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Data Access

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

MMS 1 Energetic Particle Detector, Energetic Ion Spectrometer (EPD-EIS) Energy by Time of Flight, Level 2 (L2), Burst Mode, 0.605 s Data

Cohen, I.J., Mauk, B.H., and Burch, J.L. (2022). MMS 1 Energetic Particle Detector, Energetic Ion Spectrometer (EPD-EIS) Energy by Time of Flight, Level 2 (L2), Burst Mode, 0.605 s Data [Data set]. NASA Space Physics Data Facility.

<https://doi.org/10.48322/c8gk-pv81>. Accessed on 2023-April-5.

ResourceID

spase://NASA/NumericalData/MMS/1/EnergeticParticleDetector/EIS/Burst/Level2/EnergyByTimeOfFlight/PT0.

Description

Energetic Particle Detector (EPD), Energetic Ion Spectrometer (EIS) Energy by Time of Flight, Level 2, Burst Survey, 0.605 s Data. The EIS provides ion composition measurements (protons versus oxygen ions) and angular distributions over the energy range from approximately 45 to 500 keV.

Details

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

Version:2.5.0

NumericalData

ResourceID

spase://NASA/NumericalData/MMS/1/EnergeticParticleDetector/EIS/Burst/Level2/EnergyByTimeOfFlight/PT0.605S

ResourceHeader

ResourceName

MMS 1 Energetic Particle Detector, Energetic Ion Spectrometer (EPD-EIS) Energy by Time of Flight, Level 2 (L2), Burst Mode, 0.605 s Data

AlternateName

MMS1_EPD-EIS_BRST_L2_EXTOF

DOI

<https://doi.org/10.48322/c8gk-pv81>

ReleaseDate

2023-03-04 12:34:56.789

RevisionHistory

RevisionEvent

ReleaseDate

2021-04-27 15:38:11

Note

Only known prior ReleaseDate of the metadata

RevisionEvent

ReleaseDate

2022-08-04 12:34:56.789

Note

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

RevisionEvent

ReleaseDate

2023-03-04 12:34:56.789

Note

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

Description

Energetic Particle Detector (EPD), Energetic Ion Spectrometer (EIS) Energy by Time of Flight, Level 2, Burst Survey, 0.605 s Data. The EIS provides ion composition measurements (protons versus oxygen ions) and angular distributions over the energy range from approximately 45 to 500 keV.

Acknowledgement

Please acknowledge I.J. Cohen, B.H. Mauk, and J.L. Burch for use of these data

PublicationInfo

Authors

Cohen, Ian, J.; Mauk, Barry, H.; Burch, James, L.

PublicationDate

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PublishedBy

NASA Space Physics Data Facility

Contacts

Role	Person	StartDate	StopDate	Note
1. InstrumentLead CoInvestigator	spase://SMWG/Person/Ian.J.Cohen			
2. InstrumentLead CoInvestigator	spase://SMWG/Person/Barry.H.Mauk			Retired
3. PrincipalInvestigator	spase://SMWG/Person/James.L.Burch			
4. HostContact	spase://SMWG/Person/MMS_SDC_POC			
5. MetadataContact	spase://SMWG/Person/Robert.M.Candey			
6. MetadataContact	spase://SMWG/Person/Lee.Frost.Bargatze			

InformationURL**Name**

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

URL

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

Description

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

InformationURL**Name**

Data Caveats and Current Release Notes at LASP MMS SDC

URL

<https://lasp.colorado.edu/mms/sdc/public/datasets/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://VSPPO/NumericalData/MMS/1/EnergeticParticleDetector/EIS/Burst/Level2/EnergyByTimeOfFlight/PT0.605S>

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

<ftps://lasp.colorado.edu/mms/sdc/public/data/mms1/epd-eis/brst/l2/extof/>

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/epd-eis/brst/l2/extof/>

Description

In CDF via http from the MMS Science Data Center

Format

CDF

Encoding

None

Acknowledgement

Please acknowledge I.J. Cohen, B.H. Mauk, and J.L. Burch. Also please acknowledge the data providers and CDAWeb when using these data.

AccessInformation**RepositoryID**

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

Availability

Online

AccessRights

Open

AccessURL**Name**

FTPS from SPDF (not with most browsers)

URL

<ftps://spdf.gsfc.nasa.gov/pub/data/mms/mms1/epd-eis/brst/l2/extof/>

Description

In CDF via ftp from SPDF

AccessURL**Name**

HTTPS from SPDF

URL

<https://spdf.gsfc.nasa.gov/pub/data/mms/mms1/epd-eis/brst/l2/extof/>

Description

In CDF via http from SPDF

AccessURL**Name**

CDAWeb

URL

https://cdaweb.gsfc.nasa.gov/cgi-bin/eval2.cgi?dataset=MMS1_EPD-EIS_BRST_L2_EXTOF&index=sp_phys

ProductKey

MMS1_EPD-EIS_BRST_L2_EXTOF

Description

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

Format

CDF

Encoding

None

Acknowledgement

Please acknowledge I.J. Cohen, B.H. Mauk, and J.L. Burch. Also please acknowledge the data providers and CDAWeb when using these data.

AccessInformation**RepositoryID**

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

Availability

Online

AccessRights

Open

AccessURL**Name**

CDAWeb HAPI Server

URL

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

Style

HAPI

ProductKey

MMS1_EPD-EIS_BRST_L2_EXTOF

Description

Web Service to this product using the HAPI interface

Format

CSV

Acknowledgement

Please acknowledge I.J. Cohen, B.H. Mauk, 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/EIS>
<spase://SMWG/Instrument/MMS/1/FIELDS/FGM>

MeasurementType

EnergeticParticles

TemporalDescription**TimeSpan****StartDate**

2015-09-01 12:11:14

RelativeStopDate

-P2M

Cadence

PT0.605S

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

ParameterKey

Epoch

Description

Time Bin Centers in nanoseconds since J2000

Caveats

This parameter exhibits an increasing monotonic progression.

Cadence

PT0.605S

Units

ns

UnitsConversion

1.0e-9>s

RenderingHints**DisplayType**

TimeSeries

AxisLabel

time

ValidMin

2015-10-21T10:52:45.222687005

ValidMax

2015-10-21T10:52:45.222687005

FillValue

9999-12-31T23:59:59.999999999

Support**SupportQuantity**

Temporal

Parameter #2

Name

Time Minus

Set

Time series defined by using: EPOCH

ParameterKey

Time_Minus

Description

Delta from the Start of the Measurement Window to the Midpoint

Cadence

PT0.605S

Units

s

RenderingHints**DisplayType**

TimeSeries

AxisLabel

DTMinus

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Temporal

Parameter #3

Name

Time Plus

Set

Time series defined by using: EPOCH

ParameterKey

Time_Plus

Description

Delta from the Midpoint of the Measurement Window to the End

Cadence

PT0.605S

Units

s

RenderingHints**DisplayType**

TimeSeries

AxisLabel

DTPlus

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Temporal

Parameter #4

Name

Accumulation Time Duration

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_duration

Description

Total Exposure Time for Accumulation

Cadence

PT0.605S

Units

s

RenderingHints**DisplayType**

TimeSeries

AxisLabel

DT

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Temporal

Parameter #5

Name

Instrument Deadtime

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_deadtime

Description

Instrument Deadtime, applied for Correction of Counting Rate Data

Cadence

PT0.605S

Units

s

RenderingHints**DisplayType**

TimeSeries

AxisLabel

Deadtime

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Temporal

Parameter #6

Name

Instrument Mode Large Pixel Setting

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_largepixel

Description

Instrument Mode Pixel Size Sensitivity to Higher Energy Ions, those with Energies above the Solid State Detector ((SSD)) Channel Thresholds, can be adjusted by selecting Large or Small (SSD) Pixels. The Sensitivity increases by a Factor of 20 when the Large Pixel Setting is chosen.

