

HPDE.io

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 Electric Particle Detector, Fly's Eye Energetic Particle Sensor (EPD, FEEPS) Electrons, Level 2 (L2), Burst Mode, 0.3025 s Data

Gabrielse, C.E., Blake, J.B., Fennell, J.F., Cohen, I.J., Baker, D.N., Mauk, B.H., Turner, D.L., and Burch, J.L. (2022). MMS 1 Electric Particle Detector, Fly's Eye Energetic Particle Sensor (EPD, FEEPS) Electrons, Level 2 (L2), Burst Mode, 0.3025 s Data [Data set]. NASA Space Physics Data Facility. <https://doi.org/10.48322/9h93-nj07>. Accessed on 2023-April-5.

ResourceID

spase://NASA/NumericalData/MMS/1/EnergeticParticleDetector/FEEPS/Burst/Level2/Electron/PT0.30

Description

Fly's Eye Electron Proton Spectrometer (FEEPS) Burst Data. The Energetic Particle Detector (EPD) investigation aboard the four MMS spacecraft consists of two instrument designs, the FEEPS and the EIS (Energetic Ion Spectrometer). A FEEPS consists of six Heads, each composed of two Eyes. Each eye is a particle telescope with a single silicon detector. There are nine electron eyes and three ion eyes per FEEPS. The energy coverage is from 25 keV to 650 keV for electrons and 45 keV to 650 keV for ions. Each eye has sixteen energy channels, the spacing of which can be modified by command. The fields of view and pointing of each eye are designed to provide a broad, instantaneous field of view for the twelve eyes per FEEPS.

Details

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

Version:2.5.0

NumericalData

ResourceID

spase://NASA/NumericalData/MMS/1/EnergeticParticleDetector/FEEPS/Burst/Level2/Electron/PT0.3025S

ResourceHeader

ResourceName

MMS 1 Electric Particle Detector, Fly's Eye Energetic Particle Sensor (EPD, FEEPS) Electrons, Level 2 (L2), Burst Mode, 0.3025 s Data

AlternateName

MMS1_FEEPS_BRST_L2_ELECTRON

DOI

<https://doi.org/10.48322/9h93-nj07>

ReleaseDate

2023-03-28 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 EPD team, metadata updated to SPASE 2.5.0, reviewed by LFB 20230304

RevisionEvent

ReleaseDate

2023-03-28 12:34:56.789

Note

Move Joseph E. Fennell to third in the Author, Acknowledgment, and Contacts lists per request of the MMS EPD/FEEPS team, revised by LFB 20230328

Description

Fly's Eye Electron Proton Spectrometer (FEEPS) Burst Data. The Energetic Particle Detector (EPD) investigation aboard the four MMS spacecraft consists of two instrument designs, the FEEPS and the EIS (Energetic Ion Spectrometer). A FEEPS consists of six Heads, each composed of two Eyes. Each eye is a particle telescope with a single silicon detector. There are nine electron eyes and three ion eyes per FEEPS. The energy coverage is from 25 keV to 650 keV for electrons and 45 keV to 650 keV for ions. Each eye has sixteen energy channels, the spacing of which can be modified by command. The fields of view and pointing of each eye are designed to provide a broad, instantaneous field of view for the twelve eyes per FEEPS.

Acknowledgement

Please acknowledge C.E. Gabrielse, J.B. Blake, J.F. Fennell, I.J. Cohen, D.N. Baker, B.H. Mauk, D.L. Turner, and J.L. Burch for use of these data

PublicationInfo**Authors**

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PublicationDate

2022-01-01 00:00:00

PublishedBy

NASA Space Physics Data Facility

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5.	CoInvestigator	spase://SMWG/Person/Daniel.N.Baker			
6.	InstrumentLead CoInvestigator	spase://SMWG/Person/Barry.H.Mauk			Retired
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11.	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/epd/>

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.

PriorIDs

<spase://VSPO/NumericalData/MMS/1/EnergeticParticleDetector/FEEPS/Burst/Level2/Electron/PT0.3025S>

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/feeps/brst/l2/electron/>**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/feeps/brst/l2/electron/>**Description**

In CDF via http from the MMS Science Data Center

Format

CDF

Encoding

None

Acknowledgement

Please acknowledge C.E. Gabrielse, J.B. Blake, J.F. Fennell, I.J. Cohen, D.N. Baker, B.H. Mauk, D.L. Turner, 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](https://smwg.repository.nasa.gov/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/feeps/brst/l2/electron/>**Description**

In CDF via ftp from SPDF

AccessURL**Name**

HTTPS from SPDF

URL<https://spdf.gsfc.nasa.gov/pub/data/mms/mms1/feeps/brst/l2/electron/>**Description**

In CDF via http from SPDF

AccessURL**Name**

CDAWeb

URLhttps://cdaweb.gsfc.nasa.gov/cgi-bin/eval2.cgi?dataset=MMS1_FEEPS_BRST_L2_ELECTRON&index=sp_phys**ProductKey**

MMS1_FEEPS_BRST_L2_ELECTRON

Description

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

Format

CDF

Encoding

None

Acknowledgement

Please acknowledge C.E. Gabrielse, J.B. Blake, J.F. Fennell, I.J. Cohen, D.N. Baker, B.H. Mauk, D.L. Turner, 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](https://smwg.repository.nasa.gov/spdf/cdaweb)

Availability

Online

AccessRights

Open

AccessURL**Name**

CDAWeb HAPI Server

URL<https://cdaweb.gsfc.nasa.gov/hapi>**Style**

HAPI

ProductKey

MMS1_FEEPS_BRST_L2_ELECTRON

Description

Web Service to this product using the HAPI interface

Format

CSV

Acknowledgement

Please acknowledge C.E. Gabrielse, J.B. Blake, J.F. Fennell, I.J. Cohen, D.N. Baker, B.H. Mauk, D.L. Turner, and J.L. Burch. Also please acknowledge the data providers and CDAWeb when using these data.

ProcessingLevel

Calibrated

InstrumentIDs<spase://SMWG/Instrument/MMS/1/EnergeticParticleDetector/FEEPS><spase://SMWG/Instrument/MMS/1/FIELDS/FGM>**MeasurementType**

EnergeticParticles

MeasurementType

MagneticField

TemporalDescription**TimeSpan****StartDate**

2015-09-02 16:48:44

RelativeStopDate

-P2M

Cadence

PT0.3025S

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

ParameterKey

epoch

Description

Epoch Time Tags in Terrestrial Time 2000 (TT2000). Time at Sector Center.

Cadence

PT0.3025S

Units

ns

UnitsConversion

1.0e-9>s

RenderingHints**DisplayType**

TimeSeries

AxisLabel

EPOCH (Timestamp)

ValueFormat

i10

ScaleType

LinearScale

ValidMin

1707-09-22T12:12:10.961224195

ValidMax

2000-01-01T11:58:55.816000127

FillValue

2000-01-01T11:58:55.816032768

Support**SupportQuantity**

Temporal

Parameter #2

Name

Electron Spin Sector Number

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_electron_spinsectnum

Description

Spin Sector in which the Spacecraft was oriented during Data Acquisition, Level 2, Burst Mode

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

spin sector

ValueFormat

i10

ScaleType

LinearScale

ValidMin

0

ValidMax

32767

FillValue

-32768

Support**SupportQuantity**

Other

Parameter #3

Name

Electron Energy

Set

Time series defined by using: EPOCH

ParameterKey

electron_energy

Description

Centroid of Differential Energy Channels associated with each of the 16 FEPS Electron Channels, Burst Mode, Level 2

Cadence

PT0.3025S

Units

keV

UnitsConversion

1.60218e-16>J

RenderingHints**DisplayType**

TimeSeries

ValueFormat

f20.3

ScaleType

LinearScale

Structure**Size**

16

Element**Name**

Element 1

Index

1

Element**Name**

Element 2

Index

2

Element**Name**

Element 3

Index

3

Element**Name**

Element 4

Index

4

Element**Name**

Element 5

Index

5

Element**Name**

Element 6

Index

6

Element**Name**

Element 7

Index

7

Element**Name**

Element 8

Index

8

Element**Name**

Element 9

Index

9

Element**Name**

Element 10

Index

10

Element**Name**

Element 11

Index

11

Element**Name**

Element 12

Index

12

Element**Name**

Element 13

Index

13

Element**Name**

Element 14

Index

14

Element**Name**

Element 15

Index

15

Element**Name**

Element 16

Index

16

ValidMin

-2.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Electron

ParticleQuantity

Energy

Parameter #4

Name

Electron Energy, Lower Bound

Set

Time series defined by using: EPOCH

ParameterKey

electron_energy_lower_bound

Description

Lower Bound of Differential Energy Channels associated with each of the 16 FEPS Electron Channels, Burst Mode, Level 2

Cadence

PT0.3025S

Units

keV

UnitsConversion

1.60218e-16>J

RenderingHints**DisplayType**

TimeSeries

ValueFormat

f20.3

ScaleType

LinearScale

Structure**Size**

16

Element**Name**

Element 1

Index

1

Element**Name**

Element 2

Index

2

Element**Name**

Element 3

Index

3

Element**Name**

Element 4

Index

4

Element**Name**

Element 5

Index

5

Element**Name**

Element 6

Index

6

Element**Name**

Element 7

Index

7

Element**Name**

Element 8

Index

8

Element**Name**

Element 9

Index

9

Element**Name**

Element 10

Index

10

Element**Name**

Element 11

Index

11

Element**Name**

Element 12

Index

12

Element**Name**

Element 13

Index

13

Element**Name**

Element 14

Index

14

Element**Name**

Element 15

Index

15

Element**Name**

Element 16

Index

16

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Minimum

ParticleQuantity

Energy

Parameter #5

Name

Electron Energy, Upper Bound

Set

Time series defined by using: EPOCH

ParameterKey

electron_energy_upper_bound

Description

Upper Bound of Differential Energy Channels associated with each of the 16 FEPS Electron Channels, Burst Mode, Level 2

