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

NOVEMBER 2003

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
10495		LEAR	10	29	0100	S20	E45	11	1.5		B	BXO	20	5	4	2
10495		VORO	10	29	0517	S23	E41	11	1.4			BSO	49	3	4	3
10495		TACH	10	29	0809	S22	E39	11	1.3			BXO	32	2	5	4
10495		KAND	10	29	1125	S23	E38	11	1.4			DSO		3	5	4
10495	31928	MWIL	10	29	1530	S23	E35	11	1.3	5	(B)					
10495		HOLL	10	29	1535	S25	E35	11	1.4		B	DAO	160	12	5	3
10495		VORO	10	29	2317	S22	E31	11	1.3			DAI	219	6	4	4
10495		LEAR	10	30	0125	S22	E32	11	1.5		B	DAO	180	15	7	2
10495		SVTO	10	30	0750	S22	E27	11	1.4		B	DSO	260	7	9	3
10495		VORO	10	30	2332	S22	E17	11	1.3			DAI	284	11	6	4
10495		LEAR	10	31	0058	S22	E18	11	1.4		B	DSO	250	14	7	4
10495		TACH	10	31	0536	S22	E14	11	1.3			DAI	265	14	6	3
10495		KAND	10	31	0810	S22	E14	11	1.4			DSO		12	8	3
10495		SVTO	10	31	0812	S22	E14	11	1.4		B	DAO	210	11	8	3
10495		HOLL	10	31	1538	S22	E08	11	1.3		B	DSI	160	23	8	3
10495		VORO	11	01	0025	S22	E04	11	1.3			DAI	255	10	7	3
10495		LEAR	11	01	0033	S23	E04	11	1.3		B	DSO	230	18	9	4
10495		SVTO	11	01	1027	S23	W02	11	1.3		B	DSO	260	7	10	2
10495		KAND	11	01	1043	S23	W02	11	1.3			DSI		9	9	3
10495		HOLL	11	01	1615	S22	W06	11	1.2		B	DAI	170	12	9	3
10495		LEAR	11	02	0221	S23	W09	11	1.4		B	DSO	200	17	9	2
10495		KAND	11	02	0710	S23	W13	11	1.3			DSO		7	10	3
10495		HOLL	11	02	1545	S22	W19	11	1.2		B	DSO	90	8	9	4
10495		VORO	11	03	0028	S22	W22	11	1.3			DHO	188	4	8	3
10495		LEAR	11	03	0045	S23	W22	11	1.3		B	DSO	90	6	9	4
10495		KAND	11	03	0730	S23	W25	11	1.4			DSO		4	10	2
10495		SVTO	11	03	1130	S23	W28	11	1.3		B	DSO	140	4	9	3
10495		HOLL	11	03	1516	S22	W30	11	1.3		B	DAO	110	4	9	3
10495		VORO	11	03	2334	S22	W34	11	1.4			CSO	167	6	7	3
10495		LEAR	11	04	0047	S22	W35	11	1.3		B	DSO	140	5	9	2
10495		SVTO	11	04	0812	S23	W37	11	1.5		B	DSO	170	4	10	2
10495		HOLL	11	04	1525	S22	W45	11	1.2		B	DHO	90	10	10	4
10495		VORO	11	05	0004	S22	W47	11	1.4			CSO	135	2	7	3
10495		LEAR	11	05	0057	S22	W48	11	1.3		B	CSO	100	2	7	4
10495		SVTO	11	05	0920	S23	W49	11	1.6		B	ESO	110	8	12	3
10495		HOLL	11	05	1601	S22	W57	11	1.3		B	CAO	120	5	10	4
10495		VORO	11	05	2327	S22	W60	11	1.4			CAO	117	2	6	3
10495		LEAR	11	06	0104	S21	W64	11	1.1		B	CSO	90	2	8	4
10495		SVTO	11	06	0740	S22	W68	11	1.1		A	HSX	100	1	3	3
10495	31928	MWIL	11	06	1600	S21	W71	11	1.2	4	(AP)					
10495		HOLL	11	06	1935	S21	W69	11	1.5		A	HAX	120	1	2	3
10495		LEAR	11	07	0040	S18	W77	11	1.2		A	HSX	120	1	3	4
10495		VORO	11	07	0102	S22	W75	11	1.3			CAO	37	2	6	2
10495A		LEAR	11	02	0221	N07	W04	11	1.8		A	AXX		1		2
10495A		LEAR	11	04	0047	N09	W31	11	1.7		A	AXX	10	3	2	2
10495A		HOLL	11	04	1525	N10	W42	11	1.5		B	BXO	10	3	6	4
10496		VORO	10	29	0517	S09	E50	11	2.0			AXX	11	1		3
10496		TACH	10	29	0809	S06	E48	11	1.9			AXX	8	1	1	4
10496		KAND	10	29	1125	S08	E47	11	2.0			AX		1		4
10496	31929	MWIL	10	29	1530	S09	E45	11	2.0	4	(AP)					
10496		HOLL	10	29	1535	S08	E45	11	2.0		A	AXX		2	1	3
10496		VORO	10	29	2317	S08	E40	11	2.0			AXX	4	2		4
10496		LEAR	10	30	0125	S07	E39	11	2.0		A	HRX	20	2	1	2
10496		VORO	10	30	2332	S09	E25	11	1.8			AXX	2	1		4
10496		LEAR	10	31	0058	S05	E18	11	1.4		B	BXO	10	6	2	4
10496		LEAR	10	31	0058	S08	E25	11	1.9		A	AXX	10	1	1	4
10496		KAND	10	31	0810	S06	E14	11	1.4			AX		1		3
10496		HOLL	10	31	1538	S09	E24	11	2.4		A	AXX		1	1	3
10496		HOLL	10	31	1538	S12	E13	11	1.6		B	CSO	20	4	4	3
10496		VORO	11	01	0025	S08	E13	11	2.0			AXX	5	1		3
10496		VORO	11	01	0025	S11	E06	11	1.5			AXX	2	1		3
10496		LEAR	11	01	0033	S10	E10	11	1.8		B	CRO	20	8	7	4
10496		HOLL	11	01	1615	S09	E04	11	2.0		A	AXX	10	6	2	3
10496		LEAR	11	02	0221	S09	E03	11	2.3		A	HRX	10	2	1	2
10496		LEAR	11	03	0045	S09	W03	11	2.8		B	BXO	10	2	2	4
10496		LEAR	11	03	0045	S10	W12	11	2.1		B	BXO	10	2	2	4
10496		HOLL	11	03	1516	S08	W17	11	2.4		A	AXX	10	2	2	3

