



Fast Burst

IBI  
 $B_x$   
 $B_y$   
 $B_z$

MMS3\_FPI  
 Electron  
 L2  
 v3.3.0  
 omni  
 [eV]

MMS3\_FPI  
 Ion\_L2  
 BC\_corr  
 v3.3.0  
 omni  
 [eV]

MMS3\_FPI  
 DIS  
 1-300eV  
 BC\_corr  
 PA  
 [deg]

MMS3\_HPCA  
 H+  
 1-300eV  
 PA  
 [deg]

MMS3\_HPCA  
 L2  
 H+ srly  
 ELEV  
 0-360  
 [eV]

MMS3\_HPCA  
 L2  
 He++ srly  
 ELEV  
 0-360  
 [eV]

MMS3\_HPCA  
 L2  
 He+ srly  
 ELEV  
 0-360  
 [eV]

MMS3\_HPCA  
 L2  
 O+ srly  
 ELEV  
 0-360  
 [eV]

MMS3\_FPL\_HPCA  
 Number  
 Density  
 [cm^-3]

MMS3\_HPCA  
 BulkV\_GSM  
 [km/s]

GSMX [R<sub>s</sub>] 18.6806 18.6504 18.6200 18.5894 18.5587 18.5279 18.4970 18.4659 18.4346 18.4033 18.3717 18.3401 18.3083  
 GSMY [R<sub>s</sub>] 18.8751 18.8703 18.8655 18.8606 18.8556 18.8506 18.8454 18.8403 18.8350 18.8297 18.8244 18.8190 18.8136  
 GSMZ [R<sub>s</sub>] 1.3565 1.3871 1.4167 1.4453 1.4728 1.4993 1.5247 1.5489 1.5720 1.5940 1.6148 1.6344 1.6528  
 Hm [mm] 2000 2005 2010 2015 2020 2025 2030 2035 2040 2045 2050 2055 2100  
 2020 Dec 31