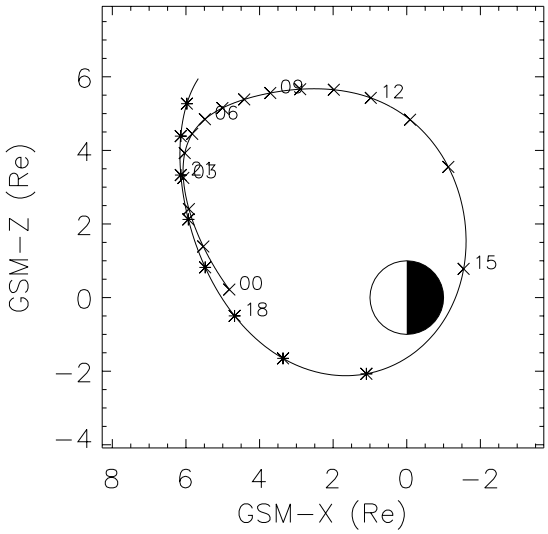
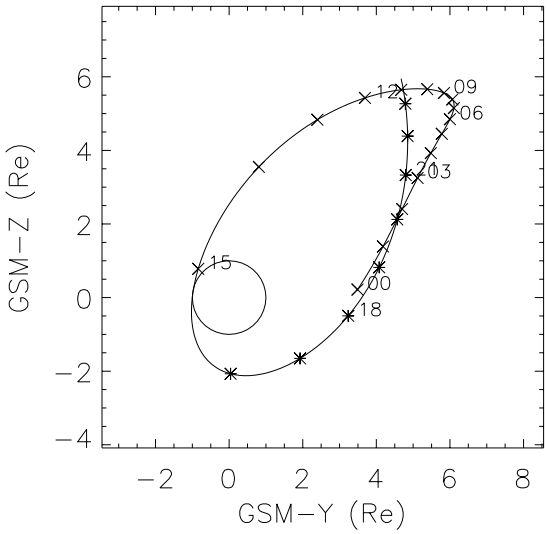
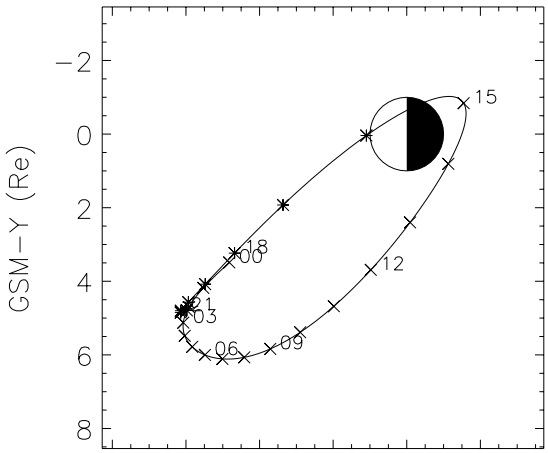


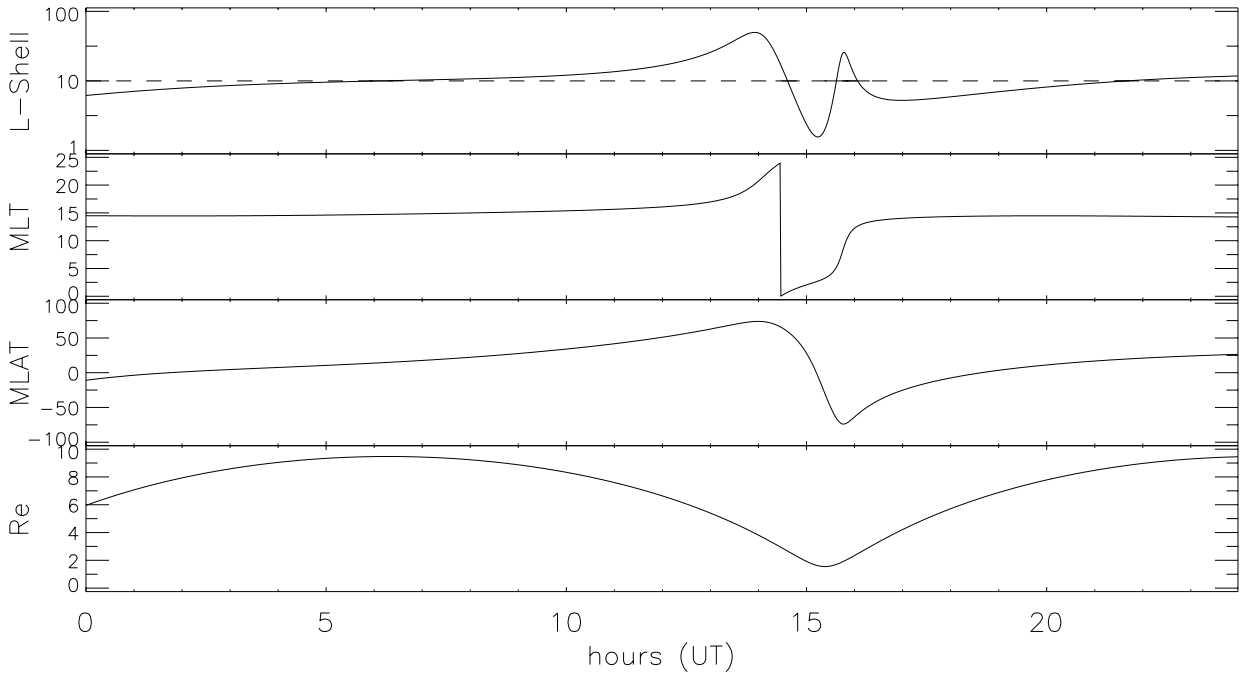




POLAR Orbit 2001/044 (02/13)
L shell of interest = 10.00

06:08:41	Equator to North Pole =	10.00
14:36:19	North Pole to Equator =	10.00
15:37:21	Equator to South Pole =	10.00
16:03:52	South Pole to Equator =	10.00
21:40:33	Equator to North Pole =	10.00

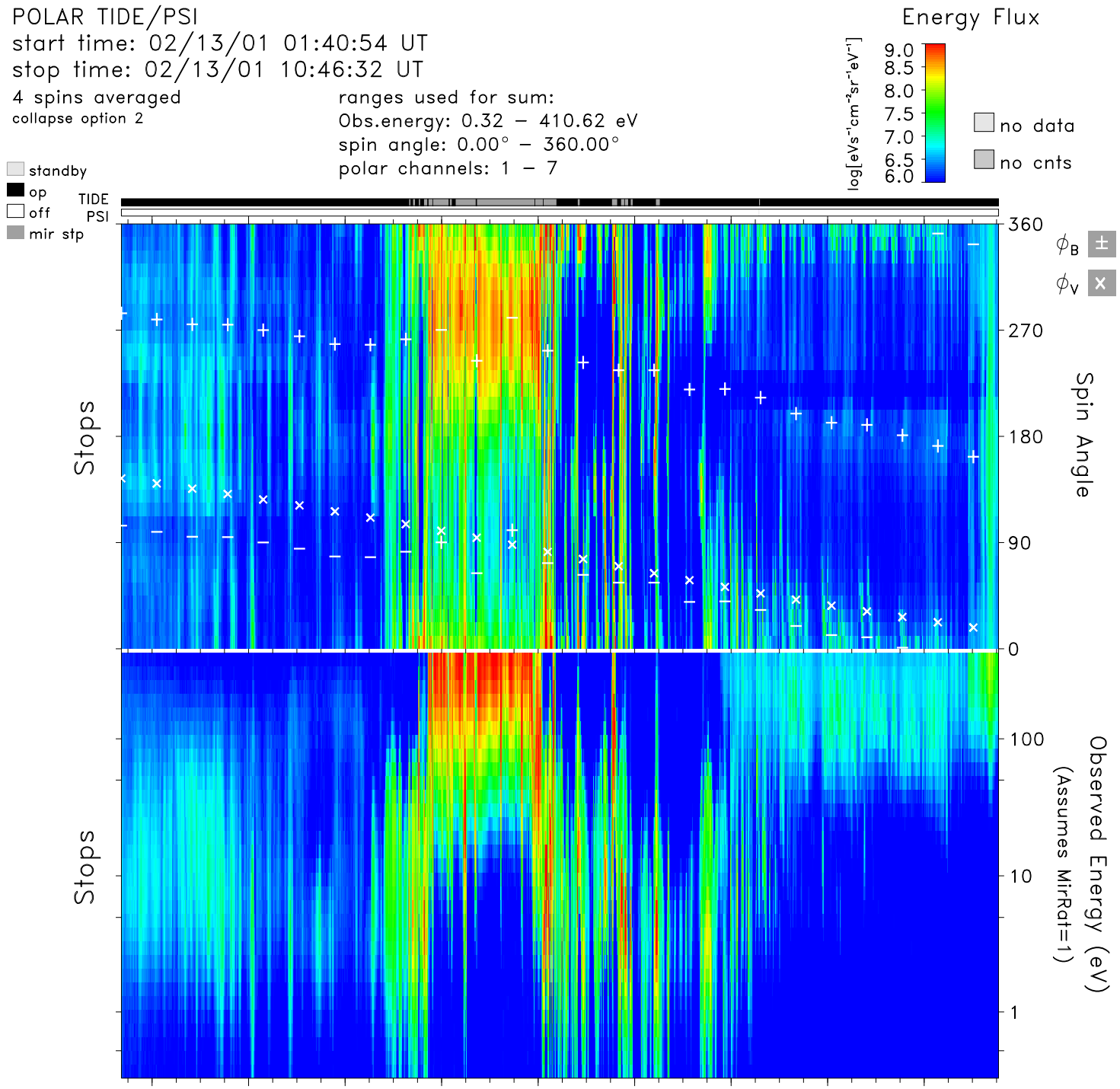
01:40:00 Ascending node crossing (2443)
19:51:40 Ascending node crossing (2444)