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10496		LEAR	11	04	0047	S04	W22	11	2.4		A	AXX	10	1	1	2
10496C		VORO	11	05	0004	S21	W32	11	2.5			AXX	9	2		3
10496C		LEAR	11	05	0057	S21	W33	11	2.5		A	AXX	10	1	1	4
10496C		VORO	11	05	2327	S21	W46	11	2.4			AXX	11	1		3
10496A		LEAR	11	02	0221	S08	E26	11	4.0		B	BXO	10	3	2	2
10496A		KAND	11	02	0710	S08	E23	11	4.0			AX		2	1	3
10496A		HOLL	11	02	1545	S08	E18	11	4.0		A	HSX	10	1	1	4
10496A		VORO	11	03	0028	S08	E13	11	4.0			BRI	18	5	2	3
10496A		LEAR	11	03	0045	S08	E13	11	4.0		A	AXX	10	1	1	4
10496A		HOLL	11	03	1516	S08	E04	11	3.9		A	AXX		1	1	3
10496B		LEAR	11	04	0047	N11	E07	11	4.5		A	AXX	10	1	1	2
10496B		LEAR	11	04	0047	N12	E01	11	4.1		B	BXO	10	2	3	2
10496D		HOLL	11	04	1525	N12	E30	11	6.9		A	AXX		1	1	4
10498		LEAR	11	08	0222	S03	W15	11	7.0		A	AXX	10	1	1	2
10498		SVTO	11	08	0730	S04	W18	11	7.0		A	AXX	10	2	1	3
10498		HOLL	11	08	1458	S03	W22	11	7.0		B	DAO	30	7	4	2
10498		VORO	11	08	2355	S03	W24	11	7.2			CAI	44	8	7	3
10498		LEAR	11	09	0030	S04	W27	11	7.0		B	DRO	20	4	3	2
10498		TACH	11	09	0639	S04	W31	11	6.9			BRI	14	6	3	3
10498		SVTO	11	09	0925	S04	W33	11	6.9		B	DSO	30	5	4	2
10498		HOLL	11	09	1525	S04	W33	11	7.2		B	DAO	30	8	3	3
10498		VORO	11	09	2355	S04	W40	11	7.0			HAX	124	11	3	3
10498		LEAR	11	10	0046	S04	W40	11	7.0		B	DSO	100	6	3	4
10498		SVTO	11	10	0700	S04	W45	11	6.9		B	DAO	140	8	4	3
10498		HOLL	11	10	1502	S04	W48	11	7.0		B	DAO	140	6	5	2
10498	31931	MWIL	11	10	1530	S04	W49	11	7.0	5	(B)					
10498		VORO	11	11	0001	S03	W53	11	7.0			DAI	220	6	3	3
10498		LEAR	11	11	0104	S04	W56	11	6.8		B	DAO	240	5	6	3
10498		TACH	11	11	0559	S03	W57	11	7.0			CSO	254	3	3	3
10498		SVTO	11	11	0700	S05	W57	11	7.0		B	DAO	200	4	5	3
10498	31931	MWIL	11	11	1600	S03	W63	11	6.9	5	(B)					
10498		HOLL	11	11	1958	S04	W64	11	7.0		B	DAO	120	3	6	2
10498		VORO	11	12	0007	S03	W66	11	7.1			DAI	253	3	4	3
10498		LEAR	11	12	0101	S02	W68	11	7.0		B	DSO	190	5	5	4
10498		KAND	11	12	0915	S03	W74	11	6.8			DSO		2	6	1
10498		VORO	11	13	0000	S03	W79	11	7.1			DAI	119	3	3	3
10498		LEAR	11	13	0230	S02	W80	11	7.1		B	DAO	110	2	5	2
10499		HOLL	11	07	1520	S17	W02	11	7.5		B	BXO	10	2	3	3
10499	31930	MWIL	11	07	1600	S17	W03	11	7.4	3	(B)					
10499		HOLL	11	08	1458	S17	W15	11	7.5		B	DSO	30	5	4	2
10499		VORO	11	08	2355	S16	W20	11	7.5			DAO	84	4	4	3
10499		LEAR	11	09	0030	S17	W20	11	7.5		B	DAO	40	3	5	2
10499		TACH	11	09	0639	S17	W24	11	7.4			CSO	59	2	5	3
10499		SVTO	11	09	0925	S16	W25	11	7.5		B	DSO	60	3	8	2
10499		HOLL	11	09	1525	S16	W29	11	7.4		B	DAO	20	6	7	3
10499		VORO	11	09	2355	S17	W34	11	7.4			CAO	63	6	7	3
10499		LEAR	11	10	0046	S17	W35	11	7.4		B	DSO	60	2	8	4
10499		SVTO	11	10	0700	S18	W37	11	7.5		B	DSO	50	3	8	3
10499		HOLL	11	10	1502	S17	W42	11	7.4		B	CAO	20	4	9	2
10499	31930	MWIL	11	10	1530	S17	W43	11	7.4	5	(BF)					
10499		VORO	11	11	0001	S16	W47	11	7.4			BRO	33	3	9	3
10499		LEAR	11	11	0104	S17	W48	11	7.4		B	BXO	40	3	8	3
10499		TACH	11	11	0559	S16	W51	11	7.4			BRO	48	4	9	3
10499		SVTO	11	11	0700	S18	W56	11	7.0		B	CRO	20	2	1	3
10499	31930	MWIL	11	11	1600	S17	W57	11	7.3	4	(B)					
10499		HOLL	11	11	1958	S16	W58	11	7.4		B	CSO	20	3	9	2
10499		VORO	11	12	0007	S17	W61	11	7.4			BXO	17	2	9	3
10499		LEAR	11	12	0101	S16	W62	11	7.3		B	DRO	20	2	9	4
10499A		HOLL	11	07	1520	S15	E08	11	8.2		A	AXX		1	1	3
10500		VORO	11	08	2355	S08	W10	11	8.2			AXX	15	4	2	3
10500		LEAR	11	09	0030	S08	W10	11	8.3		B	CAO	20	6	3	2

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10500		TACH	11	09	0639	S08	W14	11	8.2			CSO	48	3	1	3
10500		SVTO	11	09	0925	S07	W16	11	8.2		B	CAO	30	6	5	2
10500		HOLL	11	09	1525	S08	W18	11	8.3		B	DAO	30	9	4	3
10500		VORO	11	09	2355	S08	W24	11	8.2			CRI	42	11	4	3
10500		LEAR	11	10	0046	S08	W25	11	8.1		B	CAO	40	8	5	4
10500		SVTO	11	10	0700	S09	W27	11	8.3		B	DSO	40	3	6	3
10500		HOLL	11	10	1502	S09	W32	11	8.2		B	BXO	30	10	7	2
10500	31932	MWIL	11	10	1530	S08	W32	11	8.2	4	(B)					
10500		VORO	11	11	0001	S09	W38	11	8.1			BRO	31	8	7	3
10500		LEAR	11	11	0104	S08	W38	11	8.2		B	CSO	30	6	6	3
10500		TACH	11	11	0559	S08	W41	11	8.2			BRO	15	4	6	3
10500		SVTO	11	11	0700	S10	W42	11	8.1		B	CRO	30	3	7	3
10500	31932	MWIL	11	11	1600	S07	W46	11	8.2	4	(B)					
10500		HOLL	11	11	1958	S10	W47	11	8.3		A	AXX		1	1	2
10500		LEAR	11	12	0101	S07	W49	11	8.4		B	BXO	10	2	1	4
10504		HOLL	11	15	1900	N05	W35	11	13.2		A	AXX	10	3	3	4
10504		VORO	11	16	0112	N05	W38	11	13.2			AXX	13	1		2
10504		LEAR	11	16	0135	N05	W39	11	13.1		B	CAO	10	3	3	1
10504		SVTO	11	16	0816	N03	W44	11	13.0		A	AXX		1		3
10504		KAND	11	16	0845	N04	W42	11	13.2			AX		1		4
10504		HOLL	11	16	1517	N05	W47	11	13.1		A	AXX		1	1	3
10504		VORO	11	17	2344	N03	W57	11	13.7			AXX	3	1		3
10504		LEAR	11	18	0251	N04	W58	11	13.8		B	DAO	30	4	3	3
10504		TACH	11	18	0535	N04	W62	11	13.6			DAO	6	18	1	3
10504	31938	MWIL	11	18	1530	N04	W66	11	13.7	4	(B)					
10504		LEAR	11	19	0003	N05	W72	11	13.6		B	CRO	30	3	2	4
10504		VORO	11	19	0017	N03	W71	11	13.7			AXX	28	1		3
10503	31933	MWIL	11	14	1530	N18	E25	11	16.5	4	(AF)					
10503		HOLL	11	15	1900	N17	E11	11	16.6		B	DAO	20	7	3	4
10503		VORO	11	16	0112	N17	E07	11	16.6			BRO	16	2	4	2
10503		LEAR	11	16	0135	N17	E08	11	16.7		B	CAO	20	4	5	1
10503		SVTO	11	16	0816	N17	E03	11	16.6		B	CRO	10	2	4	3
10503		KAND	11	16	0845	N17	E03	11	16.6			CSO		2	4	4
10503		HOLL	11	16	1517	N18	W01	11	16.6		B	CSO	10	4	5	3
10503	31933	MWIL	11	16	1630	N17	W01	11	16.6	4	(B)					
10503		VORO	11	16	2338	N16	W06	11	16.5			BXO	10	3	4	2
10503		LEAR	11	17	0035	N18	W05	11	16.6		B	BXO	20	4	6	3
10503		KAND	11	17	0805	N17	W10	11	16.6			BXO		2	5	3
10503		SVTO	11	17	0820	N17	W13	11	16.3		A	AXX		1		3
10503		HOLL	11	17	1511	N18	W17	11	16.3		B	BXO	10	2	4	2
10503		VORO	11	17	2344	N17	W18	11	16.6			BXO	11	2	3	3
10502A		VORO	11	16	0112	S13	E15	11	17.2			AXX	10	1		2
10502		LEAR	11	14	0006	N05	E54	11	18.0		B	BXO	20	3	3	3
10502		VORO	11	14	0053	N05	E53	11	18.0			AXX	13	2	1	3
10502		TACH	11	14	0635	N05	E48	11	17.9			AXX	11	1	1	3
10502		KAND	11	14	0840	N06	E49	11	18.0			AX		1		4
10502	31934	MWIL	11	14	1530	N05	E44	11	17.9	4	(AP)					
10502		VORO	11	15	0010	N06	E39	11	17.9			AXX	5	1		3
10502		LEAR	11	15	0113	N05	E38	11	17.9		B	BXO	10	2	2	2
10502		HOLL	11	15	1900	N04	E34	11	18.3		A	AXX		1	1	4
10502		HOLL	11	17	1511	N07	E08	11	18.2		A	AXX		1	1	2
10502	31944	MWIL	11	20	1530	N03	W40	11	17.6	3	(AP)					
10501		LEAR	11	13	0230	N04	E85	11	19.4		B	DSO	150	2	16	2
10501		SVTO	11	13	0715	N06	E80	11	19.3		B	FSO	340	3	22	3
10501		LEAR	11	14	0006	N03	E74	11	19.5		BG	DKI	450	16	9	3
10501		VORO	11	14	0053	N03	E74	11	19.6			HKX	618	5	1	3
10501		TACH	11	14	0635	N03	E70	11	19.5			HAO	725	4	1	3
10501		KAND	11	14	0840	N03	E72	11	19.7			DKO		6	9	4
10501		SVTO	11	14	0902	N05	E69	11	19.5		B	FAO	230	6	7	3
10501	31935	MWIL	11	14	1530	N03	E65	11	19.5	5	(BG)					
10501		VORO	11	15	0010	N03	E61	11	19.6			HKX	573	7	1	3
10501		LEAR	11	15	0113	N04	E58	11	19.4		BG	DKI	300	10	7	2
10501		KAND	11	15	0720	N04	E58	11	19.6			EKO		9	11	4
10501		SVTO	11	15	0855	N03	E57	11	19.6		B	DAO	270	6	6	2