Cadence

PT0.605S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

LargePixel

ValueFormat

i1

ScaleType

LinearScale

ValidMin

0

ValidMax

1

FillValue

-128

Support**SupportQuantity**

InstrumentMode

Parameter #7

Name

Measurement Window Start Time

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_starttai

Description

Measurement Window Start Time, Temps Atomique International (TAI) since 1958

Cadence

PT0.605S

Units

s

RenderingHints**DisplayType**

TimeSeries

AxisLabel

StartTAI

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Temporal

Parameter #8

Name

Nominal Measurement Time

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_midtai

Description

Nominal Measurement Time, Temps Atomique International (TAI) since 1958

Cadence

PT0.605S

Units

s

RenderingHints**DisplayType**

TimeSeries

AxisLabel

MidTAI

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Temporal

Parameter #9

Name

Measurement Window Stop Time

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_endtai

Description

Measurement Window Stop Time, Temps Atomique International (TAI) since 1958

Cadence

PT0.605S

Units

s

RenderingHints**DisplayType**

TimeSeries

AxisLabel

EndTAI

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Support**SupportQuantity**

Temporal

Parameter #10

Name

Spin Number

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_spin

Description

Spacecraft Spin Number

Cadence

PT0.605S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

Spin

ValueFormat

i10

ScaleType

LinearScale

ValidMin

0

ValidMax

65535

FillValue

65535

Support**SupportQuantity**

Other

Parameter #11

Name

Spin Sector

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_sector

Description
Spacecraft Spin Sector

Cadence
PT0.605S

RenderingHints

DisplayType
TimeSeries

AxisLabel
Sector

ValueFormat
i2

ScaleType
LinearScale

ValidMin
0

ValidMax
31

FillValue
-128

Support

SupportQuantity
Other

Parameter #12

Name
Quality Flag

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_quality

Description
Quality Flag Value

Cadence
PT0.605S

RenderingHints

DisplayType
TimeSeries

AxisLabel
Quality

ValueFormat
i10

ScaleType
LinearScale

ValidMin
0

ValidMax
2147483647

FillValue
4294967295

Support

SupportQuantity
Other

Parameter #13

Name
Telescope 0 Proton Counts

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_proton_P3_counts_t0

Description
Telescope 0 Proton Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

RenderingHints

DisplayType
Spectrogram

ValueFormat

g22.8

Structure**Size**

25

Element**Name**

MMS10THF00 H+ 50keVcounts

Index

1

RenderingHints**AxisLabel**

50.0000

Element**Name**

MMS10THF01 H+ 57keVcounts

Index

2

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS10THF02 H+ 64keVcounts

Index

3

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS10THF03 H+ 73keVcounts

Index

4

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS10THF04 H+ 83keVcounts

Index

5

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS10THF05 H+ 94keVcounts

Index

6

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS10THF06 H+ 107keVcounts

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS10THF07 H+ 122keVcounts

Index

8

RenderingHints
AxisLabel 100.000
Element
Name MMS10THF08 H+ 138keVcounts
Index 9
RenderingHints
AxisLabel 100.000
Element
Name MMS10THF09 H+ 157keVcounts
Index 10
RenderingHints
AxisLabel 200.000
Element
Name MMS10THF10 H+ 179keVcounts
Index 11
RenderingHints
AxisLabel 200.000
Element
Name MMS10THF11 H+ 203keVcounts
Index 12
RenderingHints
AxisLabel 200.000
Element
Name MMS10THF12 H+ 231keVcounts
Index 13
RenderingHints
AxisLabel 200.000
Element
Name MMS10THF13 H+ 262keVcounts
Index 14
RenderingHints
AxisLabel 300.000
Element
Name MMS10THF14 H+ 299keVcounts
Index 15
RenderingHints
AxisLabel 300.000
Element
Name MMS10THF15 H+ 340keVcounts
Index 16
RenderingHints
AxisLabel

300.000

Element**Name**

MMS10THF16 H+ 387keVcounts

Index

17

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS10THF17 H+ 441keVcounts

Index

18

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS10THF18 H+ 502keVcounts

Index

19

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS10THF19 H+ 571keVcounts

Index

20

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS10THF20 H+ 650keVcounts

Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS10THF21 H+ 740keVcounts

Index

22

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS10THF22 H+ 842keVcounts

Index

23

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS10THF23 H+ 957keVcounts

Index

24

RenderingHints**AxisLabel**

1000.00

Element

Name
MMS10THF24 H+ 3273keVcounts

Index
25

RenderingHints
AxisLabel
3000.00

ValidMin
0.0

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle
ParticleType
Proton

Qualifier
Differential

ParticleQuantity
Counts

Parameter #14

Name
Telescope 1 Proton Counts

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_proton_P3_counts_t1

Description
Telescope 1 Proton Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

RenderingHints
DisplayType
Spectrogram

ValueFormat
g22.8

Structure
Size
25

Element
Name
MMS11THF00 H+ 50keVcounts

Index
1

RenderingHints
AxisLabel
50.0000

Element
Name
MMS11THF01 H+ 57keVcounts

Index
2

RenderingHints
AxisLabel
60.0000

Element
Name
MMS11THF02 H+ 64keVcounts

Index
3

RenderingHints
AxisLabel
60.0000

Element
Name
MMS11THF03 H+ 73keVcounts

Index	4
RenderingHints	
AxisLabel	70.0000
Element	
Name	MMS11THF04 H+ 83keVcounts
Index	5
RenderingHints	
AxisLabel	80.0000
Element	
Name	MMS11THF05 H+ 94keVcounts
Index	6
RenderingHints	
AxisLabel	90.0000
Element	
Name	MMS11THF06 H+ 107keVcounts
Index	7
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS11THF07 H+ 122keVcounts
Index	8
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS11THF08 H+ 138keVcounts
Index	9
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS11THF09 H+ 157keVcounts
Index	10
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS11THF10 H+ 179keVcounts
Index	11
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS11THF11 H+ 203keVcounts
Index	12

RenderingHints
AxisLabel 200.000
Element
Name MMS11THF12 H+ 231keVcounts
Index 13
RenderingHints
AxisLabel 200.000
Element
Name MMS11THF13 H+ 262keVcounts
Index 14
RenderingHints
AxisLabel 300.000
Element
Name MMS11THF14 H+ 299keVcounts
Index 15
RenderingHints
AxisLabel 300.000
Element
Name MMS11THF15 H+ 340keVcounts
Index 16
RenderingHints
AxisLabel 300.000
Element
Name MMS11THF16 H+ 387keVcounts
Index 17
RenderingHints
AxisLabel 400.000
Element
Name MMS11THF17 H+ 441keVcounts
Index 18
RenderingHints
AxisLabel 400.000
Element
Name MMS11THF18 H+ 502keVcounts
Index 19
RenderingHints
AxisLabel 500.000
Element
Name MMS11THF19 H+ 571keVcounts
Index 20
RenderingHints
AxisLabel

600.000

Element**Name**

MMS11THF20 H+ 650keVcounts

Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS11THF21 H+ 740keVcounts

Index

22

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS11THF22 H+ 842keVcounts

Index

23

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS11THF23 H+ 957keVcounts

Index

24

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS11THF24 H+ 3273keVcounts

Index

25

RenderingHints**AxisLabel**

3000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Proton

Qualifier

Differential

ParticleQuantity

Counts

Parameter #15

Name

Telescope 2 Proton Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_proton_P3_counts_t2