Thu Feb 15 08:26:47 2001
/datafiles/orbit/pre/01021300.cdf
plot_orbit_gsml_v2.0.0

POLAR TIDE/PSI
start time: 02/13/01 01:40:54 UT
stop time: 02/13/01 10:46:32 UT
4 spins averaged
collapse option 2

ranges used for sum:
Obs.energy: 0.32 – 410.62 eV
spin angle: 0.00° – 360.00°
polar channels: 1 – 7

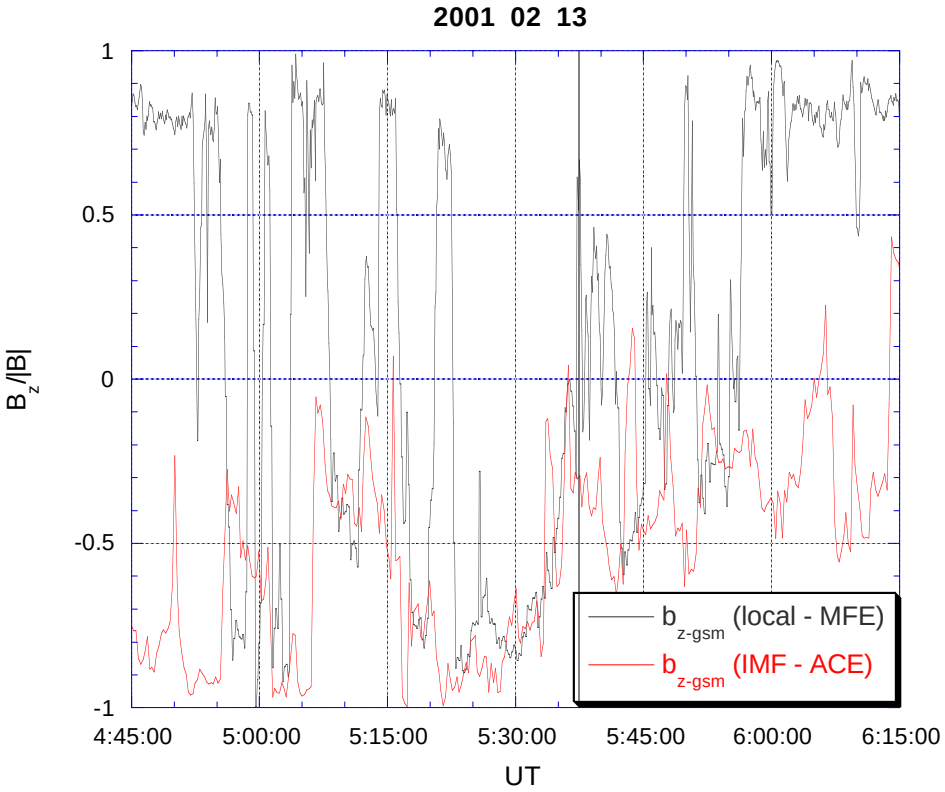


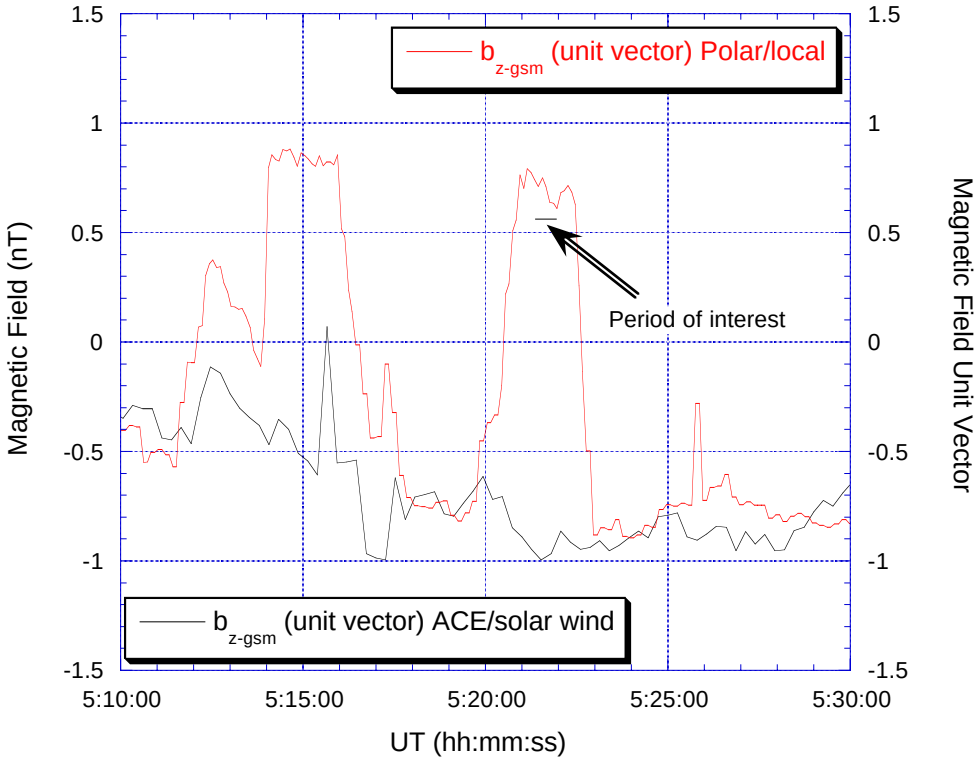
time	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	hr:mn
Re	7.9	8.6	9.0	9.3	9.5	9.4	9.2	8.9	8.3	Re
Lshell	7.9	8.6	9.1	9.6	9.9	10.3	10.7	11.2	12.1	
mlt	14.5	14.5	14.5	14.6	14.7	14.8	15.0	15.2	15.4	hrs
mlat	1.1	4.6	7.6	10.5	13.8	17.7	22.2	27.6	34.0	degs
invlat	69.1	70.0	70.7	71.1	71.5	71.8	72.2	72.6	73.3	degs

tide_lz_v5.5.0
Thu Feb 15 04:26:37 2001
plot: t0102130140_1046_sp.eshtr.ps
no minimum subtracted