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10501		HOLL	11	15	1900	N03	E50	11	19.5		BG	DKC	400	19	6	4
10501		VORO	11	16	0112	N03	E47	11	19.6			HKX	423	8	1	2
10501		LEAR	11	16	0135	N03	E48	11	19.6		BG	DAI	350	22	4	1
10501		SVTO	11	16	0816	N04	E43	11	19.5		BG	DKO	360	14	7	3
10501		KAND	11	16	0845	N04	E44	11	19.6			DKI		16	5	4
10501		HOLL	11	16	1517	N03	E39	11	19.5		BG	DKI	400	25	4	3
10501	31935	MWIL	11	16	1630	N03	E39	11	19.6	5	(D)					
10501		VORO	11	16	2338	N03	E34	11	19.5			HKX	514	14	2	2
10501		LEAR	11	17	0035	N03	E34	11	19.6		BG	DKI	340	40	6	3
10501		KAND	11	17	0805	N04	E30	11	19.6			DKI		19	5	3
10501		SVTO	11	17	0820	N05	E30	11	19.6		B	DKO	390	10	9	3
10501		HOLL	11	17	1511	N04	E27	11	19.6		BG	DHI	380	25	8	2
10501	31935	MWIL	11	17	2300	N03	E23	11	19.7	5	(D)					
10501		VORO	11	17	2344	N02	E21	11	19.5			HKX	539	27	2	3
10501		LEAR	11	18	0251	N04	E20	11	19.6		BG	DHI	420	33	10	3
10501		TACH	11	18	0535	N03	E18	11	19.6			ARI	344	2	8	3
10501	31935	MWIL	11	18	1530	N03	E13	11	19.6	5	(D)					
10501		HOLL	11	18	1612	N04	E12	11	19.6		BG	DHI	390	18	9	3
10501		LEAR	11	19	0003	N03	E08	11	19.6		BGD	DHC	400	39	10	4
10501		VORO	11	19	0017	N02	E08	11	19.6			HHX	535	21	2	3
10501		TACH	11	19	0521	N03	E02	11	19.4			DAI	388	11	10	3
10501		KAND	11	19	0745	N02	E04	11	19.6			DKI		12	5	3
10501		SVTO	11	19	0836	N03	E04	11	19.6		B	DKO	420	10	9	3
10501	31935	MWIL	11	19	1530	N03	E00	11	19.6	5	(D)					
10501		HOLL	11	19	1615	N04	W02	11	19.5		BG	DKO	280	7	6	2
10501		LEAR	11	20	0110	N02	W06	11	19.6		BGD	DKI	320	15	5	2
10501		TACH	11	20	0708	N02	W08	11	19.7			CRO	307	6	2	4
10501		KAND	11	20	0825	N02	W10	11	19.6			DKO		10	7	4
10501	31935	MWIL	11	20	1530	N02	W13	11	19.7	5	(D)					
10501		LEAR	11	21	0120	N04	W19	11	19.6		BGD	DKI	280	13	6	2
10501		VORO	11	21	0418	N03	W20	11	19.7			HHX	365	12	3	3
10501		KAND	11	21	0715	N03	W23	11	19.6			DAO		7	4	5
10501	31935	MWIL	11	21	1530	N03	W27	11	19.6	6	(D)					
10501		HOLL	11	21	1610	N04	W28	11	19.6		BG	DKI	330	14	6	3
10501		VORO	11	22	0004	N03	W31	11	19.7			HHX	356	8	3	3
10501		LEAR	11	22	0135	N03	W33	11	19.6		BGD	DKI	240	10	5	3
10501		KAND	11	22	0645	N04	W36	11	19.6			CSO		4	6	4
10501		SVTO	11	22	1135	N03	W38	11	19.6		B	DAO	300	5	6	2
10501		HOLL	11	22	1517	N03	W39	11	19.7		BG	DKI	220	9	7	2
10501		VORO	11	23	0003	N01	W38	11	20.2			AXX	6	1		3
10501		VORO	11	23	0003	N02	W44	11	19.7			HKX	294	6	3	3
10501		LEAR	11	23	0008	N03	W43	11	19.8		BG	DKI	270	9	9	4
10501		SVTO	11	23	0950	N03	W52	11	19.5		B	DSO	180	3	6	3
10501		KAND	11	23	1045	N04	W52	11	19.6			CSO		4	4	5
10501		HOLL	11	23	1526	N03	W54	11	19.6		BG	DKI	280	6	7	3
10501	31935	MWIL	11	23	1530	N03	W54	11	19.6	5	(BP)					
10501		LEAR	11	24	0010	N04	W59	11	19.6		B	CAO	170	3	4	3
10501		VORO	11	24	0036	N03	W58	11	19.7			HKX	282	4	1	2
10501		TACH	11	24	0538	N02	W62	11	19.6			CAO	174	3	2	4
10501		SVTO	11	24	1110	N03	W66	11	19.5		B	DSO	150	3	6	3
10501		HOLL	11	24	1513	N03	W67	11	19.6		B	DAO	140	2	3	4
10501		VORO	11	25	0019	N03	W71	11	19.7			HKX	289	2	1	3
10501		LEAR	11	25	0045	N04	W73	11	19.6		A	HSX	180	1	3	3
10501		TACH	11	25	0649	N02	W76	11	19.6			HHX	232	1	2	4
10501	31935	MWIL	11	25	1545	N04	W82	11	19.5	5	(AF)					
10501		HOLL	11	25	1740	N04	W82	11	19.6		A	HSX	60	1	1	3
10501A	31936	MWIL	11	16	1630	N09	E39	11	19.6	4	(AP)					
10501A	31939	MWIL	11	18	1530	N09	E13	11	19.6	4	(AP)					
10505		VORO	11	16	2338	S25	E66	11	22.1			AXX	7	1		2
10505		LEAR	11	17	0035	S22	E70	11	22.4		B	BXO	30	3	2	3
10505		KAND	11	17	0805	S22	E70	11	22.7			AX		2	2	3
10505		SVTO	11	17	0820	S21	E66	11	22.4		A	AXX		1		3
10505		HOLL	11	17	1511	S23	E63	11	22.5		B	CSO	20	3	3	2
10505	31937	MWIL	11	17	2300	S21	E59	11	22.5	4	(AP)					
10505		VORO	11	17	2344	S22	E57	11	22.4			HRX	33	3		3
10505		LEAR	11	18	0251	S22	E57	11	22.5		B	CRO	40	3	2	3
10505	31937	MWIL	11	18	1530	S22	E50	11	22.5	4	(AP)					

