S U N S P O T G R O U P S

(Ordered by Central Meridian Passage Date)

MARCH 2008

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
10984A		SVTO	03	03	0650	S05	E18	03	4.6		A	AXX		1		3
10984A		LEAR	03	03	0728	S04	E16	03	4.5		A	AXX	10	1	1	3
10984A		KAND	03	03	0900	S06	E16	03	4.6			BXO		2	2	3
10984A		HOLL	03	04	1535	S05	W01	03	4.6		A	AXX		1	1	4
10984A		VORO	03	09	2334	S11	W67	03	4.9			AXX	7	3	1	3
10984A		TACH	03	10	0710	S11	W69	03	5.1			BXO	7	2	3	4
10984A		SVTO	03	10	0836	S09	W76	03	4.6		B	CRO	50	2	6	3
10984A		LEAR	03	10	0857	S12	W73	03	4.9		B	BXO	150	2	4	2
10984A		VORO	03	10	2348	S10	W79	03	5.0			AXX	6	1		3
10984B		VORO	03	11	2307	S04	W10	03	11.2			AXX	4	1		3
10986		KAND	03	15	0735	S05	W33	03	12.8			BXO		3	1	3
10986		LEAR	03	15	0845	S05	W33	03	12.9		B	BXO	20	2	3	2
10986		SVTO	03	15	0950	S03	W35	03	12.8		B	BXO	20	2	2	2
10986		LEAR	03	16	0045	S05	W43	03	12.8		B	BXO	20	2	2	3
10986		KAND	03	16	0730	S05	W48	03	12.7			AX		1		4
10986		SVTO	03	16	1128	S02	W51	03	12.7		B	BXO	30	2	1	2
10986		HOLL	03	16	1904	S05	W55	03	12.7		A	HSX	20	1	1	2
10986		VORO	03	17	0018	S05	W58	03	12.7			AXX	6	2		3
10986		LEAR	03	17	0045	S05	W57	03	12.8		A	AXX	10	1	1	2
10986		PURP	03	17	0120	S04	W57	03	12.8			BXO	9	2	2	3
10986		SVTO	03	17	0713	S03	W63	03	12.6		A	AXX		1		3
10986		VORO	03	18	2351	S06	W73	03	13.5			AXX	4	1		3
10986B		HOLL	03	13	1819	N10	E03	03	14.0		A	AXX		1		4
10986A		VORO	03	09	2334	S07	E67	03	15.0			AXX	3	1		3
10987		SVTO	03	23	1509	S08	E55	03	27.7		A	AXX	30	3	3	3
10987		HOLL	03	23	1635	S08	E53	03	27.7		B	CSO	50	4	3	3
10987		PURP	03	24	0110	S07	E49	03	27.7			DSO	23	8	4	4
10987		LEAR	03	24	0144	S07	E48	03	27.7		B	DAC	130	5	5	3
10987		KAND	03	24	0840	S09	E44	03	27.7			DAI		14	5	3
10987		SVTO	03	24	1600	S08	E39	03	27.6		B	BXO	40	6	6	3
10987		HOLL	03	24	1608	S10	E40	03	27.7		B	DSI	170	15	6	3
10987		PURP	03	25	0046	S08	E35	03	27.6			DAC	107	10	7	3
10987		SVTO	03	25	0840	S08	E31	03	27.7		B	CSO	70	10	8	3
10987		HOLL	03	25	1527	S08	E27	03	27.7		B	DAC	180	10	7	3
10987		PURP	03	26	0044	S08	E21	03	27.6			DAI	160	15	7	4
10987		VORO	03	26	0310	S08	E19	03	27.5			DKI	244	12	5	3
10987		TACH	03	26	0611	S08	E17	03	27.5			BRI	34	10	5	4
10987		SVTO	03	26	0855	S08	E16	03	27.6		B	DAO	160	13	8	2
10987		KAND	03	26	0930	S09	E16	03	27.6			DSO		5	7	3
10987		HOLL	03	26	2158	S08	E10	03	27.7		B	DAI	170	16	8	3
10987		PURP	03	27	0053	S08	E07	03	27.6			DAI	117	11	7	3
10987		TACH	03	27	0429	S09	E05	03	27.6			DAI	143	8	6	4
10987		VORO	03	27	0442	S08	E05	03	27.6			DKI	260	6	5	3
10987		KAND	03	27	0845	S08	E03	03	27.6			DAO		10	8	4
10987		SVTO	03	27	0913	S08	E03	03	27.6		B	DAO	180	9	7	2
10987		HOLL	03	27	2236	S07	W05	03	27.6		B	DAI	160	12	8	3
10987		VORO	03	28	0555	S08	W08	03	27.6			DAO	141	9	5	3
10987		SVTO	03	28	0620	S08	W10	03	27.5		B	DSI	130	16	7	3
10987		KAND	03	28	0840	S08	W11	03	27.5			DAO		10	7	4
10987		TACH	03	28	0850	S09	W10	03	27.6			CAI	130	6	5	4
10987		HOLL	03	28	1520	S07	W14	03	27.6		B	DSI	120	12	8	3
10987		SVTO	03	29	0955	S07	W25	03	27.5		B	DSO	90	7	8	2
10987		KAND	03	29	1215	S08	W26	03	27.6			DSO		4	7	3
10987		HOLL	03	29	1609	S06	W27	03	27.6		B	DSO	90	4	7	2
10987		VORO	03	30	0128	S08	W33	03	27.6			DAO	49	7	5	3
10987		LEAR	03	30	0530	S08	W32	03	27.8		B	CAO	130	3	6	2
10987		SVTO	03	30	0645	S06	W37	03	27.5		B	BXO	50	4	8	3
10987		TACH	03	30	0806	S09	W36	03	27.6			BRO	27	4	5	3
10987		HOLL	03	30	1529	S05	W42	03	27.5		B	DSO	70	8	6	2
10987		VORO	03	30	2207	S08	W45	03	27.5			CRI	39	10	5	4
10987		LEAR	03	31	0119	S08	W47	03	27.5		B	BXO	60	7	6	3
10987		SVTO	03	31	0640	S06	W50	03	27.5		B	BXO	60	3	5	2
10987		LEAR	03	31	0919	S08	W47	03	27.9		B	BXO	60	7	6	3
10987		TACH	03	31	0926	S09	W52	03	27.5			BRI	23	4	4	4

