

Date	Times	Antenna Mode	XMTR Mode	Experiment Purpose
050103	1034 1701	Azimuth scans	320 / 320	Polar Cap F-Region Patches Entry
050103	1943 2317	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050103-04	2325 0601	Various	320 / 320	Polar Cap F-Region Patches
050104	1024 1701	Azimuth scans	320 / 320	Polar Cap F-Region Patches Entry
050104	1937 2304	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050104-05	2308 0600	Various	320 / 320	Polar Cap F-Region Patches
050105	1022 1705	Azimuth scans	320 / 320	Polar Cap F-Region Patches Entry
050105	2125 2302	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050105-06	2323 0550	Various	320 / 320	Polar Cap F-Region Patches
050106	1032 1704	Azimuth scans	320 / 320	Polar Cap F-Region Patches Entry
050106	2122 2300	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050106-07	2303 0601	Azimuth scans	320 / 320	Polar Cap F-Region Patches
050107	1022 1802	Azimuth scans	320 / 320	Polar Cap F-Region Patches Entry
050107	1807 2302	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050107-08	2306 0635	Various	320 / 320	Polar Cap F-Region Patches
050108	1034 1702	Azimuth scans	320 / 320	Polar Cap F-Region Patches Entry
050108	1924 2207	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050108-09	2213 0616	3 Positions	AC/320/320-PL	Vertical E-region neutral winds
050109	1047 1704	Azimuth scans	320 / 320	Polar Cap F-Region Patches Entry
050109	2042 2201	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050109	2216 2306	Various	320 / 320	Polar Cap F-Region Patches
050109	2311 2324	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050109-10	2327 0602	Various	320 / 320	Polar Cap F-Region Patches
050112	2108 2315	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050112-13	2321 0427	up B	AC/320/320-PL	Auroral Emissions with Optics
050113-14	2138 0200	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050114	1735 2244	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050115	2102 2237	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050116	2049 2218	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050116	2221 2312	3 Positions	AC/320/320-PL	Vertical E-region neutral winds
050116	2317 2335	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050116-17	2337 0837	3 Positions	AC/320/320-PL	Vertical E-region neutral winds
050117-19	1910 1505	Compscans & Up B	320 / 320	CME Event Monitoring
050120	0237 0759	Compscans & Up B	320 / 320	Ion upflow measurements with ISTP Sats
050121	0227 0801	Compscans & Up B	320 / 320	Ion upflow measurements with ISTP Sats
050122	2116 2246	up B	50-BC / 160	Measurements with DMSP & TIMED Sats
050123	2055 2236	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050125	1126 1802	Composite scans	320 / 320	Measurements with Cluster satellites
050126	0224 0801	3 Positions	AC/320/320-PL	Ion upflow measurements with ISTP Sats
050127	0231 0801	Compscans & Up B	320 / 320	Ion upflow measurements with ISTP Sats
050130	1944 2218	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050131	2037 2254	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050131-0201	2257 0700	Compscans & Up B	320 / 320	Ion upflow measurements with ISTP Sats
050202	0129 0713	Compscans & Up B	320 / 320	Ion upflow measurements with ISTP Sats
050206	0036 0703	Composite scans	320 / 320	Measurements with Cluster satellites
050206	1928 2259	Elevation scans	50-BC / 160	Measurements with DMSP & TIMED Sats
050206-07	2302 0708	Compscans & Up B	320 / 320	Ion upflow measurements with ISTP Sats
050207	2101 2302	Elevation scans	50-BC / 160	Measurements with DMSP Satellite
050207-08	2306 0602	Compscans & Up B	320 / 320	Ion upflow measurements with ISTP Sats
050208	2100 2237	Elevation scans	50-BC / 160	Measurements with DMSP Satellite
050210-11	2119 0601	3 Positions	AC/320/320-PL	Vertical E-region neutral winds
050212	0110 0611	up B	AC/320/320-PL	Auroral Emissions with Optics
050214	2127 2253	Elevation scans	50-BC / 160	Measurements with DMSP Satellite
050214-15	2256 0502	Compscans & Up B	320 / 320	Ion upflow measurements with ISTP Sats
050215	2109 2228	Elevation scans	50-BC / 160	Measurements with DMSP Satellite
050216	2101 2233	Elevation scans	50-BC / 160	Measurements with DMSP Satellite
050216-17	2235 0659	3 Positions	AC/320/320-PL	Vertical E-region neutral winds
050220	1653 1818	Elevation scans	50-BC / 160	Measurements with TIMED Satellite
