Fast
Burst

MMS4 FGM_L2 GSM [nT]
6
4
2
0
−2
−4
|B|
B_x
B_y
B_z

MMS4_FPI Electron L2 no data omni [eV]
10^4
10^3
10^2
10^1

MMS4_FPI Ion L2 BG_corr v3.3.0 omni [eV]
10^4
10^3
10^2
10^1

MMS4 FPI DIS 1−300eV BG_corr PA [deg]
180
135
90
45
0

MMS4 HPCA H+ 1−300eV PA [deg]
180
135
90
45
0
10^7
10^6
10^5
10^4
10^3
eV/(cm^2 s sr eV)

MMS4 HPCA L2 H$^+$ srvy ELEV 0−360 [eV]
10^4
10^3
10^2
10^1
10^0
10^8
10^7
10^6
10^5
10^4
eV/(cm^2 s sr eV)

MMS4 HPCA L2 He^{++} srvy ELEV 0−360 [eV]
10^4
10^3
10^2
10^1
10^0
10^8
10^7
10^6
10^5
10^4
eV/(cm^2 s sr eV)

MMS4 HPCA L2 He$^+$ srvy ELEV 0−360 [eV]
10^4
10^3
10^2
10^1
10^0
10^8
10^7
10^6
10^5
10^4
eV/(cm^2 s sr eV)

MMS4 HPCA L2 O$^+$ srvy ELEV 0−360 [eV]
10^4
10^3
10^2
10^1
10^0
10^8
10^7
10^6
10^5
10^4
eV/(cm^2 s sr eV)

MMS4 FPI_HPCA Number Density [cm^{-3}]
10^2
10^1
10^0
10^{-1}
10^{-2}
10^{-3}
DIS_orig
DIS
H+
He++
He+
O+

MMS4 HPCA H+ BulkV_GSM [km/s]
400
200
0
−200
−400
V_x
V_y
V_z
Sun Dec 20 08:29:43 2020

GSMX [R_E]	11.4358	11.4341	11.4323	11.4303	11.4282	11.4260	11.4236	11.4211	11.4184	11.4157	11.4128	11.4097	11.4066
GSMY [R_E]	17.9755	18.0260	18.0768	18.1279	18.1794	18.2311	18.2831	18.3353	18.3879	18.4407	18.4937	18.5470	18.6005
GSMZ [R_E]	6.5866	6.5714	6.5544	6.5358	6.5154	6.4934	6.4696	6.4441	6.4168	6.3879	6.3572	6.3247	6.2906
hhmm	0000	0005	0010	0015	0020	0025	0030	0035	0040	0045	0050	0055	0100

2018 Nov 22

HPCA_ION v4.1.0, v4.1.5, v4.1.6 HPCA_MOMS v4.1.0, v4.1.4, v4.1.5, v4.1.6