DAO	90	12	10	2
10160		RAMY	10	18	1205	S22	E07	10	19.0		B	DSI	230	16	10	3
10160	31477	MWIL	10	18	1530	S21	E07	10	19.2	5	(B)					
10160		HOLL	10	18	1810	S23	E05	10	19.1		B	EAI	90	28	11	4
10160		VORO	10	18	2248	S19	W01	10	18.9			DRI	46	17	4	3
10160		VORO	10	18	2248	S24	E06	10	19.4			HAX	87	8		3
10160		LEAR	10	19	0015	S23	E00	10	19.0		B	DAO	90	15	9	4
10160		TACH	10	19	0551	S22	W01	10	19.2			CAI	119	15	9	2
10160		SVTO	10	19	0814	S23	W04	10	19.0		B	ESO	90	13	13	3
10160		RAMY	10	19	1204	S21	W06	10	19.0		BG	EKI	130	23	11	3
10160		HOLL	10	19	1510	S20	W08	10	19.0		B	EAI	120	23	11	3
10160	31477	MWIL	10	19	1615	S22	W07	10	19.1	5	(BG)					
10160		VORO	10	19	2253	S18	W14	10	18.9			CRI	119	30	4	3
10160		VORO	10	19	2253	S25	W06	10	19.5			HAX	39	3		3
10160		LEAR	10	20	0020	S21	W14	10	18.9		BG	EAO	110	32	12	5
10160		TACH	10	20	0533	S18	W19	10	18.8			HA	145	3	3	4
10160		SVTO	10	20	0636	S22	W16	10	19.0		BG	FSO	100	12	16	3
10160		RAMY	10	20	1220	S22	W20	10	19.0		BG	EAI	190	22	13	3
10160		HOLL	10	20	1545	S20	W23	10	18.9		BG	EAI	120	43	11	3
10160	31477	MWIL	10	20	1600	S22	W20	10	19.1	4	(BG)					
10160		LEAR	10	21	0010	S21	W26	10	19.0		BG	EAO	70	20	12	2
10160		SVTO	10	21	0632	S22	W31	10	18.9		B	CSO	40	9	14	3
10160		TACH	10	21	0637	S19	W30	10	19.0			CAI	94	16	6	3
10160		TACH	10	21	0637	S26	W22	10	19.6			AR	6	2	1	3
10160	31477	MWIL	10	21	1500	S22	W34	10	19.0	5	(BG)					
10160		RAMY	10	21	1515	S22	W36	10	18.9		BG	EAI	130	20	13	3
10160		LEAR	10	22	0027	S19	W43	10	18.7		B	DAO	90	13	8	2
10160		TACH	10	22	0526	S19	W45	10	18.8			BRI	103	8	6	3
10160		RAMY	10	22	1205	S21	W50	10	18.7		BG	DAO	130	13	10	3
10160	31477	MWIL	10	22	1500	S19	W51	10	18.7	5	(BP)					
10160		VORO	10	23	0110	S18	W57	10	18.7			BXI	36	11	4	3

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10160		LEAR	10	23	0125	S18	W58	10	18.6		BG	DAO	80	8	6	2
10160		SVTO	10	23	0925	S18	W65	10	18.4		B	DSO	70	4	3	2
10160		RAMY	10	23	1222	S20	W66	10	18.5		B	DSO	60	5	5	3
10160		HOLL	10	23	1420	S19	W67	10	18.5		B	CSO	30	3	3	3
10160	31477	MWIL	10	23	1500	S19	W67	10	18.5	4	(AP)					
10160		LEAR	10	24	0010	S18	W70	10	18.7		B	BXO	30	4	6	3
10159		VORO	10	12	2307	S12	E82	10	19.1			HAX	125	1		3
10159		RAMY	10	13	1400	S12	E78	10	19.4		A	HSX	10	1	2	2
10159		VORO	10	13	2230	S12	E69	10	19.1			HAX	209	2		3
10159		LEAR	10	14	0010	S13	E68	10	19.1		A	HSX	110	2	2	3
10159		SVTO	10	14	0625	S09	E67	10	19.3		A	HSX	100	1	3	3
10159		RAMY	10	14	1145	S12	E65	10	19.4		A	HSX	190	1	3	4
10159	31478	MWIL	10	14	1530	S12	E60	10	19.2	5	(AP)					
10159		LEAR	10	15	0040	S12	E55	10	19.2		A	HRX	180	1	3	3
10159		VORO	10	15	0606	S11	E53	10	19.2			HAX	215	2		3
10159		VORO	10	15	0606	S15	E52	10	19.2			AXX	3	1		3
10159		SVTO	10	15	0638	S09	E54	10	19.3		A	HSX	170	1	4	2
10159		RAMY	10	15	1205	S11	E50	10	19.3		A	HSX	200	1	3	3
10159	31478	MWIL	10	15	1515	S12	E47	10	19.2	5	(AP)					
10159		HOLL	10	15	1633	S11	E47	10	19.2		A	HAX	60	2	3	2
10159		VORO	10	15	2248	S12	E43	10	19.2			HAX	136	2		3
10159		LEAR	10	16	0010	S11	E43	10	19.2		B	CAO	170	4	5	4
10159		TACH	10	16	0417	S11	E41	10	19.3			HA	144	3	2	4
10159		SVTO	10	16	0605	S09	E41	10	19.3		A	HAX	150	2	3	2
10159		RAMY	10	16	1220	S12	E38	10	19.4		B	DAO	170	5	4	3
10159		HOLL	10	16	1500	S11	E35	10	19.2		B	DKO	260	6	7	3
10159	31478	MWIL	10	16	1500	S11	E35	10	19.2	5	(BG)					
10159		VORO	10	16	2258	S11	E29	10	19.1			HAX	192	14		3
10159		LEAR	10	17	0015	S13	E31	10	19.3		B	DAO	180	10	8	3
10159		SVTO	10	17	0815	S09	E27	10	19.4		B	CSO	140	7	7	3
10159		RAMY	10	17	1112	S12	E24	10	19.3		B	CAO	160	6	7	3
10159	31478	MWIL	10	17	1515	S12	E21	10	19.2	5	(BP)					
10159		LEAR	10	18	0015	S12	E18	10	19.4		B	CAO	150	11	9	3
