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Data Access

- [FTPS from the MMS SDC \(not with most browsers\)](#)
- [HTTPS from the MMS SDC](#)
- [FTPS from SPDF \(not with most browsers\)](#)
- [HTTPS from SPDF](#)
- [CDAWeb](#)
- [HAPI: CDAWeb HAPI Server](#)

MMS 1 Electron Drift Instrument (EDI) Ambient Electron Flux, Projection Method 2 (PM2), Level 2 (L2), Burst Mode, 0.9765625 ms Data

Torbert, R.B., Argall, M.R., and Burch, J.L. (2022). MMS 1 Electron Drift Instrument (EDI) Ambient Electron Flux, Projection Method 2 (PM2), Level 2 (L2), Burst Mode, 0.9765625 ms Data [Data set]. NASA Space Physics Data Facility. <https://doi.org/10.48322/2hhk-px04>. Accessed on 2023-April-5.

ResourceID

spase://NASA/NumericalData/MMS/1/FIELDS/EDI/Burst/Level2/AmbientElectronFlux/ProjectionMethod2/PT0.0009765625

Description

Electron Drift Instrument (EDI) Ambient Burst Survey, Level 2, 0.0009765625 s Data (1024 samples/s). EDI has two scientific data acquisition modes, called electric field mode and ambient mode. In electric field mode, two coded electron beams are emitted such that they return to the detectors after one or more gyrations in the ambient magnetic and electric field. The firing directions and times-of-flight allow the derivation of the drift velocity and electric field. In ambient mode, the electron beams are not used. The detectors with their large geometric factors and their ability to adjust the field of view quickly allow continuous sampling of ambient electrons at a selected pitch angle and fixed but selectable energy. To find the beam directions that will hit the detector, EDI sweeps each beam in the plane perpendicular to B at a fixed angular rate of 0.22 °/ms until a signal has been acquired by the detector. Once signal has been acquired, the beams are swept back and forth to stay on target. Beam detection is not determined from the changes in the count-rates directly, but from the square of the beam counts divided by the background counts from ambient electrons, i.e., from the square of the instantaneous signal-to-noise ratio (SNR). This quantity is computed from data provided by the correlator in the Gun-Detector Electronics that also generates the coding pattern imposed on the outgoing beams. If the squared SNR ratio exceeds a threshold, this is taken as evidence that the beam is returning to the detector. The thresholds for SNR are chosen dependent on background fluxes. They represent a compromise between getting false hits (induced by strong variations in background electron fluxes) and missing true beam hits. The basic software loop that controls EDI operations is executed every 2 ms. As the times when the beams hit their detectors are neither synchronized with the telemetry nor equidistant, EDI data have no fixed time-resolution. Data are reported in telemetry slots. In Survey, using the standard packing mode 0, there are eight telemetry slots per second and Gyn Detector Unit (GDU). The last beam detected during the previous slot will be reported in the current slot. If no beam has been detected, the data quality will be set to zero. In Burst telemetry there are 128 slots per second and GDU. The data in each slot consists of information regarding the beam firing directions (stored in the form of analytic gun deflection voltages), times-of-flight (if successfully measured), quality indicators, time stamps of the beam hits, and some auxiliary correlator-related information. Whenever EDI is not in electron drift mode, it uses its ambient electron mode. The mode has the capability to sample at either 90 degrees pitch angle or at 0/180 degrees (field aligned), or to alternate between 90 degrees and field aligned with selectable dwell times. While all options have been demonstrated during the commissioning phase, only the field aligned mode has been used in the routine operations phase. The choices for energy are 250 eV, 500 eV, and 1 keV. The two detectors, which are facing opposite hemispheres, are looking strictly into opposite directions, so while one detector is looking along B the other is looking antiparallel to B (corresponding to pitch angles of 180 and 0 degrees, respectively). The two detectors switch roles every half spin of the spacecraft as the tip of the magnetic field vector spins outside the field of view of one detector and into the field of view of the other detector. Starting January 4, 2016, the anodes were chosen such that the projection of the magnetic field vector was best aligned with the center of the first (that is, outer) of the four anodes. This provides coverage of a larger range of pitch angles in general. Data taken in this configuration are identified by the term "amb-pm2" in the data product names. In the burst data where four channels (corresponding to the four adjacent sensor anode pads) are sampled per GDU, channel 1 represents best the pitch angle of 0 degrees (or 180 degrees). The EDI instrument paper can be found at: <http://link.springer.com/article/10.1007%2Fs11214-015-0182-7>. The EDI instrument data products guide can be found at <https://lasp.colorado.edu/mms/sdc/public/datasets/fields/>.