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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
10505		HOLL	11	18	1612	S22	E51	11	22.6		A	HSX	20	1	1	3
10505		LEAR	11	19	0003	S22	E45	11	22.5		B	CRO	30	3	2	4
10505		VORO	11	19	0017	S22	E44	11	22.4			ARX	14	2		3
10505		TACH	11	19	0521	S21	E41	11	22.4			ARO	6	4	2	3
10505		KAND	11	19	0745	S23	E43	11	22.6			BXO		5	2	3
10505	31937	MWIL	11	19	1530	S23	E37	11	22.5	6	(AP)					
10505		LEAR	11	20	0110	S23	E31	11	22.4		B	CRO	30	3	2	2
10505		KAND	11	20	0825	S23	E29	11	22.6			BXO		2	2	4
10505	31937	MWIL	11	20	1530	S24	E25	11	22.6	4	(AP)					
10505		LEAR	11	21	0120	S23	E18	11	22.4		B	CRO	30	3	2	2
10505		VORO	11	21	0418	S21	E17	11	22.5			AXX	10	1		3
10505		KAND	11	21	0715	S23	E17	11	22.6			BXO		2	3	5
10505	31937	MWIL	11	21	1530	S22	E11	11	22.5	4	(AP)					
10505		HOLL	11	21	1610	S22	E11	11	22.5		A	AXX	10	2	1	3
10505		VORO	11	22	0004	S22	E07	11	22.5			AXX	11	1		3
10505		HOLL	11	22	1517	S22	W02	11	22.5		B	BXO	10	3	3	2
10505		VORO	11	23	0003	S22	W08	11	22.4			AXX	4	1		3
10505		LEAR	11	23	0008	S22	W08	11	22.4		B	BXO	10	2	3	4
10505A		TACH	11	24	0538	N03	W23	11	22.5			AXX	3	1	1	4
10505B		TACH	11	24	0538	S24	W15	11	23.1			BRO	6	2	2	4
10506		LEAR	11	18	0251	S23	E82	11	24.4		A	HAX	40	3	4	3
10506	31941	MWIL	11	18	1530	S23	E78	11	24.6	4	(B)					
10506		HOLL	11	18	1612	S23	E76	11	24.5		B	DAO	90	3	6	3
10506		LEAR	11	19	0003	S21	E71	11	24.4		B	EAO	180	18	14	4
10506		VORO	11	19	0017	S23	E71	11	24.5			CAI	96	8	5	3
10506		TACH	11	19	0521	S27	E67	11	24.4			BRO	51	3	10	3
10506		KAND	11	19	0745	S22	E68	11	24.5			DSO		6	5	3
10506		SVTO	11	19	0836	S21	E68	11	24.6		B	BXO	50	3	7	3
10506	31941	MWIL	11	19	1530	S23	E64	11	24.6	4	(B)					
10506		HOLL	11	19	1615	S22	E64	11	24.6		B	DSO	80	6	7	2
10506		LEAR	11	20	0110	S23	E56	11	24.4		B	DSO	120	10	6	2
10506		TACH	11	20	0708	S23	E54	11	24.4			BRI	23	4	2	4
10506		KAND	11	20	0825	S22	E55	11	24.6			DAO		8	7	4
10506	31941	MWIL	11	20	1530	S23	E50	11	24.5	4	(B)					
10506		LEAR	11	21	0120	S22	E45	11	24.5		B	DSO	120	8	7	2
10506		VORO	11	21	0418	S22	E42	11	24.4			CAI	91	13	7	3
10506		KAND	11	21	0715	S22	E43	11	24.6			CSO		11	8	5
10506	31941	MWIL	11	21	1530	S22	E35	11	24.3	4	(BP)					
10506		HOLL	11	21	1610	S21	E35	11	24.3		B	CAO	20	12	3	3
10506		VORO	11	22	0004	S21	E30	11	24.3			CAI	82	9	3	3
10506		LEAR	11	22	0135	S21	E30	11	24.4		B	CAO	100	10	4	3
10506		KAND	11	22	0645	S21	E27	11	24.3			BXO		6	4	4
10506		HOLL	11	22	1517	S22	E23	11	24.4		B	CSO	20	4	3	2
10506		VORO	11	23	0003	S20	E16	11	24.2			BXI	16	5	2	3
10506		LEAR	11	23	0008	S22	E18	11	24.4		B	BXO	40	11	5	4
10506		HOLL	11	23	1526	S23	E08	11	24.2		A	AXX		1	1	3
10506		TACH	11	24	0538	S20	E01	11	24.3			AXX	3	1	1	4
10506		HOLL	11	24	1513	S23	W03	11	24.4		B	CSO	10	2	3	4
10506		VORO	11	25	0019	S21	W05	11	24.6			AXX	10	2	2	3
10506		LEAR	11	25	0045	S22	W06	11	24.6		B	BXO	10	2	3	3
10506		TACH	11	25	0649	S23	W08	11	24.7			BRO	2	2	3	4
10506	31941	MWIL	11	25	1545	S22	W16	11	24.4	4	(AP)					
10506		VORO	11	27	0008	S22	W32	11	24.5			BXO	17	2	4	3
10506		LEAR	11	27	0150	S23	W31	11	24.7		A	AXX		1	1	3
10514	31953	MWIL	11	26	1600	S14	W28	11	24.5	4	(AP)					
10514		VORO	11	27	0008	S14	W33	11	24.5			AXX	7	1		3
10514		LEAR	11	27	0150	S15	W35	11	24.4		A	AXX		1	1	3
10514		SVTO	11	27	0836	S16	W37	11	24.5		A	AXX		1		3
10514	31953	MWIL	11	27	1600	S14	W44	11	24.3	4	(AP)					
10514		LEAR	11	28	0022	S15	W48	11	24.4		A	AXX	10	1	1	3
10507		LEAR	11	18	0251	N09	E87	11	24.6		A	HHX	300	1	5	3
10507		TACH	11	18	0535	N09	E83	11	24.5			HHX	461	1	1	3
10507	31942	MWIL	11	18	1530	N09	E80	11	24.6	5	(D)					
10507	31940	MWIL	11	18	1530	N13	E77	11	24.4	4	(AF)					