Description

Telescope 2 Proton Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

25

Element**Name**

MMS12THF00 H+ 50keVcounts

Index

1

RenderingHints**AxisLabel**

50.0000

Element**Name**

MMS12THF01 H+ 57keVcounts

Index

2

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS12THF02 H+ 64keVcounts

Index

3

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS12THF03 H+ 73keVcounts

Index

4

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS12THF04 H+ 83keVcounts

Index

5

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS12THF05 H+ 94keVcounts

Index

6

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS12THF06 H+ 107keVcounts

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS12THF07 H+ 122keVcounts	
Index	8
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS12THF08 H+ 138keVcounts
Index	9
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS12THF09 H+ 157keVcounts
Index	10
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF10 H+ 179keVcounts
Index	11
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF11 H+ 203keVcounts
Index	12
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF12 H+ 231keVcounts
Index	13
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF13 H+ 262keVcounts
Index	14
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF14 H+ 299keVcounts
Index	15
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF15 H+ 340keVcounts
Index	

16

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS12THF16 H+ 387keVcounts

Index

17

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS12THF17 H+ 441keVcounts

Index

18

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS12THF18 H+ 502keVcounts

Index

19

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS12THF19 H+ 571keVcounts

Index

20

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS12THF20 H+ 650keVcounts

Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS12THF21 H+ 740keVcounts

Index

22

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS12THF22 H+ 842keVcounts

Index

23

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS12THF23 H+ 957keVcounts

Index

24

RenderingHints

AxisLabel	1000.00
Element	
Name	MMS12THF24 H+ 3273keVcounts
Index	25
RenderingHints	
AxisLabel	3000.00
ValidMin	0.0
ValidMax	1.79769e+308
FillValue	-1.0e+31
Particle	
ParticleType	Proton
Qualifier	Differential
ParticleQuantity	Counts

Parameter #16

Name	Telescope 3 Proton Counts
Set	Time series defined by using: EPOCH
ParameterKey	mms1_epd_eis_brst_extof_proton_P3_counts_t3
Description	Telescope 3 Proton Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExtTOF) Burst Data
Cadence	PT0.605S
RenderingHints	
DisplayType	Spectrogram
ValueFormat	g22.8
Structure	
Size	25
Element	
Name	MMS13THF00 H+ 50keVcounts
Index	1
RenderingHints	
AxisLabel	50.0000
Element	
Name	MMS13THF01 H+ 57keVcounts
Index	2
RenderingHints	
AxisLabel	60.0000
Element	
Name	MMS13THF02 H+ 64keVcounts
Index	3
RenderingHints	
AxisLabel	60.0000

Element**Name**

MMS13THF03 H+ 73keVcounts

Index

4

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS13THF04 H+ 83keVcounts

Index

5

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS13THF05 H+ 94keVcounts

Index

6

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS13THF06 H+ 107keVcounts

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS13THF07 H+ 122keVcounts

Index

8

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS13THF08 H+ 138keVcounts

Index

9

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS13THF09 H+ 157keVcounts

Index

10

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF10 H+ 179keVcounts

Index

11

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF11 H+ 203keVcounts	
Index	12
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS13THF12 H+ 231keVcounts
Index	13
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS13THF13 H+ 262keVcounts
Index	14
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS13THF14 H+ 299keVcounts
Index	15
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS13THF15 H+ 340keVcounts
Index	16
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS13THF16 H+ 387keVcounts
Index	17
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS13THF17 H+ 441keVcounts
Index	18
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS13THF18 H+ 502keVcounts
Index	19
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS13THF19 H+ 571keVcounts
Index	

20

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS13THF20 H+ 650keVcounts

Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS13THF21 H+ 740keVcounts

Index

22

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS13THF22 H+ 842keVcounts

Index

23

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS13THF23 H+ 957keVcounts

Index

24

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS13THF24 H+ 3273keVcounts

Index

25

RenderingHints**AxisLabel**

3000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Proton

Qualifier

Differential

ParticleQuantity

Counts

Parameter #17

Name

Telescope 4 Proton Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_proton_P3_counts_t4

Description

Telescope 4 Proton Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

25

Element**Name**

MMS14THF00 H+ 50keVcounts

Index

1

RenderingHints**AxisLabel**

50.0000

Element**Name**

MMS14THF01 H+ 57keVcounts

Index

2

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS14THF02 H+ 64keVcounts

Index

3

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS14THF03 H+ 73keVcounts

Index

4

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS14THF04 H+ 83keVcounts

Index

5

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS14THF05 H+ 94keVcounts

Index

6

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS14THF06 H+ 107keVcounts

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF07 H+ 122keVcounts

Index

8

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF08 H+ 138keVcounts

Index

9

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF09 H+ 157keVcounts

Index

10

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF10 H+ 179keVcounts

Index

11

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF11 H+ 203keVcounts

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF12 H+ 231keVcounts

Index

13

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF13 H+ 262keVcounts

Index

14

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS14THF14 H+ 299keVcounts

Index

15

RenderingHints**AxisLabel**

300.000

Element

Name	MMS14THF15 H+ 340keVcounts
Index	16
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS14THF16 H+ 387keVcounts
Index	17
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS14THF17 H+ 441keVcounts
Index	18
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS14THF18 H+ 502keVcounts
Index	19
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS14THF19 H+ 571keVcounts
Index	20
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS14THF20 H+ 650keVcounts
Index	21
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS14THF21 H+ 740keVcounts
Index	22
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS14THF22 H+ 842keVcounts
Index	23
RenderingHints	
AxisLabel	800.000
Element	
Name	MMS14THF23 H+ 957keVcounts

Index

24

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS14THF24 H+ 3273keVcounts

Index

25

RenderingHints**AxisLabel**

3000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Proton

Qualifier

Differential

ParticleQuantity

Counts

Parameter #18

Name

Telescope 5 Proton Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_proton_P3_counts_t5

Description

Telescope 5 Proton Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

25

Element**Name**

MMS15THF00 H+ 50keVcounts

Index

1

RenderingHints**AxisLabel**

50.0000

Element**Name**

MMS15THF01 H+ 57keVcounts

Index

2

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS15THF02 H+ 64keVcounts

Index

3

RenderingHints
AxisLabel 60.0000
Element
Name MMS15THF03 H+ 73keVcounts
Index 4
RenderingHints
AxisLabel 70.0000
Element
Name MMS15THF04 H+ 83keVcounts
Index 5
RenderingHints
AxisLabel 80.0000
Element
Name MMS15THF05 H+ 94keVcounts
Index 6
RenderingHints
AxisLabel 90.0000
Element
Name MMS15THF06 H+ 107keVcounts
Index 7
RenderingHints
AxisLabel 100.000
Element
Name MMS15THF07 H+ 122keVcounts
Index 8
RenderingHints
AxisLabel 100.000
Element
Name MMS15THF08 H+ 138keVcounts
Index 9
RenderingHints
AxisLabel 100.000
Element
Name MMS15THF09 H+ 157keVcounts
Index 10
RenderingHints
AxisLabel 200.000
Element
Name MMS15THF10 H+ 179keVcounts
Index 11
RenderingHints
AxisLabel