050220-21	2335 0503	Compscans & Up B	320 / 320	Ion upflow measurements with ISTP Sats
050222	2121 2257	Elevation scans	50-BC / 160	Measurements with DMSP Satellite
050223	2109 2227	Elevation scans	50-BC / 160	Measurements with DMSP Satellite
050224	2058 2229	Elevation scans	50-BC / 160	Measurements with DMSP Satellite
050224-26	2237 0500	Multi-positions	82 / raw	Thin layers and sporadic meteor fluxes
050226-27	1842 0502	Figure 8	52-BC/320/320-PL	High-resolution Sporadic E & Meteor Msmnts
050227	0830 1702	3 Positions	AC/320/320-PL	Measurements with TIMED satellite
050227-28	2248 0407	Compscans & Up B	320 / 320	Ion upflow measurements with ISTP Sats
050302	1226 1433	3 Positions	AC/320/320-PL	Testing
050304	1024 1502	Composite scans	320 / 320	Measurements with Cluster satellites
050306-07	2135 0603	3 Positions	AC/320/320-PL	Vertical E-region neutral winds
050307-08	2131 0603	3 Positions	AC/320/320-PL	Vertical E-region neutral winds
050308-09	2226 0856	Composite scans	320 / 320	Measurements with Cluster satellites
050309	0859 1501	3 Positions	AC/320/320-PL	Measurements with TIMED satellite
050310	1539 1641	Compscans & Up B	320 / 320	Testing
050316-17	2150 0259	Compscans & Up B	320 / 320	Ion upflow measurements with ISTP Sats
050317-18	2132 0306	Compscans & Up B	320 / 320	Ion upflow measurements with ISTP Sats
050318-19	2033 0202	Compscans & Up B	320 / 320	Ion upflow measurements with ISTP Sats
050323-24	2035 0209	Compscans & Up B	320 / 320	Ion upflow measurements with ISTP Sats
050324-25	2030 0204	Compscans & Up B	320 / 320	Ion upflow measurements with ISTP Sats

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050325-26	0211 0200	Multi-positions	82 / raw	Thin layers and sporadic meteor fluxes
050328	1231 2304	Compscans & Up B	320 / 320	World Days (MI Coupling)
050328-29	2309 0202	3 Positions	AC/320/320-PL	World Days (MI Coupling - high winds)
050329-0402	0204 1603	Compscans & Up B	320 / 320	World Days (MI Coupling)
050404-05	1942 0105	Compscans & Up B	320 / 320	Ion upflow measurements with ISTEP Sats
050405	1023 1818	Elevation scans	320 / 320	Cusp detections with spectrograph
050405-06	2127 0604	3 Positions	AC/320/320-PL	Vertical E-region neutral winds
050408	2037 2124	Composite scans	320 / 320	Testing
050416	2148 2300	3 Positions	AC/320/320-PL	Testing
050423	1333 1437	3 Positions	AC/320/320-PL	Testing
050425	1335 1940	3 Positions	AC/320/320-PL	E-region electrodynamics
050427-28	1834 0307	Composite scans	320 / 320	Measurements with Cluster satellites
050428	1735 2304	Compscans & Up B	320 / 320	Ion upflow measurements with ISTEP Sats
050502	1544 2201	Composite scans	320 / 320	Measurements with Cluster satellites
050504	1627 2204	Compscans & Up B	320 / 320	Ion upflow measurements with ISTEP Sats
050505	1632 2207	Compscans & Up B	320 / 320	Ion upflow measurements with ISTEP Sats
050508-09	0338 1652	Compscans & Up B	320 / 320	CME Event Monitoring
050509-10	1655 0105	Compscans & Up B	320 / 320	Ion upflow measurements with ISTEP Sats
050510	1145 1207	Elevation scans	320 / 320	Cusp detections with spectrograph
050513-14	1732 0203	3 Positions	AC/320/320-PL	Measurements with TIMED satellite
050514-15	2136 1355	3 Positions	AC/320/320-PL	Vertical E-region neutral winds
050516	1102 1750	Elevation scans	320 / 320	Cusp detections with spectrograph
050516-17	1756 0203	3 Positions	AC/320/320-PL	Measurements with TIMED satellite
050519	0935 1800	Elevation scans	320 / 320	Cusp detections with spectrograph
050520	0937 1801	Elevation scans	320 / 320	Cusp detections with spectrograph
050528-29	1726 0604	Composite scans	320 / 320	Measurements with Cluster satellites
050530	1432 2304	3 Positions	AC/320/320-PL	Measurements with TIMED satellite
050604	1023 1701	Elevation scans	320 / 320	Cusp detections with spectrograph
050605	1034 1700	Elevation scans	320 / 320	Cusp detections with spectrograph
050606	1115 1705	Elevation scans	320 / 320	Cusp detections with spectrograph
050613-18	0938 0305	3 Positions	AC/320/320-PL	World Days (LTCS)
050625-26	2252 2304	3 Positions	AC/320/320-PL	Vertical E-region neutral winds
050628	0440 1133	Composite scans	320 / 320	Measurements with Cluster satellites
050628	1354 1449	Composite scans	320 / 320	Testing
050629	1554 2002	Composite scans	320 / 320	Testing
050701	0119 1001	Composite scans	320 / 320	Measurements with Cluster satellites
050706	1439 2200	Composite scans	320 / 320	Measurements with Cluster satellites