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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
10507		HOLL	11	18	1612	N10	E84	11	25.0		B	EKO	360	4	11	3
10507		LEAR	11	19	0003	N08	E75	11	24.6		BGD	DKC	810	15	8	4
10507		VORO	11	19	0017	N11	E74	11	24.6			HKX	1259	9	6	3
10507		TACH	11	19	0521	N10	E70	11	24.5			DAO	1227	4	5	3
10507		KAND	11	19	0745	N09	E73	11	24.8			DKO		7	9	3
10507		SVTO	11	19	0836	N11	E70	11	24.6		B	EKO	1140	8	13	3
10507	31942	MWIL	11	19	1530	N09	E67	11	24.7	5	(D)					
10507	31940	MWIL	11	19	1530	N12	E61	11	24.2	4	(AF)					
10507		HOLL	11	19	1615	N11	E65	11	24.6		B	EKI	680	7	11	2
10507		LEAR	11	20	0110	N07	E61	11	24.6		BGD	DKI	840	22	10	2
10507		TACH	11	20	0708	N10	E59	11	24.7			DAI	450	5	11	4
10507		KAND	11	20	0825	N10	E60	11	24.8			EKO		12	13	4
10507	31942	MWIL	11	20	1530	N09	E54	11	24.7	5	(BG)					
10507	31940	MWIL	11	20	1530	N11	E48	11	24.2	5	(AF)					
10507		LEAR	11	21	0120	N08	E48	11	24.6		BGD	EKI	760	21	11	2
10507		VORO	11	21	0418	N10	E45	11	24.6			HKX	1181	24	10	3
10507		KAND	11	21	0715	N08	E46	11	24.7			EKO		19	11	5
10507	31942	MWIL	11	21	1530	N09	E40	11	24.6	5	(BG)					
10507	31940	MWIL	11	21	1530	N11	E37	11	24.4	4	(AF)					
10507		HOLL	11	21	1610	N09	E40	11	24.7		B	EKI	830	32	11	3
10507		VORO	11	22	0004	N10	E34	11	24.5			HKX	1150	24	10	3
10507		LEAR	11	22	0135	N08	E34	11	24.6		BG	EKI	780	26	11	3
10507		KAND	11	22	0645	N09	E33	11	24.7			EKI		21	15	4
10507		SVTO	11	22	1135	N09	E28	11	24.6		B	EKI	960	19	13	2
10507		HOLL	11	22	1517	N09	E26	11	24.6		BGD	EKC	690	42	13	2
10507		VORO	11	23	0003	N09	E20	11	24.5			HKX	1298	38	10	3
10507		LEAR	11	23	0008	N09	E23	11	24.7		BGD	EKC	1030	58	14	4
10507		SVTO	11	23	0950	N09	E17	11	24.7		B	DKC	760	14	9	3
10507		KAND	11	23	1045	N09	E17	11	24.7			EKI		19	12	5
10507		HOLL	11	23	1526	N09	E14	11	24.7		BGD	EKC	550	47	12	3
10507	31942	MWIL	11	23	1530	N09	E13	11	24.6	5	(D)					
10507	31940	MWIL	11	23	1530	N12	E07	11	24.2	4	(AF)					
10507		LEAR	11	24	0010	N09	E09	11	24.7		BGD	DKC	890	57	10	3
10507		VORO	11	24	0036	N11	E07	11	24.5			HKX	879	15	10	2
10507		TACH	11	24	0538	N10	E08	11	24.8			DAI	878	16	7	4
10507		SVTO	11	24	1110	N10	E03	11	24.7		B	EKI	780	21	11	3
10507		HOLL	11	24	1513	N09	E02	11	24.8		BGD	EKC	590	41	13	4
10507		VORO	11	25	0019	N10	W03	11	24.8			HKX	822	13	6	3
10507		LEAR	11	25	0045	N09	W02	11	24.9		BGD	EKC	720	56	14	3
10507		TACH	11	25	0649	N08	W07	11	24.7			DKC	903	16	13	4
10507	31942	MWIL	11	25	1545	N09	W12	11	24.7	5	(D)					
10507	31940	MWIL	11	25	1545	N14	W16	11	24.4	3	AF					
10507		HOLL	11	25	1740	N09	W12	11	24.8		BGD	EKC	590	26	13	3
10507		LEAR	11	26	0003	N09	W16	11	24.8		BGD	EKC	540	48	12	2
10507		TACH	11	26	0609	N09	W16	11	25.0			CKC	973	13	8	4
10507		HOLL	11	26	1600	N07	W26	11	24.7		BG	EKC	720	42	13	3
10507	31942	MWIL	11	26	1600	N09	W26	11	24.7	5	(D)					
10507		VORO	11	27	0008	N08	W29	11	24.8			DKI	847	18	5	3
10507		LEAR	11	27	0150	N07	W32	11	24.7		BGD	DKI	430	16	6	3
10507		TACH	11	27	0528	N09	W33	11	24.7			DAI	400	20	6	3
10507		SVTO	11	27	0836	N07	W36	11	24.7		B	DKI	720	12	9	3
10507	31942	MWIL	11	27	1600	N09	W39	11	24.7	5	(D)					
10507		HOLL	11	27	1730	N08	W39	11	24.8		BG	DKI	430	12	9	2
10507		LEAR	11	28	0022	N07	W43	11	24.8		BG	DKI	600	25	8	3
10507		TACH	11	28	0628	N08	W45	11	24.9			DAI	575	8	5	2
10507		SVTO	11	28	1125	N07	W51	11	24.6		B	DKO	570	10	9	3
10507		KAND	11	28	1210	N07	W51	11	24.7			DKO		10	7	3
10507		HOLL	11	28	1720	N08	W53	11	24.7		BG	DKO	510	9	6	2
10507	31942	MWIL	11	28	2130	N09	W55	11	24.8	5	D *					
10507		LEAR	11	29	0014	N08	W56	11	24.8		BG	DKI	500	13	6	4
10507		SVTO	11	29	1000	N08	W61	11	24.8		B	DKO	440	7	9	3
10507		KAND	11	29	1130	N08	W62	11	24.8			DKO		11	7	3
10507		HOLL	11	29	1456	N09	W63	11	24.9		BG	DKO	440	13	8	4
10507	31942	MWIL	11	29	1600	N09	W64	11	24.9	4	(BG)					
10507		VORO	11	30	0004	N10	W68	11	24.9			DKI	461	5	4	2
10507		LEAR	11	30	0013	N08	W69	11	24.8		BGD	DKC	400	10	8	4
10507		SVTO	11	30	1209	N08	W77	11	24.7		B	DKO	300	8	8	2
10507		KAND	11	30	1210	N09	W75	11	24.9			DAO		4	7	1
10507	31942	MWIL	11	30	1600	N09	W77	11	24.9	5	(AP)					

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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
10507		HOLL	11	30	1610	N09	W78	11	24.8		BG	DAO	240	4	6	3
10507		VORO	12	01	0006	N11	W78	11	25.2			HKX	306	1		2
10507		LEAR	12	01	0103	N08	W84	11	24.8		B	BXO	150	2	5	2
10506A		VORO	11	22	0004	S17	E38	11	24.9			AXX	9	1		3
10506A		VORO	11	23	0003	S19	E26	11	25.0			AXX	14	3	2	3
10506A		VORO	11	24	0036	S20	E14	11	25.1			AXX	7	5	2	2
10507A		KAND	11	21	0715	S15	E56	11	25.5			BXO		2	9	5
10507A	31947	MWIL	11	21	1530	S13	E46	11	25.1	4	(AP)					
10507A	31946	MWIL	11	21	1530	S17	E40	11	24.7	4	(B)					
10507A		VORO	11	22	0004	S13	E41	11	25.1			HRX	18	2		3
10507A		KAND	11	22	0645	S15	E44	11	25.6			BXO		4	9	4
10507A		VORO	11	23	0003	S14	E28	11	25.1			HRX	18	2		3
10507A		KAND	11	23	1045	S13	E27	11	25.5			BXO		8	9	5
10507A	31947	MWIL	11	23	1530	S13	E22	11	25.3	4	(BP)					
10507A	31946	MWIL	11	23	1530	S17	E17	11	24.9	4	(AF)					
10507A		VORO	11	24	0036	S12	E15	11	25.1			AXX	9	1		2
10507A		TACH	11	24	0538	S14	E16	11	25.4			DAI	113	1	9	4
10507A		VORO	11	25	0019	S12	E02	11	25.2			AXX	7	1		3
10507A		TACH	11	25	0649	S13	E04	11	25.6			BAI	8	6	7	4
10507A	31946	MWIL	11	25	1545	S14	W04	11	25.3	4	(AP)					
10507A		TACH	11	26	0609	S13	W10	11	25.5			BRO	4	2	4	4
10507A	31946	MWIL	11	26	1600	S14	W15	11	25.5	4	(AP)					
10507A		TACH	11	27	0528	S12	W24	11	25.4			ARO	5	3	1	3
10507A	31946	MWIL	11	27	1600	S14	W32	11	25.2	4	(AP)					
10507A		TACH	11	28	0628	S14	W37	11	25.5			AXX	16	2	1	2
10507A		KAND	11	28	1210	S15	W40	11	25.5			BXO		4	4	3
10507A	31946	MWIL	11	28	2130	S14	W46	11	25.4	4	AP					
10507A		LEAR	11	29	0014	S14	W46	11	25.5		B	BXO	20	5	5	4
10508		TACH	11	19	0521	S19	E81	11	25.4			ARO	93	2	1	3
10508		KAND	11	19	0745	S17	E83	11	25.6			DAO		3	4	3
10508		SVTO	11	19	0836	S17	E85	11	25.8		B	EAO	270	4	12	3
10508	31943	MWIL	11	19	1530	S18	E76	11	25.4	4	(BG)					
10508		HOLL	11	19	1615	S17	E75	11	25.4		B	DKO	700	6	9	2
10508		LEAR	11	20	0110	S20	E70	11	25.4		BG	DKO	680	18	10	2
10508		TACH	11	20	0708	S18	E71	11	25.7			DAI	368	5	5	4
10508		KAND	11	20	0825	S19	E70	11	25.7			EKC		20	14	4
10508	31943	MWIL	11	20	1530	S19	E65	11	25.6	4	(BF)					
10508		LEAR	11	21	0120	S18	E59	11	25.5		BG	DKO	540	18	8	2
10508		VORO	11	21	0418	S17	E58	11	25.6			DKI	946	22	6	3
10508		KAND	11	21	0715	S20	E59	11	25.8			FKI		20	18	5
10508	31943	MWIL	11	21	1530	S19	E50	11	25.5	5	(BG)					
10508		HOLL	11	21	1610	S18	E51	11	25.5		BG	FAI	490	33	16	3
10508		VORO	11	22	0004	S17	E47	11	25.6			DAI	784	24	5	3
10508		LEAR	11	22	0135	S17	E44	11	25.4		BG	EAI	580	28	13	3
10508		KAND	11	22	0645	S20	E45	11	25.7			EKI		16	12	4
10508		SVTO	11	22	1135	S18	E42	11	25.7		B	EKO	530	12	13	2
10508		HOLL	11	22	1517	S17	E38	11	25.5		BG	EKC	420	32	11	2
10508		VORO	11	23	0003	S19	E34	11	25.6			DAI	698	36	4	3
10508		LEAR	11	23	0008	S17	E32	11	25.4		BG	EAC	600	61	11	4
10508		SVTO	11	23	0950	S17	E27	11	25.5		B	EKC	390	20	13	3
10508		KAND	11	23	1045	S20	E28	11	25.6			DKI		27	9	5
10508		HOLL	11	23	1526	S16	E25	11	25.5		BGD	EKC	420	56	12	3
10508	31943	MWIL	11	23	1530	S19	E25	11	25.5	4	(BF)					
10508		LEAR	11	24	0010	S18	E19	11	25.4		BG	EKC	550	52	11	3
10508		VORO	11	24	0036	S16	E20	11	25.5			DKI	787	17	5	2
10508		TACH	11	24	0538	S18	E14	11	25.3			DRO	307	2	6	4
10508		SVTO	11	24	1110	S17	E15	11	25.6		B	EKI	450	24	14	3
10508		HOLL	11	24	1513	S17	E14	11	25.7		BG	EKC	370	46	14	4
10508		VORO	11	25	0019	S16	E07	11	25.5			HKX	450	14	5	3
10508		LEAR	11	25	0045	S16	E05	11	25.4		BG	DAC	290	63	10	3
10508		TACH	11	25	0649	S17	E04	11	25.6			DAO	417	14	5	4
10508	31943	MWIL	11	25	1545	S17	W01	11	25.6	5	(BG)					
10508		HOLL	11	25	1740	S17	W02	11	25.6		BG	EAC	240	41	11	3
10508		LEAR	11	26	0003	S17	W03	11	25.8		BG	DKC	260	44	9	2
10508		TACH	11	26	0609	S18	W07	11	25.7			CAI	155	11	5	4
10508	31943	MWIL	11	26	1600	S17	W14	11	25.6	5	(BG)					