Cadence

PT0.3025S

Units

keV

UnitsConversion

1.60218e-16>J

RenderingHints**DisplayType**

TimeSeries
ValueFormat f20.3
ScaleType LinearScale
Structure
Size 16
Element
Name Element 1
Index 1
Element
Name Element 2
Index 2
Element
Name Element 3
Index 3
Element
Name Element 4
Index 4
Element
Name Element 5
Index 5
Element
Name Element 6
Index 6
Element
Name Element 7
Index 7
Element
Name Element 8
Index 8
Element
Name Element 9
Index 9
Element
Name Element 10
Index 10
Element
Name Element 11

Index	11
Element	
Name	Element 12
Index	12
Element	
Name	Element 13
Index	13
Element	
Name	Element 14
Index	14
Element	
Name	Element 15
Index	15
Element	
Name	Element 16
Index	16
ValidMin	-9.22337e+18
ValidMax	1.79769e+308
FillValue	-1.0e+31
Particle	
ParticleType	Electron
Qualifier	Maximum
ParticleQuantity	Energy

Parameter #6

Name	Top Electron Count Rate, Sensor ID 1
Set	Time series defined by using: EPOCH
ParameterKey	mms1_epd_feeps_top_electron_count_rate_sensorid_1
Description	Top Side Electron Count Rate, Sensor ID 1, Burst Mode, Level 2
Cadence	PT0.3025S
Units	s ⁻¹
UnitsConversion	1>s ⁻¹
RenderingHints	
DisplayType	Spectrogram
ValueFormat	f20.3
ScaleMin	

0.0
ScaleMax
1000.0
Structure
Size
16
Element
Name
Element 1
Index
1
RenderingHints
AxisLabel
33.2000
Element
Name
Element 2
Index
2
RenderingHints
AxisLabel
51.9000
Element
Name
Element 3
Index
3
RenderingHints
AxisLabel
70.6000
Element
Name
Element 4
Index
4
RenderingHints
AxisLabel
89.4000
Element
Name
Element 5
Index
5
RenderingHints
AxisLabel
107.100
Element
Name
Element 6
Index
6
RenderingHints
AxisLabel
125.200
Element
Name
Element 7
Index
7
RenderingHints
AxisLabel

146.500

Element**Name**

Element 8

Index

8

RenderingHints**AxisLabel**

171.300

Element**Name**

Element 9

Index

9

RenderingHints**AxisLabel**

200.200

Element**Name**

Element 10

Index

10

RenderingHints**AxisLabel**

234.000

Element**Name**

Element 11

Index

11

RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

Index

12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

Index

13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

15
RenderingHints
AxisLabel
509.200
Element
Name
Element 16
Index
16
RenderingHints
AxisLabel
575.800
ValidMin
-9.22337e+18
ValidMax
1.79769e+308
FillValue
-1.0e+31
Particle
ParticleType
Electron
Qualifier
Differential
ParticleQuantity
CountRate

Parameter #7

Name
Top Electron Count Rate, Sensor ID 2
Set
Time series defined by using: EPOCH
ParameterKey
mms1_epd_feeps_top_electron_count_rate_sensorid_2
Description
Top Side Electron Count Rate, Sensor ID 2, Burst Mode, Level 2
Cadence
PT0.3025S
Units
s ⁻¹
UnitsConversion
1>s ⁻¹
RenderingHints
DisplayType
Spectrogram
ValueFormat
f20.3
ScaleMin
0.0
ScaleMax
1000.0
Structure
Size
16
Element
Name
Element 1
Index
1
RenderingHints
AxisLabel
33.2000
Element

Name
Element 2

Index
2

RenderingHints
AxisLabel
51.9000

Element

Name
Element 3

Index
3

RenderingHints
AxisLabel
70.6000

Element

Name
Element 4

Index
4

RenderingHints
AxisLabel
89.4000

Element

Name
Element 5

Index
5

RenderingHints
AxisLabel
107.100

Element

Name
Element 6

Index
6

RenderingHints
AxisLabel
125.200

Element

Name
Element 7

Index
7

RenderingHints
AxisLabel
146.500

Element

Name
Element 8

Index
8

RenderingHints
AxisLabel
171.300

Element

Name
Element 9

Index
9

RenderingHints

AxisLabel
200.200
Element
Name
Element 10
Index
10
RenderingHints
AxisLabel
234.000
Element
Name
Element 11
Index
11
RenderingHints
AxisLabel
273.400
Element
Name
Element 12
Index
12
RenderingHints
AxisLabel
319.400
Element
Name
Element 13
Index
13
RenderingHints
AxisLabel
373.200
Element
Name
Element 14
Index
14
RenderingHints
AxisLabel
436.000
Element
Name
Element 15
Index
15
RenderingHints
AxisLabel
509.200
Element
Name
Element 16
Index
16
RenderingHints
AxisLabel
575.800
ValidMin
-9.22337e+18
ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #8

Name

Top Electron Count Rate, Sensor ID 3

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_top_electron_count_rate_sensorid_3

Description

Top Side Electron Count Rate, Sensor ID 3, Burst Mode, Level 2

Cadence

PT0.3025S

Unitss⁻¹**UnitsConversion**1>s⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element**Name**

Element 6

Index

6

RenderingHints**AxisLabel**

125.200

Element**Name**

Element 7

Index

7

RenderingHints**AxisLabel**

146.500

Element**Name**

Element 8

Index

8

RenderingHints**AxisLabel**

171.300

Element**Name**

Element 9

Index

9

RenderingHints**AxisLabel**

200.200

Element**Name**

Element 10

Index

10

RenderingHints**AxisLabel**

234.000

Element**Name**

Element 11

Index

11

RenderingHints**AxisLabel**
273.400**Element****Name**
Element 12**Index**
12**RenderingHints****AxisLabel**
319.400**Element****Name**
Element 13**Index**
13**RenderingHints****AxisLabel**
373.200**Element****Name**
Element 14**Index**
14**RenderingHints****AxisLabel**
436.000**Element****Name**
Element 15**Index**
15**RenderingHints****AxisLabel**
509.200**Element****Name**
Element 16**Index**
16**RenderingHints****AxisLabel**
575.800**ValidMin**
-9.22337e+18**ValidMax**
1.79769e+308**FillValue**
-1.0e+31**Particle****ParticleType**
Electron**Qualifier**
Differential**ParticleQuantity**
CountRate

Parameter #9

Name
Top Electron Count Rate, Sensor ID 4**Set**

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_top_electron_count_rate_sensorid_4

Description

Top Side Electron Count Rate, Sensor ID 4, Burst Mode, Level 2

Cadence

PT0.3025S

Units

s⁻¹

UnitsConversion

1>s⁻¹

RenderingHints**DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints

AxisLabel 107.100
Element
Name Element 6
Index 6
RenderingHints
AxisLabel 125.200
Element
Name Element 7
Index 7
RenderingHints
AxisLabel 146.500
Element
Name Element 8
Index 8
RenderingHints
AxisLabel 171.300
Element
Name Element 9
Index 9
RenderingHints
AxisLabel 200.200
Element
Name Element 10
Index 10
RenderingHints
AxisLabel 234.000
Element
Name Element 11
Index 11
RenderingHints
AxisLabel 273.400
Element
Name Element 12
Index 12
RenderingHints
AxisLabel 319.400
Element
Name Element 13

Index

13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

15

RenderingHints**AxisLabel**

509.200

Element**Name**

Element 16

Index

16

RenderingHints**AxisLabel**

575.800

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #10

Name

Top Electron Count Rate, Sensor ID 5

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_top_electron_count_rate_sensorid_5

Description

Top Side Electron Count Rate, Sensor ID 5, Burst Mode, Level 2

Cadence

PT0.3025S

Unitss⁻¹**UnitsConversion**1>s⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3
ScaleMin
0.0
ScaleMax
1000.0
Structure
Size
16
Element
Name
Element 1
Index
1
RenderingHints
AxisLabel
33.2000
Element
Name
Element 2
Index
2
RenderingHints
AxisLabel
51.9000
Element
Name
Element 3
Index
3
RenderingHints
AxisLabel
70.6000
Element
Name
Element 4
Index
4
RenderingHints
AxisLabel
89.4000
Element
Name
Element 5
Index
5
RenderingHints
AxisLabel
107.100
Element
Name
Element 6
Index
6
RenderingHints
AxisLabel
125.200
Element
Name
Element 7
Index
7

RenderingHints**AxisLabel**
146.500**Element****Name**
Element 8**Index**
8**RenderingHints****AxisLabel**
171.300**Element****Name**
Element 9**Index**
9**RenderingHints****AxisLabel**
200.200**Element****Name**
Element 10**Index**
10**RenderingHints****AxisLabel**
234.000**Element****Name**
Element 11**Index**
11**RenderingHints****AxisLabel**
273.400**Element****Name**
Element 12**Index**
12**RenderingHints****AxisLabel**
319.400**Element****Name**
Element 13**Index**
13**RenderingHints****AxisLabel**
373.200**Element****Name**
Element 14**Index**
14**RenderingHints****AxisLabel**
436.000**Element****Name**

Element 15
Index 15
RenderingHints
AxisLabel 509.200
Element
Name Element 16
Index 16
RenderingHints
AxisLabel 575.800
ValidMin -9.22337e+18
ValidMax 1.79769e+308
FillValue -1.0e+31
Particle
ParticleType Electron
Qualifier Differential
ParticleQuantity CountRate

Parameter #11

Name Top Electron Count Rate, Sensor ID 9
Set Time series defined by using: EPOCH
ParameterKey mms1_epd_feeps_top_electron_count_rate_sensorid_9
Description Top Side Electron Count Rate, Sensor ID 9, Burst Mode, Level 2
Cadence PT0.3025S
Units s ⁻¹
UnitsConversion 1>s ⁻¹
RenderingHints
DisplayType Spectrogram
ValueFormat f20.3
ScaleMin 0.0
ScaleMax 1000.0
Structure
Size 16
Element
Name Element 1
Index 1
RenderingHints
AxisLabel

