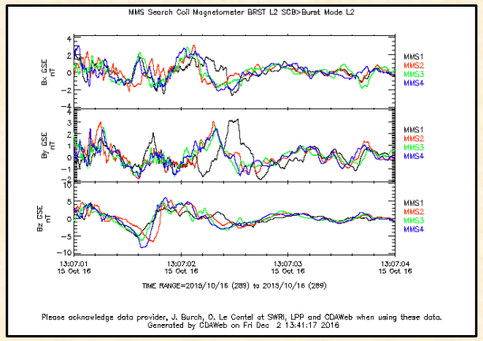
Access To and Use of MMS Data Through SPDF Services

Poster: SM51A-2527

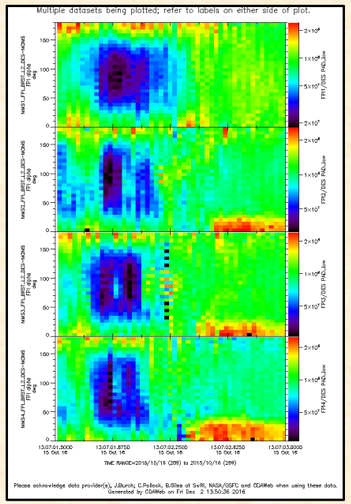
R. McGuire[1], D. Bilitza[2], R. Candey[1], R. Chimiak[3], J. Cooper[1], L. Garcia[4], C. Gladney[5], B. Harris[3], R. Johnson[5] , T. Kovalick[5], N. Lal[1], H. Leckner[5], M. Liu[5], N. Papitashvili[5], A. Roberts[1], R. Yurow[5]
[1]Code 670/NASA Goddard, [2]George Mason University /NASA Goddard, [3]Code 580/NASA Goddard, [4]Wyle/NASA Goddard, [5]ADNET/NASA Goddard

Example CDAWeb Displays of the 2015 Oct 16 13:07:02 UT Electron Diffusion Region (EDR) Event (Burch et al 2016)

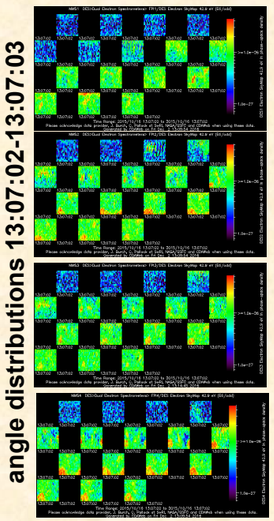
Four S/C; GSE magnetic field components 13:07:01.5-13:07:03
[New in CDAWeb: Multi-Mission Overlays]



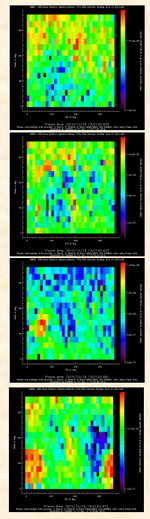
Four S/C; Low energy electron pitch angle distributions 13:07:01.5-13:07:03



Four S/C; thumbnail views of the electron angle distributions 13:07:02-13:07:03

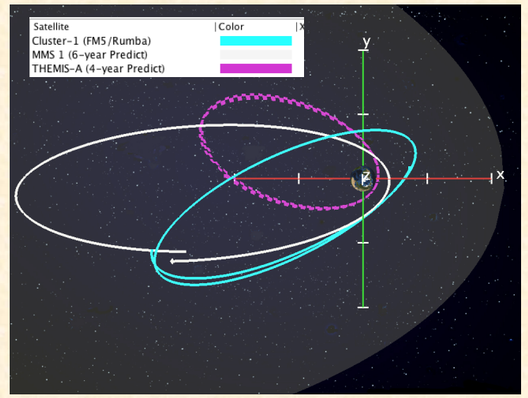


Four S/C; expanded views of the electron angle distributions in the 8th thumbnail



A Special Note: There will be a December 2016 Leap Second.

All CDF Users Should Update to the Latest CDF Version 3.6.3



Extended Orbit Predicts in 4D Orbit Viewer: August 2021

SPDF/CDAWeb Services for MMS Data

Full set of currently-public L2+ Survey and Burst data products

- Plots and (ASCII) listings
  - Overlays of data from all four MMS s/c
- Supersets-subsets by time & select vars
- User & machine (webservices) interfaces
- Direct file downloads via FTP and HTTP

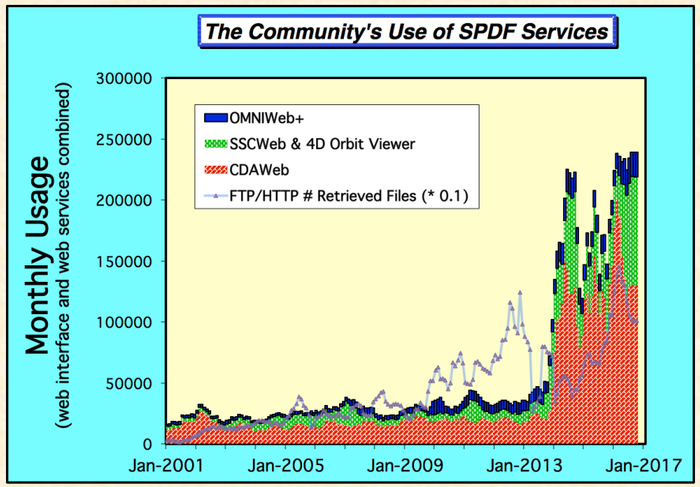
SPDF services for MMS data complement services of the MMS Science Data Center (SDC)

MMS Data in the Context of Other Operating Missions

SPDF/CDAWeb mission data now include:

- Van Allen Probes; THEMIS; Cluster; TWINS
- High-resolution GOES 13-15; NOAA 15-19 and MetOp1-2 POES-SEM; DMSP SSM and SSJ
- >130 Ground-Based Observatories
- ACE and Wind (with DSCOVR very soon)

Future missions/datasets are expected to include ICON, GOLD, GOES-16 and Solar Probe Plus plus additional high-resolution data from GOES including GOES-16, other Geosynchronous S/C and possibly in-situ data from Solar Orbiter



~33% of 2015 Space Physics Papers in AGU Journals Acknowledged SPDF Services and/or Data

Space Physics Data Facility (http://spdf.gsfc.nasa.gov)