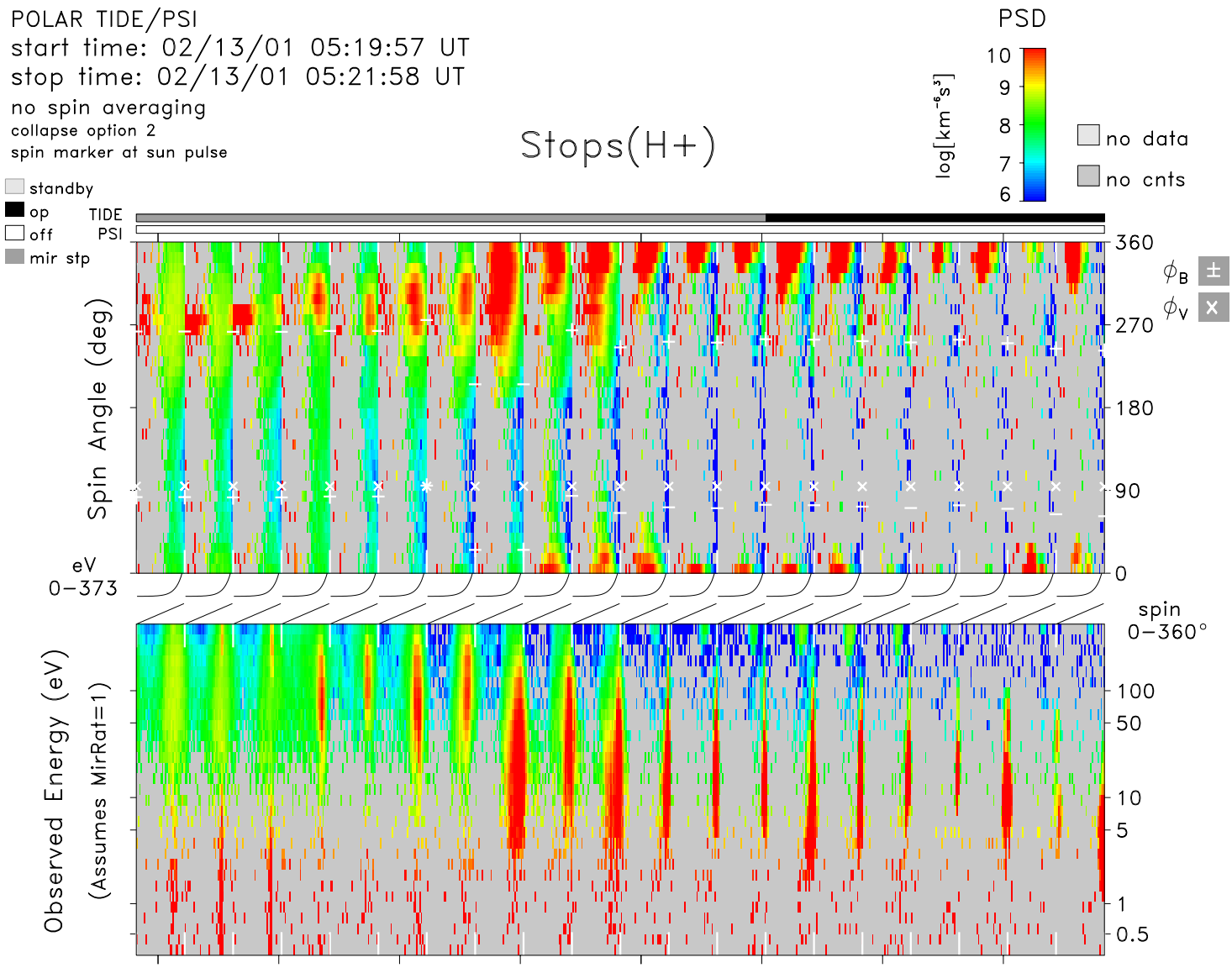
sector_sens: no correction
calibration: tide_calib.v6
mass_calibration: mass_calib.v7
ion_mask: t010213_v2.mask

s/c potential = 0.0000
attitude: 01021300.cdf
orbit: 01021300.cdf
level-zero: 01021300.dat


2001 02 13
1
0.5
0
-0.5
-1
B_z/|B|
4:45:00
5:00:00
5:15:00
5:30:00
5:45:00
6:00:00
6:15:00
UT
b_z-gsm (local - MFE)
b_z-gsm (IMF - ACE)


b z-gsm (unit vector) Polar/local
b z-gsm (unit vector) ACE/solar wind
Period of interest
Magnetic Field (nT)
Magnetic Field Unit Vector
UT (hh:mm:ss)
1.5
1
0.5
0
-0.5
-1
-1.5
5:10:00
5:15:00
5:20:00
5:25:00
5:30:00

POLAR TIDE/PSI
start time: 02/13/01 05:19:57 UT
stop time: 02/13/01 05:21:58 UT
no spin averaging
collapse option 2
spin marker at sun pulse

