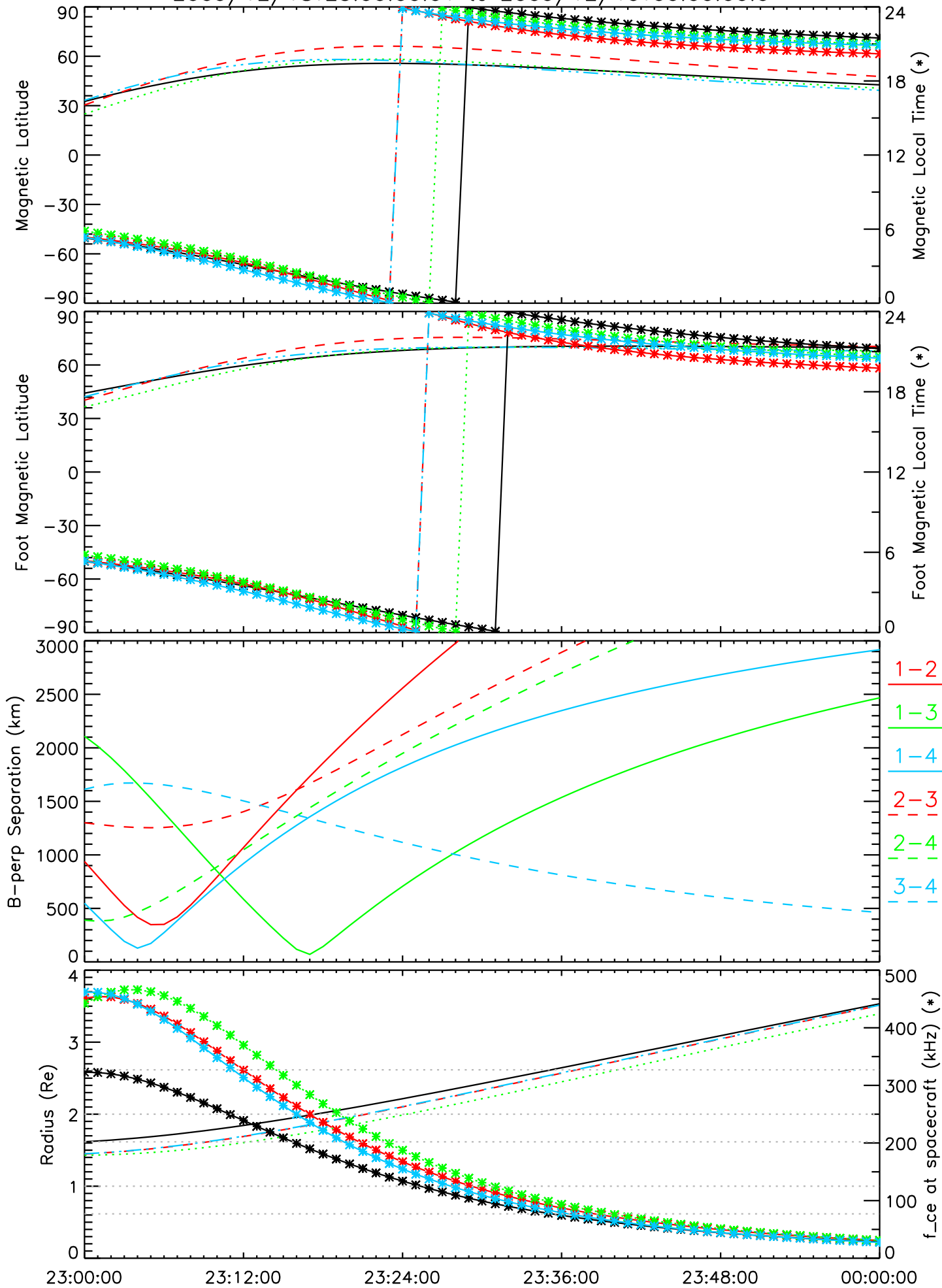
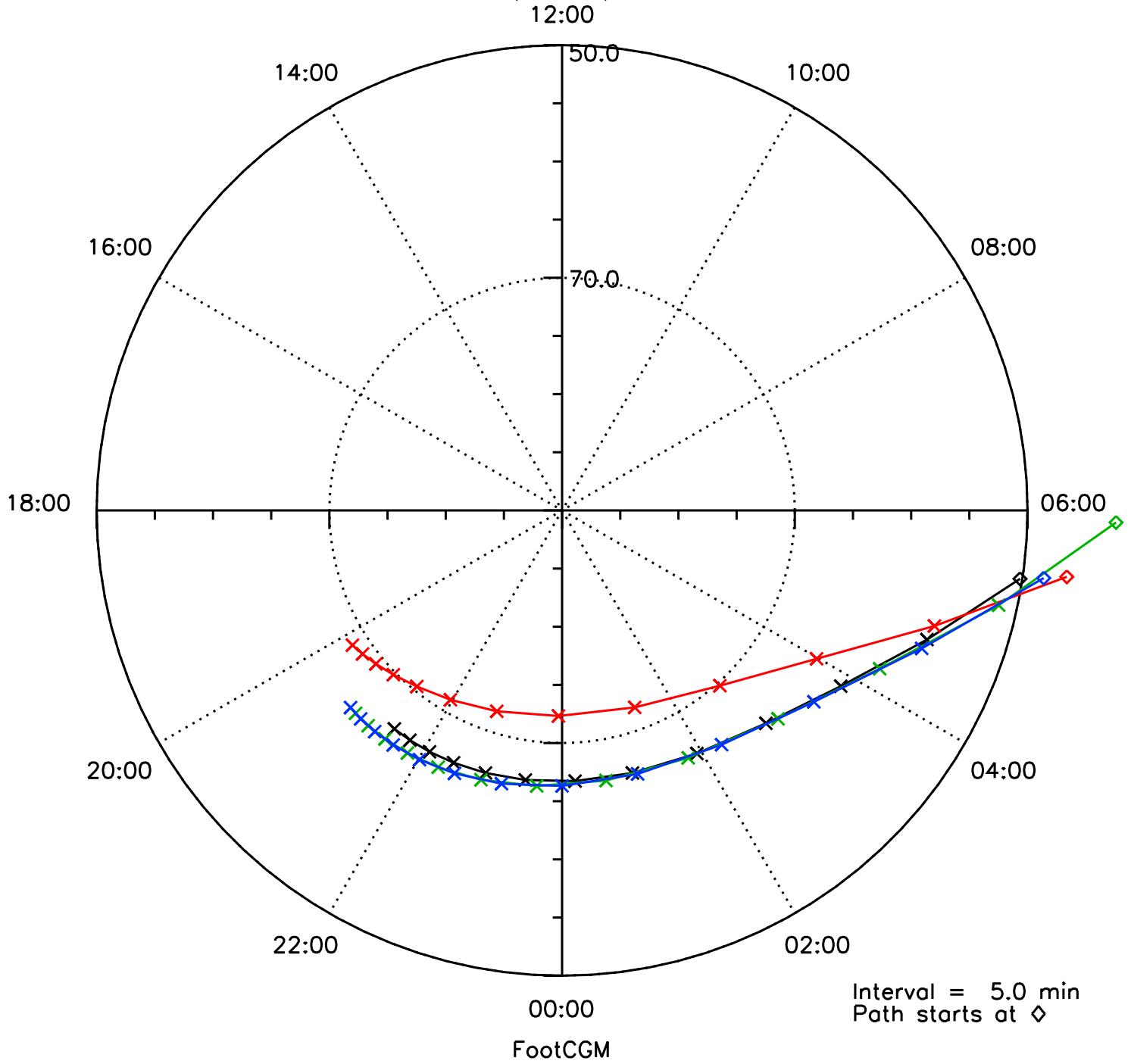