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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
10508		HOLL	11	26	1600	S18	W15	11	25.5		BG	EKI	420	37	9	3
10508		VORO	11	27	0008	S17	W18	11	25.6			DAI	443	18	5	3
10508		LEAR	11	27	0150	S17	W20	11	25.5		BG	DAO	170	20	7	3
10508		TACH	11	27	0528	S18	W21	11	25.6			CAI	144	19	5	3
10508		SVTO	11	27	0836	S20	W23	11	25.6		B	DAO	220	11	7	3
10508	31943	MWIL	11	27	1600	S17	W27	11	25.6	5	(BG)					
10508		HOLL	11	27	1730	S20	W28	11	25.6		BG	DAI	120	16	8	2
10508		LEAR	11	28	0022	S20	W32	11	25.6		BG	DAI	230	34	6	3
10508		TACH	11	28	0628	S20	W34	11	25.7			CAI	150	12	4	2
10508		SVTO	11	28	1125	S20	W38	11	25.6		B	DAO	170	9	8	3
10508		KAND	11	28	1210	S20	W39	11	25.5			DAO		9	5	3
10508		HOLL	11	28	1720	S17	W42	11	25.5		BG	DAI	210	21	9	2
10508	31943	MWIL	11	28	2130	S17	W45	11	25.5	5	BG					
10508		LEAR	11	29	0014	S20	W45	11	25.6		BG	DAI	280	30	7	4
10508		SVTO	11	29	1000	S20	W52	11	25.4		B	DAO	140	9	7	3
10508		KAND	11	29	1130	S20	W53	11	25.4			DAC		14	8	3
10508		HOLL	11	29	1456	S18	W53	11	25.6		BG	EAC	260	25	11	4
10508	31943	MWIL	11	29	1600	S17	W55	11	25.5	4	(B)					
10508		VORO	11	30	0004	S20	W57	11	25.6			DAI	275	9	4	2
10508		LEAR	11	30	0013	S20	W58	11	25.6		BG	DAI	240	23	8	4
10508		SVTO	11	30	1209	S21	W66	11	25.4		B	DSO	140	7	9	2
10508		KAND	11	30	1210	S20	W67	11	25.4			DAO		5	7	1
10508	31943	MWIL	11	30	1600	S18	W69	11	25.4	5	(B)					
10508		HOLL	11	30	1610	S19	W70	11	25.3		BG	DAI	280	9	7	3
10508		VORO	12	01	0006	S21	W70	11	25.7			DAI	114	6	7	2
10508		LEAR	12	01	0103	S20	W72	11	25.6		B	CSO	180	15	7	2
10508		SVTO	12	01	0805	S19	W76	11	25.6		B	CSO	60	3	5	3
10508	31943	MWIL	12	01	1530	S21	W82	11	25.4	4	AF					
10507B	31954	MWIL	11	26	1600	N06	W12	11	25.8	4	(AP)					
10508A	31945	MWIL	11	20	1530	S12	E76	11	26.4	3	(AF)					
10508A		KAND	11	21	0715	S11	E71	11	26.6			AX		1		5
10508A	31945	MWIL	11	21	1530	S12	E64	11	26.5	3	(AF)					
10508A		HOLL	11	21	1610	S10	E61	11	26.2		A	AXX	10	1	1	3
10508A		HOLL	11	23	1526	S11	E36	11	26.3		A	AXX	10	2	1	3
10508B		HOLL	11	26	1600	N05	E12	11	27.6		B	BXO		2	1	3
10508B	31955	MWIL	11	26	1600	N11	E08	11	27.3	4	(AP)					
10508B		KAND	11	30	1210	N06	W35	11	27.9			AX		1	1	1
10508B		VORO	12	01	0006	N06	W41	11	28.0			AXX	10	2		2
10511		KAND	11	22	0645	S14	E77	11	28.1			AX		1	1	4
10511		HOLL	11	22	1517	S13	E70	11	27.9		A	AXX		1	1	2
10511		VORO	11	23	0003	S14	E64	11	27.8			AXX	8	1		3
10511		LEAR	11	23	0008	S13	E64	11	27.8		A	AXX	10	2	2	4
10511		HOLL	11	23	1526	S11	E58	11	28.0		A	AXX		1	1	3
10511		VORO	11	24	0036	S12	E49	11	27.7			AXX	1	1		2
10511		VORO	11	25	0019	S13	E36	11	27.7			BRO	7	2	3	3
10511		LEAR	11	25	0045	S14	E36	11	27.7		B	BXO	20	6	6	3
10511		TACH	11	25	0649	S14	E33	11	27.8			BAI	5	3	5	4
10511	31951	MWIL	11	25	1545	S14	E29	11	27.8	5	(B)					
10511		HOLL	11	25	1740	S14	E27	11	27.8		B	DSO	50	5	5	3
10511		LEAR	11	26	0003	S12	E25	11	27.9		B	CSO	40	16	7	2
10511		TACH	11	26	0609	S14	E20	11	27.8			DRI	55	7	4	4
10511	31951	MWIL	11	26	1600	S14	E14	11	27.7	5	(B)					
10511		HOLL	11	26	1600	S15	E14	11	27.7		B	DAO	80	26	7	3
10511		VORO	11	27	0008	S14	E09	11	27.7			DSO	159	5	5	3
10511		LEAR	11	27	0150	S15	E08	11	27.7		B	DSO	50	6	7	3
10511		TACH	11	27	0528	S14	E06	11	27.7			DAI	119	9	6	3
10511		SVTO	11	27	0836	S15	E05	11	27.7		B	DSO	60	5	7	3
10511	31951	MWIL	11	27	1600	S15	E01	11	27.7	4	(BG)					
10511		HOLL	11	27	1730	S15	E01	11	27.8		B	DSO	50	9	8	2
10511		LEAR	11	28	0022	S15	W04	11	27.7		B	DSO	60	7	8	3
10511		TACH	11	28	0628	S14	W07	11	27.7			CRO	53	3	6	2
10511		SVTO	11	28	1125	S14	W11	11	27.6		B	DSO	40	3	9	3
10511		KAND	11	28	1210	S15	W11	11	27.7			DAO		5	8	3
10511		HOLL	11	28	1720	S16	W15	11	27.6		B	CAO	40	8	8	2
10511	31951	MWIL	11	28	2130	S15	W20	11	27.4	4	AP					