200.000

Element**Name**

MMS15THF11 H+ 203keVcounts

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF12 H+ 231keVcounts

Index

13

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF13 H+ 262keVcounts

Index

14

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS15THF14 H+ 299keVcounts

Index

15

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS15THF15 H+ 340keVcounts

Index

16

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS15THF16 H+ 387keVcounts

Index

17

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS15THF17 H+ 441keVcounts

Index

18

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS15THF18 H+ 502keVcounts

Index

19

RenderingHints**AxisLabel**

500.000

Element

Name
MMS15THF19 H+ 571keVcounts

Index
20

RenderingHints
AxisLabel
600.000

Element

Name
MMS15THF20 H+ 650keVcounts

Index
21

RenderingHints
AxisLabel
700.000

Element

Name
MMS15THF21 H+ 740keVcounts

Index
22

RenderingHints
AxisLabel
700.000

Element

Name
MMS15THF22 H+ 842keVcounts

Index
23

RenderingHints
AxisLabel
800.000

Element

Name
MMS15THF23 H+ 957keVcounts

Index
24

RenderingHints
AxisLabel
1000.00

Element

Name
MMS15THF24 H+ 3273keVcounts

Index
25

RenderingHints
AxisLabel
3000.00

ValidMin
0.0

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
Proton

Qualifier
Differential

ParticleQuantity
Counts

Parameter #19

Name
Telescope 0 Proton Count Rate

Set
Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_proton_P3_cps_t0

Description

Telescope 0 Proton Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

25

Element**Name**

MMS10THF00 H+ 50keVcps

Index

1

RenderingHints**AxisLabel**

50.0000

Element**Name**

MMS10THF01 H+ 57keVcps

Index

2

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS10THF02 H+ 64keVcps

Index

3

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS10THF03 H+ 73keVcps

Index

4

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS10THF04 H+ 83keVcps

Index

5

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS10THF05 H+ 94keVcps

Index

6

RenderingHints**AxisLabel**

90.0000

Element

Name	MMS10THF06 H+ 107keVcps
Index	7
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS10THF07 H+ 122keVcps
Index	8
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS10THF08 H+ 138keVcps
Index	9
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS10THF09 H+ 157keVcps
Index	10
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS10THF10 H+ 179keVcps
Index	11
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS10THF11 H+ 203keVcps
Index	12
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS10THF12 H+ 231keVcps
Index	13
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS10THF13 H+ 262keVcps
Index	14
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS10THF14 H+ 299keVcps

Index	15
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS10THF15 H+ 340keVcps
Index	16
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS10THF16 H+ 387keVcps
Index	17
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS10THF17 H+ 441keVcps
Index	18
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS10THF18 H+ 502keVcps
Index	19
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS10THF19 H+ 571keVcps
Index	20
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS10THF20 H+ 650keVcps
Index	21
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS10THF21 H+ 740keVcps
Index	22
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS10THF22 H+ 842keVcps
Index	23

RenderingHints
AxisLabel 800.000
Element
Name MMS10THF23 H+ 957keVcps
Index 24
RenderingHints
AxisLabel 1000.00
Element
Name MMS10THF24 H+ 3273keVcps
Index 25
RenderingHints
AxisLabel 3000.00
ValidMin 0.0
ValidMax 1.79769e+308
FillValue -1.0e+31
Particle
ParticleType Proton
Qualifier Differential
ParticleQuantity CountRate

Parameter #20

Name Telescope 1 Proton Count Rate
Set Time series defined by using: EPOCH
ParameterKey mms1_epd_eis_brst_extof_proton_P3_cps_t1
Description Telescope 1 Proton Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (EXTOF) Burst Data
Cadence PT0.605S
Units s ⁻¹
RenderingHints
DisplayType Spectrogram
ValueFormat g22.8
Structure
Size 25
Element
Name MMS11THF00 H+ 50keVcps
Index 1
RenderingHints
AxisLabel 50.0000
Element
Name MMS11THF01 H+ 57keVcps
Index

2

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS11THF02 H+ 64keVcps

Index

3

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS11THF03 H+ 73keVcps

Index

4

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS11THF04 H+ 83keVcps

Index

5

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS11THF05 H+ 94keVcps

Index

6

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS11THF06 H+ 107keVcps

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS11THF07 H+ 122keVcps

Index

8

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS11THF08 H+ 138keVcps

Index

9

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS11THF09 H+ 157keVcps

Index

10

RenderingHints

AxisLabel	200.000
Element	
Name	MMS11THF10 H+ 179keVcps
Index	11
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS11THF11 H+ 203keVcps
Index	12
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS11THF12 H+ 231keVcps
Index	13
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS11THF13 H+ 262keVcps
Index	14
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS11THF14 H+ 299keVcps
Index	15
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS11THF15 H+ 340keVcps
Index	16
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS11THF16 H+ 387keVcps
Index	17
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS11THF17 H+ 441keVcps
Index	18
RenderingHints	
AxisLabel	400.000

Element**Name**

MMS11THF18 H+ 502keVcps

Index

19

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS11THF19 H+ 571keVcps

Index

20

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS11THF20 H+ 650keVcps

Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS11THF21 H+ 740keVcps

Index

22

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS11THF22 H+ 842keVcps

Index

23

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS11THF23 H+ 957keVcps

Index

24

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS11THF24 H+ 3273keVcps

Index

25

RenderingHints**AxisLabel**

3000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Proton

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #21

Name

Telescope 2 Proton Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_proton_P3_cps_t2

Description

Telescope 2 Proton Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

25

Element**Name**

MMS12THF00 H+ 50keVcps

Index

1

RenderingHints**AxisLabel**

50.0000

Element**Name**

MMS12THF01 H+ 57keVcps

Index

2

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS12THF02 H+ 64keVcps

Index

3

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS12THF03 H+ 73keVcps

Index

4

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS12THF04 H+ 83keVcps

Index

5

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS12THF05 H+ 94keVcps

Index

6

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS12THF06 H+ 107keVcps

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS12THF07 H+ 122keVcps

Index

8

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS12THF08 H+ 138keVcps

Index

9

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS12THF09 H+ 157keVcps

Index

10

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS12THF10 H+ 179keVcps

Index

11

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS12THF11 H+ 203keVcps

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS12THF12 H+ 231keVcps

Index

13

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS12THF13 H+ 262keVcps	
Index	14
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF14 H+ 299keVcps
Index	15
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF15 H+ 340keVcps
Index	16
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF16 H+ 387keVcps
Index	17
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS12THF17 H+ 441keVcps
Index	18
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS12THF18 H+ 502keVcps
Index	19
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS12THF19 H+ 571keVcps
Index	20
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS12THF20 H+ 650keVcps
Index	21
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS12THF21 H+ 740keVcps
Index	

22

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS12THF22 H+ 842keVcps

Index

23

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS12THF23 H+ 957keVcps

Index

24

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS12THF24 H+ 3273keVcps

Index

25

RenderingHints**AxisLabel**

3000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Proton

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #22

Name

Telescope 3 Proton Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_proton_P3_cps_t3

Description

Telescope 3 Proton Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

25

Element**Name**

MMS13THF00 H+ 50keVcps

Index	1
RenderingHints	
AxisLabel	50.0000
Element	
Name	MMS13THF01 H+ 57keVcps
Index	2
RenderingHints	
AxisLabel	60.0000
Element	
Name	MMS13THF02 H+ 64keVcps
Index	3
RenderingHints	
AxisLabel	60.0000
Element	
Name	MMS13THF03 H+ 73keVcps
Index	4
RenderingHints	
AxisLabel	70.0000
Element	
Name	MMS13THF04 H+ 83keVcps
Index	5
RenderingHints	
AxisLabel	80.0000
Element	
Name	MMS13THF05 H+ 94keVcps
Index	6
RenderingHints	
AxisLabel	90.0000
Element	
Name	MMS13THF06 H+ 107keVcps
Index	7
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS13THF07 H+ 122keVcps
Index	8
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS13THF08 H+ 138keVcps
Index	9