S U N S P O T G R O U P S

(Ordered by Central Meridian Passage Date)

MARCH 2008

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
10987		KAND	03	31	1230	S08	W57	03	27.2			CSO		4	2	4
10987		HOLL	03	31	1852	S06	W58	03	27.4		B	CAO	40	4	2	3
10987		VORO	03	31	2227	S08	W61	03	27.4			HRX	45	4		4
10987		LEAR	04	01	0130	S08	W64	03	27.4		A	AXX	20	1		3
10987		TACH	04	01	0419	S08	W64	03	27.5			AXX	11	1	1	4
10987		SVTO	04	01	0935	S07	W68	03	27.4		A	HSX	20	1	2	3
10987		HOLL	04	01	1541	S03	W70	03	27.5		A	HAX	40	2	2	2
10987		VORO	04	01	2149	S08	W74	03	27.5			ARX	11	1		3
10987		LEAR	04	02	0342	S08	W78	03	27.4		A	AXX	60	2	1	2
10988		KAND	03	24	0840	S07	E68	03	29.4			CAO		4	3	3
10988		VORO	03	26	0310	S08	E43	03	29.3			DKI	282	10	7	3
10988		KAND	03	26	0930	S08	E36	03	29.1			DSO		7	8	3
10988		VORO	03	27	0442	S07	E29	03	29.4			DKI	315	7	9	3
10988		KAND	03	27	0845	S09	E27	03	29.4			DAO		16	10	4
10988		VORO	03	28	0555	S08	E16	03	29.4			DKI	351	6	9	3
10988		KAND	03	28	0840	S08	E14	03	29.4			EAO		16	13	4
10988		KAND	03	29	1215	S09	W03	03	29.3			CKO		4	12	3
10988		VORO	03	30	0128	S08	W08	03	29.5			DKO	197	5	9	3
10988		VORO	03	30	2207	S09	W19	03	29.5			CSI	198	10	9	4
10988		KAND	03	31	1230	S08	W33	03	29.0			HA		3	3	4
10988		VORO	03	31	2227	S08	W34	03	29.4			CSI	216	10	5	4
10988		LEAR	04	01	0130	S08	W39	03	29.2		A	HHX	170	4	3	3
10988		TACH	04	01	0419	S09	W38	03	29.4			CAI	135	4	5	4
10988		SVTO	04	01	0935	S07	W42	03	29.3		B	DSO	130	5	8	3
10988		HOLL	04	01	1541	S04	W44	03	29.5		B	DSO	140	3	2	2
10988		VORO	04	01	2149	S08	W49	03	29.3			HAX	232	4		3
10988		LEAR	04	02	0342	S08	W52	03	29.3		A	HAX	240	3	2	2
10988		TACH	04	02	0725	S08	W53	03	29.4			HR	100	2	2	3
10988		KAND	04	02	0850	S07	W58	03	29.1			HA		2	3	3
10988		SVTO	04	02	0930	S06	W56	03	29.3		A	HSX	170	2	3	3
10988		TACH	04	03	0453	S09	W64	03	29.5			CAO	95	3	5	3
10988		VORO	04	03	0617	S08	W67	03	29.3			HAX	152	3		2
10988		KAND	04	03	1130	S08	W72	03	29.2			HA		3	3	2
10988		SVTO	04	03	1158	S05	W73	03	29.1		B	BXO	80	3	5	2