10159		TACH	10	18	0632	S12	E16	10	19.5			CAO	119	4	6	3
10159		SVTO	10	18	0804	S11	E13	10	19.3		B	CAO	100	4	3	2
10159		RAMY	10	18	1205	S15	E11	10	19.3		B	CSO	160	10	12	3
10159	31478	MWIL	10	18	1530	S11	E10	10	19.4	5	(BP)					
10159		HOLL	10	18	1810	S12	E09	10	19.4		B	CAO	110	13	8	4
10159		VORO	10	18	2248	S11	E04	10	19.2			DAC	126	14	2	3
10159		LEAR	10	19	0015	S13	E05	10	19.4		B	DAO	120	9	8	4
10159		TACH	10	19	0551	S12	E01	10	19.3			HA	132	4	3	2
10159		SVTO	10	19	0814	S12	W02	10	19.2		A	HAO	110	3	4	3
10159		RAMY	10	19	1204	S12	W01	10	19.4		B	DSO	80	7	8	3
10159		HOLL	10	19	1510	S12	W02	10	19.5		B	DSO	100	7	9	3
10159	31478	MWIL	10	19	1615	S13	W04	10	19.4	5	(BP)					
10159		VORO	10	19	2253	S11	W09	10	19.3			DRI	77	10	2	3
10159		LEAR	10	20	0020	S12	W11	10	19.2		B	DSO	60	5	3	5
10159		TACH	10	20	0533	S16	W11	10	19.4			CAI	59	16	3	4
10159		SVTO	10	20	0636	S12	W13	10	19.3		A	HSX	60	3	3	3
10159		RAMY	10	20	1220	S12	W14	10	19.4		B	DSO	70	5	8	3
10159		HOLL	10	20	1545	S12	W18	10	19.3		B	DSO	40	10	8	3
10159	31478	MWIL	10	20	1600	S13	W17	10	19.4	4	(BP)					
10159		LEAR	10	21	0010	S12	W22	10	19.3		B	DAO	40	5	7	2
10159		SVTO	10	21	0632	S12	W27	10	19.2		A	AXX	10	3	3	3
10159		TACH	10	21	0637	S12	W23	10	19.5			BRO	34	4	7	3
10159	31478	MWIL	10	21	1500	S13	W29	10	19.4	4	(BG)					
10159		RAMY	10	21	1515	S14	W30	10	19.4		B	DSO	30	8	8	3
10159		LEAR	10	22	0027	S14	W32	10	19.6		B	BXO	10	3	1	2
10159		TACH	10	22	0526	S15	W33	10	19.7			AR	8	3	2	3
10159		RAMY	10	22	1205	S16	W38	10	19.6		B	BXO	10	3	3	3
10159	31478	MWIL	10	22	1500	S13	W42	10	19.4	4	(BG)					
10168		HOLL	10	19	1510	N25	E08	10	20.2		A	HAX	20	3	2	3
10168	31486	MWIL	10	19	1615	N23	E07	10	20.2	4	(AP)					
10168		LEAR	10	20	0020	N24	E03	10	20.2		A	AXX		2		5
10168		SVTO	10	24	0830	N25	W57	10	19.9		A	HSX	10	1	1	2
10168		HOLL	10	24	1600	N24	W62	10	19.9		A	HRX	10	1	1	3
10168		LEAR	10	25	0010	N25	W66	10	19.9		A	HSX	20	1	1	4

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10168		VORO	10	25	0112	N25	W67	10	19.8			AXX	10	1		2
10168		RAMY	10	25	1258	N23	W76	10	19.7		A	HSX	20	1	1	3
10160C	31489	MWIL	10	20	1600	S20	E06	10	21.1	4	(AP)					
10168B		TACH	10	28	0602	N01	W76	10	22.6			AXX	41	1	1	3
10168A		LEAR	10	18	0015	S15	E68	10	23.1		A	AXX	10	1	1	3
10162B		TACH	10	18	0632	N25	E71	10	23.8			HSX	346	1	3	3
10162B		VORO	10	18	2248	N25	E62	10	23.7			HKX	475	1		3
10162B		TACH	10	19	0551	N25	E59	10	23.8			HSX	493	1	2	2
10162B		VORO	10	19	2253	N25	E50	10	23.8			HKX	414	1		3
10162B		TACH	10	20	0533	N25	E46	10	23.8			HHX	452	1	4	4
10162B		TACH	10	21	0637	N25	E33	10	23.8			HHX	500	1	2	3
10162B		TACH	10	22	0526	N24	E21	10	23.8			HHX	509	2	2	3
10162B	31490	MWIL	10	22	1500	N25	E15	10	23.8	6	(BG)					
10162B		VORO	10	23	0110	N25	E10	10	23.8			HHX	487	19		3
10162B		TACH	10	23	0435	N24	E09	10	23.9			HA	428	2	4	4
10162B	31490	MWIL	10	23	1500	N25	E02	10	23.8	6	(BG)					
10162B		VORO	10	23	2329	N25	W02	10	23.8			HHX	470	3		2
10162B		TACH	10	26	0536	N24	W31	10	23.8			HH	583	2	6	3
10162B		TACH	10	27	0639	N24	W45	10	23.8			HHX	591	1	4	3
10162B	31490	MWIL	10	27	1600	N25	W50	10	23.8	5	(AP)					
10162B		TACH	10	28	0602	N26	W60	10	23.6			HSX	381	1	5	3
10162B	31490	MWIL	10	28	1500	N25	W63	10	23.7	4	(BP)					
10162B		VORO	10	29	0351	N26	W70	10	23.7			HKX	360	5		2
10162B		TACH	10	29	0719	N25	W70	10	23.9			HSX	443	1	6	4
10162B	31490	MWIL	10	29	1545	N25	W77	10	23.7	5	(AP)					
10162B		VORO	10	29	2256	N26	W78	10	23.9			HKX	388	1		2
10162B		TACH	10	30	0521	N25	W83	10	23.8			HSX	341	1	5	3
10173		LEAR	10	28	0057	S16	W56	10	23.8		B	CRO	30	3	3	2
10173		RAMY	10	28	1213	S18	W64	10	23.6		B	DSO	70	3	6	3
10173	31497	MWIL	10	28	1500	S17	W64	10	23.8	5	(B)					