RenderingHints
AxisLabel 100.000
Element
Name MMS13THF09 H+ 157keVcps
Index 10
RenderingHints
AxisLabel 200.000
Element
Name MMS13THF10 H+ 179keVcps
Index 11
RenderingHints
AxisLabel 200.000
Element
Name MMS13THF11 H+ 203keVcps
Index 12
RenderingHints
AxisLabel 200.000
Element
Name MMS13THF12 H+ 231keVcps
Index 13
RenderingHints
AxisLabel 200.000
Element
Name MMS13THF13 H+ 262keVcps
Index 14
RenderingHints
AxisLabel 300.000
Element
Name MMS13THF14 H+ 299keVcps
Index 15
RenderingHints
AxisLabel 300.000
Element
Name MMS13THF15 H+ 340keVcps
Index 16
RenderingHints
AxisLabel 300.000
Element
Name MMS13THF16 H+ 387keVcps
Index 17
RenderingHints
AxisLabel

400.000

Element**Name**

MMS13THF17 H+ 441keVcps

Index

18

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS13THF18 H+ 502keVcps

Index

19

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS13THF19 H+ 571keVcps

Index

20

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS13THF20 H+ 650keVcps

Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS13THF21 H+ 740keVcps

Index

22

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS13THF22 H+ 842keVcps

Index

23

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS13THF23 H+ 957keVcps

Index

24

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS13THF24 H+ 3273keVcps

Index

25

RenderingHints**AxisLabel**

3000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Proton

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #23

Name

Telescope 4 Proton Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_proton_P3_cps_t4

Description

Telescope 4 Proton Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

25

Element**Name**

MMS14THF00 H+ 50keVcps

Index

1

RenderingHints**AxisLabel**

50.0000

Element**Name**

MMS14THF01 H+ 57keVcps

Index

2

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS14THF02 H+ 64keVcps

Index

3

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS14THF03 H+ 73keVcps

Index

4

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS14THF04 H+ 83keVcps

Index

5

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS14THF05 H+ 94keVcps

Index

6

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS14THF06 H+ 107keVcps

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF07 H+ 122keVcps

Index

8

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF08 H+ 138keVcps

Index

9

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF09 H+ 157keVcps

Index

10

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF10 H+ 179keVcps

Index

11

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF11 H+ 203keVcps

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF12 H+ 231keVcps
Index
13
RenderingHints
AxisLabel
200.000
Element
Name
MMS14THF13 H+ 262keVcps
Index
14
RenderingHints
AxisLabel
300.000
Element
Name
MMS14THF14 H+ 299keVcps
Index
15
RenderingHints
AxisLabel
300.000
Element
Name
MMS14THF15 H+ 340keVcps
Index
16
RenderingHints
AxisLabel
300.000
Element
Name
MMS14THF16 H+ 387keVcps
Index
17
RenderingHints
AxisLabel
400.000
Element
Name
MMS14THF17 H+ 441keVcps
Index
18
RenderingHints
AxisLabel
400.000
Element
Name
MMS14THF18 H+ 502keVcps
Index
19
RenderingHints
AxisLabel
500.000
Element
Name
MMS14THF19 H+ 571keVcps
Index
20
RenderingHints
AxisLabel
600.000
Element
Name
MMS14THF20 H+ 650keVcps
Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS14THF21 H+ 740keVcps

Index

22

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS14THF22 H+ 842keVcps

Index

23

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS14THF23 H+ 957keVcps

Index

24

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS14THF24 H+ 3273keVcps

Index

25

RenderingHints**AxisLabel**

3000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Proton

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #24**Name**

Telescope 5 Proton Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_proton_P3_cps_t5

Description

Telescope 5 Proton Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

25

Element**Name**

MMS15THF00 H+ 50keVcps

Index

1

RenderingHints**AxisLabel**

50.0000

Element**Name**

MMS15THF01 H+ 57keVcps

Index

2

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS15THF02 H+ 64keVcps

Index

3

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS15THF03 H+ 73keVcps

Index

4

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS15THF04 H+ 83keVcps

Index

5

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS15THF05 H+ 94keVcps

Index

6

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS15THF06 H+ 107keVcps

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS15THF07 H+ 122keVcps

Index

8

RenderingHints
AxisLabel 100.000
Element
Name MMS15THF08 H+ 138keVcps
Index 9
RenderingHints
AxisLabel 100.000
Element
Name MMS15THF09 H+ 157keVcps
Index 10
RenderingHints
AxisLabel 200.000
Element
Name MMS15THF10 H+ 179keVcps
Index 11
RenderingHints
AxisLabel 200.000
Element
Name MMS15THF11 H+ 203keVcps
Index 12
RenderingHints
AxisLabel 200.000
Element
Name MMS15THF12 H+ 231keVcps
Index 13
RenderingHints
AxisLabel 200.000
Element
Name MMS15THF13 H+ 262keVcps
Index 14
RenderingHints
AxisLabel 300.000
Element
Name MMS15THF14 H+ 299keVcps
Index 15
RenderingHints
AxisLabel 300.000
Element
Name MMS15THF15 H+ 340keVcps
Index 16
RenderingHints
AxisLabel

300.000

Element**Name**

MMS15THF16 H+ 387keVcps

Index

17

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS15THF17 H+ 441keVcps

Index

18

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS15THF18 H+ 502keVcps

Index

19

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS15THF19 H+ 571keVcps

Index

20

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS15THF20 H+ 650keVcps

Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS15THF21 H+ 740keVcps

Index

22

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS15THF22 H+ 842keVcps

Index

23

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS15THF23 H+ 957keVcps

Index

24

RenderingHints**AxisLabel**

1000.00

Element

Name	MMS15THF24 H+ 3273keVcps
Index	25
RenderingHints	
AxisLabel	3000.00
ValidMin	0.0
ValidMax	1.79769e+308
FillValue	-1.0e+31
Particle	
ParticleType	Proton
Qualifier	Differential
ParticleQuantity	CountRate

Parameter #25

Name	Telescope 0 Proton Intensity (Flux)
Set	Time series defined by using: EPOCH
ParameterKey	mms1_epd_eis_brst_extof_proton_P3_flux_t0
Description	Telescope 0 Proton Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data
Cadence	PT0.605S
Units	(cm ² s sr keV) ⁻¹
UnitsConversion	6.24181e15>(m ² s sr J) ⁻¹
RenderingHints	
DisplayType	Spectrogram
ValueFormat	g22.8
Structure	
Size	25
Element	
Name	MMS10THF00 H+ 50keVintensity
Index	1
RenderingHints	
AxisLabel	50.0000
Element	
Name	MMS10THF01 H+ 57keVintensity
Index	2
RenderingHints	
AxisLabel	60.0000
Element	
Name	MMS10THF02 H+ 64keVintensity
Index	3
RenderingHints	

AxisLabel
60.0000
Element
Name
MMS10THF03 H+ 73keVintensity
Index
4
RenderingHints
AxisLabel
70.0000
Element
Name
MMS10THF04 H+ 83keVintensity
Index
5
RenderingHints
AxisLabel
80.0000
Element
Name
MMS10THF05 H+ 94keVintensity
Index
6
RenderingHints
AxisLabel
90.0000
Element
Name
MMS10THF06 H+ 107keVintensity
Index
7
RenderingHints
AxisLabel
100.000
Element
Name
MMS10THF07 H+ 122keVintensity
Index
8
RenderingHints
AxisLabel
100.000
Element
Name
MMS10THF08 H+ 138keVintensity
Index
9
RenderingHints
AxisLabel
100.000
Element
Name
MMS10THF09 H+ 157keVintensity
Index
10
RenderingHints
AxisLabel
200.000
Element
Name
MMS10THF10 H+ 179keVintensity
Index
11
RenderingHints
AxisLabel
200.000