Details

[View XML](#) | [View JSON](#) | [Edit](#)

Version: 2.5.0

NumericalData

ResourceID

spase://NASA/NumericalData/MMS/1/FIELDS/EDI/Burst/Level2/AmbientElectronFlux/ProjectionMethod2/PT0.0009765625S

ResourceHeader

ResourceName

MMS 1 Electron Drift Instrument (EDI) Ambient Electron Flux, Projection Method 2 (PM2), Level 2 (L2), Burst Mode, 0.9765625 ms Data

AlternateName

MMS1_EDI_BRST_L2_AMB-PM2

DOI

<https://doi.org/10.48322/2hhk-px04>

ReleaseDate

2023-03-04 12:34:56.789

RevisionHistory

RevisionEvent

ReleaseDate

2021-04-27 15:38:11

Note

Only known prior ReleaseDate of the metadata

RevisionEvent

ReleaseDate

2022-08-04 12:34:56.789

Note

Added DOI and PublicationInfo minted by LFB, updated the RepositoryID, updated the SPDF MetadataContact Person to Robert M. Candey, metadata updated to SPASE 2.4.1, reviewed by LFB 20220803

RevisionEvent**ReleaseDate**

2023-03-04 12:34:56.789

Note

Standardized the ResourceName Format, Set AlternateName equal to the ProductKey, Revised the Acknowledgement, PublicationInfo Authors, and Contact Person list per request of the MMS EDI team, metadata updated to SPASE 2.5.0, reviewed by LFB 20230304

Description

Electron Drift Instrument (EDI) Ambient Burst Survey, Level 2, 0.0009765625 s Data (1024 samples/s). EDI has two scientific data acquisition modes, called electric field mode and ambient mode. In electric field mode, two coded electron beams are emitted such that they return to the detectors after one or more gyrations in the ambient magnetic and electric field. The firing directions and times-of-flight allow the derivation of the drift velocity and electric field. In ambient mode, the electron beams are not used. The detectors with their large geometric factors and their ability to adjust the field of view quickly allow continuous sampling of ambient electrons at a selected pitch angle and fixed but selectable energy. To find the beam directions that will hit the detector, EDI sweeps each beam in the plane perpendicular to B at a fixed angular rate of 0.22 °/ms until a signal has been acquired by the detector. Once signal has been acquired, the beams are swept back and forth to stay on target. Beam detection is not determined from the changes in the count-rates directly, but from the square of the beam counts divided by the background counts from ambient electrons, i.e., from the square of the instantaneous signal-to-noise ratio (SNR). This quantity is computed from data provided by the correlator in the Gun-Detector Electronics that also generates the coding pattern imposed on the outgoing beams. If the squared SNR ratio exceeds a threshold, this is taken as evidence that the beam is returning to the detector. The thresholds for SNR are chosen dependent on background fluxes. They represent a compromise between getting false hits (induced by strong variations in background electron fluxes) and missing true beam hits. The basic software loop that controls EDI operations is executed every 2 ms. As the times when the beams hit their detectors are neither synchronized with the telemetry nor equidistant, EDI data have no fixed time-resolution. Data are reported in telemetry slots. In Survey, using the standard packing mode 0, there are eight telemetry slots per second and Gyn Detector Unit (GDU). The last beam detected during the previous slot will be reported in the current slot. If no beam has been detected, the data quality will be set to zero. In Burst telemetry there are 128 slots per second and GDU. The data in each slot consists of information regarding the beam firing directions (stored in the form of analytic gun deflection voltages), times-of-flight (if successfully measured), quality indicators, time stamps of the beam hits, and some auxiliary correlator-related information. Whenever EDI is not in electron drift mode, it uses its ambient electron mode. The mode has the capability to sample at either 90 degrees pitch angle or at 0/180 degrees (field aligned), or to alternate between 90 degrees and field aligned with selectable dwell times. While all options have been demonstrated during the commissioning phase, only the field aligned mode has been used in the routine operations phase. The choices for energy are 250 eV, 500 eV, and 1 keV. The two detectors, which are facing opposite hemispheres, are looking strictly into opposite directions, so while one detector is looking along B the other is looking antiparallel to B (corresponding to pitch angles of 180 and 0 degrees, respectively). The two detectors switch roles every half spin of the spacecraft as the tip of the magnetic field vector spins outside the field of view of one detector and into the field of view of the other detector. Starting January 4, 2016, the anodes were chosen such that the projection of the magnetic field vector was best aligned with the center of the first (that is, outer) of the four anodes. This provides coverage of a larger range of pitch angles in general. Data taken in this configuration are identified by the term "amb-pm2" in the data product names. In the burst data where four channels (corresponding to the four adjacent sensor anode pads) are sampled per GDU, channel 1 represents best the pitch angle of 0 degrees (or 180 degrees). The EDI instrument paper can be found at: <http://link.springer.com/article/10.1007%2Fs11214-015-0182-7>. The EDI instrument data products guide can be found at <https://lasp.colorado.edu/mms/sdc/public/datasets/fields/>.

Acknowledgement

Please acknowledge R.B. Torbert, M.R. Argall, and J.L. Burch for use of these data

PublicationInfo**Authors**

Torbert, Roy, B.; Argall, Matthew, R.; Burch, James, L.

PublicationDate

2022-01-01 00:00:00

PublishedBy

NASA Space Physics Data Facility

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3. PrincipalInvestigator	spase://SMWG/Person/James.L.Burch			
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6. MetadataContact	spase://SMWG/Person/Lee.Frost.Bargatze			

InformationURL**Name**

The Magnetospheric Multiscale (MMS) Mission home page at Goddard Space Flight Center (GSFC)

URL

<https://mms.gsfc.nasa.gov/>

Description

The Magnetospheric Multiscale (MMS) Mission Home Page hosted by the Goddard Space Flight Center (GSFC).

InformationURL**Name**

Data Caveats and Current Release Notes at LASP MMS SDC

URL

<https://lasp.colorado.edu/mms/sdc/public/datasets/fields/>

Description

The Magnetospheric Multiscale (MMS) Mission home page hosted by the Laboratory of Atmospheric and Space Physics, Science Data Center (LASP, SDC) at the University of Colorado, Boulder.