10173		HOLL	10	28	1755	S17	W65	10	23.8		B	CAO	40	4	4	3
10173		LEAR	10	29	0050	S15	W69	10	23.8		B	CSO	60	6	5	3
10173		VORO	10	29	0351	S16	W70	10	23.8			DAI	107	7	4	2
10173		SVTO	10	29	0700	S20	W70	10	23.9		B	DSO	120	4	7	3
10173		TACH	10	29	0719	S17	W72	10	23.8			DSO	113	2	5	4
10173		RAMY	10	29	1225	S19	W79	10	23.5		B	CSO	150	3	4	3
10173		HOLL	10	29	1452	S17	W78	10	23.7		B	CSO	60	2	4	3
10173	31497	MWIL	10	29	1545	S16	W79	10	23.7	5	(B)					
10173		LEAR	10	30	0030	S15	W80	10	24.0		BG	DAO	30	2	4	2
10162		VORO	10	16	2258	N25	E86	10	23.6			HAX	63	1		3
10162		LEAR	10	17	0015	N23	E89	10	23.9		A	HAX	120	1	3	3
10162		SVTO	10	17	0815	N29	E84	10	23.9		A	HHX	180	1	6	3
10162		RAMY	10	17	1112	N24	E82	10	23.8		A	HHX	150	1	4	3
10162	31485	MWIL	10	17	1515	N24	E79	10	23.7	5	(AP)					
10162		LEAR	10	18	0015	N23	E82	10	24.3		B	EHO	330	4	15	3
10162		TACH	10	18	0632	N20	E82	10	24.5			AR	18	2	1	3
10162		SVTO	10	18	0804	N27	E83	10	24.8		B	EKO	360	5	14	2
10162		RAMY	10	18	1205	N26	E77	10	24.5		B	FKO	1020	3	22	3
10162	31485	MWIL	10	18	1530	N25	E74	10	24.4	6	(B)					
10162		HOLL	10	18	1810	N25	E73	10	24.4		BG	FKC	680	16	19	4
10162		VORO	10	18	2248	N27	E78	10	25.0			DAI	478	14	8	3
10162		LEAR	10	19	0015	N26	E70	10	24.4		BG	FKO	810	8	16	4
10162		TACH	10	19	0551	N27	E75	10	25.1			DAI	587	15	10	2
10162		SVTO	10	19	0814	N27	E67	10	24.6		B	FHO	730	11	24	3
10162		RAMY	10	19	1204	N26	E67	10	24.7		BG	FKI	1040	10	25	3
10162		HOLL	10	19	1510	N25	E65	10	24.7		BG	FKC	1010	37	25	3
10162	31485	MWIL	10	19	1615	N25	E59	10	24.2	6	(BG)					
10162		VORO	10	19	2253	N26	E66	10	25.1			EAI	486	39	10	3
10162		LEAR	10	20	0020	N26	E57	10	24.4		BG	FHI	880	27	20	5
10162		TACH	10	20	0533	N26	E62	10	25.0			DAI	388	16	11	4
10162		SVTO	10	20	0636	N27	E55	10	24.6		BG	FHI	820	21	25	3
10162		RAMY	10	20	1220	N26	E51	10	24.5		BG	FKI	1060	28	22	3
10162		HOLL	10	20	1545	N25	E53	10	24.8		BG	FKC	1130	55	23	3

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10162	31485	MWIL	10	20	1600	N25	E47	10	24.3	6	(D)					
10162		LEAR	10	21	0010	N26	E45	10	24.5		BG	FHI	570	22	18	2
10162		SVTO	10	21	0632	N27	E44	10	24.7		BG	FKC	990	28	24	3
10162		TACH	10	21	0637	N27	E47	10	24.9			DAI	460	40	7	3
10162	31485	MWIL	10	21	1500	N25	E38	10	24.6	6	(D)					
10162		RAMY	10	21	1515	N26	E39	10	24.7		BG	FKI	1090	42	24	3
10162		LEAR	10	22	0027	N26	E33	10	24.6		BG	FKI	1050	34	26	2
10162		TACH	10	22	0526	N26	E35	10	24.9			EAI	700	31	14	3
10162		RAMY	10	22	1205	N27	E29	10	24.8		BGD	EKI	1130	34	25	3
10162	31485	MWIL	10	22	1500	N26	E30	10	24.9	5	(D)					
10162		VORO	10	23	0110	N27	E26	10	25.1			DKI	772	39	8	3
10162		LEAR	10	23	0125	N25	E20	10	24.6		BGD	FKI	1000	32	27	2
10162		TACH	10	23	0435	N26	E23	10	25.0			EAI	558	19	14	4
10162		SVTO	10	23	0925	N25	E16	10	24.6		BG	FHI	1100	32	27	2
10162		RAMY	10	23	1222	N27	E17	10	24.8		BGD	FKI	1190	39	24	3
10162		HOLL	10	23	1420	N26	E15	10	24.8		BGD	FKC	1130	54	25	3
10162	31485	MWIL	10	23	1500	N26	E17	10	24.9	5	(D)					
10162		VORO	10	23	2329	N27	E14	10	25.1			DKI	741	29	13	2
10162		LEAR	10	24	0010	N26	E09	10	24.7		BGD	FKC	1100	63	26	3
10162		SVTO	10	24	0830	N26	E04	10	24.7		BG	FKI	1000	27	27	2
10162		RAMY	10	24	1237	N27	E00	10	24.5		BG	FKI	930	25	26	2
10162		HOLL	10	24	1600	N26	E02	10	24.8		BGD	EKC	920	49	28	3
10162		LEAR	10	25	0010	N26	W02	10	24.8		BGD	FKC	990	79	26	4
10162		VORO	10	25	0112	N27	E01	10	25.1			DKI	371	11	8	2
10162		SVTO	10	25	1220	N25	W14	10	24.4		BG	FKI	700	15	25	2
10162		RAMY	10	25	1258	N26	W12	10	24.6		BG	FKI	860	33	25	3
10162		HOLL	10	25	1530	N25	W12	10	24.7		BGD	FKC	820	47	24	3
10162		TACH	10	26	0536	N27	W11	10	25.4			EAI	327	24	11	3
10162		RAMY	10	26	1232	N26	W21	10	24.9		BG	FKC	920	64	27	3