Element**Name**

MMS10THF11 H+ 203keVintensity

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS10THF12 H+ 231keVintensity

Index

13

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS10THF13 H+ 262keVintensity

Index

14

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS10THF14 H+ 299keVintensity

Index

15

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS10THF15 H+ 340keVintensity

Index

16

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS10THF16 H+ 387keVintensity

Index

17

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS10THF17 H+ 441keVintensity

Index

18

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS10THF18 H+ 502keVintensity

Index

19

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS10THF19 H+ 571keVintensity

Index

20

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS10THF20 H+ 650keVintensity

Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS10THF21 H+ 740keVintensity

Index

22

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS10THF22 H+ 842keVintensity

Index

23

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS10THF23 H+ 957keVintensity

Index

24

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS10THF24 H+ 3273keVintensity

Index

25

RenderingHints**AxisLabel**

3000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Proton

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #26**Name**

Telescope 0 Proton Incident Energy

ParameterKey

mms1_epd_eis_brst_extof_proton_t0_energy

Description

Telescope 0 Proton Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

46.69

ScaleMax

10489.9

Structure**Size**

25

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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element

Name	Element 24
Index	24
Element	
Name	Element 25
Index	25
ValidMin	46.69
ValidMax	10489.9
FillValue	-1.0e+38
Support	
SupportQuantity	Other

Parameter #27

Name	Telescope 0 Proton Energy Bin Lower Width
ParameterKey	mms1_epd_eis_brst_extof_proton_t0_energy_dminus
Description	Telescope 0 Proton Energy Bin Lower Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExtOF) Burst Data
Cadence	PT0.605S
Units	keV
UnitsConversion	1.602e-22>J
RenderingHints	
ValueFormat	g6.1
ScaleMin	46.69
ScaleMax	10489.9
Structure	
Size	25
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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

Element**Name**

Element 25

Index

25

ValidMin

0.0

ValidMax

10489.9

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #28

Name

Telescope 0 Proton Energy Bin Higher Width

ParameterKey

mms1_epd_eis_brst_extof_proton_t0_energy_dplus

Description

Telescope 0 Proton Energy Bin Higher Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

46.69

ScaleMax

10489.9

Structure

Size	25
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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

Element**Name**

Element 25

Index

25

ValidMin

0.0

ValidMax

10489.9

FillValue

-1.0e+38

Support

SupportQuantity

Other

Parameter #29

Name

Telescope 1 Proton Intensity (Flux)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_proton_P3_flux_t1

Description

Telescope 1 Proton Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

25

Element**Name**

MMS11THF00 H+ 50keVintensity

Index

1

RenderingHints**AxisLabel**

50.0000

Element**Name**

MMS11THF01 H+ 57keVintensity

Index

2

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS11THF02 H+ 64keVintensity

Index

3

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS11THF03 H+ 73keVintensity

Index

4

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS11THF04 H+ 83keVintensity

Index

5

RenderingHints**AxisLabel**

80.0000

Element
Name MMS11THF05 H+ 94keVintensity
Index 6
RenderingHints AxisLabel 90.0000
Element
Name MMS11THF06 H+ 107keVintensity
Index 7
RenderingHints AxisLabel 100.000
Element
Name MMS11THF07 H+ 122keVintensity
Index 8
RenderingHints AxisLabel 100.000
Element
Name MMS11THF08 H+ 138keVintensity
Index 9
RenderingHints AxisLabel 100.000
Element
Name MMS11THF09 H+ 157keVintensity
Index 10
RenderingHints AxisLabel 200.000
Element
Name MMS11THF10 H+ 179keVintensity
Index 11
RenderingHints AxisLabel 200.000
Element
Name MMS11THF11 H+ 203keVintensity
Index 12
RenderingHints AxisLabel 200.000
Element
Name MMS11THF12 H+ 231keVintensity
Index 13
RenderingHints AxisLabel 200.000
Element
Name

MMS11THF13 H+ 262keVintensity	
Index	14
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS11THF14 H+ 299keVintensity
Index	15
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS11THF15 H+ 340keVintensity
Index	16
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS11THF16 H+ 387keVintensity
Index	17
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS11THF17 H+ 441keVintensity
Index	18
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS11THF18 H+ 502keVintensity
Index	19
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS11THF19 H+ 571keVintensity
Index	20
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS11THF20 H+ 650keVintensity
Index	21
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS11THF21 H+ 740keVintensity
Index	

22

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS11THF22 H+ 842keVintensity

Index

23

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS11THF23 H+ 957keVintensity

Index

24

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS11THF24 H+ 3273keVintensity

Index

25

RenderingHints**AxisLabel**

3000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Proton

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #30

Name

Telescope 1 Proton Incident Energy

ParameterKey

mms1_epd_eis_brst_extof_proton_t1_energy

Description

Telescope 1 Proton Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

46.69

ScaleMax

10489.9

Structure**Size**

25

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
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Name
Element 6
Index
6
Element
Name
Element 7
Index
7
Element
Name
Element 8
Index
8
Element
Name
Element 9
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9
Element
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Element 10
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Element
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Element 11
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Element 12
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Element 13
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Name
Element 14

Index	14
Element	
Name	Element 15
Index	15
Element	
Name	Element 16
Index	16
Element	
Name	Element 17
Index	17
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Name	Element 18
Index	18
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Name	Element 19
Index	19
Element	
Name	Element 20
Index	20
Element	
Name	Element 21
Index	21
Element	
Name	Element 22
Index	22
Element	
Name	Element 23
Index	23
Element	
Name	Element 24
Index	24
Element	
Name	Element 25
Index	25
ValidMin	46.69
ValidMax	10489.9
FillValue	-1.0e+38
Support	
SupportQuantity	Other

Parameter #31

Name

Telescope 1 Proton Energy Bin Lower Width

ParameterKey

mms1_epd_eis_brst_extof_proton_t1_energy_dminus

Description

Telescope 1 Proton Energy Bin Lower Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

46.69

ScaleMax

10489.9

Structure**Size**

25

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
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Name
Element 10
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Element 11
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Element 12
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Element 13
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Element 14
Index
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Element
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Element 15
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Element
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Element 16
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16
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Element 17
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Element 18
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Element 19
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Element 20
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Name
Element 21
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21
Element
Name
Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

Element**Name**

Element 25

Index

25

ValidMin

0.0

ValidMax

10489.9

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #32

Name

Telescope 1 Proton Energy Bin Higher Width

ParameterKey

mms1_epd_eis_brst_extof_proton_t1_energy_dplus

Description

Telescope 1 Proton Energy Bin Higher Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

46.69

ScaleMax

10489.9

Structure**Size**

25

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
Element	
Name	Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

Element**Name**

Element 25

Index

25

ValidMin

0.0

ValidMax

10489.9

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #33

Name

Telescope 2 Proton Intensity (Flux)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_proton_P3_flux_t2

Description

Telescope 2 Proton Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (EXTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion**

6.24181e15>(m^2 s sr J)^-1

RenderingHints**DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

25

Element**Name**

MMS12THF00 H+ 50keVintensity

Index

1

RenderingHints**AxisLabel**

50.0000

Element**Name**

MMS12THF01 H+ 57keVintensity

Index

2

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS12THF02 H+ 64keVintensity

Index

3

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS12THF03 H+ 73keVintensity

Index

4

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS12THF04 H+ 83keVintensity

Index

5

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS12THF05 H+ 94keVintensity

Index

6

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS12THF06 H+ 107keVintensity

Index

7

RenderingHints**AxisLabel**

100.000

Element

Name	MMS12THF07 H+ 122keVintensity
Index	8
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS12THF08 H+ 138keVintensity
Index	9
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS12THF09 H+ 157keVintensity
Index	10
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF10 H+ 179keVintensity
Index	11
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF11 H+ 203keVintensity
Index	12
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF12 H+ 231keVintensity
Index	13
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF13 H+ 262keVintensity
Index	14
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF14 H+ 299keVintensity
Index	15
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF15 H+ 340keVintensity