InformationURL**Name**

At UNH

URL<https://mms-fields.unh.edu/>**Description**

The Magnetospheric Multiscale (MMS) FIELDS Instrument Suite home page. The web page is hosted by the University of New Hampshire (UNH).

PriorIDs

spase://VSPO/NumericalData/MMS/1/FIELDS/EDI/Burst/Level2/AmbientElectronFlux/ProjectionMethod2/PT0.0009765625S

AccessInformation**RepositoryID**

spase://SMWG/Repository/UCOLO/LASP/MMS_SDC

Availability

Online

AccessRights

Open

AccessURL**Name**

FTPS from the MMS SDC (not with most browsers)

URL

<https://lasp.colorado.edu/mms/sdc/public/data/mms1/edi/brst/l2/amb-pm2/>

Description

In CDF via ftp from the MMS Science Data Center

AccessURL**Name**

HTTPS from the MMS SDC

URL

<https://lasp.colorado.edu/mms/sdc/public/data/mms1/edi/brst/l2/amb-pm2/>

Description

In CDF via http from the MMS Science Data Center

Format

CDF

Encoding

None

Acknowledgement

Please acknowledge R.B. Torbert, M.R. Argall, and J.L. Burch. Also please acknowledge the data providers and CDAWeb when using these data.

AccessInformation**RepositoryID**

<spase://SMWG/Repository/NASA/GSFC/SPDF/CDAWeb>

Availability

Online

AccessRights

Open

AccessURL**Name**

FTPS from SPDF (not with most browsers)

URL

<https://spdf.gsfc.nasa.gov/pub/data/mms/mms1/edi/brst/l2/amb-pm2/>

Description

In CDF via ftp from SPDF

AccessURL**Name**

HTTPS from SPDF

URL

<https://spdf.gsfc.nasa.gov/pub/data/mms/mms1/edi/brst/l2/amb-pm2/>

Description

In CDF via http from SPDF

AccessURL**Name**

CDAWeb

URL

https://cdaweb.gsfc.nasa.gov/cgi-bin/eval2.cgi?dataset=MMS1_EDI_BRST_L2_AMB-PM2&index=sp_phys

ProductKey

MMS1_EDI_BRST_L2_AMB-PM2

Description

Access to ASCII, CDF, and plots via NASA/GSFC CDAWeb

Format

CDF

Encoding

None

Acknowledgement

Please acknowledge R.B. Torbert, M.R. Argall, and J.L. Burch. Also please acknowledge the data providers and CDAWeb when using these data.

AccessInformation**RepositoryID**

<spase://SMWG/Repository/NASA/GSFC/SPDF/CDAWeb>

Availability

Online

AccessRights

Open

AccessURL**Name**

CDAWeb HAPI Server

URL

<https://cdaweb.gsfc.nasa.gov/hapi>

Style

HAPI

ProductKey

MMS1_EDI_BRST_L2_AMB-PM2

Description

Web Service to this product using the HAPI interface

Format

CSV

Acknowledgement

Please acknowledge R.B. Torbert, M.R. Argall, and J.L. Burch. Also please acknowledge the data providers and CDAWeb when using these data.

ProcessingLevel

Calibrated

InstrumentIDs

<spase://SMWG/Instrument/MMS/1/FIELDS/EDI>

MeasurementType

EnergeticParticles

TemporalDescription**TimeSpan****StartDate**

2016-01-14 20:45:04

RelativeStopDate

-P2M

Cadence

PT0.0009765625S

ObservedRegion

Earth.Magnetosheath

ObservedRegion

Earth.Magnetosphere

ObservedRegion

Earth.Magnetosphere.Magnetotail

ObservedRegion

Earth.Magnetosphere.Main

ObservedRegion

Earth.Magnetosphere.RadiationBelt

ObservedRegion

Earth.NearSurface.EquatorialRegion

ObservedRegion

Earth.NearSurface.Plasmasphere

ObservedRegion

Heliosphere.NearEarth

Parameter #1**Name**

Epoch Time, 0 degree Electrons

ParameterKey

epoch_0

Description

Epoch Time Tags for EDU 0 degree Pitch Angle Electron Count Data, Terrestrial Time 2000 (TT2000)

Cadence

PT0.0009765625S

Units

ns

UnitsConversion

1e-9>s

RenderingHints**AxisLabel**

UT

ValueFormat

I16

ValidMin

2015-03-01T00:00:00.000000000

ValidMax

2065-12-31T00:00:01.000000000

FillValue

9999-12-31T23:59:59.999999999

Support**SupportQuantity**

Temporal

Parameter #2

Name

Epoch Time, 180 degree Electrons

ParameterKey

epoch_180

Description

Epoch Time Tags for EDU 180 degree Pitch Angle Electron Count Data, Terrestrial Time 2000 (TT2000)

Cadence

PT0.0009765625S

Units

ns

UnitsConversion

1e-9>s

RenderingHints**AxisLabel**

UT

ValueFormat

I16

ValidMin

2015-03-01T00:00:00.000000000

ValidMax

2065-12-31T00:00:01.000000000

FillValue

9999-12-31T23:59:59.999999999

Support**SupportQuantity**

Temporal

Parameter #3

Name

Epoch Time Tag

ParameterKey

epoch_timetag

Description

Epoch Time Tags for EDU Support Data, Terrestrial Time 2000 (TT2000)