10162		LEAR	10	27	0010	N27	W26	10	25.0		BG	FKI	600	31	25	2
10162		TACH	10	27	0639	N26	W43	10	23.9			DAI	372	21	11	3
10162		SVTO	10	27	0724	N25	W37	10	24.4		BG	FHI	590	21	20	3
10162		RAMY	10	27	1230	N26	W36	10	24.7		BG	FKI	850	25	29	3
10162		HOLL	10	27	1506	N25	W41	10	24.4		BGD	FKC	620	39	23	2
10162	31485	MWIL	10	27	1600	N26	W35	10	24.9	5	(D)					
10162		LEAR	10	28	0057	N27	W47	10	24.4		BG	FKI	620	54	24	2
10162		TACH	10	28	0602	N26	W42	10	25.0			DAI	437	32	6	3
10162		SVTO	10	28	0850	N24	W49	10	24.6		B	FHI	420	21	20	2
10162		RAMY	10	28	1213	N25	W55	10	24.2		BG	FKI	990	15	23	3
10162	31485	MWIL	10	28	1500	N26	W49	10	24.8	5	(D)					
10162		HOLL	10	28	1755	N25	W55	10	24.5		BGD	FKC	840	39	22	3
10162		LEAR	10	29	0050	N27	W60	10	24.3		BGD	FKC	520	28	21	3
10162		VORO	10	29	0351	N26	W55	10	24.9			DKO	632	51	7	2
10162		SVTO	10	29	0700	N23	W62	10	24.5		BG	FHI	570	30	21	3
10162		TACH	10	29	0719	N25	W56	10	25.0			DAI	332	16	2	4
10162		RAMY	10	29	1225	N26	W68	10	24.2		BG	FKI	700	13	21	3
10162		HOLL	10	29	1452	N26	W69	10	24.2		BG	FKC	620	21	22	3
10162	31485	MWIL	10	29	1545	N26	W62	10	24.8	5	(D)					
10162		VORO	10	29	2256	N26	W64	10	25.0			DKI	654	39	7	2
10162		LEAR	10	30	0030	N27	W72	10	24.4		BD	FKI	580	21	18	2
10162		TACH	10	30	0521	N25	W68	10	24.9			HR	1039	17	1	3
10162		SVTO	10	30	0730	N24	W75	10	24.5		BG	FKI	900	24	17	3
10162		RAMY	10	30	1223	N24	W73	10	24.9		BG	DKO	500	6	9	3
10162		HOLL	10	30	1450	N26	W75	10	24.8		BG	DKO	690	14	9	3
10162	31485	MWIL	10	30	1530	N26	W74	10	24.9	5	(D)					
10162		LEAR	10	31	0220	N27	W82	10	24.7		BG	EKI	540	11	12	1
10162		TACH	10	31	0453	N28	W73	10	25.5			FAO	326	5	16	3
10162		SVTO	10	31	0724	N22	W80	10	25.1		B	DSO	180	2	6	2
10162		RAMY	10	31	1221	N26	W83	10	25.1		A	HKX	240	1	8	3
10162	31485	MWIL	10	31	1530	N27	W87	10	24.9	5	(D)					
10162		HOLL	10	31	1903	N28	W84	10	25.2		A	HAX	60	1	6	3
10162A		RAMY	10	23	1222	S07	E14	10	24.6		A	AXX	10	1	1	3
10162A		HOLL	10	23	1420	S06	E13	10	24.6		A	AXX		1		3
10162A	31491	MWIL	10	23	1500	S05	E12	10	24.5	4	(AF)					
10164	31487	MWIL	10	19	1615	N11	E70	10	24.9	4	(AP)					
10164		RAMY	10	20	1220	N11	E59	10	24.9		A	AXX	20	1	1	3
10164		HOLL	10	20	1545	N11	E58	10	25.0		A	AXX	20	1	1	3

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10164	31487	MWIL	10	20	1600	N11	E56	10	24.9	4	(AP)					
10164		LEAR	10	21	0010	N10	E52	10	24.9		A	HRX	20	1	1	2
10164		TACH	10	21	0637	N11	E47	10	24.8			AXX	15	1	1	3
10164	31487	MWIL	10	21	1500	N10	E43	10	24.8	4	(AP)					
10164		RAMY	10	21	1515	N11	E44	10	24.9		B	BXO	10	3	4	3
10164		RAMY	10	22	1205	N11	E31	10	24.8		B	BXO	10	3	4	3
10164		LEAR	10	24	0010	N11	E14	10	25.1		B	BXO	20	8	5	3
10164		LEAR	10	25	0010	N11	E01	10	25.1		B	CRO	20	6	5	4
10164A		LEAR	10	28	0057	S12	W29	10	25.8		B	CRO	10	4	2	2
10165	31488	MWIL	10	19	1615	N20	E87	10	26.3	4	AP					
10165		LEAR	10	20	0020	N18	E85	10	26.5		A	HSX	180	1	2	5
10165		TACH	10	20	0533	N20	E78	10	26.2			HSX	331	1	5	4
10165		SVTO	10	20	0636	N21	E79	10	26.3		A	HAX	120	1	3	3
10165		RAMY	10	20	1220	N20	E75	10	26.2		A	HSX	240	1	2	3
10165		HOLL	10	20	1545	N20	E74	10	26.3		A	HAX	180	1	3	3
10165	31488	MWIL	10	20	1600	N21	E73	10	26.3	4	(AP)					
10165		LEAR	10	21	0010	N18	E66	10	26.0		A	HSX	130	1	2	2
10165		SVTO	10	21	0632	N22	E68	10	26.5		B	CAO	210	2	7	3
10165		TACH	10	21	0637	N22	E68	10	26.5			CSO	236	2	7	3
10165	31488	MWIL	10	21	1500	N21	E64	10	26.5	5	(AP)					
10165		RAMY	10	21	1515	N22	E63	10	26.5		B	CAO	350	5	7	3
10165		LEAR	10	22	0027	N20	E58	10	26.4		B	DAO	160	16	8	2
10165		TACH	10	22	0526	N22	E57	10	26.6			CAI	265	5	8	3
10165		RAMY	10	22	1205	N21	E52	10	26.5		B	CKO	330	10	11	3
10165	31488	MWIL	10	22	1500	N21	E51	10	26.5	5	(BG)					