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10511		LEAR	11	29	0014	S15	W18	11	27.6		B	CSO	40	10	9	4
10511		SVTO	11	29	1000	S14	W27	11	27.4		B	CSO	30	4	3	3
10511		KAND	11	29	1130	S14	W28	11	27.4			BXO		4	3	3
10511		HOLL	11	29	1456	S13	W28	11	27.5		B	CSO	20	7	5	4
10511	31951	MWIL	11	29	1600	S15	W31	11	27.3	4	(AP)					
10511		VORO	11	30	0004	S13	W34	11	27.4			BRO	20	3	3	2
10511		LEAR	11	30	0013	S15	W33	11	27.5		B	CAO	40	7	6	4
10511		KAND	11	30	1210	S14	W42	11	27.3			BXO		3	3	1
10511	31951	MWIL	11	30	1600	S14	W44	11	27.3	4	(AP)					
10511		HOLL	11	30	1610	S15	W43	11	27.4		B	BXO	10	4	3	3
10511		VORO	12	01	0006	S14	W40	11	28.1			AXX	13	3		2
10511		VORO	12	01	0006	S15	W47	11	27.5			CAI	54	8	5	2
10511		LEAR	12	01	0103	S15	W45	11	27.7		B	BXO	30	9	12	2
10511		SVTO	12	01	0805	S15	W53	11	27.4		B	CRO	50	5	5	3
10511	31951	MWIL	12	01	1530	S13	W58	11	27.4	3	B					
10511		HOLL	12	01	1550	S13	W54	11	27.7		B	DSO	40	4	9	3
10511		LEAR	12	02	0022	S15	W57	11	27.8		B	BXO	40	4	8	3
10511		VORO	12	02	0033	S14	W55	11	28.0			ARX	7	1		3
10511		VORO	12	02	0033	S15	W62	11	27.4			BRO	28	4	3	3
10511		HOLL	12	02	1940	S13	W72	11	27.5		B	BXO	30	7	3	3
10511		VORO	12	03	0033	S14	W73	11	27.6			AXX	6	1		3
10512		VORO	11	25	0019	N06	E45	11	28.4			BRO	25	2	1	3
10512		LEAR	11	25	0045	N05	E43	11	28.2		B	BXO	10	2	2	3
10512		TACH	11	25	0649	N05	E41	11	28.3			CAO	29	2	2	4
10512	31952	MWIL	11	25	1545	N05	E36	11	28.3	5	(B)					
10512		HOLL	11	25	1740	N06	E34	11	28.3		B	CSO	20	4	3	3
10512		LEAR	11	26	0003	N08	E30	11	28.2		B	CSO	30	7	4	2
10512		TACH	11	26	0609	N06	E27	11	28.3			BRO	5	4	3	4
10512		HOLL	11	26	1600	N04	E23	11	28.4		B	CSO	20	6	6	3
10512	31952	MWIL	11	26	1600	N06	E20	11	28.2	4	(B)					
10512		VORO	11	27	0008	N06	E16	11	28.2			BXI	27	4	4	3
10512		LEAR	11	27	0150	N05	E16	11	28.3		B	DSO	30	8	6	3
10512		TACH	11	27	0528	N06	E13	11	28.2			BRO	14	2	5	3
10512		SVTO	11	27	0836	N06	E12	11	28.2		B	CRO	20	4	7	3
10512	31952	MWIL	11	27	1600	N05	E08	11	28.3	4	(B)					
10512		HOLL	11	27	1730	N06	E07	11	28.2		B	CAO	30	7	7	2
10512		LEAR	11	28	0022	N05	E04	11	28.3		B	BXO	30	8	6	3
10512		LEAR	11	29	0014	N05	W08	11	28.4		A	AXX	10	2	1	4
10512		HOLL	11	29	1456	N04	W17	11	28.3		A	AXX		1	1	4
10512	31952	MWIL	11	29	1600	N06	W18	11	28.3	4	(B)					
10512	31952	MWIL	11	30	1600	N07	W36	11	28.0	5	(AP)					
10512		HOLL	11	30	1610	N06	W37	11	27.9		A	HSX	10	1	1	3
10509		VORO	11	23	0003	S10	E79	11	28.9			HAX	117	1		3
10509		LEAR	11	23	0008	S10	E79	11	28.9		A	HSX	30	1	1	4
10509		SVTO	11	23	0950	S09	E76	11	29.1		A	HSX	60	1	2	3
10509		KAND	11	23	1045	S10	E77	11	29.2			HA		1	2	5
10509		HOLL	11	23	1526	S11	E72	11	29.1		A	HSX	30	1	2	3
10509	31948	MWIL	11	23	1530	S10	E70	11	28.9	4	(AP)					
10509		LEAR	11	24	0010	S11	E66	11	29.0		B	CAO	60	2	3	3
10509		VORO	11	24	0036	S10	E67	11	29.0			HAX	112	1		2
10509		TACH	11	24	0538	S09	E63	11	29.0			HS	51	1	1	4
10509		SVTO	11	24	1110	S09	E64	11	29.3		B	CSO	150	3	8	3
10509		HOLL	11	24	1513	S11	E61	11	29.2		B	CSO	120	2	4	4
10509		VORO	11	25	0019	S10	E55	11	29.1			HAX	108	3	2	3
10509		LEAR	11	25	0045	S11	E55	11	29.2		B	CSO	110	15	7	3
10509		TACH	11	25	0649	S10	E50	11	29.0			DAO	7	2	4	4
10509	31948	MWIL	11	25	1545	S10	E48	11	29.3	4	(B)					
10509		HOLL	11	25	1740	S10	E46	11	29.2		B	CSO	120	4	5	3
10509		LEAR	11	26	0003	S08	E42	11	29.1		A	HSX	80	2	2	2
10509		TACH	11	26	0609	S10	E38	11	29.1			HSX	65	2	2	4
10509	31948	MWIL	11	26	1600	S10	E33	11	29.1	5	(AP)					
10509		HOLL	11	26	1600	S13	E29	11	28.8		B	BXO	10	3	3	3
10509		HOLL	11	26	1600	S13	E32	11	29.1		B	CAO	80	7	5	3
10509		VORO	11	27	0008	S10	E27	11	29.0			HSX	80	5		3
10509		LEAR	11	27	0150	S11	E28	11	29.2		B	DSO	20	5	2	3
10509		TACH	11	27	0528	S10	E24	11	29.0			HSX	73	4	2	3
10509		SVTO	11	27	0836	S11	E23	11	29.1		B	DSO	70	3	3	3