Cadence

PT0.0009765625S

Units

ns

UnitsConversion

1e-9>s

RenderingHints**AxisLabel**

UT

ValueFormat

I16

ValidMin

2015-03-01T00:00:00.000000000

ValidMax

2065-12-31T00:00:01.000000000

FillValue

9999-12-31T23:59:59.999999999

Support**SupportQuantity**

Temporal

Parameter #4

Name

Optics State

Set

Time series defined by using: EPOCH_TIMETAG

ParameterKey

mms1_edi_optics_state_brst_l2

Description

Optics State Parameter Setting

Cadence

PT0.0009765625S

RenderingHints**AxisLabel**

Optics

ValueFormat

I4

ValidMin

0

ValidMax

254

FillValue

255

Support**SupportQuantity**

InstrumentMode

Parameter #5

Name

GDU1 Beam Energy

Set

Time series defined by using: EPOCH_TIMETAG

ParameterKey

mms1_edi_energy_gdu1_brst_l2

Description

Gun Detector Unit 2 Beam Energy

Cadence

PT0.0009765625S

Units

eV

UnitsConversion

1.602e-19>J

RenderingHints**AxisLabel**

Energy

ValueFormat

I4

ValidMin

0

ValidMax

1000

FillValue

65535

Particle**ParticleType**

Electron

Qualifier

Scalar

ParticleQuantity

Energy

Parameter #6

Name

GDU2 Beam Energy

Set

Time series defined by using: EPOCH_TIMETAG

ParameterKey

mms1_edi_energy_gdu2_brst_l2

Description

Gun Detector Unit 1 Beam Energy

Cadence

PT0.0009765625S

Units

eV

UnitsConversion

1.602e-19>J

RenderingHints**AxisLabel**

Energy

ValueFormat

I4

ValidMin

0

ValidMax

1000

FillValue

65535

Particle**ParticleType**

Electron

Qualifier

Scalar

ParticleQuantity

Energy

Parameter #7

Name

GDU Identifier, 0 degree, Pitch Angle

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edi_gdu_0_brst_I2

Description

Sorts 0 degree Flux Counts by Gun Detector Unit

Cadence

PT0.0009765625S

RenderingHints**ValueFormat**

I1

ValidMin

1

ValidMax

2

FillValue

255

Particle**ParticleType**

Electron

Qualifier

Scalar

ParticleQuantity

Counts

Parameter #8

Name

GDU Identifier, 180 degree, Pitch Angle

Set

Time series defined by using: EPOCH_180

ParameterKey

mms1_edi_gdu_180_brst_I2

Description

Sorts 180 degree Flux Counts by Gun Detector Unit

Cadence

PT0.0009765625S

RenderingHints**ValueFormat**

I1

ValidMin

1

ValidMax

2

FillValue

255

Particle**ParticleType**

Electron

Qualifier

Scalar

ParticleQuantity

Counts

Parameter #9

Name

Electron Flux, Trajectory 1, 0 degree Pitch Angle

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edi_flux1_0_brst_l2

Description

Flux for Electrons with Trajectories given by traj1_0

Cadence

PT0.0009765625S

Units $\text{cm}^{-2} \text{s}^{-1}$ **UnitsConversion** $1\text{e}4 > \text{m}^{-2} \text{s}^{-1}$ **RenderingHints****DisplayType**

TimeSeries

AxisLabel

Flux

ValueFormat

E12.5

ValidMin

0.0

ValidMax

1.0e+20

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Directional

ParticleQuantity

NumberFlux

Parameter #10

Name

Electron Flux, Trajectory 2, 0 degree Pitch Angle

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edi_flux2_0_brst_l2

Description

Flux for Electrons with Trajectories given by traj2_0

Cadence

PT0.0009765625S

Units $\text{cm}^{-2} \text{s}^{-1}$ **UnitsConversion** $1\text{e}4 > \text{m}^{-2} \text{s}^{-1}$ **RenderingHints****DisplayType**

TimeSeries

AxisLabel

Flux

ValueFormat

E12.5

ValidMin

0.0

ValidMax

1.0e+20

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Directional

ParticleQuantity

NumberFlux

Parameter #11

Name

Electron Flux, Trajectory 3, 0 degree Pitch Angle

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edi_flux3_0_brst_l2

Description

Flux for Electrons with Trajectories given by traj3_0

Cadence

PT0.0009765625S

Units $\text{cm}^{-2} \text{s}^{-1}$ **UnitsConversion** $1\text{e}4 > \text{m}^{-2} \text{s}^{-1}$ **RenderingHints****DisplayType**

TimeSeries

AxisLabel

Flux

ValueFormat

E12.5

ValidMin

0.0

ValidMax

1.0e+20

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Directional

ParticleQuantity

NumberFlux

Parameter #12

Name

Electron Flux, Trajectory 4, 0 degree Pitch Angle

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edi_flux4_0_brst_l2

Description

Flux for Electrons with Trajectories given by traj4_0

Cadence

PT0.0009765625S

Units $\text{cm}^{-2} \text{s}^{-1}$ **UnitsConversion** $1\text{e}4 > \text{m}^{-2} \text{s}^{-1}$ **RenderingHints****DisplayType**