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element**Name**

Element 6

Index

6

RenderingHints**AxisLabel**

125.200

Element**Name**

Element 7

Index

7

RenderingHints**AxisLabel**

146.500

Element**Name**

Element 8

Index

8

RenderingHints**AxisLabel**

171.300

Element**Name**

Element 9

Index

9

RenderingHints**AxisLabel**
200.200**Element****Name**
Element 10**Index**
10**RenderingHints****AxisLabel**
234.000**Element****Name**
Element 11**Index**
11**RenderingHints****AxisLabel**
273.400**Element****Name**
Element 12**Index**
12**RenderingHints****AxisLabel**
319.400**Element****Name**
Element 13**Index**
13**RenderingHints****AxisLabel**
373.200**Element****Name**
Element 14**Index**
14**RenderingHints****AxisLabel**
436.000**Element****Name**
Element 15**Index**
15**RenderingHints****AxisLabel**
509.200**Element****Name**
Element 16**Index**
16**RenderingHints****AxisLabel**
575.800**ValidMin**

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #12

Name

Top Electron Count Rate, Sensor ID 10

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_top_electron_count_rate_sensorid_10

Description

Top Side Electron Count Rate, Sensor ID 10, Burst Mode, Level 2

Cadence

PT0.3025S

Unitss⁻¹**UnitsConversion**1>s⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints

AxisLabel
70.6000

Element

Name
Element 4

Index
4

RenderingHints
AxisLabel
89.4000

Element

Name
Element 5

Index
5

RenderingHints
AxisLabel
107.100

Element

Name
Element 6

Index
6

RenderingHints
AxisLabel
125.200

Element

Name
Element 7

Index
7

RenderingHints
AxisLabel
146.500

Element

Name
Element 8

Index
8

RenderingHints
AxisLabel
171.300

Element

Name
Element 9

Index
9

RenderingHints
AxisLabel
200.200

Element

Name
Element 10

Index
10

RenderingHints
AxisLabel
234.000

Element

Name
Element 11

Index

11

RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

Index

12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

Index

13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

15

RenderingHints**AxisLabel**

509.200

Element**Name**

Element 16

Index

16

RenderingHints**AxisLabel**

575.800

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #13

Name

Top Electron Count Rate, Sensor ID 11

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_top_electron_count_rate_sensorid_11

Description

Top Side Electron Count Rate, Sensor ID 11, Burst Mode, Level 2

Cadence

PT0.3025S

Units

s⁻¹

UnitsConversion

1>s⁻¹

RenderingHints**DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**
107.100**Element****Name**
Element 6**Index**
6**RenderingHints****AxisLabel**
125.200**Element****Name**
Element 7**Index**
7**RenderingHints****AxisLabel**
146.500**Element****Name**
Element 8**Index**
8**RenderingHints****AxisLabel**
171.300**Element****Name**
Element 9**Index**
9**RenderingHints****AxisLabel**
200.200**Element****Name**
Element 10**Index**
10**RenderingHints****AxisLabel**
234.000**Element****Name**
Element 11**Index**
11**RenderingHints****AxisLabel**
273.400**Element****Name**
Element 12**Index**
12**RenderingHints****AxisLabel**
319.400**Element****Name**

Element 13
Index 13
RenderingHints
AxisLabel 373.200
Element
Name Element 14
Index 14
RenderingHints
AxisLabel 436.000
Element
Name Element 15
Index 15
RenderingHints
AxisLabel 509.200
Element
Name Element 16
Index 16
RenderingHints
AxisLabel 575.800
ValidMin -9.22337e+18
ValidMax 1.79769e+308
FillValue -1.0e+31
Particle
ParticleType Electron
Qualifier Differential
ParticleQuantity CountRate

Parameter #14

Name Top Electron Count Rate, Sensor ID 12
Set Time series defined by using: EPOCH
ParameterKey mms1_epd_feeps_top_electron_count_rate_sensorid_12
Description Top Side Electron Count Rate, Sensor ID 12, Burst Mode, Level 2
Cadence PT0.3025S
Units s ⁻¹
UnitsConversion 1>s ⁻¹
RenderingHints
DisplayType Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element**Name**

Element 6

Index

6

RenderingHints**AxisLabel**

125.200

Element**Name**

Element 7

Index

7

RenderingHints**AxisLabel**
146.500**Element****Name**
Element 8**Index**
8**RenderingHints****AxisLabel**
171.300**Element****Name**
Element 9**Index**
9**RenderingHints****AxisLabel**
200.200**Element****Name**
Element 10**Index**
10**RenderingHints****AxisLabel**
234.000**Element****Name**
Element 11**Index**
11**RenderingHints****AxisLabel**
273.400**Element****Name**
Element 12**Index**
12**RenderingHints****AxisLabel**
319.400**Element****Name**
Element 13**Index**
13**RenderingHints****AxisLabel**
373.200**Element****Name**
Element 14**Index**
14**RenderingHints****AxisLabel**
436.000**Element**

Name
Element 15

Index
15

RenderingHints
AxisLabel
509.200

Element

Name
Element 16

Index
16

RenderingHints
AxisLabel
575.800

ValidMin
-9.22337e+18

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
Electron

Qualifier
Differential

ParticleQuantity
CountRate

Parameter #15

Name
Bottom Electron Count Rate, Sensor ID 1

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_feeps_bottom_electron_count_rate_sensorid_1

Description
Bottom Side Electron Count Rate, Sensor ID 1, Burst Mode, Level 2

Cadence
PT0.3025S

Units
s⁻¹

UnitsConversion
1>s⁻¹

RenderingHints
DisplayType
Spectrogram

ValueFormat
f20.3

ScaleMin
0.0

ScaleMax
1000.0

Structure

Size
16

Element

Name
Element 1

Index
1

RenderingHints

AxisLabel
33.2000

Element

Name
Element 2

Index
2

RenderingHints
AxisLabel
51.9000

Element

Name
Element 3

Index
3

RenderingHints
AxisLabel
70.6000

Element

Name
Element 4

Index
4

RenderingHints
AxisLabel
89.4000

Element

Name
Element 5

Index
5

RenderingHints
AxisLabel
107.100

Element

Name
Element 6

Index
6

RenderingHints
AxisLabel
125.200

Element

Name
Element 7

Index
7

RenderingHints
AxisLabel
146.500

Element

Name
Element 8

Index
8

RenderingHints
AxisLabel
171.300

Element

Name
Element 9

Index

9

RenderingHints**AxisLabel**

200.200

Element**Name**

Element 10

Index

10

RenderingHints**AxisLabel**

234.000

Element**Name**

Element 11

Index

11

RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

Index

12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

Index

13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

15

RenderingHints**AxisLabel**

509.200

Element**Name**

Element 16

Index

16

RenderingHints**AxisLabel**

575.800

ValidMin
-9.22337e+18

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
Electron

Qualifier
Differential

ParticleQuantity
CountRate

Parameter #16

Name
Bottom Electron Count Rate, Sensor ID 2

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_feeps_bottom_electron_count_rate_sensorid_2

Description
Bottom Side Electron Count Rate, Sensor ID 2, Burst Mode, Level 2

Cadence
PT0.3025S

Units
s⁻¹

UnitsConversion
1>s⁻¹

RenderingHints

DisplayType
Spectrogram

ValueFormat
f20.3

ScaleMin
0.0

ScaleMax
1000.0

Structure

Size
16

Element

Name
Element 1

Index
1

RenderingHints
AxisLabel
33.2000

Element

Name
Element 2

Index
2

RenderingHints
AxisLabel
51.9000

Element

Name
Element 3

Index
3

RenderingHints**AxisLabel**
70.6000**Element****Name**
Element 4**Index**
4**RenderingHints****AxisLabel**
89.4000**Element****Name**
Element 5**Index**
5**RenderingHints****AxisLabel**
107.100**Element****Name**
Element 6**Index**
6**RenderingHints****AxisLabel**
125.200**Element****Name**
Element 7**Index**
7**RenderingHints****AxisLabel**
146.500**Element****Name**
Element 8**Index**
8**RenderingHints****AxisLabel**
171.300**Element****Name**
Element 9**Index**
9**RenderingHints****AxisLabel**
200.200**Element****Name**
Element 10**Index**
10**RenderingHints****AxisLabel**
234.000**Element****Name**

Element 11

Index

11

RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

Index

12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

Index

13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

15

RenderingHints**AxisLabel**

509.200

Element**Name**

Element 16

Index

16

RenderingHints**AxisLabel**

575.800

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #17

Name

Bottom Electron Count Rate, Sensor ID 3

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_count_rate_sensorid_3

Description

Bottom Side Electron Count Rate, Sensor ID 3, Burst Mode, Level 2

Cadence

PT0.3025S

Unitss⁻¹**UnitsConversion**1>s⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**
107.100**Element****Name**
Element 6**Index**
6**RenderingHints****AxisLabel**
125.200**Element****Name**
Element 7**Index**
7**RenderingHints****AxisLabel**
146.500**Element****Name**
Element 8**Index**
8**RenderingHints****AxisLabel**
171.300**Element****Name**
Element 9**Index**
9**RenderingHints****AxisLabel**
200.200**Element****Name**
Element 10**Index**
10**RenderingHints****AxisLabel**
234.000**Element****Name**
Element 11**Index**
11**RenderingHints****AxisLabel**
273.400**Element****Name**
Element 12**Index**
12**RenderingHints****AxisLabel**
319.400**Element**

Name
Element 13

Index
13

RenderingHints
AxisLabel
373.200

Element

Name
Element 14

Index
14

RenderingHints
AxisLabel
436.000

Element

Name
Element 15

Index
15

RenderingHints
AxisLabel
509.200

Element

Name
Element 16

Index
16

RenderingHints
AxisLabel
575.800

ValidMin
-9.22337e+18

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
Electron

Qualifier
Differential

ParticleQuantity
CountRate

Parameter #18

Name
Bottom Electron Count Rate, Sensor ID 4

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_feeps_bottom_electron_count_rate_sensorid_4