10988		HOLL	04	03	1624	S06	W73	03	29.3		B	BXO	60	5	3	4
10988		VORO	04	04	0047	S09	W77	03	29.3			HAX	52	2		3
10988		KAND	04	04	0720	S08	W82	03	29.2			HR		1	2	3
10988		PURP	03	24	0110	S08	E73	03	29.5			BXO	14	3	4	4
10988		LEAR	03	24	0144	S07	E73	03	29.5		B	BXO	60	3	4	3
10988		KAND	03	24	0840	S07	E68	03	29.4			CAO		4	3	3
10988		SVTO	03	24	1600	S09	E62	03	29.3		B	BXO	60	4	5	3
10988		HOLL	03	24	1608	S12	E63	03	29.4		BG	EHI	170	10	11	3
10988		PURP	03	25	0046	S07	E58	03	29.4			DAO	135	7	9	3
10988		SVTO	03	25	0840	S08	E55	03	29.5		B	CSO	190	8	8	3
10988		HOLL	03	25	1527	S10	E50	03	29.4		B	DAC	210	14	8	3
10988		PURP	03	26	0044	S07	E44	03	29.3			DAI	235	14	9	4
10988		TACH	03	26	0611	S08	E40	03	29.2			CAI	207	9	7	4
10988		SVTO	03	26	0855	S08	E41	03	29.4		B	DSO	230	11	10	2
10988		KAND	03	26	0930	S08	E36	03	29.1			DSO		7	8	3
10988		HOLL	03	26	2158	S09	E36	03	29.6		B	DAI	340	17	11	3
10988		PURP	03	27	0053	S07	E30	03	29.3			EAI	280	13	10	3
10988		TACH	03	27	0429	S08	E28	03	29.3			DAI	335	9	7	4
10988		KAND	03	27	0845	S09	E27	03	29.4			DAO		16	10	4
10988		SVTO	03	27	0913	S08	E27	03	29.4		B	DAO	240	11	13	2
10988		HOLL	03	27	2236	S09	E20	03	29.4		B	DSI	310	16	11	3
10988		SVTO	03	28	0620	S08	E15	03	29.4		B	EKI	240	15	13	3
10988		KAND	03	28	0840	S08	E14	03	29.4			EAO		16	13	4
10988		TACH	03	28	0850	S08	E14	03	29.4			DAI	358	7	9	4
10988		HOLL	03	28	1520	S09	E12	03	29.5		B	DAI	220	12	11	3
10988		SVTO	03	29	0955	S09	E01	03	29.5		B	EKI	210	13	11	2
10988		KAND	03	29	1215	S09	W03	03	29.3			CKO		4	12	3
10988		HOLL	03	29	1609	S08	W03	03	29.4		B	DAI	230	7	11	2
10988		LEAR	03	30	0530	S12	W08	03	29.6		B	CAO	280	5	11	2
10988		SVTO	03	30	0645	S06	W16	03	29.1		B	CAO	150	3	4	3
10988		TACH	03	30	0806	S08	W11	03	29.5			CAI	174	7	9	3
10988		HOLL	03	30	1529	S06	W17	03	29.4		B	DAI	210	6	8	2
10988		LEAR	03	31	0119	S08	W24	03	29.2		B	CHO	180	3	7	3
10988		SVTO	03	31	0640	S07	W28	03	29.2		B	CAO	90	3	3	2

S U N S P O T G R O U P S

(Ordered by Central Meridian Passage Date)