10165		LEAR	10	23	0125	N18	E42	10	26.2		B	CKO	280	4	3	2
10165		TACH	10	23	0435	N20	E45	10	26.6			CAO	152	3	8	4
10165		SVTO	10	23	0925	N21	E38	10	26.3		A	HAX	210	1	4	2
10165		RAMY	10	23	1222	N20	E38	10	26.4		B	CAO	250	6	7	3
10165		HOLL	10	23	1420	N20	E36	10	26.3		B	CAO	180	3	4	3
10165	31488	MWIL	10	23	1500	N20	E35	10	26.3	5	(AP)					
10165		LEAR	10	24	0010	N19	E31	10	26.4		B	CAO	190	8	6	3
10165		SVTO	10	24	0830	N20	E27	10	26.4		B	CAO	230	5	6	2
10165		RAMY	10	24	1237	N21	E22	10	26.2		B	CSO	220	3	4	2
10165		HOLL	10	24	1600	N20	E22	10	26.3		B	CKO	220	7	6	3
10165		LEAR	10	25	0010	N20	E18	10	26.4		B	CAO	250	16	8	4
10165		SVTO	10	25	1220	N21	E12	10	26.4		B	CAO	180	3	5	2
10165		RAMY	10	25	1258	N21	E10	10	26.3		B	CAO	160	6	4	3
10165		HOLL	10	25	1530	N21	E09	10	26.3		B	DKI	220	11	6	3
10165		TACH	10	26	0536	N20	E02	10	26.4			HA	184	9	3	3
10165		RAMY	10	26	1232	N21	W03	10	26.3		B	DAO	150	8	4	3
10165		LEAR	10	27	0010	N21	W08	10	26.4		A	HAX	120	6	3	2
10165		TACH	10	27	0639	N20	W11	10	26.4			HA	169	3	3	3
10165		SVTO	10	27	0724	N21	W13	10	26.3		B	CAO	130	3	4	3
10165		RAMY	10	27	1230	N21	W16	10	26.3		B	DAO	170	4	4	3
10165		HOLL	10	27	1506	N21	W17	10	26.3		B	CKO	170	6	4	2
10165	31488	MWIL	10	27	1600	N21	W16	10	26.4	5	(AP)					
10165		LEAR	10	28	0057	N22	W21	10	26.4		A	HAX	150	4	3	2
10165		TACH	10	28	0602	N20	W24	10	26.4			HA	170	4	4	3
10165		SVTO	10	28	0850	N20	W26	10	26.4		A	HSX	100	2	2	2
10165		RAMY	10	28	1213	N20	W29	10	26.3		A	HSX	180	1	3	3
10165	31488	MWIL	10	28	1500	N21	W29	10	26.4	5	(AP)					
10165		HOLL	10	28	1755	N21	W31	10	26.4		A	HAX	90	2	2	3
10165		LEAR	10	29	0050	N22	W34	10	26.4		A	HSX	90	4	2	3
10165		SVTO	10	29	0700	N18	W39	10	26.3		A	HSX	100	3	2	3
10165		TACH	10	29	0719	N21	W37	10	26.5			HA	98	3	2	4
10165		RAMY	10	29	1225	N20	W41	10	26.4		B	CAO	130	2	3	3
10165		HOLL	10	29	1452	N21	W43	10	26.3		B	CAO	60	4	3	3
10165	31488	MWIL	10	29	1545	N21	W42	10	26.4	5	(BF)					
10165		LEAR	10	30	0030	N21	W47	10	26.4		B	DAO	120	3	3	2
10165		TACH	10	30	0521	N20	W50	10	26.4			HA	140	4	2	3
10165		SVTO	10	30	0730	N17	W52	10	26.4		B	CAO	100	4	5	3
10165		RAMY	10	30	1223	N20	W53	10	26.5		A	HAX	80	2	2	3
10165		HOLL	10	30	1450	N21	W55	10	26.4		B	CAO	90	6	3	3
10165	31488	MWIL	10	30	1530	N21	W55	10	26.4	5	(AP)					
10165		LEAR	10	31	0220	N21	W61	10	26.4		B	CSO	80	2	2	1
10165		TACH	10	31	0453	N21	W62	10	26.4			HSX	64	1	4	3

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10165		SVTO	10	31	0724	N16	W66	10	26.3		A	HSX	70	1	2	2
10165		RAMY	10	31	1221	N18	W68	10	26.3		A	HSX	50	1	2	3
10165	31488	MWIL	10	31	1530	N20	W68	10	26.4	4	(AP)					
10165		HOLL	10	31	1903	N21	W71	10	26.3		A	HAX	120	2	2	3
10165		LEAR	11	01	0015	N22	W73	10	26.5		A	HAX	120	1	2	3
10165		TACH	11	01	0503	N21	W73	10	26.7			HSX	83	1	3	4
10165		SVTO	11	01	0840	N19	W79	10	26.4		A	HAX	60	1	2	2
10165		RAMY	11	01	1120	N17	W82	10	26.3		A	HAX	60	2	3	3
10165	31488	MWIL	11	01	1545	N21	W81	10	26.5	4	(AP)					
10165C		RAMY	11	01	1120	N07	W78	10	26.7		A	HSX	30	1	1	3
10165A		HOLL	10	30	1450	N12	W28	10	28.5		A	AXX	10	2	1	3
10165A	31501	MWIL	10	30	1530	N10	W28	10	28.5	4	(AP)					
10165B		RAMY	10	26	1232	N09	E38	10	29.4		B	CRO	10	2	3	3
10165B		LEAR	10	27	0010	N09	E33	10	29.5		B	BXO	40	2	3	2
10167		RAMY	10	23	1222	N18	E81	10	29.7		A	HAX	60	1	1	3
10167		HOLL	10	23	1420	N17	E80	10	29.7		A	HSX	60	1	1	3
10167	31492	MWIL	10	23	1500	N17	E80	10	29.7	4	(AP)					
10167		LEAR	10	24	0010	N17	E77	10	29.8		A	HAX	60	1	2	3
10167		SVTO	10	24	0830	N17	E74	10	30.0		A	HSX	10	1	1	2
10167		RAMY	10	24	1237	N19	E68	10	29.7		A	HSX	50	1	1	2
10167		HOLL	10	24	1600	N17	E68	10	29.8		A	HSX	50	1	2	3
10167		LEAR	10	25	0010	N17	E63	10	29.8		A	HAX	40	1	2	4