2009/12/18T23:00:00.01 to 2009/12/19T00:00:00.0



2009/12/18T23:00:00. to 2009/12/19T00:00:00.
(North)



Actual start/end times of tracks:

23:03 00:00 CLU1
23:12 00:33 CLU2
23:12 23:22 CLU3
23:14 23:52 CLU4

Commanding:

352 2303 2303 2359 0037 DSS-80 CLU1 AAR
C1: 2303-2314 - (77 kHz, 250 kHz Conversion, Ez)
2314-2335 - (77 kHz, 125 kHz Conversion, Ez)
2335-2359 - (77 kHz, Baseband, Ez)

** ! C2 and C4 swapped antennas due to a **
** cable-wrap issue, resulting in C2 EOT of **
** 0030 instead of 0039.

352 2240 2310 0039 0054 DSS-54 CLU2 AAR LEVEL 3
C2: 2310-2319 - (77 kHz, 250 kHz Conversion, Ez)
2319-2335 - (77 kHz, 125 kHz Conversion, Ez)
2335-0000 - (77 kHz, Baseband, Ez)
0000-0039 - (9.5 kHz, E/B Cycling)

352 2303 2307 0037 0037 DSS-81 CLU3 AAR
C3: 2312-0000 - (77 kHz, 250 kHz Conversion, Ez)
0000-0037 - (9.5 kHz, E/B Cycling)
C3 on: 2312-2322; 0022-0032

** This operation uses the Ey/Ez cycling **
** macro (0.67 sec period) on C4 from 2322 **
** to 2326. This was added after the **
** initial commanding was sent in. **