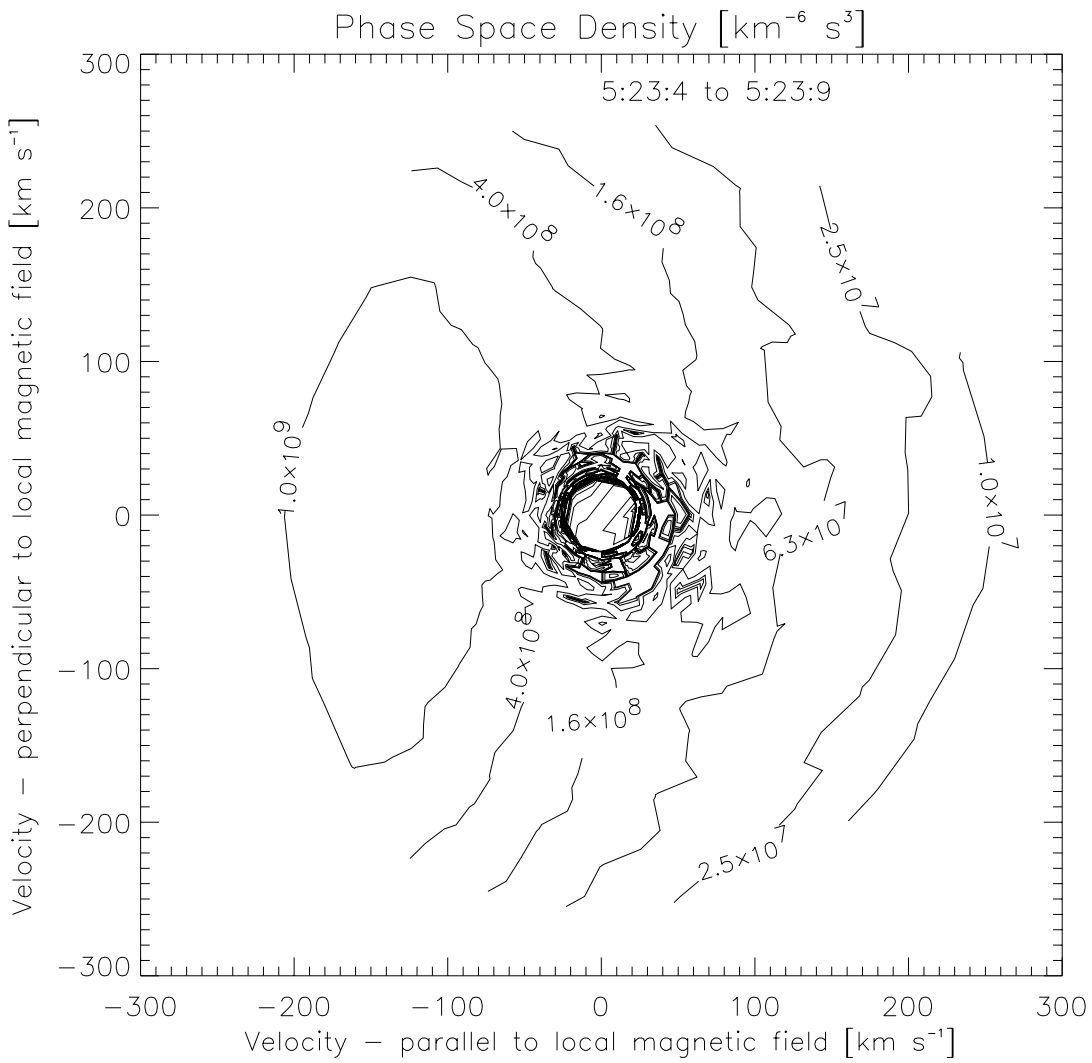


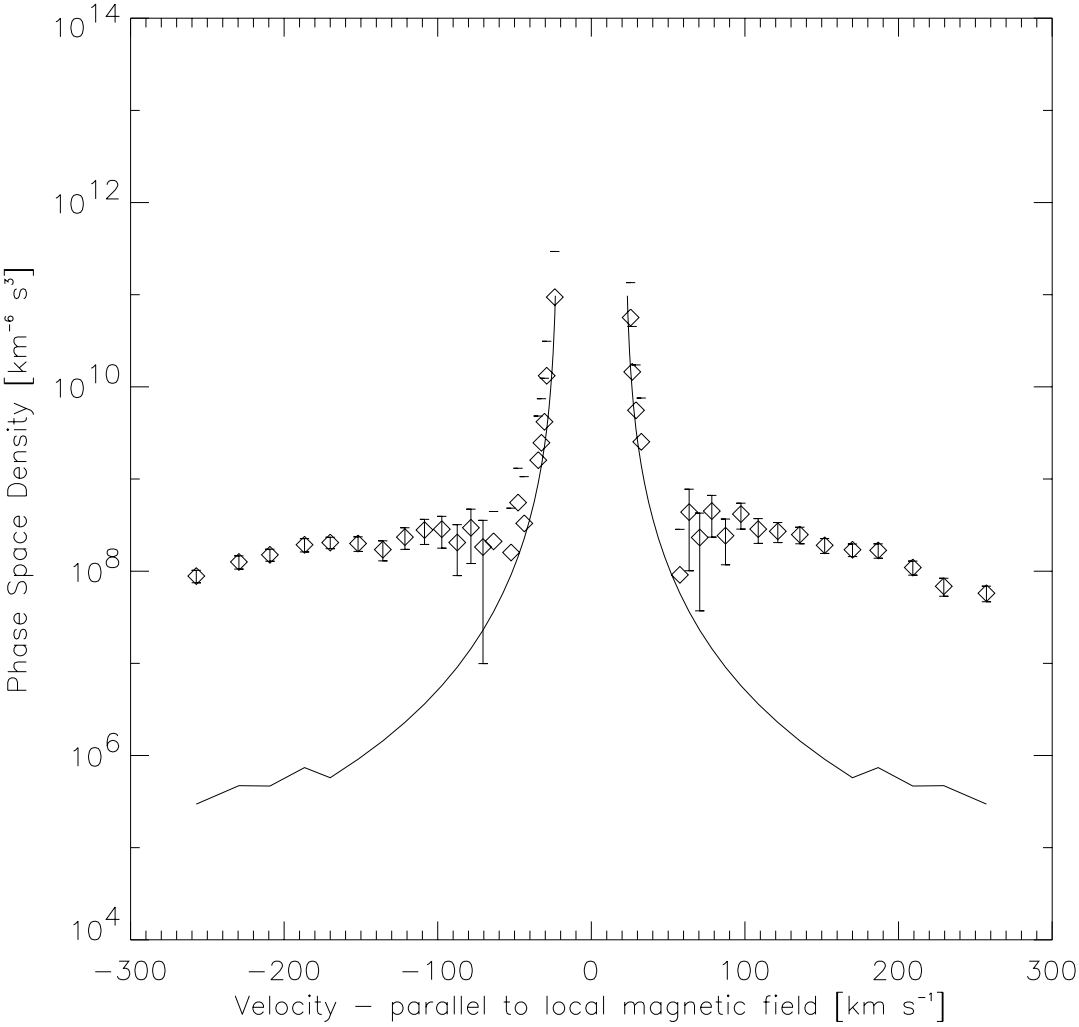
time	05:20	05:21	hr:mn
Re	9.4	9.4	Re
Lshell	9.7	9.7	
mlt	14.6	14.6	hrs
mlat	11.6	11.6	degs
invlat	71.3	71.3	degs

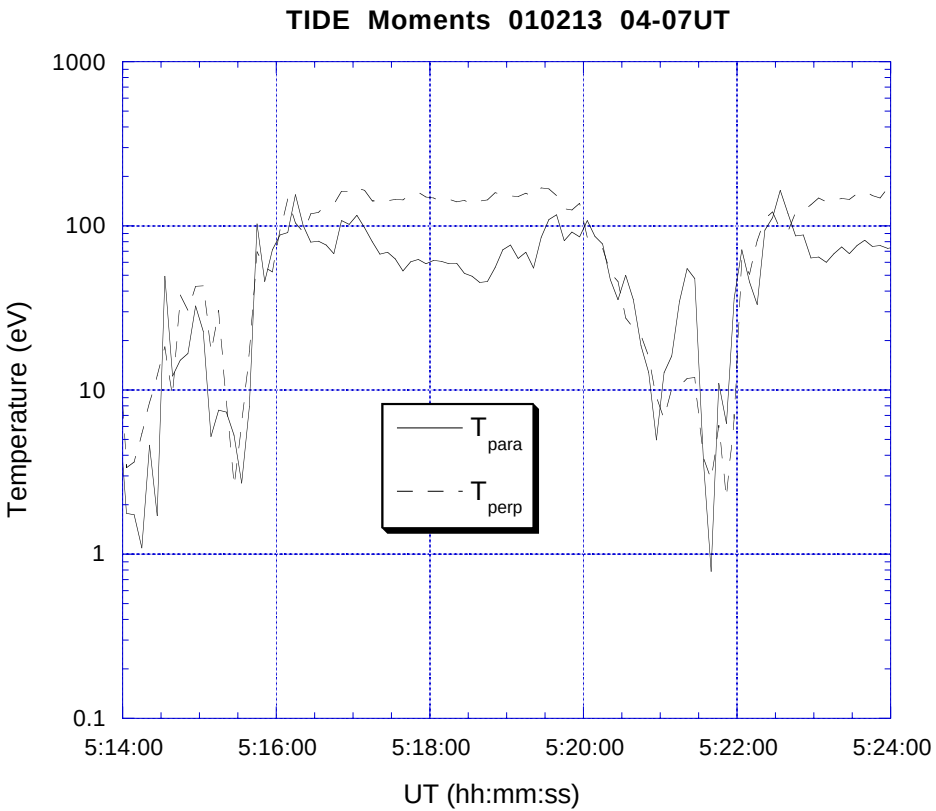
tide_lz_v5.5.0
Mon Dec 17 16:56:55 2001
plot: t0102130519_0521_sp.q10305.esse.ps
minimum count subtracted