10167		SVTO	10	25	1220	N17	E57	10	29.8		A	HSX	10	1	1	2
10167		RAMY	10	25	1258	N19	E55	10	29.7		B	CSO	40	3	2	3
10167		HOLL	10	25	1530	N18	E55	10	29.8		A	HAX	60	1	2	3
10167		TACH	10	26	0536	N18	E46	10	29.7			HSX	72	1	1	3
10167		RAMY	10	26	1232	N18	E42	10	29.7		B	CSO	40	2	3	3
10167		LEAR	10	27	0010	N17	E36	10	29.7		A	HSX	10	1	1	2
10167		TACH	10	27	0639	N17	E33	10	29.8			HSX	37	1	1	3
10167		SVTO	10	27	0724	N18	E33	10	29.8		A	HSX	20	1	1	3
10167		RAMY	10	27	1230	N18	E30	10	29.8		A	HAX	20	1	1	3
10167		HOLL	10	27	1506	N18	E28	10	29.8		A	HSX	40	2	1	2
10167	31492	MWIL	10	27	1600	N17	E27	10	29.7	4	(AP)					
10167		LEAR	10	28	0057	N17	E22	10	29.7		B	CAO	60	3	2	2
10167		TACH	10	28	0602	N17	E20	10	29.8			HSX	44	1	1	3
10167		SVTO	10	28	0850	N18	E19	10	29.8		A	HSX	30	1	1	2
10167		RAMY	10	28	1213	N18	E16	10	29.7		A	HSX	20	1	1	3
10167	31492	MWIL	10	28	1500	N17	E14	10	29.7	5	(AP)					
10167		HOLL	10	28	1755	N16	E12	10	29.6		A	HSX	40	3	2	3
10167		LEAR	10	29	0050	N17	E10	10	29.8		A	HSX	40	4	2	3
10167		SVTO	10	29	0700	N18	E05	10	29.7		A	HSX	60	5	3	3
10167		TACH	10	29	0719	N16	E06	10	29.7			HR	27	3	1	4
10167		RAMY	10	29	1225	N17	E03	10	29.7		B	CAO	80	7	4	3
10167		HOLL	10	29	1452	N16	E02	10	29.8		B	CSO	40	7	4	3
10167	31492	MWIL	10	29	1545	N17	E01	10	29.7	5	(BP)					
10167		LEAR	10	30	0030	N17	W03	10	29.8		B	CAO	60	5	4	2
10167		TACH	10	30	0521	N17	W06	10	29.8			HA	53	3	2	3
10167		SVTO	10	30	0730	N15	W08	10	29.7		B	CSO	50	4	5	3
10167		RAMY	10	30	1223	N17	W11	10	29.7		A	HSX	40	1	1	3
10167		HOLL	10	30	1450	N17	W12	10	29.7		B	CSO	50	4	3	3
10167	31492	MWIL	10	30	1530	N17	W12	10	29.7	5	(AP)					
10167		LEAR	10	31	0220	N17	W17	10	29.8		A	HSX	50	2	2	1
10167		TACH	10	31	0453	N17	W18	10	29.8			AR	19	2	2	3
10167		SVTO	10	31	0724	N14	W21	10	29.7		B	CSO	30	3	3	2
10167		RAMY	10	31	1221	N17	W24	10	29.7		B	DSO	30	2	3	3
10167	31492	MWIL	10	31	1530	N16	W25	10	29.7	5	(AP)					
10167		HOLL	10	31	1903	N17	W27	10	29.7		B	CSO	20	4	3	3
10167		LEAR	11	01	0015	N17	W28	10	30.0		A	HSX	40	2	2	3
10167		TACH	11	01	0503	N18	W31	10	29.9			HA	33	2	3	4
10167		SVTO	11	01	0840	N17	W35	10	29.8		A	HSX	20	1	1	2
10167		RAMY	11	01	1120	N16	W37	10	29.8		B	CSO	10	4	2	3
10167	31492	MWIL	11	01	1545	N17	W39	10	29.8	5	(AP)					
10167		LEAR	11	02	0020	N18	W44	10	29.8		A	HSX	20	1	1	4
10167		TACH	11	02	0605	N17	W46	10	29.8			HSX	44	1	1	2
10167		SVTO	11	02	0639	N16	W47	10	29.8		A	HSX	10	1	1	3

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10167		RAMY	11	02	1236	N18	W51	10	29.7		A	HSX	20	1	1	3
10167	31492	MWIL	11	02	1545	N17	W52	10	29.8	4	(AP)					
10167		LEAR	11	03	0022	N18	W57	10	29.8		A	HSX	10	1	1	4
10167		RAMY	11	03	1232	N17	W64	10	29.7		A	HSX	20	1	1	3
10167		HOLL	11	03	1450	N18	W66	10	29.7		A	AXX	10	1	1	3
10167	31492	MWIL	11	03	1545	N17	W65	10	29.8	4	(AP)					
10169		RAMY	10	24	1237	S18	E80	10	30.6		B	DSO	90	2	3	2
10169		HOLL	10	24	1600	S19	E79	10	30.7		B	DSO	120	2	4	3
10169		LEAR	10	25	0010	S20	E72	10	30.5		B	DAO	120	2	5	4
10169		VORO	10	25	0112	S19	E71	10	30.5			HAX	55	2	3	2
10169		SVTO	10	25	1220	S17	E65	10	30.4		B	CSO	70	2	5	2
10169		RAMY	10	25	1258	S18	E66	10	30.6		B	DSO	100	2	5	3
10169		HOLL	10	25	1530	S20	E64	10	30.5		B	DAO	60	2	3	3
10169		TACH	10	26	0536	S17	E56	10	30.5			HA	198	2	3	3
10169		RAMY	10	26	1232	S19	E53	10	30.6		B	DSO	100	2	4	3
10169		LEAR	10	27	0010	S19	E45	10	30.4		B	DSO	50	2	2	2
10169		TACH	10	27	0639	S19	E44	10	30.6			HA	62	2	1	3
10169		SVTO	10	27	0724	S18	E43	10	30.6		B	DSO	70	2	4	3
10169		RAMY	10	27	1230	S19	E39	10	30.5		B	DSO	50	2	3	3
10169		HOLL	10	27	1506	S18	E37	10	30.4		B	CSO	40	4	3	2
10169	31493	MWIL	10	27	1600	S19	E37	10	30.5	4	(BP)					