352 2234 2309 2350 0005 DSS-65 CLU4 AAR LEVEL 3
C4: 2309-2319 - (77 kHz, 250 kHz Conversion, Ez)
2319-2335 - (77 kHz, 125 kHz Conversion, Ez)
2335-2350 - (77 kHz, Baseband, Ez)

#	#	S/C 1			S/C 2			S/C 3			S/C 4			S/C seps in B-perp plane (km)								
		R	Foot MLat	Foot MLT	R	Foot MLat	Foot MLT	R	Foot MLat	Foot MLT	R	Foot MLat	Foot MLT	1	2	3	4	1-2	1-3	1-4	2-3	2-4
2009/12/18T23:00:00	1.6	44.2	05:19:26	1.4	40.3	05:22:36	1.4	36.5	05:48:18	1.5	42.1	05:21:33	322	451	441	461	926	2128	569	1332	359	1608
2009/12/18T23:05:00	1.7	51.1	04:38:11	1.5	50.8	04:46:25	1.5	45.6	05:04:48	1.5	51.3	04:32:02	303	431	462	428	336	1551	156	1288	490	1664
2009/12/18T23:10:00	* 1.8	57.4	03:50:57	* 1.6	60.5	04:00:08	1.6	54.6	04:11:25	* 1.6	59.2	03:32:25	258	358	403	348	795	868	695	1359	873	1564
2009/12/18T23:15:00	* 1.9	62.6	02:58:21	* 1.8	68.0	02:58:26	* 1.7	61.8	03:07:36	* 1.8	64.8	02:23:07	208	277	317	264	1478	240	1175	1572	1277	1408
2009/12/18T23:20:00	* 2.1	66.1	02:02:07	* 2.0	72.9	01:39:10	* 1.8	66.4	01:55:26	* 2.0	68.1	01:10:50	163	209	238	196	2105	322	1560	1873	1660	1244
2009/12/18T23:25:00	* 2.2	68.4	01:06:57	* 2.1	75.1	00:10:09	* 2.0	68.9	00:43:39	* 2.1	69.6	00:04:23	126	157	176	145	2669	776	1865	2201	2014	1091
2009/12/18T23:30:00	* 2.4	69.7	00:15:24	* 2.3	75.4	22:51:33	* 2.2	69.8	23:40:41	* 2.3	69.9	23:09:01	98	118	130	109	3177	1155	2110	2528	2339	955
2009/12/18T23:35:00	* 2.6	70.5	23:30:24	* 2.5	74.8	21:51:46	* 2.4	69.9	22:49:20	* 2.5	69.7	22:24:45	77	91	98	83	3640	1471	2309	2839	2639	838
2009/12/18T23:40:00	* 2.8	70.5	22:51:50	* 2.7	73.7	21:08:45	* 2.6	69.6	22:06:40	* 2.7	69.3	21:50:13	61	70	75	64	4063	1737	2474	3130	2917	737
2009/12/18T23:45:00	* 3.0	70.4	22:20:02	* 2.9	72.9	20:38:23	* 2.8	69.2	21:37:21	* 2.9	68.9	21:22:57	49	56	58	50	4454	1962	2612	3402	3176	652
2009/12/18T23:50:00	* 3.2	70.1	21:53:21	* 3.1	71.7	20:16:12	* 3.0	68.7	21:13:05	* 3.1	68.4	21:01:37	40	45	46	40	4815	2154	2729	3655	3417	579
2009/12/18T23:55:00	* 3.3	69.8	21:31:56	* 3.3	70.9	19:59:06	* 3.2	68.2	20:53:20	* 3.3	68.0	20:44:14	33	36	37	33	5153	2320	2829	3891	3644	518
2009/12/19T00:00:00	3.5	69.5	21:13:50	3.5	70.2	19:45:37	* 3.4	67.7	20:37:19	* 3.5	67.6	20:30:14	27	30	30	27	5468	2865	2916	4112	3857	466
2009/12/19T00:05:00	3.7	69.1	20:58:33	3.7	69.6	19:35:28	3.6	67.4	20:24:31	3.7	67.2	20:19:12	23	25	25	22	5764	2591	2991	4319	4058	422
2009/12/19T00:10:00	3.9	68.9	20:45:41	3.9	69.1	19:26:24	3.8	67.1	20:14:28	3.9	67.0	20:09:10	20	21	21	19	6044	2701	3058	4513	4247	385
2009/12/19T00:15:00	4.1	68.5	20:35:00	4.1	68.7	19:19:47	4.0	66.8	20:05:30	4.1	66.7	20:01:23	17	18	18	16	6308	2799	3116	4696	4427	355
2009/12/19T00:20:00	4.2	68.2	20:25:37	4.2	68.3	19:14:11	4.1	66.6	19:57:43	4.3	66.5	19:54:25	14	15	15	14	6559	2885	3167	4870	4598	330