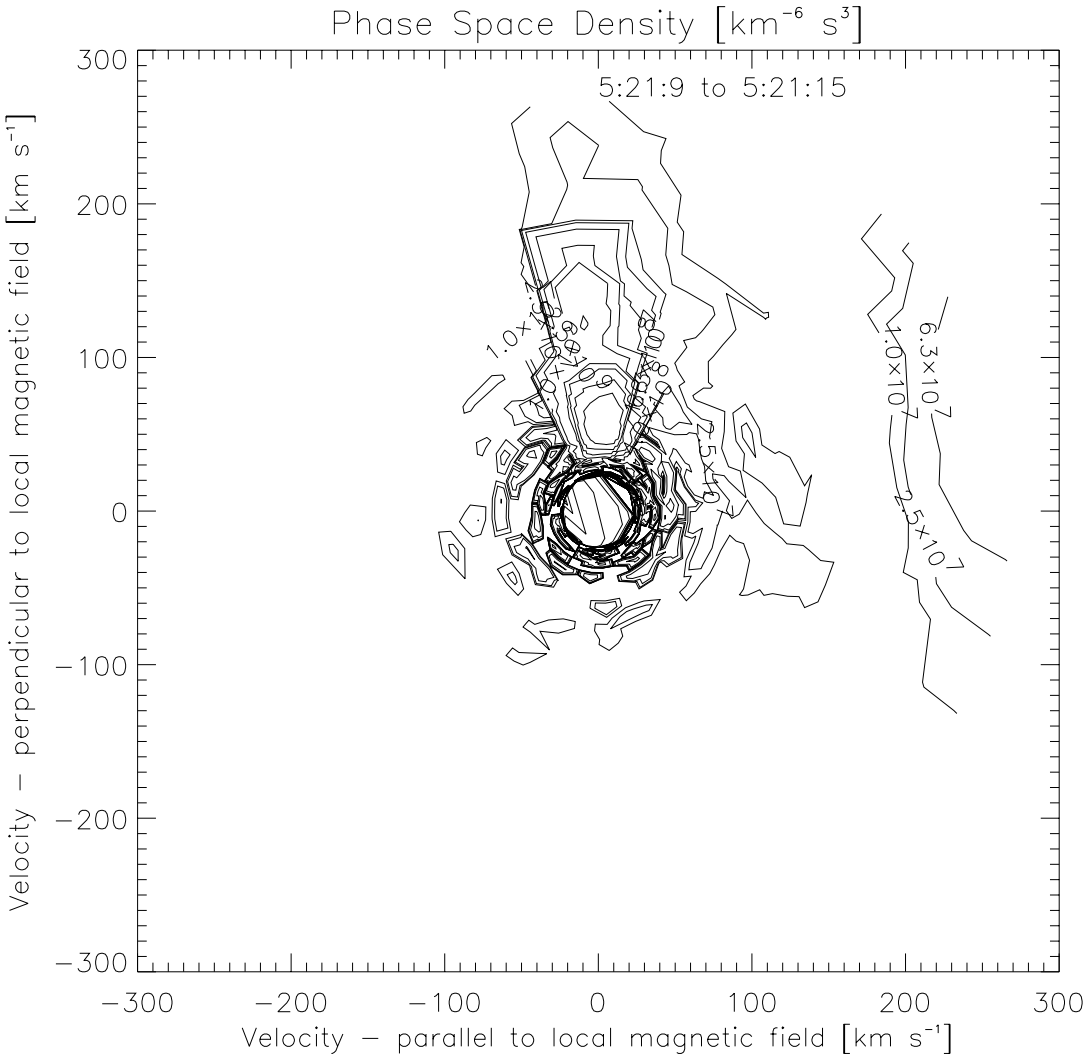
sector_sens: no correction
calibration: tide_calib.v6
mass_calibration: mass_calib.v7
ion_mask: t010213_v2.mask

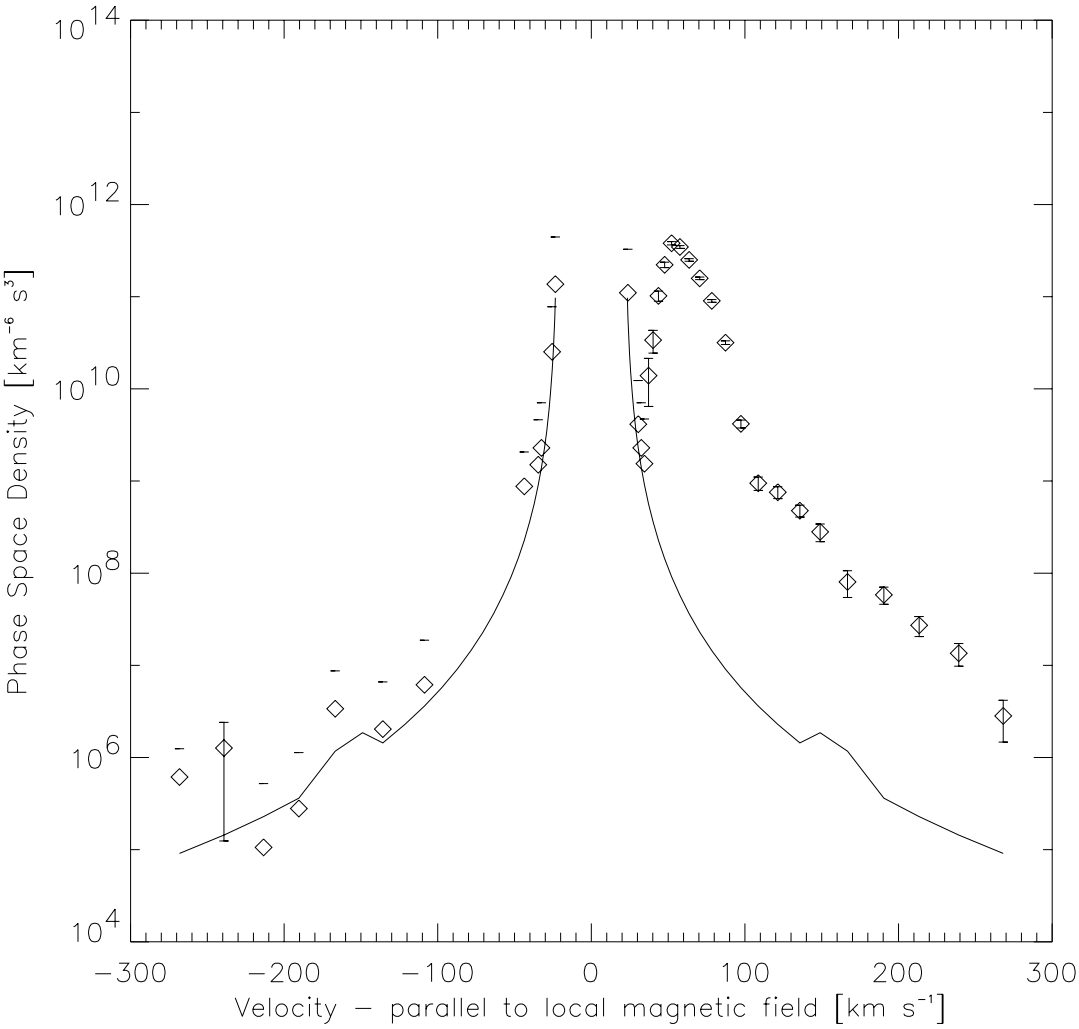
s/c potential = 0.0000
attitude: 01021301.cdf
orbit: 01021301.cdf
level−zero: 01021301.dat