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10509	31948	MWIL	11	27	1600	S12	E20	11	29.2	5	(BP)					
10509		HOLL	11	27	1730	S11	E18	11	29.1		B	CKI	80	10	4	2
10509		LEAR	11	28	0022	S11	E14	11	29.1		B	CAO	60	8	5	3
10509		TACH	11	28	0628	S10	E11	11	29.1			HSX	78	3	2	2
10509		SVTO	11	28	1125	S11	E08	11	29.1		B	DSO	70	2	3	3
10509		KAND	11	28	1210	S11	E08	11	29.1			HA		2	2	3
10509		HOLL	11	28	1720	S11	E04	11	29.0		B	DAO	80	2	3	2
10509	31948	MWIL	11	28	2130	S11	E02	11	29.0	5	AP					
10509		LEAR	11	29	0014	S12	E04	11	29.3		B	CAO	70	4	9	4
10509		SVTO	11	29	1000	S11	W05	11	29.0		B	DSO	60	3	3	3
10509		KAND	11	29	1130	S11	W06	11	29.0			CSO		5	5	3
10509		HOLL	11	29	1456	S11	W08	11	29.0		B	DSO	90	6	4	4
10509	31948	MWIL	11	29	1600	S11	W08	11	29.1	5	(BP)					
10509		VORO	11	30	0004	S10	W13	11	29.0			HAX	56	2		2
10509		LEAR	11	30	0013	S11	W09	11	29.3		B	CAO	50	4	9	4
10509		SVTO	11	30	1209	S11	W20	11	29.0		A	HSX	40	3	2	2
10509	31948	MWIL	11	30	1600	S11	W18	11	29.3	4	(BP)					
10509		HOLL	11	30	1610	S11	W22	11	29.0		A	HAX	20	2	2	3
10509		VORO	12	01	0006	S11	W26	11	29.1			HAX	42	1		2
10509		LEAR	12	01	0103	S11	W22	11	29.5		B	CSO	50	6	9	2
10509		SVTO	12	01	0805	S11	W31	11	29.1		B	CSO	40	3	3	3
10509	31948	MWIL	12	01	1530	S11	W36	11	29.0	5	AP					
10509		HOLL	12	01	1550	S09	W35	11	29.1		A	HAX	20	1	1	3
10509		LEAR	12	02	0022	S12	W40	11	29.1		A	HSX	50	1	1	3
10509		VORO	12	02	0033	S11	W40	11	29.1			HAX	29	1		3
10509		TACH	12	02	0640	S10	W45	11	29.0			HSX	25	1	1	2
10509		SVTO	12	02	0755	S11	W45	11	29.0		B	CRO	10	2	2	3
10509	31948	MWIL	12	02	1600	S10	W49	11	29.1	4	(AP)					
10509		HOLL	12	02	1940	S11	W52	11	29.0		A	HAX	20	3	1	3
10509		LEAR	12	03	0030	S12	W54	11	29.0		A	HSX	30	1	2	2
10509		VORO	12	03	0033	S10	W54	11	29.1			ARX	20	1		3
10509		SVTO	12	03	1003	S11	W60	11	29.0		A	HSX	10	1	1	3
10509	31948	MWIL	12	03	1545	S11	W62	11	29.1	4	(AP)					
10509		HOLL	12	03	1739	S10	W66	11	28.9		A	AXX		1	1	3
10509		LEAR	12	04	0046	S10	W68	11	29.0		A	HRX	20	1		2
10509		VORO	12	04	0048	S11	W68	11	29.0			AXX	13	1		3
10509A		LEAR	11	28	0022	S15	E22	11	29.7		A	AXX	10	1	1	3
10509A		LEAR	11	30	0013	S15	W05	11	29.6		B	BXO	10	2	3	4
10510		HOLL	11	23	1526	S20	E78	11	29.6		B	BXO	10	2	1	3
10510	31950	MWIL	11	23	1530	S20	E75	11	29.4	3	(AP)					
10510	31949	MWIL	11	23	1530	S22	E75	11	29.4	2	(AP)					
10510		LEAR	11	24	0010	S22	E72	11	29.5		B	BXO	60	6	8	3
10510		VORO	11	24	0036	S21	E69	11	29.3			AXX	10	1		2
10510		SVTO	11	24	1110	S22	E72	11	30.0		A	HSX	60	1	2	3
10510		HOLL	11	24	1513	S22	E66	11	29.7		B	CSO	50	5	8	4
10510		VORO	11	25	0019	S22	E64	11	29.9			HRX	32	1		3
10510		LEAR	11	25	0045	S22	E60	11	29.6		B	BXO	90	8	9	3
10510		TACH	11	25	0649	S19	E65	11	30.2			BRI	151	5	12	4
10510	31949	MWIL	11	25	1545	S23	E55	11	29.9	4	(BF)					
10510		HOLL	11	25	1740	S23	E54	11	29.9		B	DSO	70	6	4	3
10510		LEAR	11	26	0003	S19	E50	11	29.8		B	CSO	100	22	8	2
10510		TACH	11	26	0609	S22	E46	11	29.8			DRI	82	6	6	4
10510	31949	MWIL	11	26	1600	S23	E40	11	29.7	4	(B)					
10510		HOLL	11	26	1600	S25	E40	11	29.8		B	DAO	110	17	7	3
10510		VORO	11	27	0008	S23	E35	11	29.7			CAI	141	13	5	3
10510		LEAR	11	27	0150	S22	E36	11	29.8		B	DSO	70	12	8	3
10510		TACH	11	27	0528	S23	E32	11	29.7			BRI	67	1	7	3
10510		SVTO	11	27	0836	S23	E33	11	29.9		B	CSO	80	8	9	3
10510	31949	MWIL	11	27	1600	S25	E28	11	29.8	4	(B)					
10510		HOLL	11	27	1730	S24	E27	11	29.8		B	CKO	80	21	8	2
10510		LEAR	11	28	0022	S23	E24	11	29.9		B	DAI	200	32	9	3
10510		TACH	11	28	0628	S23	E21	11	29.9			CRI	80	19	5	2
10510		SVTO	11	28	1125	S25	E18	11	29.9		B	DSO	90	9	9	3
10510		KAND	11	28	1210	S24	E19	11	30.0			DSO		16	8	3
10510		HOLL	11	28	1720	S23	E15	11	29.9		B	DAI	150	26	11	2
10510	31949	MWIL	11	28	2130	S24	E13	11	29.9	4	B					
10510		LEAR	11	29	0014	S23	E11	11	29.8		B	DAO	110	27	9	4

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

NOVEMBER 2003

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
10510		SVTO	11	29	1000	S23	E06	11	29.9		B	DAI	110	16	9	3
10510		KAND	11	29	1130	S23	E05	11	29.9			DRI		22	10	3
10510		HOLL	11	29	1456	S22	E02	11	29.8		B	EAI	70	37	11	4
10510	31949	MWIL	11	29	1600	S24	E02	11	29.8	4	(B)					
10510		VORO	11	30	0004	S23	W02	11	29.8			DKI	104	9	7	2
10510		LEAR	11	30	0013	S23	W03	11	29.8		B	DAI	160	34	10	4
10510		SVTO	11	30	1209	S24	W09	11	29.8		B	BXO	40	10	8	2
10510		KAND	11	30	1210	S25	W09	11	29.8			DSO		12	8	1
10510	31949	MWIL	11	30	1600	S24	W11	11	29.8	4	(B)					
10510		HOLL	11	30	1610	S22	W15	11	29.5		B	EAI	40	30	11	3
10510		VORO	12	01	0006	S22	W19	11	29.6			BXI	10	10	6	2
10510		LEAR	12	01	0103	S23	W18	11	29.7		B	BXO	40	29	11	2
10510		SVTO	12	01	0805	S23	W22	11	29.7		B	CRO	40	9	8	3
10510	31949	MWIL	12	01	1530	S23	W25	11	29.8	4	B					
10510		HOLL	12	01	1550	S23	W26	11	29.7		B	CSO	50	29	14	3
10510		LEAR	12	02	0022	S24	W29	11	29.9		B	BXO	30	19	10	3
10510		VORO	12	02	0033	S23	W30	11	29.8			CRI	75	8	10	3
10510		SVTO	12	02	0755	S21	W38	11	29.5		B	BXO	10	4	3	3
10510	31949	MWIL	12	02	1600	S22	W39	11	29.8	4	(B)					
10510		HOLL	12	02	1940	S22	W45	11	29.5		B	BXO	20	7	9	3
10510		LEAR	12	03	0030	S23	W45	11	29.6		B	BXO	30	7	10	2
10510		VORO	12	03	0033	S21	W44	11	29.7			BXX	20	12	8	3
10510		SVTO	12	03	1003	S22	W53	11	29.4		A	HSX	20	1	2	3
10510	31949	MWIL	12	03	1545	S23	W52	11	29.7	5	(B)					
10510		HOLL	12	03	1739	S23	W55	11	29.6		B	BXO	40	4	3	3
10510		LEAR	12	04	0046	S22	W56	11	29.8		B	EAO	100	7	12	2
10510		VORO	12	04	0048	S23	W56	11	29.8			CRO	46	8	10	3
10510		TACH	12	04	0547	S23	W63	11	29.5			BRO	62	4	5	3
10510		KAND	12	04	1155	S23	W65	11	29.6			BXO		4	7	2
10510	31949	MWIL	12	04	1530	S24	W66	11	29.6	4	(AP)					
10510		HOLL	12	04	1605	S25	W65	11	29.7		B	CSO	120	5	7	4
10510		VORO	12	05	0030	S23	W69	11	29.8			CAI	82	14	9	3
10510		LEAR	12	05	0113	S22	W69	11	29.8		B	BXO	80	5	7	1
10510		KAND	12	05	1010	S24	W77	11	29.6			HS		1	2	2
10510		HOLL	12	05	1708	S25	W78	11	29.8		A	HAX	60	1	2	3
10510	31949	MWIL	12	05	1830	S22	W79	11	29.8	5	AP					
10510		LEAR	12	06	0015	S23	W83	11	29.7		B	BXO	50	5	5	3
10510C	31961	MWIL	12	01	1530	S14	W20	11	30.1	4	AP					
10510B		TACH	11	24	0538	S32	E76	11	30.2			AX	24	1	1	4

Stations reporting:

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