TimeSeries

AxisLabel

Flux

ValueFormat

E12.5

ValidMin

0.0

ValidMax

1.0e+15

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Directional

ParticleQuantity

NumberFlux

Parameter #13

Name

Electron Flux, Trajectory 1, 180 degree Pitch Angle

Set

Time series defined by using: EPOCH_180

ParameterKey

mms1_edi_flux1_180_brst_I2

Description

Flux for Electrons with Trajectories given by traj1_180

Cadence

PT0.0009765625S

Units $\text{cm}^{-2} \text{s}^{-1}$ **UnitsConversion** $1\text{e}4 > \text{m}^{-2} \text{s}^{-1}$ **RenderingHints****DisplayType**

TimeSeries

AxisLabel

Flux

ValueFormat

E12.5

ValidMin

0.0

ValidMax

1.0e+20

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Directional

ParticleQuantity

NumberFlux

Parameter #14

Name

Electron Flux, Trajectory 2, 180 degree Pitch Angle

Set

Time series defined by using: EPOCH_180

ParameterKey

mms1_edi_flux2_180_brst_I2

Description

Flux for Electrons with Trajectories given by traj2_180

Cadence

PT0.0009765625S

Units $\text{cm}^{-2} \text{s}^{-1}$ **UnitsConversion** $1\text{e}4 > \text{m}^{-2} \text{s}^{-1}$ **RenderingHints****DisplayType**

TimeSeries

AxisLabel

Flux

ValueFormat

E12.5

ValidMin

0.0

ValidMax

1.0e+20

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Directional

ParticleQuantity

NumberFlux

Parameter #15

Name

Electron Flux, Trajectory 3, 180 degree Pitch Angle

Set

Time series defined by using: EPOCH_180

ParameterKey

mms1_edi_flux3_180_brst_I2

Description

Flux for Electrons with Trajectories given by traj3_180

Cadence

PT0.0009765625S

Units $\text{cm}^{-2} \text{s}^{-1}$ **UnitsConversion** $1\text{e}4 > \text{m}^{-2} \text{s}^{-1}$ **RenderingHints****DisplayType**

TimeSeries

AxisLabel

Flux

ValueFormat

E12.5

ValidMin

0.0

ValidMax

1.0e+20

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Directional

ParticleQuantity

NumberFlux

Parameter #16

Name

Electron Flux, Trajectory 4, 180 degree Pitch Angle

Set

Time series defined by using: EPOCH_180

ParameterKey

mms1_edi_flux4_180_brst_I2

Description

Flux for Electrons with Trajectories given by traj4_180

Cadence

PT0.0009765625S

Units $\text{cm}^{-2} \text{s}^{-1}$ **UnitsConversion** $1\text{e}4 > \text{m}^{-2} \text{s}^{-1}$ **RenderingHints****DisplayType**

TimeSeries

AxisLabel

Flux

ValueFormat

E12.5

ValidMin

0.0

ValidMax

1.0e+20

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Directional

ParticleQuantity

NumberFlux

Parameter #17

Name

Electron Flux Error, Trajectory 1, 0 degree Pitch Angle

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edi_flux1_0_delta_brst_I2

Description

Error for flux1 0 degree Pitch Angle Electron Flux

Cadence

PT0.0009765625S

Units $\text{cm}^{-2} \text{s}^{-1}$ **UnitsConversion** $1\text{e}4 > \text{m}^{-2} \text{s}^{-1}$ **RenderingHints****AxisLabel**

dFlux

ValueFormat

E12.5

ValidMin

0.0

ValidMax

1.0e+20

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Uncertainty

ParticleQuantity

NumberFlux

Parameter #18

Name

Electron Flux Error, Trajectory 2, 0 degree Pitch Angle

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edi_flux2_0_delta_brst_I2

Description

Error for flux2 0 degree Pitch Angle Electron Flux

Cadence

PT0.0009765625S

Units $\text{cm}^{-2} \text{s}^{-1}$ **UnitsConversion** $1\text{e}4 > \text{m}^{-2} \text{s}^{-1}$ **RenderingHints****AxisLabel**

dFlux

ValueFormat

E12.5

ValidMin

0.0

ValidMax

1.0e+30

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Uncertainty

ParticleQuantity

NumberFlux

Parameter #19

Name

Electron Flux Error, Trajectory 3, 0 degree Pitch Angle

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edl_flux3_0_delta_brst_l2

Description

Error for flux3 0 degree Pitch Angle Electron Flux

Cadence

PT0.0009765625S

Units $\text{cm}^{-2} \text{s}^{-1}$ **UnitsConversion** $1\text{e}4 > \text{m}^{-2} \text{s}^{-1}$ **RenderingHints****AxisLabel**

dFlux

ValueFormat

E12.5

ValidMin

0.0

ValidMax

1.0e+30

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Uncertainty

ParticleQuantity

NumberFlux

Parameter #20

Name

Electron Flux Error, Trajectory 4, 0 degree Pitch Angle

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edl_flux4_0_delta_brst_l2

Description

Error for flux4 0 degree Pitch Angle Electron Flux

Cadence

PT0.0009765625S

Units $\text{cm}^{-2} \text{s}^{-1}$ **UnitsConversion** $1\text{e}4 > \text{m}^{-2} \text{s}^{-1}$ **RenderingHints****AxisLabel**

dFlux

ValueFormat

E12.5

ValidMin

0.0

ValidMax

1.0e+30

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Uncertainty

ParticleQuantity

NumberFlux

Parameter #21

Name

Electron Flux Error, Trajectory 1, 180 degree Pitch Angle

Set

Time series defined by using: EPOCH_180

ParameterKey

mms1_edl_flux1_180_delta_brst_l2

Description

Error for flux1 180 degree Pitch Angle Electron Flux

Cadence

PT0.0009765625S

Units $\text{cm}^{-2} \text{s}^{-1}$ **UnitsConversion** $1\text{e}4 > \text{m}^{-2} \text{s}^{-1}$ **RenderingHints****AxisLabel**

dFlux

ValueFormat

E12.5

ValidMin

0.0

ValidMax $1.0\text{e}+20$ **FillValue** $-1.0\text{e}+31$ **Particle****ParticleType**