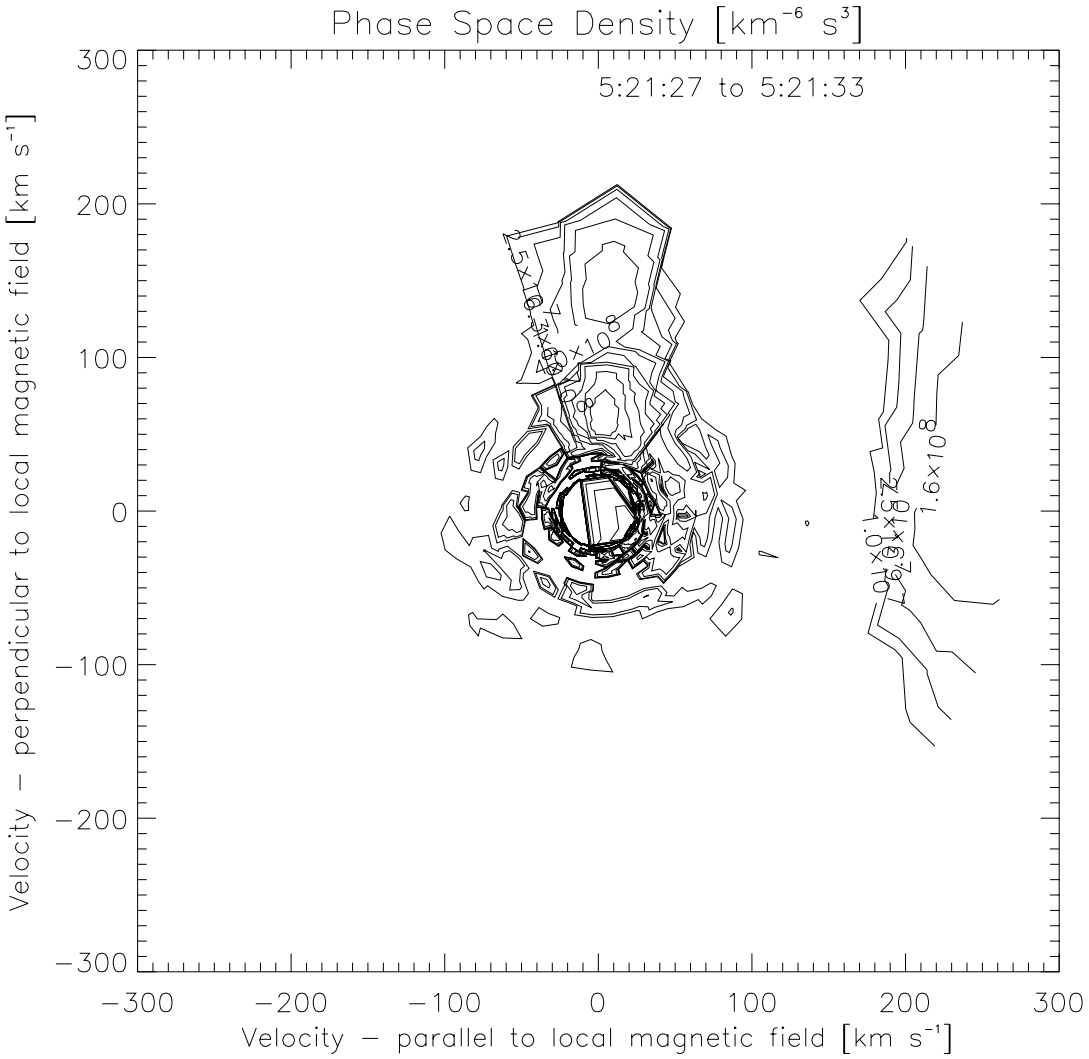

Phase Space Density [km^{-6} s^{3}]
5:23:4 to 5:23:9
4.0×10^{8}
1.6×10^{8}
2.5×10^{7}
1.0×10^{9}
6.3×10^{7}
1.0×10^{7}
4.0×10^{8}
1.6×10^{8}
2.5×10^{7}
300
200
100
0
−100
−200
−300
Velocity − perpendicular to local magnetic field [km s^{-1}]
Velocity − parallel to local magnetic field [km s^{-1}]

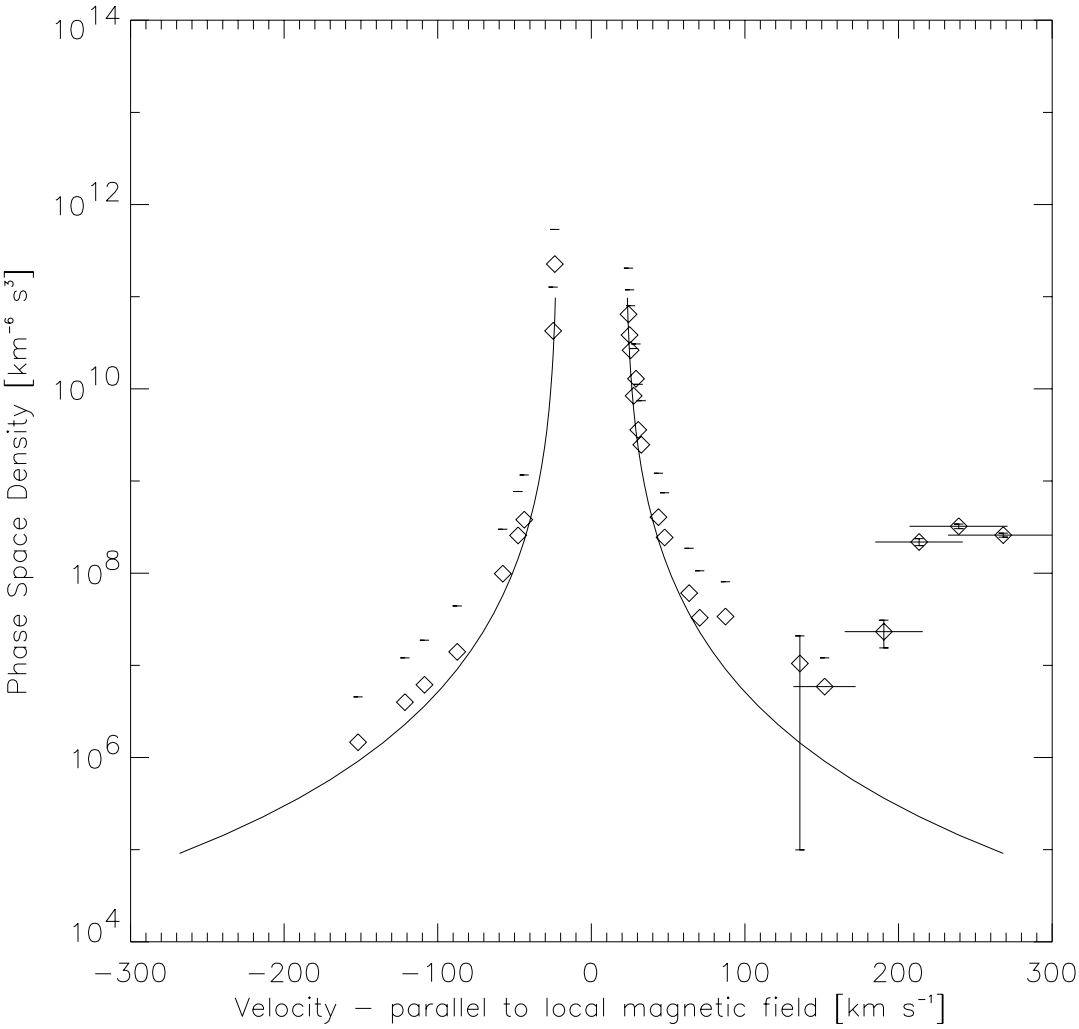

Phase Space Density [km^{-6} s^{3}]
10^{14}
10^{12}
10^{10}
10^{8}
10^{6}
10^{4}
−300
−200
−100
0
100
200
300
Velocity − parallel to local magnetic field [km s^{-1}]