Index	16
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF16 H+ 387keVintensity
Index	17
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS12THF17 H+ 441keVintensity
Index	18
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS12THF18 H+ 502keVintensity
Index	19
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS12THF19 H+ 571keVintensity
Index	20
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS12THF20 H+ 650keVintensity
Index	21
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS12THF21 H+ 740keVintensity
Index	22
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS12THF22 H+ 842keVintensity
Index	23
RenderingHints	
AxisLabel	800.000
Element	
Name	MMS12THF23 H+ 957keVintensity
Index	24

RenderingHints
AxisLabel
1000.00
Element
Name
MMS12THF24 H+ 3273keVintensity
Index
25
RenderingHints
AxisLabel
3000.00
ValidMin
0.0
ValidMax
1.79769e+308
FillValue
-1.0e+31
Particle
ParticleType
Proton
Qualifier
Differential
ParticleQuantity
EnergyFlux

Parameter #34

Name
Telescope 2 Proton Incident Energy
ParameterKey
mms1_epd_eis_brst_extof_proton_t2_energy
Description
Telescope 2 Proton Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data
Cadence
PT0.605S
Units
keV
UnitsConversion
1.602e-22>J
RenderingHints
ValueFormat
g6.1
ScaleMin
46.69
ScaleMax
10489.9
Structure
Size
25
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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

Element**Name**

Element 25

Index

25

ValidMin

46.69

ValidMax

10489.9

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #35

Name

Telescope 2 Proton Energy Bin Lower Width

ParameterKey

mms1_epd_eis_brst_extof_proton_t2_energy_dminus

DescriptionTelescope 2 Proton Energy Bin Lower Width, E_{mid} minus E_{low}, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data**Cadence**

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

46.69

ScaleMax

10489.9

Structure**Size**

25

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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

Element**Name**

Element 25

Index

25

ValidMin

0.0

ValidMax
10489.9

FillValue
-1.0e+38

Support

SupportQuantity
Other

Parameter #36

Name
Telescope 2 Proton Energy Bin Higher Width

ParameterKey
mms1_epd_eis_brst_extof_proton_t2_energy_dplus

Description
Telescope 2 Proton Energy Bin Higher Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

Units
keV

UnitsConversion
1.602e-22>J

RenderingHints

ValueFormat
g6.1

ScaleMin
46.69

ScaleMax
10489.9

Structure

Size
25

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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element

Name

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

Element**Name**

Element 25

Index

25

ValidMin

0.0

ValidMax

10489.9

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #37

Name

Telescope 3 Proton Intensity (Flux)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_proton_P3_flux_t3

Description

Telescope 3 Proton Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

25

Element**Name**

MMS13THF00 H+ 50keVintensity

Index

1

RenderingHints**AxisLabel**

50.0000

Element

Name
MMS13THF01 H+ 57keVintensity

Index
2

RenderingHints
AxisLabel
60.0000

Element

Name
MMS13THF02 H+ 64keVintensity

Index
3

RenderingHints
AxisLabel
60.0000

Element

Name
MMS13THF03 H+ 73keVintensity

Index
4

RenderingHints
AxisLabel
70.0000

Element

Name
MMS13THF04 H+ 83keVintensity

Index
5

RenderingHints
AxisLabel
80.0000

Element

Name
MMS13THF05 H+ 94keVintensity

Index
6

RenderingHints
AxisLabel
90.0000

Element

Name
MMS13THF06 H+ 107keVintensity

Index
7

RenderingHints
AxisLabel
100.000

Element

Name
MMS13THF07 H+ 122keVintensity

Index
8

RenderingHints
AxisLabel
100.000

Element

Name
MMS13THF08 H+ 138keVintensity

Index
9

RenderingHints
AxisLabel
100.000

Element

Name
MMS13THF09 H+ 157keVintensity

Index	10
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS13THF10 H+ 179keVintensity
Index	11
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS13THF11 H+ 203keVintensity
Index	12
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS13THF12 H+ 231keVintensity
Index	13
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS13THF13 H+ 262keVintensity
Index	14
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS13THF14 H+ 299keVintensity
Index	15
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS13THF15 H+ 340keVintensity
Index	16
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS13THF16 H+ 387keVintensity
Index	17
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS13THF17 H+ 441keVintensity
Index	18

RenderingHints
AxisLabel 400.000
Element
Name MMS13THF18 H+ 502keVintensity
Index 19
RenderingHints
AxisLabel 500.000
Element
Name MMS13THF19 H+ 571keVintensity
Index 20
RenderingHints
AxisLabel 600.000
Element
Name MMS13THF20 H+ 650keVintensity
Index 21
RenderingHints
AxisLabel 700.000
Element
Name MMS13THF21 H+ 740keVintensity
Index 22
RenderingHints
AxisLabel 700.000
Element
Name MMS13THF22 H+ 842keVintensity
Index 23
RenderingHints
AxisLabel 800.000
Element
Name MMS13THF23 H+ 957keVintensity
Index 24
RenderingHints
AxisLabel 1000.00
Element
Name MMS13THF24 H+ 3273keVintensity
Index 25
RenderingHints
AxisLabel 3000.00
ValidMin 0.0
ValidMax 1.79769e+308
FillValue -1.0e+31
Particle

ParticleType

Proton

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #38

Name

Telescope 3 Proton Incident Energy

ParameterKey

mms1_epd_eis_brst_extof_proton_t3_energy

Description

Telescope 3 Proton Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

46.69

ScaleMax

10489.9

Structure**Size**

25

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
Element
Name
Element 17
Index
17
Element
Name
Element 18
Index
18
Element
Name
Element 19
Index
19
Element
Name
Element 20
Index
20
Element
Name
Element 21

Index	21
Element	
Name	Element 22
Index	22
Element	
Name	Element 23
Index	23
Element	
Name	Element 24
Index	24
Element	
Name	Element 25
Index	25
ValidMin	46.69
ValidMax	10489.9
FillValue	-1.0e+38
Support	
SupportQuantity	Other

Parameter #39

Name	Telescope 3 Proton Energy Bin Lower Width
ParameterKey	mms1_epd_eis_brst_extof_proton_t3_energy_dminus
Description	Telescope 3 Proton Energy Bin Lower Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data
Cadence	PT0.605S
Units	keV
UnitsConversion	1.602e-22>J
RenderingHints	
ValueFormat	g6.1
ScaleMin	46.69
ScaleMax	10489.9
Structure	
Size	25
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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

Element**Name**

Element 25

Index

25

ValidMin

0.0

ValidMax

10489.9

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #40

Name

Telescope 3 Proton Energy Bin Higher Width

ParameterKey

mms1_epd_eis_brst_extof_proton_t3_energy_dplus

Description

Telescope 3 Proton Energy Bin Higher Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

46.69

ScaleMax

10489.9

Structure**Size**

25

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
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Name Element 16
Index 16
Element
Name Element 17
Index 17
Element
Name Element 18
Index 18
Element
Name Element 19
Index 19
Element
Name Element 20
Index 20
Element
Name Element 21
Index 21
Element
Name Element 22
Index 22
Element
Name Element 23
Index 23
Element
Name Element 24
Index 24

Element**Name**

Element 25

Index

25

ValidMin

0.0

ValidMax

10489.9

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #41

Name

Telescope 4 Proton Intensity (Flux)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_proton_P3_flux_t4