050707-08	2124 2200	3 Positions	AC/320/320-PL	Vertical E-region neutral winds
050709	0951 1613	Elevation scans	320 / 320	Cusp detections with spectrograph
050711	1058 1701	Elevation scans	320 / 320	Cusp detections with spectrograph
050713	1634 1809	3 Pos & Elscans	AC/320/320-PL	E-region depletions due to shuttle launch
050718	1442 1914	Composite scans	320 / 320	Measurements with Cluster satellites
050719	1019 1415	Elevation scans	320 / 320	Cusp detections with spectrograph
050720	1023 1703	Elevation scans	320 / 320	Cusp detections with spectrograph
050721	1029 1701	Elevation scans	320 / 320	Cusp detections with spectrograph
050725	1530 2206	Composite scans	320 / 320	Measurements with Cluster satellites
050726	1431 1901	3 Pos & Elscans	AC/320/320-PL	E-region depletions due to shuttle launch
050726-27	1904 2001	Composite scans	320 / 320	Coordinated with E field msmts in icecap
050728	1036 2007	Composite scans	320 / 320	Coordinated with E field msmts in icecap
050728	2026 2156	3 Positions	AC/320/320-PL	Coordinated with E field msmts in icecap
050728-29	2202 1203	Composite scans	320 / 320	Coordinated with E field msmts in icecap
050729	1252 1311	Vertical	82 / raw	Mode test
050730	0450 0945	Vertical	82 / raw	Detection of meteor head echoes
050730	1100 1229	Moon track	320 / 320	Moon bounce measurements
050731	0458 1000	1 Position	82 / raw	Detection of meteor head echoes
050804	0543 1106	Vertical	82 / raw	Detection of meteor head echoes
050804	1128 1236	Various	Various	Testing
050805	1151 1700	Elevation scans	320 / 320	Cusp detections with spectrograph
050806	1042 1141	Elevation scans	320 / 320	Cusp detections with spectrograph
050807	0434 0951	Special	82 / raw	Detection of meteor head echoes
050808	0435 1000	Special	82 / raw	Detection of meteor head echoes
050808-09	2315 0812	2 Positions	450 / 450-PL	Gyro-line measurements
050809	1213 1657	Vertical	52-BC / 320	Polar Mesospheric Summer Echoes
050810	0135 0901	4 Positions	450/450-PL/450-PL	Gyro-line measurements
050810-13	0905 0501	3 Positions	50-BC / AC	World Days (meteoric ionization)
050813	1223 1830	Vertical	52-BC / 320	Polar Mesospheric Summer Echoes
050817	1040 1701	Elevation scans	320 / 320	Cusp detections with spectrograph
050824-25	2136 1000	3 Positions	AC/320/320-PL	Vertical E-region neutral winds
050901-30	1036 2305	3 Pos & Compscans	AC/320/320-PL	World Days (LTCS)
051003	1042 1701	Elevation scans	320 / 320	Cusp detections with spectrograph
051003-04	1704 0102	Composite scans	320 / 320	Measurements with Cluster satellites
051004-05	1952 2000	Vertical	82 / raw	Thin layers and sporadic meteor fluxes
051010-11	1743 0104	Composite scans	320 / 320	Measurements with Cluster satellites
051012-13	1730 0101	3 Positions	AC/320/320-PL	Measurements with Cluster satellites
051015	1031 1703	Elevation scans	320 / 320	Cusp detections with spectrograph
051017-18	1734 0104	Composite scans	320 / 320	Measurements with Cluster satellites
051024-25	1644 0001	Composite scans	320 / 320	Measurements with Cluster satellites
051027-28	2137 22-2	3 Pos & Elscan	AC/320/320-PL	Vertical E-region neutral winds
051103-04	2152 0213	Up B	AC/320/320-PL	Auroral Emissions with Optics

Date	Times	Antenna Mode	XMTR Mode	Experiment Purpose
051111	1208 1602	Elevation scans	320 / 320	Cusp detections with spectrograph
051117	1133 1234	Elevation scans	320 / 320	Cusp detections with spectrograph
051117-20	1534 1600	3 Positions	50-BC / AC	World Days (meteoric ionization)
051121	1134 1602	Elevation scans	320 / 320	Cusp detections with spectrograph
051122	1136 1602	Elevation scans	320 / 320	Cusp detections with spectrograph
051127	0840 1201	3 Positions	AC/320/320-PL	Measurements with TIMED satellite
051129-30	2142 2200	3 Pos & Elscan	AC/320/320-PL	Vertical <i>E</i> -region neutral winds
051201	0235 0500	Elevation scans	50-BC / 160	Measurements with TIMED Satellite
051201	0503 1201	Composite scans	320 / 320	Measurements with Cluster satellites
051204	1257 2203	Elevation scans	320 / 320	Cusp detections with spectrograph
051206	0128 0701	Composite scans	320 / 320	Measurements with Cluster satellites
051211	0730 1400	Composite scans	320 / 320	Measurements with Cluster satellites
051217-18	2241 0103	Elevation scans	50-BC / 160	Measurements with TIMED Satellite
051220-21	2147 2203	3 Pos & Elscan	AC/320/320-PL	Vertical <i>E</i> -region neutral winds
051221-22	2208 1400	2 Positions	450/450-PL/450-PL	Gyro-line measurements