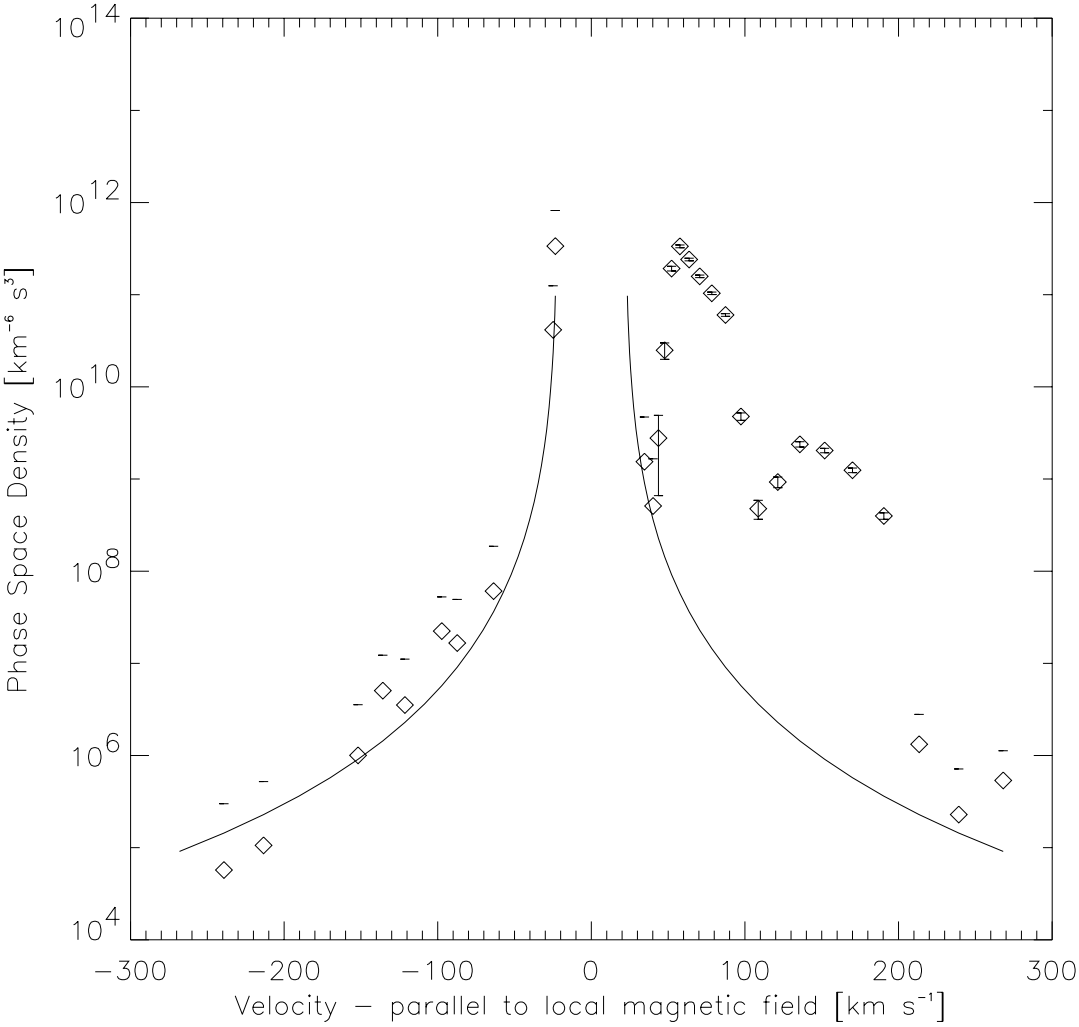

TIDE Moments 010213 04-07UT
1000
100
10
1
0.1
Temperature (eV)
5:14:00
5:16:00
5:18:00
5:20:00
5:22:00
5:24:00
UT (hh:mm:ss)
T para
T perp

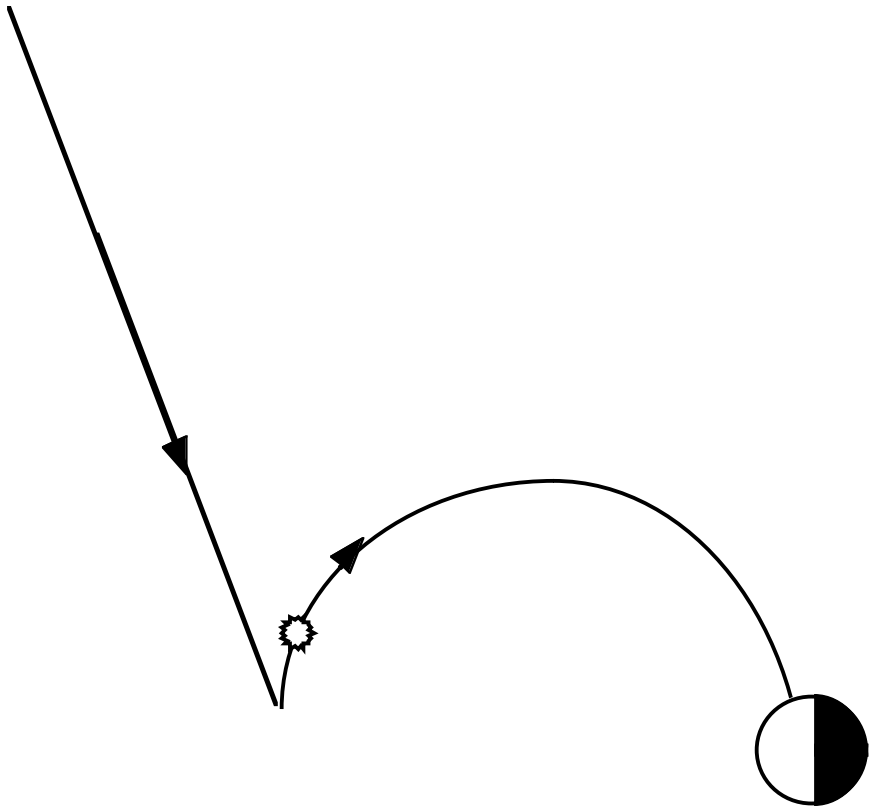

Phase Space Density [km^{-6} s^{3}]
5:21:9 to 5:21:15
1.0×10^{7}
2.5×10^{7}
6.3×10^{7}
Velocity − perpendicular to local magnetic field [km s^{-1}]
Velocity − parallel to local magnetic field [km s^{-1}]
300
200
100
0
−100
−200
−300

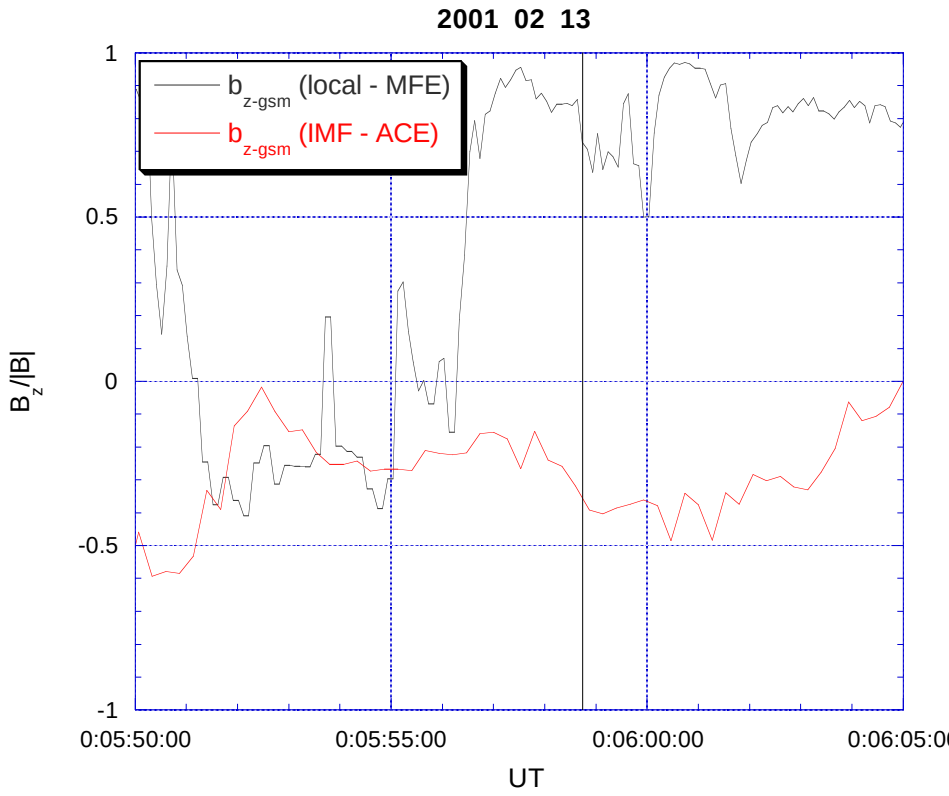

Phase Space Density [km^{-6} s^{3}]
10^{14}
10^{12}
10^{10}
10^{8}
10^{6}
10^{4}
−300
−200
−100
0
100
200
300
Velocity − parallel to local magnetic field [km s^{-1}]