Description
Bottom Side Electron Count Rate, Sensor ID 4, Burst Mode, Level 2

Cadence
PT0.3025S

Units
s⁻¹

UnitsConversion
1>s⁻¹

RenderingHints
DisplayType

Spectrogram
ValueFormat f20.3
ScaleMin 0.0
ScaleMax 1000.0
Structure
Size 16
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Name Element 1
Index 1
RenderingHints
AxisLabel 33.2000
Element
Name Element 2
Index 2
RenderingHints
AxisLabel 51.9000
Element
Name Element 3
Index 3
RenderingHints
AxisLabel 70.6000
Element
Name Element 4
Index 4
RenderingHints
AxisLabel 89.4000
Element
Name Element 5
Index 5
RenderingHints
AxisLabel 107.100
Element
Name Element 6
Index 6
RenderingHints
AxisLabel 125.200
Element
Name Element 7

Index

7

RenderingHints**AxisLabel**

146.500

Element**Name**

Element 8

Index

8

RenderingHints**AxisLabel**

171.300

Element**Name**

Element 9

Index

9

RenderingHints**AxisLabel**

200.200

Element**Name**

Element 10

Index

10

RenderingHints**AxisLabel**

234.000

Element**Name**

Element 11

Index

11

RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

Index

12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

Index

13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

15

RenderingHints**AxisLabel**

509.200

Element**Name**

Element 16

Index

16

RenderingHints**AxisLabel**

575.800

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #19

Name

Bottom Electron Count Rate, Sensor ID 5

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_count_rate_sensorid_5

Description

Bottom Side Electron Count Rate, Sensor ID 5, Burst Mode, Level 2

Cadence

PT0.3025S

Unitss⁻¹**UnitsConversion**1>s⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

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33.2000**Element****Name**
Element 2**Index**
2**RenderingHints****AxisLabel**
51.9000**Element****Name**
Element 3**Index**
3**RenderingHints****AxisLabel**
70.6000**Element****Name**
Element 4**Index**
4**RenderingHints****AxisLabel**
89.4000**Element****Name**
Element 5**Index**
5**RenderingHints****AxisLabel**
107.100**Element****Name**
Element 6**Index**
6**RenderingHints****AxisLabel**
125.200**Element****Name**
Element 7**Index**
7**RenderingHints****AxisLabel**
146.500**Element****Name**
Element 8**Index**
8**RenderingHints****AxisLabel**
171.300**Element****Name**

Element 9

Index

9

RenderingHints**AxisLabel**

200.200

Element**Name**

Element 10

Index

10

RenderingHints**AxisLabel**

234.000

Element**Name**

Element 11

Index

11

RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

Index

12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

Index

13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

15

RenderingHints**AxisLabel**

509.200

Element**Name**

Element 16

Index

16

RenderingHints**AxisLabel**

575.800

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #20

Name

Bottom Electron Count Rate, Sensor ID 9

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_count_rate_sensorid_9

Description

Bottom Side Electron Count Rate, Sensor ID 9, Burst Mode, Level 2

Cadence

PT0.3025S

Unitss⁻¹**UnitsConversion**1>s⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**
70.6000**Element****Name**
Element 4**Index**
4**RenderingHints****AxisLabel**
89.4000**Element****Name**
Element 5**Index**
5**RenderingHints****AxisLabel**
107.100**Element****Name**
Element 6**Index**
6**RenderingHints****AxisLabel**
125.200**Element****Name**
Element 7**Index**
7**RenderingHints****AxisLabel**
146.500**Element****Name**
Element 8**Index**
8**RenderingHints****AxisLabel**
171.300**Element****Name**
Element 9**Index**
9**RenderingHints****AxisLabel**
200.200**Element****Name**
Element 10**Index**
10**RenderingHints****AxisLabel**
234.000**Element**

Name
Element 11

Index
11

RenderingHints
AxisLabel
273.400

Element

Name
Element 12

Index
12

RenderingHints
AxisLabel
319.400

Element

Name
Element 13

Index
13

RenderingHints
AxisLabel
373.200

Element

Name
Element 14

Index
14

RenderingHints
AxisLabel
436.000

Element

Name
Element 15

Index
15

RenderingHints
AxisLabel
509.200

Element

Name
Element 16

Index
16

RenderingHints
AxisLabel
575.800

ValidMin
-9.22337e+18

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
Electron

Qualifier
Differential

ParticleQuantity
CountRate

Parameter #21

Name

Bottom Electron Count Rate, Sensor ID 10

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_count_rate_sensorid_10

Description

Bottom Side Electron Count Rate, Sensor ID 10, Burst Mode, Level 2

Cadence

PT0.3025S

Unitss⁻¹**UnitsConversion**1>s⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element**Name**

Element 6

Index

6

RenderingHints**AxisLabel**

125.200

Element**Name**

Element 7

Index

7

RenderingHints**AxisLabel**

146.500

Element**Name**

Element 8

Index

8

RenderingHints**AxisLabel**

171.300

Element**Name**

Element 9

Index

9

RenderingHints**AxisLabel**

200.200

Element**Name**

Element 10

Index

10

RenderingHints**AxisLabel**

234.000

Element**Name**

Element 11

Index

11

RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

Index

12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

Index

13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

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RenderingHints**AxisLabel**

509.200

Element**Name**

Element 16

Index

16

RenderingHints**AxisLabel**

575.800

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #22

Name

Bottom Electron Count Rate, Sensor ID 11

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_count_rate_sensorid_11

Description

Bottom Side Electron Count Rate, Sensor ID 11, Burst Mode, Level 2

Cadence

PT0.3025S

Unitss⁻¹**UnitsConversion**1>s⁻¹

RenderingHints**DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element**Name**

Element 6

Index

6

RenderingHints**AxisLabel**

125.200

Element

Name
Element 7

Index
7

RenderingHints
AxisLabel
146.500

Element

Name
Element 8

Index
8

RenderingHints
AxisLabel
171.300

Element

Name
Element 9

Index
9

RenderingHints
AxisLabel
200.200

Element

Name
Element 10

Index
10

RenderingHints
AxisLabel
234.000

Element

Name
Element 11

Index
11

RenderingHints
AxisLabel
273.400

Element

Name
Element 12

Index
12

RenderingHints
AxisLabel
319.400

Element

Name
Element 13

Index
13

RenderingHints
AxisLabel
373.200

Element

Name
Element 14

Index
14

RenderingHints

AxisLabel	436.000
Element	
Name	Element 15
Index	15
RenderingHints	
AxisLabel	509.200
Element	
Name	Element 16
Index	16
RenderingHints	
AxisLabel	575.800
ValidMin	-9.22337e+18
ValidMax	1.79769e+308
FillValue	-1.0e+31
Particle	
ParticleType	Electron
Qualifier	Differential
ParticleQuantity	CountRate

Parameter #23

Name	Bottom Electron Count Rate, Sensor ID 12
Set	Time series defined by using: EPOCH
ParameterKey	mms1_epd_feeps_bottom_electron_count_rate_sensorid_12
Description	Bottom Side Electron Count Rate, Sensor ID 12, Burst Mode, Level 2
Cadence	PT0.3025S
Units	s ⁻¹
UnitsConversion	1>s ⁻¹
RenderingHints	
DisplayType	Spectrogram
ValueFormat	f20.3
ScaleMin	0.0
ScaleMax	1000.0
Structure	
Size	16
Element	
Name	Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element**Name**

Element 6

Index

6

RenderingHints**AxisLabel**

125.200

Element**Name**

Element 7

Index

7

RenderingHints**AxisLabel**

146.500

Element**Name**

Element 8

Index

8

RenderingHints**AxisLabel**

171.300

Element**Name**

Element 9

Index

9

RenderingHints**AxisLabel**

200.200

Element**Name**

Element 10

Index

10

RenderingHints**AxisLabel**

234.000

Element**Name**

Element 11

Index

11

RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

Index

12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

Index

13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

15

RenderingHints**AxisLabel**

509.200

Element**Name**

Element 16

Index

16

RenderingHints**AxisLabel**
575.800**ValidMin**
-9.22337e+18**ValidMax**
1.79769e+308**FillValue**
-1.0e+31**Particle****ParticleType**
Electron**Qualifier**
Differential**ParticleQuantity**
CountRate

Parameter #24

Name
Top Electron Intensity, Sensor ID 1**Set**
Time series defined by using: EPOCH**ParameterKey**
mms1_epd_feeps_top_electron_intensity_sensorid_1**Description**
Top Side Electron Intensity, Sensor ID 1, Burst Mode, Level 2**Cadence**
PT0.3025S**Units**
(cm² s sr keV)⁻¹**UnitsConversion**
1.60218e-18>(m² s sr J)⁻¹**RenderingHints****DisplayType**
Spectrogram**ValueFormat**
f20.3**ScaleMin**
0.0**ScaleMax**
1000.0**Structure****Size**
16**Element****Name**
Element 1**Index**
1**RenderingHints**
AxisLabel
33.2000**Element****Name**
Element 2**Index**
2**RenderingHints**
AxisLabel
51.9000**Element****Name**

Element 3
Index 3
RenderingHints AxisLabel 70.6000
Element
Name Element 4
Index 4
RenderingHints AxisLabel 89.4000
Element
Name Element 5
Index 5
RenderingHints AxisLabel 107.100
Element
Name Element 6
Index 6
RenderingHints AxisLabel 125.200
Element
Name Element 7
Index 7
RenderingHints AxisLabel 146.500
Element
Name Element 8
Index 8
RenderingHints AxisLabel 171.300
Element
Name Element 9
Index 9
RenderingHints AxisLabel 200.200
Element
Name Element 10
Index 10
RenderingHints AxisLabel

234.000

Element**Name**

Element 11

Index

11

RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

Index

12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

Index

13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

15

RenderingHints**AxisLabel**

509.200

Element**Name**

Element 16

Index

16

RenderingHints**AxisLabel**

575.800

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #25

Name

Top Electron Intensity, Sensor ID 2

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_top_electron_intensity_sensorid_2