10169		LEAR	10	28	0057	S21	E32	10	30.5		B	DAO	90	4	6	2
10169		TACH	10	28	0602	S21	E28	10	30.4			CAI	78	6	3	3
10169		SVTO	10	28	0850	S19	E30	10	30.6		B	DSO	70	6	8	2
10169		RAMY	10	28	1213	S20	E27	10	30.6		B	DSO	60	6	5	3
10169	31493	MWIL	10	28	1500	S20	E25	10	30.5	5	(BG)					
10169		HOLL	10	28	1755	S20	E24	10	30.6		B	DAO	20	15	6	3
10169		LEAR	10	29	0050	S20	E19	10	30.5		B	DAO	50	7	5	3
10169		VORO	10	29	0351	S17	E16	10	30.4			HAX	37	19		2
10169		VORO	10	29	0351	S19	E18	10	30.5			HRX	18	2		2
10169		VORO	10	29	0351	S22	E18	10	30.5			CAI	42	16	3	2
10169		SVTO	10	29	0700	S19	E16	10	30.5		B	DSO	50	11	7	3
10169		TACH	10	29	0719	S20	E16	10	30.5			BRI	12	6	5	4
10169		RAMY	10	29	1225	S20	E14	10	30.6		B	DSO	60	8	7	3
10169		HOLL	10	29	1452	S20	E12	10	30.5		B	DAO	70	8	7	3
10169	31493	MWIL	10	29	1545	S20	E12	10	30.6	5	(BF)					
10169		VORO	10	29	2256	S17	E05	10	30.3			HRX	30	10		2
10169		VORO	10	29	2256	S18	E07	10	30.5			HRX	14	6		2
10169		LEAR	10	30	0030	S20	E06	10	30.5		B	DSO	30	8	6	2
10169		TACH	10	30	0521	S20	E05	10	30.6			BRI	43	5	5	3
10169		SVTO	10	30	0730	S20	E05	10	30.7		B	DAO	50	6	7	3
10169		RAMY	10	30	1223	S20	E01	10	30.6		B	DAO	80	5	6	3
10169		HOLL	10	30	1450	S21	W02	10	30.5		B	CRX	60	11	10	3
10169	31493	MWIL	10	30	1530	S20	W02	10	30.5	4	(BG)					
10169		LEAR	10	31	0220	S19	W09	10	30.4		B	DSO	30	3	4	1
10169		RAMY	11	01	1120	S19	W26	10	30.6		A	AXX		2	1	3
10170		SVTO	10	25	1220	S13	E68	10	30.6		A	AXX		1		2
10170		RAMY	10	25	1258	S11	E71	10	30.9		A	HSX	30	1	2	3
10170		HOLL	10	25	1530	S12	E70	10	30.9		A	HSX	40	1	1	3
10170		TACH	10	26	0536	S11	E61	10	30.8			HSX	65	1	1	3
10170		RAMY	10	26	1232	S12	E59	10	31.0		B	CSO	30	6	5	3
10170		LEAR	10	27	0010	S13	E52	10	30.9		B	CAO	40	3	5	2
10170		TACH	10	27	0639	S12	E48	10	30.9			AR	23	3	2	3
10170		SVTO	10	27	0724	S11	E46	10	30.8		B	CRO	10	2	1	3
10170		RAMY	10	27	1230	S12	E44	10	30.8		B	DSO	30	2	3	3
10170		HOLL	10	27	1506	S12	E42	10	30.8		B	CAO	30	3	4	2
10170	31494	MWIL	10	27	1600	S12	E42	10	30.8	4	(AP)					
10170		LEAR	10	28	0057	S13	E37	10	30.8		B	CAO	20	3	3	2
10170		TACH	10	28	0602	S12	E33	10	30.7			AR	4	2	3	3
10170	31494	MWIL	10	28	1500	S12	E28	10	30.7	4	(AP)					
10170		HOLL	10	28	1755	S12	E27	10	30.8		B	BXO	40	3	3	3
10170		LEAR	10	29	0050	S13	E23	10	30.8		B	CAO	20	3	2	3
10170		VORO	10	29	0351	S12	E21	10	30.7			BRO	8	2	2	2
10170		TACH	10	29	0719	S12	E19	10	30.7			AR	3	2	1	4
10170		HOLL	10	29	1452	S12	E14	10	30.7		A	AXX		1		3
10170	31494	MWIL	10	29	1545	S12	E15	10	30.8	4	(AP)					
10170		VORO	10	29	2256	S11	E09	10	30.6			ARX	5	13		2

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Mo	Day	Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10170		LEAR	10	30	0030	S12	E09	10	30.7		B	CSO	10	4	3	2
10178		LEAR	10	31	0220	N01	W04	10	30.8		B	DAO	30	5	4	1
10178		TACH	10	31	0453	N01	W04	10	30.9			AR	2	3	3	3
10178		SVTO	10	31	0724	S01	W05	10	30.9		B	BXO	20	5	4	2
10178		RAMY	10	31	1221	N01	W09	10	30.8		B	DAO	50	3	4	3
10178	31503	MWIL	10	31	1530	N01	W12	10	30.7	5	(BG)					
10178		HOLL	10	31	1903	N01	W13	10	30.8		B	DAO	70	13	6	3
10178		LEAR	11	01	0015	N02	W16	10	30.9		B	DAO	70	8	5	3
10178		VORO	11	01	0044	N00	W15	10	31.0			BRI	18	8	3	3
10178		VORO	11	01	0044	N02	W17	10	30.9			CAI	62	9	3	3
10178		TACH	11	01	0503	N01	W18	10	31.0			BRO	19	4	4	4
10178		SVTO	11	01	0840	N01	W24	10	30.7		A	HSX	50	3	2	2
10178		RAMY	11	01	1120	S01	W23	10	30.8		B	DAO	90	12	6	3
10178	31503	MWIL	11	01	1545	N01	W26	10	30.8	5	(BP)					
10178		LEAR	11	02	0020	N02	W32	10	30.7		B	DAO	60	10	7	4
10178		VORO	11	02	0246	N03	W33	10	30.7			DAI	138	13	5	3
10178		TACH	11	02	0605	N02	W35	10	30.7			CAI	150	9	6	2
10178		SVTO	11	02	0639	N01	W36	10	30.7		B	DSO	140	7	8	3