Electron

Qualifier

Uncertainty

ParticleQuantity

NumberFlux

Parameter #22

Name

Electron Flux Error, Trajectory 2, 180 degree Pitch Angle

Set

Time series defined by using: EPOCH_180

ParameterKey

mms1_edi_flux2_180_delta_brst_l2

Description

Error for flux2 180 degree Pitch Angle Electron Flux

Cadence

PT0.0009765625S

Units $\text{cm}^{-2} \text{s}^{-1}$ **UnitsConversion** $1\text{e}4 > \text{m}^{-2} \text{s}^{-1}$ **RenderingHints****AxisLabel**

dFlux

ValueFormat

E12.5

ValidMin

0.0

ValidMax $1.0\text{e}+30$ **FillValue** $-1.0\text{e}+31$ **Particle****ParticleType**

Electron

Qualifier

Uncertainty

ParticleQuantity

NumberFlux

Parameter #23

Name

Electron Flux Error, Trajectory 3, 180 degree Pitch Angle

Set

Time series defined by using: EPOCH_180

ParameterKey

mms1_edi_flux3_180_delta_brst_l2

Description

Error for flux3 180 degree Pitch Angle Electron Flux

Cadence

PT0.0009765625S

Units
cm⁻² s⁻¹

UnitsConversion
1e4>m⁻² s⁻¹

RenderingHints

AxisLabel
dFlux

ValueFormat
E12.5

ValidMin
0.0

ValidMax
1.0e+30

FillValue
-1.0e+31

Particle

ParticleType
Electron

Qualifier
Uncertainty

ParticleQuantity
NumberFlux

Parameter #24

Name
Electron Flux Error, Trajectory 4, 180 degree Pitch Angle

Set
Time series defined by using: EPOCH_180

ParameterKey
mms1_edl_flux4_180_delta_brst_I2

Description
Error for flux4 180 degree Pitch Angle Electron Flux

Cadence
PT0.0009765625S

Units
cm⁻² s⁻¹

UnitsConversion
1e4>m⁻² s⁻¹

RenderingHints

AxisLabel
dFlux

ValueFormat
E12.5

ValidMin
0.0

ValidMax
1.0e+30

FillValue
-1.0e+31

Particle

ParticleType
Electron

Qualifier
Uncertainty

ParticleQuantity
NumberFlux

Parameter #25

Name
Electron Trajectory 1, 0 degree Pitch Angle (GSE)

Set
Time series defined by using: EPOCH_0

ParameterKey
mms1_edl_traj1_gse_0_brst_I2

Description
Trajectory of flux1 0 degree Pitch Angle Electrons in Geocentric Solar Ecliptic (GSE) Cartesian Coordinates

Caveats
Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.

Cadence
PT0.0009765625S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

ValueFormat

F9.4

ScaleType

LinearScale

Structure**Size**

2

Element**Name**

Phi

Index

1

Element**Name**

Theta

Index

2

ValidMin

-180.0

ValidMax

180.0

FillValue

-1.0e+31

Particle**ParticleType**

Electron

ParticleQuantity

ArrivalDirection

Parameter #26

Name

Electron Trajectory 2, 0 degree Pitch Angle (GSE)

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edi_traj2_gse_0_burst_I2

Description

Trajectory of flux2 0 degree Pitch Angle Electrons in Geocentric Solar Ecliptic (GSE) Cartesian Coordinates

Caveats

Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.

Cadence

PT0.0009765625S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

ValueFormat

F9.4

ScaleType

LinearScale

Structure

Size

2

Element**Name**

Phi

Index

1

Element**Name**

Theta

Index

2

ValidMin

-180.0

ValidMax

180.0

FillValue

-1.0e+31

Particle**ParticleType**

Electron

ParticleQuantity

ArrivalDirection

Parameter #27

Name

Electron Trajectory 3, 0 degree Pitch Angle (GSE)

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edj_traj3_gse_0_brst_l2

Description

Trajectory of flux3 0 degree Pitch Angle Electrons in Geocentric Solar Ecliptic (GSE) Cartesian Coordinates

Caveats

Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.

Cadence

PT0.0009765625S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

ValueFormat

F9.4

ScaleType

LinearScale

Structure**Size**

2

Element**Name**

Phi

Index

1

Element**Name**

Theta

Index

2

ValidMin

-180.0

ValidMax

180.0

FillValue
-1.0e+31

Particle

ParticleType
Electron

ParticleQuantity
ArrivalDirection

Parameter #28

Name

Electron Trajectory 4, 0 degree Pitch Angle (GSE)

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edj_traj4_gse_0_brst_l2

Description

Trajectory of flux4 0 degree Pitch Angle Electrons in Geocentric Solar Ecliptic (GSE) Cartesian Coordinates

Caveats

Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.