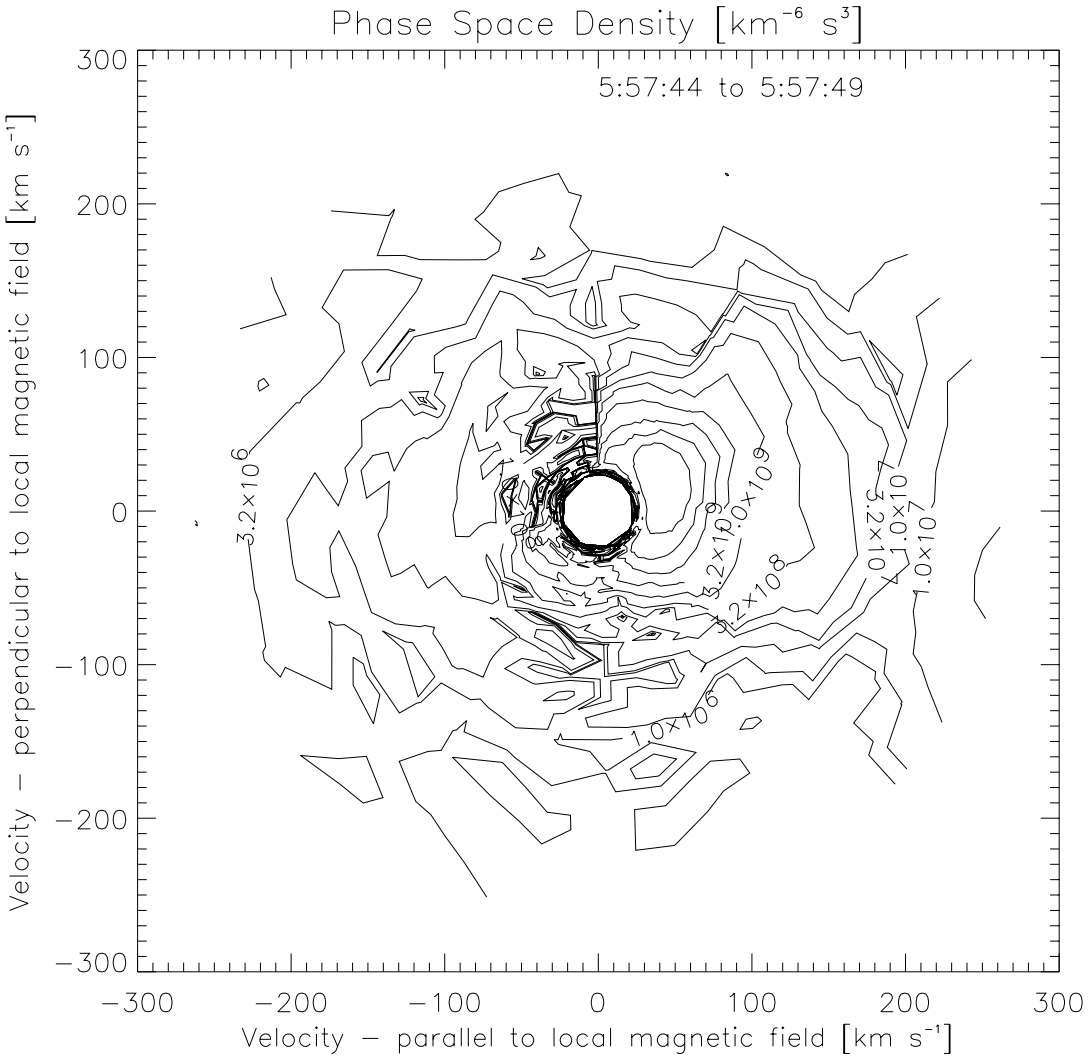

Phase Space Density [km^{-6} s^{3}]
5:21:27 to 5:21:33
Velocity − perpendicular to local magnetic field [km s^{-1}]
Velocity − parallel to local magnetic field [km s^{-1}]
300
200
100
0
−100
−200
−300
−300
−200
−100
0
100
200
300
2.5×10^{7}
3.0×10^{7}
4.0×10^{7}
5.0×10^{7}
1.6×10^{8}
1.0×10^{7}

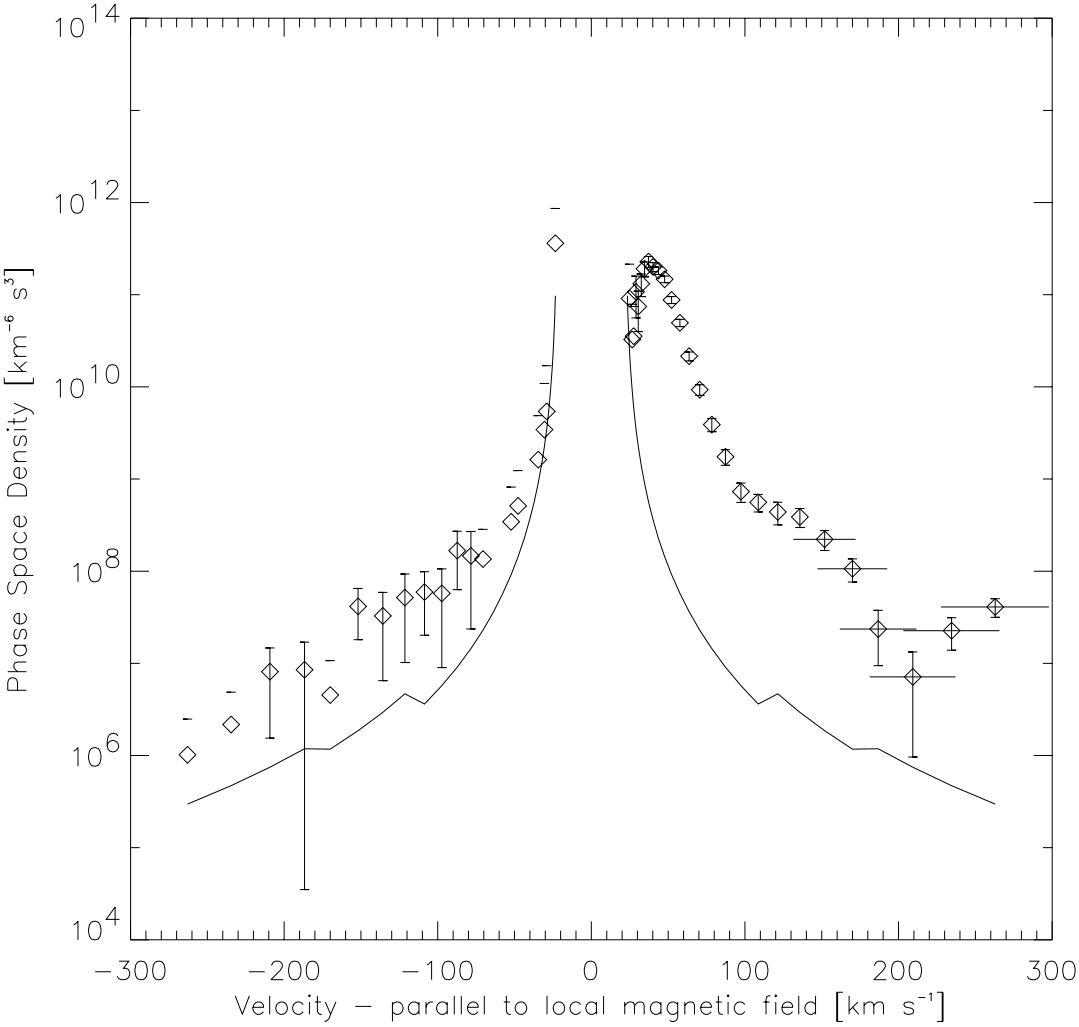

Phase Space Density [km^{-6} s^{3}]
10^{14}
10^{12}
10^{10}
10^{8}
10^{6}
10^{4}
−300
−200
−100
0
100
200
300
Velocity − parallel to local magnetic field [km s^{-1}]


Phase Space Density [km^{-6} s^{3}]
10^{14}
10^{12}
10^{10}
10^{8}
10^{6}
10^{4}
−300
−200
−100
0
100
200
300
Velocity − parallel to local magnetic field [km s^{-1}]




2001 02 13
b z-gsm (local - MFE)
b z-gsm (IMF - ACE)
1
0.5
0
-0.5
-1
B z /|B|
0:05:50:00
0:05:55:00
0:06:00:00
0:06:05:00
UT


Phase Space Density [km^{-6} s^{3}]
5:57:44 to 5:57:49
Velocity − perpendicular to local magnetic field [km s^{-1}]
Velocity − parallel to local magnetic field [km s^{-1}]
300
200
100
0
−100
−200
−300
3.2×10^{6}
1.0×10^{6}
3.2×10^{8}
1.0×10^{9}
3.2×10^{9}
1.0×10^{7}
3.2×10^{7}


Phase Space Density [km^{-6} s^{3}]
10^{14}
10^{12}
10^{10}
10^{8}
10^{6}
10^{4}
−300
−200
−100
0
100
200
300
Velocity − parallel to local magnetic field [km s^{-1}]