10178		RAMY	11	02	1236	N01	W39	10	30.7		B	DAO	110	13	7	3
10178	31503	MWIL	11	02	1545	N02	W42	10	30.6	5	(BP)					
10178		LEAR	11	03	0022	N02	W45	10	30.7		B	DSO	110	12	8	4
10178		RAMY	11	03	1232	N01	W51	10	30.8		B	DAO	120	6	8	3
10178		SVTO	11	03	1330	N03	W56	10	30.5		B	CSO	70	2	2	2
10178		HOLL	11	03	1450	N03	W55	10	30.6		B	CAO	110	5	8	3
10178	31503	MWIL	11	03	1545	N02	W54	10	30.7	5	(BP)					
10178		LEAR	11	04	0100	N04	W62	10	30.5		B	DAO	80	2	4	1
10178		VORO	11	04	0158	N03	W63	10	30.5			HHX	221	3	2	3
10178		SVTO	11	04	0855	N02	W69	10	30.3		A	HAX	60	1	3	3
10178		RAMY	11	04	1223	N01	W72	10	30.2		A	HAX	170	1	2	4
10178		VORO	11	05	0008	N03	W75	10	30.5			HAX	166	3		3
10178		LEAR	11	05	0040	N04	W75	10	30.5		A	HAX	120	1	2	4
10178		RAMY	11	05	1150	N01	W80	10	30.6		A	HSX	60	1	3	4
10171		RAMY	10	25	1258	N12	E80	10	31.6		A	HSX	60	1	2	3
10171		HOLL	10	25	1530	N09	E81	10	31.7		A	HAX	60	1	1	3
10171		TACH	10	26	0536	N11	E74	10	31.8			HSX	170	1	2	3
10171		RAMY	10	26	1232	N10	E70	10	31.8		A	HSX	60	1	2	3
10171		LEAR	10	27	0010	N09	E65	10	31.9		A	HSX	40	1	2	2
10171		TACH	10	27	0639	N10	E62	10	31.9			HSX	106	1	2	3
10171		SVTO	10	27	0724	N12	E60	10	31.8		A	HSX	80	1	2	3
10171		RAMY	10	27	1230	N11	E58	10	31.9		A	HSX	50	1	1	3
10171		HOLL	10	27	1506	N10	E56	10	31.8		A	HAX	70	1	1	2
10171	31495	MWIL	10	27	1600	N10	E55	10	31.8	5	(AP)					
10171		LEAR	10	28	0057	N09	E51	10	31.9		A	HAX	80	1	2	2
10171		TACH	10	28	0602	N10	E47	10	31.8			HA	88	2	2	3
10171		SVTO	10	28	0850	N12	E47	10	31.9		A	HSX	60	1	1	2
10171		RAMY	10	28	1213	N11	E45	10	31.9		A	HSX	50	1	2	3
10171	31495	MWIL	10	28	1500	N10	E43	10	31.8	5	(AP)					
10171		HOLL	10	28	1755	N10	E41	10	31.8		A	HAX	70	3	2	3
10171		LEAR	10	29	0050	N09	E38	10	31.9		A	HSX	60	2	2	3
10171		VORO	10	29	0351	N10	E35	10	31.8			HAX	76	6		2
10171		SVTO	10	29	0700	N13	E33	10	31.8		A	HSX	70	3	2	3
10171		TACH	10	29	0719	N10	E34	10	31.8			HSX	66	1	1	4
10171		RAMY	10	29	1225	N11	E31	10	31.8		A	HAX	70	1	1	3
10171		HOLL	10	29	1452	N11	E29	10	31.8		A	HAX	70	2	2	3
10171	31495	MWIL	10	29	1545	N10	E30	10	31.9	4	(AP)					
10171		VORO	10	29	2256	N10	E25	10	31.8			HAX	50	3		2
10171		LEAR	10	30	0030	N10	E25	10	31.9		A	HAX	50	3	2	2
10171		TACH	10	30	0521	N10	E22	10	31.9			HR	81	3	2	3
10171		SVTO	10	30	0730	N12	E22	11	1.0		A	HAX	40	2	2	3
10171		RAMY	10	30	1223	N11	E18	10	31.9		A	HAX	60	2	2	3
10171		HOLL	10	30	1450	N10	E17	10	31.9		B	CAO	50	6	2	3
10171	31495	MWIL	10	30	1530	N10	E17	10	31.9	5	(AP)					
10171		LEAR	10	31	0220	N10	E11	10	31.9		A	HAX	40	2	2	1
10171		TACH	10	31	0453	N11	E10	10	31.9			HA	36	2	1	3
10171		SVTO	10	31	0724	N10	E08	10	31.9		B	CSO	40	2	2	2
10171		RAMY	10	31	1221	N11	E05	10	31.9		A	HSX	40	1	1	3
10171	31495	MWIL	10	31	1530	N10	E03	10	31.9	5	(AP)					

S U N S P O T G R O U P S
(Ordered by Central Meridian Passage Date)

OCTOBER 2002

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo	Day	(UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
10171		HOLL	10	31	1903	N10	E02	10	31.9		A	HSX	50	1	2	3
10171		LEAR	11	01	0015	N09	W02	10	31.9		A	HSX	20	1	1	3
10171		VORO	11	01	0044	N11	W01	10	31.9			HRX	26	5		3
10171		SVTO	11	01	0840	N10	W06	10	31.9		A	HSX	20	1	1	2
10171		RAMY	11	01	1120	N10	W08	10	31.9		B	CSO	10	3	3	3
10171	31495	MWIL	11	01	1545	N10	W10	10	31.9	5	(BF)					
10171		LEAR	11	02	0020	N11	W15	10	31.9		A	HSX	10	2	1	4
10171		TACH	11	02	0605	N11	W14	11	1.2			BXO	5	2	6	2
10171		RAMY	11	02	1236	N10	W21	10	31.9		A	HSX	10	1	1	3
10171	31495	MWIL	11	02	1545	N13	W22	11	1.0	4	(AP)					

Stations reporting:

HOLL = Holloman
KAND = Kandilli
LEAR = Learmonth
MWIL = Mt. Wilson
PALE = Palehua
RAMY = Ramey
SVTO = San Vito
TACH = Tashkent
VORO = Voroshilov