Cadence

PT0.0009765625S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem

CoordinateRepresentation
Spherical

CoordinateSystemName
GSE

RenderingHints

DisplayType
TimeSeries

ValueFormat
F9.4

ScaleType
LinearScale

Structure

Size
2

Element

Name
Phi

Index
1

Element

Name
Theta

Index
2

ValidMin

-180.0

ValidMax

180.0

FillValue

-1.0e+31

Particle

ParticleType
Electron

ParticleQuantity
ArrivalDirection

Parameter #29

Name

Electron Trajectory 1, 180 degree Pitch Angle (GSE)

Set

Time series defined by using: EPOCH_180

ParameterKey

mms1_edj_traj1_gse_180_brst_l2

Description

Trajectory of flux1 180 degree Pitch Angle Electrons in Geocentric Solar Ecliptic (GSE) Cartesian Coordinates

Caveats

Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.

Cadence

PT0.0009765625S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

ValueFormat

F9.4

ScaleType

LinearScale

Structure**Size**

2

Element**Name**

Phi

Index

1

Element**Name**

Theta

Index

2

ValidMin

-180.0

ValidMax

180.0

FillValue

-1.0e+31

Particle**ParticleType**

Electron

ParticleQuantity

ArrivalDirection

Parameter #30

Name

Electron Trajectory 2, 180 degree Pitch Angle (GSE)

Set

Time series defined by using: EPOCH_180

ParameterKey

mms1_edi_traj2_gse_180_brst_l2

Description

Trajectory of flux2 180 degree Pitch Angle Electrons in Geocentric Solar Ecliptic (GSE) Cartesian Coordinates

Caveats

Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.

Cadence

PT0.0009765625S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSE

RenderingHints

DisplayType
TimeSeries

ValueFormat
F9.4

ScaleType
LinearScale

Structure

Size
2

Element

Name
Phi

Index
1

Element

Name
Theta

Index
2

ValidMin
-180.0

ValidMax
180.0

FillValue
-1.0e+31

Particle

ParticleType
Electron

ParticleQuantity
ArrivalDirection

Parameter #31

Name
Electron Trajectory 3, 180 degree Pitch Angle (GSE)

Set
Time series defined by using: EPOCH_180

ParameterKey
mms1_edj_traj3_gse_180_brst_l2

Description
Trajectory of flux3 180 degree Pitch Angle Electrons in Geocentric Solar Ecliptic (GSE) Cartesian Coordinates

Caveats
Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.

Cadence
PT0.0009765625S

Units
degree

UnitsConversion
0.0174532925>rad

CoordinateSystem

CoordinateRepresentation
Spherical

CoordinateSystemName
GSE

RenderingHints

DisplayType
TimeSeries

ValueFormat
F9.4

ScaleType
LinearScale

Structure

Size
2

Element

Name
Phi

Index
1

Element

Name

Theta
Index
2
ValidMin
-180.0
ValidMax
180.0
FillValue
-1.0e+31
Particle
ParticleType
Electron
ParticleQuantity
ArrivalDirection

Parameter #32

Name
Electron Trajectory 4, 180 degree Pitch Angle (GSE)
Set
Time series defined by using: EPOCH_180
ParameterKey
mms1_edi_traj4_gse_180_brst_l2
Description
Trajectory of flux4 180 degree Pitch Angle Electrons in Geocentric Solar Ecliptic (GSE) Cartesian Coordinates
Caveats
Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.
Cadence
PT0.0009765625S
Units
degree
UnitsConversion
0.0174532925>rad
CoordinateSystem
CoordinateRepresentation
Spherical
CoordinateSystemName
GSE
RenderingHints
DisplayType
TimeSeries
ValueFormat
F9.4
ScaleType
LinearScale
Structure
Size
2
Element
Name
Phi
Index
1
Element
Name
Theta
Index
2
ValidMin
-180.0
ValidMax
180.0
FillValue
-1.0e+31
Particle
ParticleType
Electron
ParticleQuantity
ArrivalDirection

Parameter #33

Name

Electron Trajectory 1, 0 degree Pitch Angle (GSM)

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edl_traj1_gsm_0_brst_l2

Description

Trajectory of flux1 0 degree Pitch Angle Electrons in Geocentric Solar Magnetospheric (GSM) Cartesian Coordinates

Caveats

Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.

Cadence

PT0.0009765625S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSM

RenderingHints**DisplayType**

TimeSeries

ValueFormat

F9.4

ScaleType

LinearScale

Structure**Size**

2

Element**Name**

Phi

Index

1

Element**Name**

Theta

Index

2

ValidMin

-180.0

ValidMax

180.0

FillValue

-1.0e+31

Particle**ParticleType**

Electron

ParticleQuantity

ArrivalDirection

Parameter #34

Name

Electron Trajectory 2, 0 degree Pitch Angle (GSM)

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edl_traj2_gsm_0_brst_l2

Description

Trajectory of flux2 0 degree Pitch Angle Electrons in Geocentric Solar Magnetospheric (GSM) Cartesian Coordinates

Caveats

Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.