Description

Top Side Electron Intensity, Sensor ID 2, Burst Mode, Level 2

Cadence

PT0.3025S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $1.60218\text{e-}18 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element**Name**

Element 6

Index

6

RenderingHints**AxisLabel**

125.200

Element**Name**

Element 7

Index

7

RenderingHints**AxisLabel**

146.500

Element**Name**

Element 8

Index

8

RenderingHints**AxisLabel**

171.300

Element**Name**

Element 9

Index

9

RenderingHints**AxisLabel**

200.200

Element**Name**

Element 10

Index

10

RenderingHints**AxisLabel**

234.000

Element**Name**

Element 11

Index

11

RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

Index

12

RenderingHints**AxisLabel**
319.400**Element****Name**
Element 13**Index**
13**RenderingHints****AxisLabel**
373.200**Element****Name**
Element 14**Index**
14**RenderingHints****AxisLabel**
436.000**Element****Name**
Element 15**Index**
15**RenderingHints****AxisLabel**
509.200**Element****Name**
Element 16**Index**
16**RenderingHints****AxisLabel**
575.800**ValidMin**
-9.22337e+18**ValidMax**
1.79769e+308**FillValue**
-1.0e+31**Particle****ParticleType**
Electron**Qualifier**
Differential**ParticleQuantity**
EnergyFlux

Parameter #26

Name
Top Electron Intensity, Sensor ID 3**Set**
Time series defined by using: EPOCH**ParameterKey**
mms1_epd_feeps_top_electron_intensity_sensorid_3**Description**
Top Side Electron Intensity, Sensor ID 3, Burst Mode, Level 2**Cadence**
PT0.3025S**Units**
(cm² s sr keV)⁻¹

UnitsConversion

1.60218e-18>(m^2 s sr J)^-1

RenderingHints**DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element**Name**

Element 6

Index

6

RenderingHints**AxisLabel**

125.200

Element**Name**

Element 7

Index

7

RenderingHints**AxisLabel**

146.500

Element**Name**

Element 8

Index

8

RenderingHints**AxisLabel**

171.300

Element**Name**

Element 9

Index

9

RenderingHints**AxisLabel**

200.200

Element**Name**

Element 10

Index

10

RenderingHints**AxisLabel**

234.000

Element**Name**

Element 11

Index

11

RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

Index

12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

Index

13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**
436.000**Element****Name**
Element 15**Index**
15**RenderingHints****AxisLabel**
509.200**Element****Name**
Element 16**Index**
16**RenderingHints****AxisLabel**
575.800**ValidMin**
-9.22337e+18**ValidMax**
1.79769e+308**FillValue**
-1.0e+31**Particle****ParticleType**
Electron**Qualifier**
Differential**ParticleQuantity**
EnergyFlux

Parameter #27

Name
Top Electron Intensity, Sensor ID 4**Set**
Time series defined by using: EPOCH**ParameterKey**
mms1_epd_feeps_top_electron_intensity_sensorid_4**Description**
Top Side Electron Intensity, Sensor ID 4, Burst Mode, Level 2**Cadence**
PT0.3025S**Units**
(cm² s sr keV)⁻¹**UnitsConversion**
1.60218e-18>(m² s sr J)⁻¹**RenderingHints****DisplayType**
Spectrogram**ValueFormat**
f20.3**ScaleMin**
0.0**ScaleMax**
1000.0**Structure****Size**
16**Element**

Name
Element 1

Index
1

RenderingHints
AxisLabel
33.2000

Element

Name
Element 2

Index
2

RenderingHints
AxisLabel
51.9000

Element

Name
Element 3

Index
3

RenderingHints
AxisLabel
70.6000

Element

Name
Element 4

Index
4

RenderingHints
AxisLabel
89.4000

Element

Name
Element 5

Index
5

RenderingHints
AxisLabel
107.100

Element

Name
Element 6

Index
6

RenderingHints
AxisLabel
125.200

Element

Name
Element 7

Index
7

RenderingHints
AxisLabel
146.500

Element

Name
Element 8

Index
8

RenderingHints

AxisLabel 171.300
Element
Name Element 9
Index 9
RenderingHints
AxisLabel 200.200
Element
Name Element 10
Index 10
RenderingHints
AxisLabel 234.000
Element
Name Element 11
Index 11
RenderingHints
AxisLabel 273.400
Element
Name Element 12
Index 12
RenderingHints
AxisLabel 319.400
Element
Name Element 13
Index 13
RenderingHints
AxisLabel 373.200
Element
Name Element 14
Index 14
RenderingHints
AxisLabel 436.000
Element
Name Element 15
Index 15
RenderingHints
AxisLabel 509.200
Element
Name Element 16

Index	16
RenderingHints	
AxisLabel	575.800
ValidMin	-9.22337e+18
ValidMax	1.79769e+308
FillValue	-1.0e+31
Particle	
ParticleType	Electron
Qualifier	Differential
ParticleQuantity	EnergyFlux

Parameter #28

Name	Top Electron Intensity, Sensor ID 5
Set	Time series defined by using: EPOCH
ParameterKey	mms1_epd_feeps_top_electron_intensity_sensorid_5
Description	Top Side Electron Intensity, Sensor ID 5, Burst Mode, Level 2
Cadence	PT0.3025S
Units	(cm ² s sr keV) ⁻¹
UnitsConversion	1.60218e-18>(m ² s sr J) ⁻¹
RenderingHints	
DisplayType	Spectrogram
ValueFormat	f20.3
ScaleMin	0.0
ScaleMax	1000.0
Structure	
Size	16
Element	
Name	Element 1
Index	1
RenderingHints	
AxisLabel	33.2000
Element	
Name	Element 2
Index	2
RenderingHints	
AxisLabel	51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element**Name**

Element 6

Index

6

RenderingHints**AxisLabel**

125.200

Element**Name**

Element 7

Index

7

RenderingHints**AxisLabel**

146.500

Element**Name**

Element 8

Index

8

RenderingHints**AxisLabel**

171.300

Element**Name**

Element 9

Index

9

RenderingHints**AxisLabel**

200.200

Element**Name**

Element 10

Index

10

RenderingHints**AxisLabel**
234.000**Element****Name**
Element 11**Index**
11**RenderingHints****AxisLabel**
273.400**Element****Name**
Element 12**Index**
12**RenderingHints****AxisLabel**
319.400**Element****Name**
Element 13**Index**
13**RenderingHints****AxisLabel**
373.200**Element****Name**
Element 14**Index**
14**RenderingHints****AxisLabel**
436.000**Element****Name**
Element 15**Index**
15**RenderingHints****AxisLabel**
509.200**Element****Name**
Element 16**Index**
16**RenderingHints****AxisLabel**
575.800**ValidMin**
-9.22337e+18**ValidMax**
1.79769e+308**FillValue**
-1.0e+31**Particle****ParticleType**
Electron**Qualifier**

Differential

ParticleQuantity

EnergyFlux

Parameter #29

Name

Top Electron Intensity, Sensor ID 9

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_top_electron_intensity_sensorid_9

Description

Top Side Electron Intensity, Sensor ID 9, Burst Mode, Level 2

Cadence

PT0.3025S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $1.60218\text{e-}18 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints

AxisLabel
89.4000

Element

Name
Element 5

Index
5

RenderingHints
AxisLabel
107.100

Element

Name
Element 6

Index
6

RenderingHints
AxisLabel
125.200

Element

Name
Element 7

Index
7

RenderingHints
AxisLabel
146.500

Element

Name
Element 8

Index
8

RenderingHints
AxisLabel
171.300

Element

Name
Element 9

Index
9

RenderingHints
AxisLabel
200.200

Element

Name
Element 10

Index
10

RenderingHints
AxisLabel
234.000

Element

Name
Element 11

Index
11

RenderingHints
AxisLabel
273.400

Element

Name
Element 12

Index

12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

Index

13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

15

RenderingHints**AxisLabel**

509.200

Element**Name**

Element 16

Index

16

RenderingHints**AxisLabel**

575.800

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #30

Name

Top Electron Intensity, Sensor ID 10

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_top_electron_intensity_sensorid_10

Description

Top Side Electron Intensity, Sensor ID 10, Burst Mode, Level 2

Cadence

PT0.3025S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $1.60218\text{e-}18 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element**Name**

Element 6

Index

6

RenderingHints**AxisLabel**
125.200**Element****Name**
Element 7**Index**
7**RenderingHints****AxisLabel**
146.500**Element****Name**
Element 8**Index**
8**RenderingHints****AxisLabel**
171.300**Element****Name**
Element 9**Index**
9**RenderingHints****AxisLabel**
200.200**Element****Name**
Element 10**Index**
10**RenderingHints****AxisLabel**
234.000**Element****Name**
Element 11**Index**
11**RenderingHints****AxisLabel**
273.400**Element****Name**
Element 12**Index**
12**RenderingHints****AxisLabel**
319.400**Element****Name**
Element 13**Index**
13**RenderingHints****AxisLabel**
373.200**Element****Name**

Element 14
Index 14
RenderingHints
AxisLabel 436.000
Element
Name Element 15
Index 15
RenderingHints
AxisLabel 509.200
Element
Name Element 16
Index 16
RenderingHints
AxisLabel 575.800
ValidMin -9.22337e+18
ValidMax 1.79769e+308
FillValue -1.0e+31
Particle
ParticleType Electron
Qualifier Differential
ParticleQuantity EnergyFlux

Parameter #31

Name Top Electron Intensity, Sensor ID 11
Set Time series defined by using: EPOCH
ParameterKey mms1_epd_feeps_top_electron_intensity_sensorid_11
Description Top Side Electron Intensity, Sensor ID 11, Burst Mode, Level 2
Cadence PT0.3025S
Units (cm ² s sr keV) ⁻¹
UnitsConversion 1.60218e-18>(m ² s sr J) ⁻¹
RenderingHints
DisplayType Spectrogram
ValueFormat f20.3
ScaleMin 0.0
ScaleMax 1000.0
Structure
Size