MARCH 2008

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
10988		LEAR	03	31	0919	S08	W24	03	29.6		B	CHO	40	3	7	3
10988		TACH	03	31	0926	S09	W28	03	29.3			CAO	175	3	5	4
10988		KAND	03	31	1230	S08	W33	03	29.0			HA		3	3	4
10988		HOLL	03	31	1852	S07	W35	03	29.2		B	CSO	190	9	6	3
10989		VORO	03	26	0310	S10	E72	03	31.5			HAX	151	4		3
10989		VORO	03	27	0442	S10	E58	03	31.5			HAX	60	3		3
10989		VORO	03	28	0555	S09	E44	03	31.5			HAX	31	2		3
10989		VORO	03	30	0128	S11	E20	03	31.6			CAO	11	4	0	3
10989		VORO	03	30	2207	S10	E09	03	31.6			AXX	11	5		4
10989		SVTO	03	25	0840	S09	E85	03	31.7		A	AXX	30	1	1	3
10989		HOLL	03	25	1527	S12	E80	03	31.7		A	HAX	60	1	2	3
10989		PURP	03	26	0044	S07	E76	03	31.7			HKX	121	2	3	4
10989		TACH	03	26	0611	S11	E68	03	31.4			BXO	23	2	1	4
10989		SVTO	03	26	0855	S10	E70	03	31.6		A	HSX	30	1	2	2
10989		KAND	03	26	0930	S11	E71	03	31.7			CAO		2	2	3
10989		HOLL	03	26	2158	S13	E65	03	31.8		B	DAO	70	3	4	3
10989		PURP	03	27	0053	S10	E63	03	31.8			CSO	30	3	2	3
10989		TACH	03	27	0429	S11	E58	03	31.5			BXO	41	2	1	4
10989		KAND	03	27	0845	S11	E57	03	31.6			CAO		4	2	4
10989		SVTO	03	27	0913	S12	E57	03	31.7		B	DSO	70	3	5	2
10989		HOLL	03	27	2236	S13	E48	03	31.6		B	DSO	50	2	3	3
10989		SVTO	03	28	0620	S11	E45	03	31.6		B	DSO	40	4	5	3
10989		KAND	03	28	0840	S11	E43	03	31.6			CAO		3	2	4
10989		TACH	03	28	0850	S10	E42	03	31.5			CSO	40	2	1	4
10989		HOLL	03	28	1520	S12	E39	03	31.6		B	DAO	50	5	4	3
10989		SVTO	03	29	0955	S12	E31	03	31.7		B	CSO	90	4	3	2
10989		KAND	03	29	1215	S11	E28	03	31.6			CAO		6	3	3
10989		HOLL	03	29	1609	S13	E25	03	31.5		B	DSO	70	4	5	2
10989		LEAR	03	30	0530	S13	E17	03	31.5		B	BXO	20	2	1	2
10989		SVTO	03	30	0645	S10	E18	03	31.6		B	BXO	20	2	1	3
10989		TACH	03	30	0806	S12	E17	03	31.6			BRO	4	3	2	3
10989		HOLL	03	30	1529	S12	E12	03	31.5		B	CSO	30	3	3	2
10989		LEAR	03	31	0919	S11	E07	03	31.9		A	AXX	10	1		3

Stations reporting:

HOLL = Holloman LEAR = Learmonth PURP = Purple Mountain TACH = Tashkent
KAND = Kandilli PALE = Palehua SVTO = San Vito VORO = Voroshilov

SUDDEN IONOSPHERIC DISTURBANCES
MARCH 2008

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type SWF	SEA	SPA	LF-SPA	SES	Flare (UT)	X-ray Class	NOAA Region
03	0848	0900	0949	1	1						No flare		
08	1414	1423	1501	1	1						No flare		
10	0953	1001	1102	1	1						No flare		
16	0641	0648	0731	1	1						*		
24	0854	0905	0933	1	1						*		
24	1306	1315	1338	1	1						*		
25	0730	0832	0956	1	1						No flare		
25	1404	1429	1542	1	1						No flare		
25	1843	1858	1936	2	5					4	1836	M 1.7	10989
26	0616	0625	0730	1	1						No flare		
26	1415	1419	1532	1	1						*		
27	1507	1514	1537	1	1						*		
30	1000	1005	1106	1	1						No flare		
31	0627	0640	0709	1	1						No flare		

OBSERVATORIES REPORTING FOR MARCH 2007

Bedford, Massachusetts, USA	SES
Edenvale, Rep of S. Africa	SES
Southern France	SES
Torrington, Connecticut, USA	SES
Upice, Czech Republic	SEA

Observations are not necessarily continuous.
* = No Flare Patrol