Cadence

PT0.0009765625S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSM

RenderingHints**DisplayType**

TimeSeries

ValueFormat

F9.4

ScaleType

LinearScale

Structure**Size**

2

Element**Name**

Phi

Index

1

Element**Name**

Theta

Index

2

ValidMin

-180.0

ValidMax

180.0

FillValue

-1.0e+31

Particle**ParticleType**

Electron

ParticleQuantity

ArrivalDirection

Parameter #35

Name

Electron Trajectory 3, 0 degree Pitch Angle (GSM)

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edi_traj3_gsm_0_brst_l2

Description

Trajectory of flux3 0 degree Pitch Angle Electrons in Geocentric Solar Magnetospheric (GSM) Cartesian Coordinates

Caveats

Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.

Cadence

PT0.0009765625S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSM

RenderingHints**DisplayType**

TimeSeries

ValueFormat

F9.4

ScaleType

LinearScale

Structure**Size**

2

Element**Name**

Phi

Index

1

Element**Name**

Theta

Index

2

ValidMin

-180.0

ValidMax

180.0

FillValue

-1.0e+31

Particle**ParticleType**

Electron

ParticleQuantity

ArrivalDirection

Parameter #36

Name

Electron Trajectory 4, 0 degree Pitch Angle (GSM)

Set

Time series defined by using: EPOCH_0

ParameterKey

mms1_edi_traj4_gsm_0_brst_l2

Description

Trajectory of flux4 0 degree Pitch Angle Electrons in Geocentric Solar Magnetospheric (GSM) Cartesian Coordinates

Caveats

Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.

Cadence

PT0.0009765625S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSM

RenderingHints**DisplayType**

TimeSeries

ValueFormat

F9.4

ScaleType

LinearScale

Structure**Size**

2

Element**Name**

Phi

Index

1

Element**Name**

Theta

Index

2

ValidMin

-180.0

ValidMax

180.0

FillValue

-1.0e+31

Particle**ParticleType**

Electron

ParticleQuantity

ArrivalDirection

Parameter #37

Name

Electron Trajectory 1, 180 degree Pitch Angle (GSM)

Set

Time series defined by using: EPOCH_180

ParameterKey

mms1_edi_traj1_gsm_180_brst_l2

Description

Trajectory of flux1 180 degree Pitch Angle Electrons in Geocentric Solar Magnetospheric (GSM) Cartesian Coordinates

Caveats

Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.

Cadence

PT0.0009765625S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSM

RenderingHints**DisplayType**

TimeSeries

ValueFormat

F9.4

ScaleType

LinearScale

Structure**Size**

2

Element**Name**

Phi

Index

1

Element**Name**

Theta

Index

2

ValidMin

-20.0

ValidMax

20.0

FillValue

-1.0e+31

Particle**ParticleType**

Electron

ParticleQuantity

ArrivalDirection

Parameter #38

Name

Electron Trajectory 2, 180 degree Pitch Angle (GSM)

Set

Time series defined by using: EPOCH_180

ParameterKey

mms1_edi_traj2_gsm_180_brst_l2

Description

Trajectory of flux2 180 degree Pitch Angle Electrons in Geocentric Solar Magnetospheric (GSM) Cartesian Coordinates

Caveats

Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.

Cadence

PT0.0009765625S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSM

RenderingHints**DisplayType**

TimeSeries

ValueFormat

F9.4

ScaleType

LinearScale

Structure**Size**

2

Element**Name**

Phi

Index

1

Element**Name**

Theta

Index

2

ValidMin

-180.0

ValidMax

180.0

FillValue

-1.0e+31

Particle**ParticleType**

Electron

ParticleQuantity

ArrivalDirection

Parameter #39

Name

Electron Trajectory 3, 180 degree Pitch Angle (GSM)

Set

Time series defined by using: EPOCH_180

ParameterKey

mms1_edj_traj3_gsm_180_brst_l2

Description

Trajectory of flux3 180 degree Pitch Angle Electrons in Geocentric Solar Magnetospheric (GSM) Cartesian Coordinates

Caveats

Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.

Cadence

PT0.0009765625S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSM

RenderingHints**DisplayType**

TimeSeries

ValueFormat

F9.4

ScaleType

LinearScale

Structure**Size**

2

Element**Name**

Phi

Index

1

Element**Name**

Theta

Index

2

ValidMin

-180.0

ValidMax

180.0

FillValue

-1.0e+31

Particle**ParticleType**

Electron

ParticleQuantity

ArrivalDirection

Parameter #40

Name

Electron Trajectory 4, 180 degree Pitch Angle (GSM)

Set

Time series defined by using: EPOCH_180

ParameterKey

mms1_edi_traj4_gsm_180_brst_l2

Description

Trajectory of flux4 180 degree Pitch Angle Electrons in Geocentric Solar Magnetospheric (GSM) Cartesian Coordinates

Caveats

Trajectories are given as unit vectors in spherical coordinates, with phi (theta) representing the azimuthal (polar) directions, in the indicated coordinate system. They are opposite to the nominal look-direction of the instrument. Errors reflect the instrument's acceptance cone. For more details about errors, contact the EDI instrument team.

Cadence

PT0.0009765625S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSM

RenderingHints**DisplayType**

TimeSeries

ValueFormat

F9.4

ScaleType

LinearScale

Structure**Size**

2

Element**Name**

Phi

Index

1

Element**Name**

Theta

Index

2

ValidMin

-180.0

ValidMax

180.0

FillValue

-1.0e+31

Particle

ParticleType

Electron

ParticleQuantity

ArrivalDirection