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element**Name**

Element 6

Index

6

RenderingHints**AxisLabel**

125.200

Element**Name**

Element 7

Index

7

RenderingHints**AxisLabel**

146.500

Element**Name**

Element 8

Index

8

RenderingHints**AxisLabel**
171.300**Element****Name**
Element 9**Index**
9**RenderingHints****AxisLabel**
200.200**Element****Name**
Element 10**Index**
10**RenderingHints****AxisLabel**
234.000**Element****Name**
Element 11**Index**
11**RenderingHints****AxisLabel**
273.400**Element****Name**
Element 12**Index**
12**RenderingHints****AxisLabel**
319.400**Element****Name**
Element 13**Index**
13**RenderingHints****AxisLabel**
373.200**Element****Name**
Element 14**Index**
14**RenderingHints****AxisLabel**
436.000**Element****Name**
Element 15**Index**
15**RenderingHints****AxisLabel**
509.200**Element**

Name	Element 16
Index	16
RenderingHints	
AxisLabel	575.800
ValidMin	-9.22337e+18
ValidMax	1.79769e+308
FillValue	-1.0e+31
Particle	
ParticleType	Electron
Qualifier	Differential
ParticleQuantity	EnergyFlux

Parameter #32

Name	Top Electron Intensity, Sensor ID 12
Set	Time series defined by using: EPOCH
ParameterKey	mms1_epd_feeps_top_electron_intensity_sensorid_12
Description	Top Side Electron Intensity, Sensor ID 12, Burst Mode, Level 2
Cadence	PT0.3025S
Units	(cm ² s sr keV) ⁻¹
UnitsConversion	1.60218e-18>(m ² s sr J) ⁻¹
RenderingHints	
DisplayType	Spectrogram
ValueFormat	f20.3
ScaleMin	0.0
ScaleMax	1000.0
Structure	
Size	16
Element	
Name	Element 1
Index	1
RenderingHints	
AxisLabel	33.2000
Element	
Name	Element 2
Index	2
RenderingHints	

AxisLabel
51.9000

Element

Name
Element 3

Index
3

RenderingHints
AxisLabel
70.6000

Element

Name
Element 4

Index
4

RenderingHints
AxisLabel
89.4000

Element

Name
Element 5

Index
5

RenderingHints
AxisLabel
107.100

Element

Name
Element 6

Index
6

RenderingHints
AxisLabel
125.200

Element

Name
Element 7

Index
7

RenderingHints
AxisLabel
146.500

Element

Name
Element 8

Index
8

RenderingHints
AxisLabel
171.300

Element

Name
Element 9

Index
9

RenderingHints
AxisLabel
200.200

Element

Name
Element 10

Index	10
RenderingHints	
AxisLabel	234.000
Element	
Name	Element 11
Index	11
RenderingHints	
AxisLabel	273.400
Element	
Name	Element 12
Index	12
RenderingHints	
AxisLabel	319.400
Element	
Name	Element 13
Index	13
RenderingHints	
AxisLabel	373.200
Element	
Name	Element 14
Index	14
RenderingHints	
AxisLabel	436.000
Element	
Name	Element 15
Index	15
RenderingHints	
AxisLabel	509.200
Element	
Name	Element 16
Index	16
RenderingHints	
AxisLabel	575.800
ValidMin	-9.22337e+18
ValidMax	1.79769e+308
FillValue	-1.0e+31
Particle	
ParticleType	

Electron

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #33

Name

Bottom Electron Intensity, Sensor ID 1

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_intensity_sensorid_1

Description

Bottom Side Electron Intensity, Sensor ID 1, Burst Mode, Level 2

Cadence

PT0.3025S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $1.60218\text{e-}18 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**
89.4000**Element****Name**
Element 5**Index**
5**RenderingHints****AxisLabel**
107.100**Element****Name**
Element 6**Index**
6**RenderingHints****AxisLabel**
125.200**Element****Name**
Element 7**Index**
7**RenderingHints****AxisLabel**
146.500**Element****Name**
Element 8**Index**
8**RenderingHints****AxisLabel**
171.300**Element****Name**
Element 9**Index**
9**RenderingHints****AxisLabel**
200.200**Element****Name**
Element 10**Index**
10**RenderingHints****AxisLabel**
234.000**Element****Name**
Element 11**Index**
11**RenderingHints****AxisLabel**
273.400**Element****Name**

Element 12

Index

12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

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13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

15

RenderingHints**AxisLabel**

509.200

Element**Name**

Element 16

Index

16

RenderingHints**AxisLabel**

575.800

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #34

Name

Bottom Electron Intensity, Sensor ID 2

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_intensity_sensorid_2

Description

Bottom Side Electron Intensity, Sensor ID 2, Burst Mode, Level 2

Cadence

PT0.3025S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $1.60218\text{e-}18 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element**Name**

Element 6

Index

6

RenderingHints**AxisLabel**

125.200

Element**Name**

Element 7

Index

7

RenderingHints**AxisLabel**

146.500

Element**Name**

Element 8

Index

8

RenderingHints**AxisLabel**

171.300

Element**Name**

Element 9

Index

9

RenderingHints**AxisLabel**

200.200

Element**Name**

Element 10

Index

10

RenderingHints**AxisLabel**

234.000

Element**Name**

Element 11

Index

11

RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

Index

12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

Index

13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

15

RenderingHints**AxisLabel**

509.200

Element**Name**

Element 16

Index

16

RenderingHints**AxisLabel**

575.800

ValidMin $-9.22337e+18$ **ValidMax** $1.79769e+308$ **FillValue** $-1.0e+31$ **Particle****ParticleType**

Electron

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #35

Name

Bottom Electron Intensity, Sensor ID 3

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_intensity_sensorid_3

Description

Bottom Side Electron Intensity, Sensor ID 3, Burst Mode, Level 2

Cadence

PT0.3025S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $1.60218e-18 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element**Name**

Element 6

Index

6

RenderingHints**AxisLabel**

125.200

Element**Name**

Element 7

Index

7

RenderingHints**AxisLabel**

146.500

Element**Name**

Element 8

Index

8

RenderingHints**AxisLabel**

171.300

Element**Name**

Element 9

Index

9

RenderingHints**AxisLabel**

200.200

Element**Name**

Element 10

Index

10

RenderingHints**AxisLabel**

234.000

Element**Name**

Element 11

Index

11

RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

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12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

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13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

15

RenderingHints**AxisLabel**

509.200

Element**Name**

Element 16

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16

RenderingHints**AxisLabel**

575.800

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #36

Name

Bottom Electron Intensity, Sensor ID 4

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_intensity_sensorid_4

Description

Bottom Side Electron Intensity, Sensor ID 4, Burst Mode, Level 2

Cadence

PT0.3025S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $1.60218\text{e-}18 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**
51.9000**Element****Name**
Element 3**Index**
3**RenderingHints****AxisLabel**
70.6000**Element****Name**
Element 4**Index**
4**RenderingHints****AxisLabel**
89.4000**Element****Name**
Element 5**Index**
5**RenderingHints****AxisLabel**
107.100**Element****Name**
Element 6**Index**
6**RenderingHints****AxisLabel**
125.200**Element****Name**
Element 7**Index**
7**RenderingHints****AxisLabel**
146.500**Element****Name**
Element 8**Index**
8**RenderingHints****AxisLabel**
171.300**Element****Name**
Element 9**Index**
9**RenderingHints****AxisLabel**
200.200**Element**

Name
Element 10

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10

RenderingHints
AxisLabel
234.000

Element

Name
Element 11

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RenderingHints
AxisLabel
273.400

Element

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Element 12

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RenderingHints
AxisLabel
319.400

Element

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Element 13

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RenderingHints
AxisLabel
373.200

Element

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Element 14

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14

RenderingHints
AxisLabel
436.000

Element

Name
Element 15

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15

RenderingHints
AxisLabel
509.200

Element

Name
Element 16

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16

RenderingHints
AxisLabel
575.800

ValidMin
-9.22337e+18

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #37

Name

Bottom Electron Intensity, Sensor ID 5

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_intensity_sensorid_5

Description

Bottom Side Electron Intensity, Sensor ID 5, Burst Mode, Level 2

Cadence

PT0.3025S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $1.60218\text{e-}18 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

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1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element**Name**

Element 6

Index

6

RenderingHints**AxisLabel**

125.200

Element**Name**

Element 7

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7

RenderingHints**AxisLabel**

146.500

Element**Name**

Element 8

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8

RenderingHints**AxisLabel**

171.300

Element**Name**

Element 9

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9

RenderingHints**AxisLabel**

200.200

Element**Name**

Element 10

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RenderingHints**AxisLabel**

234.000

Element**Name**

Element 11

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RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

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12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

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13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

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14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

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15

RenderingHints**AxisLabel**

509.200

Element**Name**

Element 16

Index

16

RenderingHints**AxisLabel**

575.800

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Electron

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #38

Name

Bottom Electron Intensity, Sensor ID 9

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_intensity_sensorid_9

Description

Bottom Side Electron Intensity, Sensor ID 9, Burst Mode, Level 2

Cadence

PT0.3025S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $1.60218\text{e-}18 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

f20.3

ScaleMin

0.0

ScaleMax

1000.0

Structure**Size**

16

Element**Name**

Element 1

Index

1

RenderingHints**AxisLabel**

33.2000

Element**Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element

Name
Element 6

Index
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RenderingHints
AxisLabel
125.200

Element

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Element 7

Index
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RenderingHints
AxisLabel
146.500

Element

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Element 8

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RenderingHints
AxisLabel
171.300

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Element 9

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RenderingHints
AxisLabel
200.200

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RenderingHints
AxisLabel
234.000

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Element 11

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RenderingHints
AxisLabel
273.400

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Element 12

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RenderingHints
AxisLabel
319.400

Element

Name
Element 13

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RenderingHints

AxisLabel
373.200

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Element 14

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RenderingHints
AxisLabel
436.000

Element

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Element 15

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RenderingHints
AxisLabel
509.200

Element

Name
Element 16

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16

RenderingHints
AxisLabel
575.800

ValidMin
-9.22337e+18

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
Electron

Qualifier
Differential

ParticleQuantity
EnergyFlux

Parameter #39

Name
Bottom Electron Intensity, Sensor ID 10

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_feeps_bottom_electron_intensity_sensorid_10

Description
Bottom Side Electron Intensity, Sensor ID 10, Burst Mode, Level 2

Cadence
PT0.3025S

Units
(cm² s sr keV)⁻¹

UnitsConversion
1.60218e-18>(m² s sr J)⁻¹

RenderingHints

DisplayType
Spectrogram

ValueFormat
f20.3

ScaleMin
0.0

ScaleMax
1000.0

Structure

Size
16

Element

Name
Element 1

Index
1

RenderingHints
AxisLabel
33.2000

Element

Name
Element 2

Index
2

RenderingHints
AxisLabel
51.9000

Element

Name
Element 3

Index
3

RenderingHints
AxisLabel
70.6000

Element

Name
Element 4

Index
4

RenderingHints
AxisLabel
89.4000

Element

Name
Element 5

Index
5

RenderingHints
AxisLabel
107.100

Element

Name
Element 6

Index
6

RenderingHints
AxisLabel
125.200

Element

Name
Element 7

Index
7

RenderingHints
AxisLabel
146.500

Element**Name**

Element 8

Index

8

RenderingHints**AxisLabel**

171.300

Element**Name**

Element 9

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9

RenderingHints**AxisLabel**

200.200

Element**Name**

Element 10

Index

10

RenderingHints**AxisLabel**

234.000

Element**Name**

Element 11

Index

11

RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

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12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

Index

13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

15

RenderingHints**AxisLabel**
509.200**Element****Name**
Element 16**Index**
16**RenderingHints****AxisLabel**
575.800**ValidMin**

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**
Electron**Qualifier**
Differential**ParticleQuantity**
EnergyFlux

Parameter #40

Name

Bottom Electron Intensity, Sensor ID 11

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_intensity_sensorid_11

Description

Bottom Side Electron Intensity, Sensor ID 11, Burst Mode, Level 2

Cadence

PT0.3025S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $1.60218\text{e-}18 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**
Spectrogram**ValueFormat**
f20.3**ScaleMin**
0.0**ScaleMax**
1000.0**Structure****Size**
16**Element****Name**
Element 1**Index**
1**RenderingHints****AxisLabel**
33.2000**Element****Name**

Element 2

Index

2

RenderingHints**AxisLabel**

51.9000

Element**Name**

Element 3

Index

3

RenderingHints**AxisLabel**

70.6000

Element**Name**

Element 4

Index

4

RenderingHints**AxisLabel**

89.4000

Element**Name**

Element 5

Index

5

RenderingHints**AxisLabel**

107.100

Element**Name**

Element 6

Index

6

RenderingHints**AxisLabel**

125.200

Element**Name**

Element 7

Index

7

RenderingHints**AxisLabel**

146.500

Element**Name**

Element 8

Index

8

RenderingHints**AxisLabel**

171.300

Element**Name**

Element 9

Index

9

RenderingHints**AxisLabel**

200.200

Element**Name**

Element 10

Index

10

RenderingHints**AxisLabel**

234.000

Element**Name**

Element 11

Index

11

RenderingHints**AxisLabel**

273.400

Element**Name**

Element 12

Index

12

RenderingHints**AxisLabel**

319.400

Element**Name**

Element 13

Index

13

RenderingHints**AxisLabel**

373.200

Element**Name**

Element 14

Index

14

RenderingHints**AxisLabel**

436.000

Element**Name**

Element 15

Index

15

RenderingHints**AxisLabel**

509.200

Element**Name**

Element 16

Index

16

RenderingHints**AxisLabel**

575.800

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
Electron

Qualifier
Differential

ParticleQuantity
EnergyFlux

Parameter #41

Name
Bottom Electron Intensity, Sensor ID 12

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_feeps_bottom_electron_intensity_sensorid_12

Description
Bottom Side Electron Intensity, Sensor ID 12, Burst Mode, Level 2

Cadence
PT0.3025S

Units
(cm² s sr keV)⁻¹

UnitsConversion
1.60218e-18>(m² s sr J)⁻¹

RenderingHints

DisplayType
Spectrogram

ValueFormat
f20.3

ScaleMin
0.0

ScaleMax
1000.0

Structure

Size
16

Element

Name
Element 1

Index
1

RenderingHints
AxisLabel
33.2000

Element

Name
Element 2

Index
2

RenderingHints
AxisLabel
51.9000

Element

Name
Element 3

Index
3

RenderingHints
AxisLabel
70.6000

Element

Name
Element 4

Index
4

RenderingHints
AxisLabel
89.4000

Element

Name
Element 5

Index
5

RenderingHints
AxisLabel
107.100

Element

Name
Element 6

Index
6

RenderingHints
AxisLabel
125.200

Element

Name
Element 7

Index
7

RenderingHints
AxisLabel
146.500

Element

Name
Element 8

Index
8

RenderingHints
AxisLabel
171.300

Element

Name
Element 9

Index
9

RenderingHints
AxisLabel
200.200

Element

Name
Element 10

Index
10

RenderingHints
AxisLabel
234.000

Element

Name
Element 11

Index
11

RenderingHints

AxisLabel
273.400

Element

Name
Element 12

Index
12

RenderingHints
AxisLabel
319.400

Element

Name
Element 13

Index
13

RenderingHints
AxisLabel
373.200

Element

Name
Element 14

Index
14

RenderingHints
AxisLabel
436.000

Element

Name
Element 15

Index
15

RenderingHints
AxisLabel
509.200

Element

Name
Element 16

Index
16

RenderingHints
AxisLabel
575.800

ValidMin
-9.22337e+18

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
Electron

Qualifier
Differential

ParticleQuantity
EnergyFlux

Parameter #42

Name
Top Electron Sector Mask, Sensor ID 1

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_feeps_top_electron_sector_mask_sensorid_1

Description
Top Electron Sector Mask, Sensor ID 1, Bad Sector Flag

Cadence
PT0.3025S

RenderingHints

DisplayType
TimeSeries

AxisLabel
BAD SECTOR FLAG Top Sens1

ValueFormat
f20.3

ScaleType
LinearScale

ValidMin
-9.22337e+18

ValidMax
1.79769e+308

FillValue
-1.0e+31

Support
SupportQuantity
Other

Parameter #43

Name
Top Electron Sector Mask, Sensor ID 2

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_feeps_top_electron_sector_mask_sensorid_2

Description
Top Electron Sector Mask, Sensor ID 2, Bad Sector Flag

Cadence
PT0.3025S

RenderingHints

DisplayType
TimeSeries

AxisLabel
BAD SECTOR FLAG Top Sens2

ValueFormat
f20.3

ScaleType
LinearScale

ValidMin
-9.22337e+18

ValidMax
1.79769e+308

FillValue
-1.0e+31

Support
SupportQuantity
Other

Parameter #44

Name
Top Electron Sector Mask, Sensor ID 3

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_feeps_top_electron_sector_mask_sensorid_3

Description

Top Electron Sector Mask, Sensor ID 3, Bad Sector Flag

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

BAD SECTOR FLAG Top Sens3

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #45

Name

Top Electron Sector Mask, Sensor ID 4

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_top_electron_sector_mask_sensorid_4

Description

Top Electron Sector Mask, Sensor ID 4, Bad Sector Flag

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

BAD SECTOR FLAG Top Sens4

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #46

Name

Top Electron Sector Mask, Sensor ID 5

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_top_electron_sector_mask_sensorid_5

Description

Top Electron Sector Mask, Sensor ID 5, Bad Sector Flag

Cadence
PT0.3025S

RenderingHints

DisplayType
TimeSeries

AxisLabel
BAD SECTOR FLAG Top Sens5

ValueFormat
f20.3

ScaleType
LinearScale

ValidMin
-9.22337e+18

ValidMax
1.79769e+308

FillValue
-1.0e+31

Support

SupportQuantity
Other

Parameter #47

Name
Top Electron Sector Mask, Sensor ID 9

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_feeps_top_electron_sector_mask_sensorid_9

Description
Top Electron Sector Mask, Sensor ID 9, Bad Sector Flag

Cadence
PT0.3025S

RenderingHints

DisplayType
TimeSeries

AxisLabel
BAD SECTOR FLAG Top Sens9

ValueFormat
f20.3

ScaleType
LinearScale

ValidMin
-9.22337e+18

ValidMax
1.79769e+308

FillValue
-1.0e+31

Support

SupportQuantity
Other

Parameter #48

Name
Top Electron Sector Mask, Sensor ID 10

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_feeps_top_electron_sector_mask_sensorid_10

Description
Top Electron Sector Mask, Sensor ID 10, Bad Sector Flag

Cadence
PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

BAD SECTOR FLAG Top Sens10

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #49

Name

Top Electron Sector Mask, Sensor ID 11

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_top_electron_sector_mask_sensorid_11

Description

Top Electron Sector Mask, Sensor ID 11, Bad Sector Flag

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

BAD SECTOR FLAG Top Sens11

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #50

Name

Top Electron Sector Mask, Sensor ID 12

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_top_electron_sector_mask_sensorid_12

Description

Top Electron Sector Mask, Sensor ID 12, Bad Sector Flag

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

BAD SECTOR FLAG Top Sens12

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #51

Name

Bottom Electron Sector Mask, Sensor ID 1

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_sector_mask_sensorid_1

Description

Bottom Electron Sector Mask, Sensor ID 1, Bad Sector Flag

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

BAD SECTOR FLAG Bottom Sens1

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #52

Name

Bottom Electron Sector Mask, Sensor ID 2

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_sector_mask_sensorid_2

Description

Bottom Electron Sector Mask, Sensor ID 2, Bad Sector Flag

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

BAD SECTOR FLAG Bottom Sens2

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #53

Name

Bottom Electron Sector Mask, Sensor ID 3

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_sector_mask_sensorid_3

Description

Bottom Electron Sector Mask, Sensor ID 3, Bad Sector Flag

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

BAD SECTOR FLAG Bottom Sens3

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #54

Name

Bottom Electron Sector Mask, Sensor ID 4

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_sector_mask_sensorid_4

Description

Bottom Electron Sector Mask, Sensor ID 4, Bad Sector Flag

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

BAD SECTOR FLAG Bottom Sens4

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #55

Name

Bottom Electron Sector Mask, Sensor ID 5

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_sector_mask_sensorid_5

Description

Bottom Electron Sector Mask, Sensor ID 5, Bad Sector Flag

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

BAD SECTOR FLAG Bottom Sens5

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #56

Name

Bottom Electron Sector Mask, Sensor ID 9

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_sector_mask_sensorid_9

Description

Bottom Electron Sector Mask, Sensor ID 9, Bad Sector Flag

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

BAD SECTOR FLAG Bottom Sens9

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #57

Name

Bottom Electron Sector Mask, Sensor ID 10

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_sector_mask_sensorid_10

Description

Bottom Electron Sector Mask, Sensor ID 10, Bad Sector Flag

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

BAD SECTOR FLAG Bottom Sens10

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #58

Name

Bottom Electron Sector Mask, Sensor ID 11

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_sector_mask_sensorid_11

Description

Bottom Electron Sector Mask, Sensor ID 11, Bad Sector Flag

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

BAD SECTOR FLAG Bottom Sens11

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #59

Name

Bottom Electron Sector Mask, Sensor ID 12

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_bottom_electron_sector_mask_sensorid_12

Description

Bottom Electron Sector Mask, Sensor ID 12, Bad Sector Flag

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

BAD SECTOR FLAG Bottom Sens12

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #60

Name

Spacecraft Spin Number

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_electron_spin

Description

Number of Spacecraft Spin Rotations

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

Spacecraft rotations

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #61

Name

Electron Integration Sectors

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_electron_integration_sectors

Description

Electron Integration Sectors, Level 2, Burst Mode

Cadence

PT0.3025S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

integration sectors

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #62

Name

Electron Spin Duration

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_electron_spin_duration

Description

Electron Spin Duration, Level 2, Burst Mode

Cadence

PT0.3025S

Units

s

UnitsConversion

1>s

RenderingHints**DisplayType**

TimeSeries

AxisLabel

SPIN_DURATION

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #63

Name

Magnetic Field Vector (DBCS)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_electron_bfield

Description

Magnetic Field Vector in DBCS Coordinates

Cadence

PT0.3025S

Units

nT

UnitsConversion

1.0e-9>T

CoordinateSystem**CoordinateRepresentation**

Cartesian

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

ValueFormat

f20.3

ScaleType

LinearScale

Structure**Size**

3

Element**Name**

Element 1

Index

1

Element**Name**

Element 2

Index

2

Element**Name**

Element 3

Index

3

ValidMin

-2.14748e+09

ValidMax

3.40282e+38

FillValue

4.59177e-41

Field**Qualifier**

Vector

FieldQuantity

Magnetic

Parameter #64

Name

Electron Pitch Angles

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_electron_pitch_angle

Description

Electron Pitch Angles, Burst Mode, Level 2

Cadence

PT0.3025S

Units

degree

UnitsConversion

0.0174532925>rad

RenderingHints**DisplayType**

TimeSeries

ValueFormat

f20.3

ScaleType

LinearScale

Structure**Size**

18

Element**Name**

TOP_1

Index

1

Element**Name**

TOP_2

Index

2

Element**Name**

TOP_3

Index

3

Element**Name**

TOP_4

Index

4

Element**Name**

TOP_5

Index

5

Element**Name**

TOP_9

Index

6

Element**Name**

TOP_10

Index	7
Element	
Name	TOP_11
Index	8
Element	
Name	TOP_12
Index	9
Element	
Name	BOTTOM_1
Index	10
Element	
Name	BOTTOM_2
Index	11
Element	
Name	BOTTOM_3
Index	12
Element	
Name	BOTTOM_4
Index	13
Element	
Name	BOTTOM_5
Index	14
Element	
Name	BOTTOM_9
Index	15
Element	
Name	BOTTOM_10
Index	16
Element	
Name	BOTTOM_11
Index	17
Element	
Name	BOTTOM_12
Index	18
ValidMin	-180.0
ValidMax	180.0
FillValue	

4.59177e-41

Support**Qualifier**

DirectionAngle.PolarAngle

SupportQuantity

Other

Parameter #65

Name

Spacecraft Position (GSE)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_electron_scpos_ec_gse

Description

Spacecraft Position in GSE Coordinates

Cadence

PT0.3025S

Units

km

UnitsConversion

1.0e3>m

CoordinateSystem**CoordinateRepresentation**

Cartesian

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

ValueFormat

f20.3

ScaleType

LinearScale

Structure**Size**

3

Element**Name**

X

Index

1

Element**Name**

Y

Index

2

Element**Name**

Z

Index

3

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**Qualifier**

Vector

SupportQuantity

Positional

Parameter #66

Name

Spacecraft Position, Z-component (GSE)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_electron_scz_vec_gse

Description

Spacecraft Z-Axis Unit Vector in GSE Coordinates

Cadence

PT0.3025S

CoordinateSystem**CoordinateRepresentation**

Cartesian

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

ValueFormat

f20.3

ScaleType

LinearScale

Structure**Size**

3

Element**Name**

X

Index

1

Element**Name**

Y

Index

2

Element**Name**

Z

Index

3

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**Qualifier**

Component.K

SupportQuantity

Positional

Parameter #67

Name

Spacecraft Position, Y-component (GSE)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_electron_scy_vec_gse

Description
Spacecraft Y-Axis Unit Vector in GSE Coordinates

Cadence
PT0.3025S

CoordinateSystem

CoordinateRepresentation
Cartesian

CoordinateSystemName
GSE

RenderingHints

DisplayType
TimeSeries

ValueFormat
f20.3

ScaleType
LinearScale

Structure

Size
3

Element

Name
X

Index
1

Element

Name
Y

Index
2

Element

Name
Z

Index
3

ValidMin
-9.22337e+18

ValidMax
1.79769e+308

FillValue
-1.0e+31

Support

Qualifier
Component.J

SupportQuantity
Positional

Parameter #68

Name
Spacecraft Position, X-component (GSE)

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_feeps_electron_scx_vec_gse

Description
Spacecraft X-Axis Unit Vector in GSE Coordinates

Cadence
PT0.3025S

CoordinateSystem

CoordinateRepresentation
Cartesian

CoordinateSystemName
GSE

RenderingHints**DisplayType**
TimeSeries**ValueFormat**
f20.3**ScaleType**
LinearScale**Structure****Size**
3**Element****Name**
X**Index**
1**Element****Name**
Y**Index**
2**Element****Name**
Z**Index**
3**ValidMin**
-9.22337e+18**ValidMax**
1.79769e+308**FillValue**
-1.0e+31**Support****Qualifier**
Component.I**SupportQuantity**
Positional

Parameter #69

Name
Lunar Position (GSE)**Set**
Time series defined by using: EPOCH**ParameterKey**
mms1_epd_feeps_electron_moon_position_gse**Description**
Position of the Moon in GSE Coordinates**Cadence**
PT0.3025S**Units**
km**UnitsConversion**
1.0e3>m**CoordinateSystem****CoordinateRepresentation**
Cartesian**CoordinateSystemName**
GSE**RenderingHints****DisplayType**
TimeSeries**ValueFormat**
f20.3

ScaleType
LinearScale

Structure

Size
3

Element

Name
X

Index
1

Element

Name
Y

Index
2

Element

Name
Z

Index
3

ValidMin
-9.22337e+18

ValidMax
1.79769e+308

FillValue
-1.0e+31

Support

Qualifier
Vector

SupportQuantity
Positional

Parameter #70

Name
Spacecraft Position, Radius

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_feeps_electron_radius

Description
Spacecraft Radial Distance in Earth Radii (Re)

Cadence
PT0.3025S

Units
Re

UnitsConversion
6371200>m

RenderingHints

DisplayType
TimeSeries

AxisLabel
radial distance

ValueFormat
f20.3

ScaleType
LinearScale

ValidMin
-9.22337e+18

ValidMax
1.79769e+308

FillValue
-1.0e+31

Support**Qualifier**

Magnitude

SupportQuantity

Positional

Parameter #71

Name

Spacecraft Position, Latitude (GSE)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_electron_lat_gse

Description

Spacecraft Latitude in GSE Coordinates

Cadence

PT0.3025S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

AxisLabel

latitude

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**Qualifier**

DirectionAngle.ElevationAngle

SupportQuantity

Positional

Parameter #72

Name

Spacecraft Position, Longitude (GSE)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_electron_lon_gse

Description

Spacecraft Longitude in GSE Coordinates

Cadence

PT0.3025S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

AxisLabel

longitude

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**Qualifier**

DirectionAngle.AzimuthAngle

SupportQuantity

Positional

Parameter #73

Name

Spacecraft Position, L-Shell

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_electron_l_shell

Description

Spacecraft L Shell in Earth Radii (Re) determined by using GSM Latitude

Cadence

PT0.3025S

Units

Re

UnitsConversion

6371200>m

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSM

RenderingHints**DisplayType**

TimeSeries

AxisLabel

dipole L shell

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support

SupportQuantity
 Positional

Parameter #74

Name

Spacecraft Position, Latitude (GSE)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_electron_lat_gsm

Description

Spacecraft Latitude in GSE Coordinates

Cadence

PT0.3025S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

AxisLabel

latitude

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**Qualifier**

DirectionAngle.ElevationAngle

SupportQuantity

Positional

Parameter #75

Name

Spacecraft Position, Longitude (GSE)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_feeps_electron_lon_gsm

Description

Spacecraft Longitude in GSE Coordinates

Cadence

PT0.3025S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

AxisLabel

longitude

ValueFormat

f20.3

ScaleType

LinearScale

ValidMin

-9.22337e+18

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**Qualifier**

DirectionAngle.AzimuthAngle

SupportQuantity

Positional