Description

Telescope 4 Proton Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

25

Element**Name**

MMS14THF00 H+ 50keVintensity

Index

1

RenderingHints**AxisLabel**

50.0000

Element**Name**

MMS14THF01 H+ 57keVintensity

Index

2

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS14THF02 H+ 64keVintensity

Index

3

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS14THF03 H+ 73keVintensity

Index

4

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS14THF04 H+ 83keVintensity

Index

5

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS14THF05 H+ 94keVintensity

Index

6

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS14THF06 H+ 107keVintensity

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF07 H+ 122keVintensity

Index

8

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF08 H+ 138keVintensity

Index

9

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF09 H+ 157keVintensity

Index

10

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF10 H+ 179keVintensity

Index

11

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF11 H+ 203keVintensity

Index

12

RenderingHints

AxisLabel
200.000
Element
Name
MMS14THF12 H+ 231keVintensity
Index
13
RenderingHints
AxisLabel
200.000
Element
Name
MMS14THF13 H+ 262keVintensity
Index
14
RenderingHints
AxisLabel
300.000
Element
Name
MMS14THF14 H+ 299keVintensity
Index
15
RenderingHints
AxisLabel
300.000
Element
Name
MMS14THF15 H+ 340keVintensity
Index
16
RenderingHints
AxisLabel
300.000
Element
Name
MMS14THF16 H+ 387keVintensity
Index
17
RenderingHints
AxisLabel
400.000
Element
Name
MMS14THF17 H+ 441keVintensity
Index
18
RenderingHints
AxisLabel
400.000
Element
Name
MMS14THF18 H+ 502keVintensity
Index
19
RenderingHints
AxisLabel
500.000
Element
Name
MMS14THF19 H+ 571keVintensity
Index
20
RenderingHints
AxisLabel
600.000

Element**Name**

MMS14THF20 H+ 650keVintensity

Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS14THF21 H+ 740keVintensity

Index

22

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS14THF22 H+ 842keVintensity

Index

23

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS14THF23 H+ 957keVintensity

Index

24

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS14THF24 H+ 3273keVintensity

Index

25

RenderingHints**AxisLabel**

3000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Proton

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #42

Name

Telescope 4 Proton Incident Energy

ParameterKey

mms1_epd_eis_brst_extof_proton_t4_energy

Description

Telescope 4 Proton Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

46.69

ScaleMax

10489.9

Structure**Size**

25

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

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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
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Name	Element 13
Index	13
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Name	Element 14
Index	14
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Name	Element 15
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Name	Element 16
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Name	Element 17
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Name	Element 18
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Name	Element 19
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Name	Element 20
Index	20
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Name	Element 21
Index	21
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Name	Element 22
Index	22
Element	
Name	Element 23
Index	23
Element	
Name	Element 24
Index	24
Element	
Name	Element 25

Index
25

ValidMin
46.69

ValidMax
10489.9

FillValue
-1.0e+38

Support

SupportQuantity
Other

Parameter #43

Name
Telescope 4 Proton Energy Bin Lower Width

ParameterKey
mms1_epd_eis_brst_extof_proton_t4_energy_dminus

Description
Telescope 4 Proton Energy Bin Lower Width, E_{mid} minus E_{low}, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

Units
keV

UnitsConversion
1.602e-22>J

RenderingHints

ValueFormat
g6.1

ScaleMin
46.69

ScaleMax
10489.9

Structure

Size
25

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

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Element
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Element 10
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Element 11
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Name
Element 22

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22

Element

Name
Element 23

Index
23

Element

Name
Element 24

Index
24

Element

Name
Element 25

Index
25

ValidMin
0.0

ValidMax
10489.9

FillValue
-1.0e+38

Support

SupportQuantity
Other

Parameter #44

Name

Telescope 4 Proton Energy Bin Higher Width

ParameterKey

mms1_epd_eis_brst_extof_proton_t4_energy_dplus

Description

Telescope 4 Proton Energy Bin Higher Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints

ValueFormat
g6.1

ScaleMin
46.69

ScaleMax
10489.9

Structure

Size
25

Element

Name
Element 1

Index
1

Element

Name	Element 2
Index	2
Element	
Name	Element 3
Index	3
Element	
Name	Element 4
Index	4
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Name	Element 5
Index	5
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Name	Element 6
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Name	Element 7
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Name	Element 8
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Name	Element 9
Index	9
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Name	Element 10
Index	10
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Name	Element 11
Index	11
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Name	Element 12
Index	12
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Name	Element 13
Index	13
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Name	Element 14
Index	14
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Name	Element 15

Index
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Element

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Name
Element 22

Index
22

Element

Name
Element 23

Index
23

Element

Name
Element 24

Index
24

Element

Name
Element 25

Index
25

ValidMin
0.0

ValidMax
10489.9

FillValue
-1.0e+38

Support

SupportQuantity
Other

Parameter #45

Name
Telescope 5 Proton Intensity (Flux)

Set
Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_proton_P3_flux_t5

Description

Telescope 5 Proton Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

25

Element**Name**

MMS15THF00 H+ 50keVintensity

Index

1

RenderingHints**AxisLabel**

50.0000

Element**Name**

MMS15THF01 H+ 57keVintensity

Index

2

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS15THF02 H+ 64keVintensity

Index

3

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS15THF03 H+ 73keVintensity

Index

4

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS15THF04 H+ 83keVintensity

Index

5

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS15THF05 H+ 94keVintensity

Index

6

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS15THF06 H+ 107keVintensity

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS15THF07 H+ 122keVintensity

Index

8

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS15THF08 H+ 138keVintensity

Index

9

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS15THF09 H+ 157keVintensity

Index

10

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF10 H+ 179keVintensity

Index

11

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF11 H+ 203keVintensity

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF12 H+ 231keVintensity

Index

13

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF13 H+ 262keVintensity

Index

14

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS15THF14 H+ 299keVintensity	
Index	15
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS15THF15 H+ 340keVintensity
Index	16
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS15THF16 H+ 387keVintensity
Index	17
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS15THF17 H+ 441keVintensity
Index	18
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS15THF18 H+ 502keVintensity
Index	19
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS15THF19 H+ 571keVintensity
Index	20
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS15THF20 H+ 650keVintensity
Index	21
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS15THF21 H+ 740keVintensity
Index	22
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS15THF22 H+ 842keVintensity
Index	

23

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS15THF23 H+ 957keVintensity

Index

24

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS15THF24 H+ 3273keVintensity

Index

25

RenderingHints**AxisLabel**

3000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Proton

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #46

Name

Telescope 5 Proton Incident Energy

ParameterKey

mms1_epd_eis_brst_extof_proton_t5_energy

Description

Telescope 5 Proton Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

46.69

ScaleMax

10489.9

Structure**Size**

25

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

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Element**Name**

Element 11

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Element**Name**

Element 12

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Element**Name**

Element 13

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Element**Name**

Element 14

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Element**Name**

Element 15

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Element 16

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Element**Name**

Element 17

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Element**Name**

Element 18

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Element**Name**

Element 19

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19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

Element**Name**

Element 25

Index

25

ValidMin

46.69

ValidMax

10489.9

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #47

Name

Telescope 5 Proton Energy Bin Lower Width

ParameterKey

mms1_epd_eis_brst_extof_proton_t5_energy_dminus

DescriptionTelescope 5 Proton Energy Bin Lower Width, E_{mid} minus E_{low}, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

46.69

ScaleMax

10489.9

Structure**Size**

25

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

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Element**Name**

Element 6

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Element**Name**

Element 7

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Element**Name**

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Element**Name**

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Element**Name**

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Name	Element 11
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Name	Element 21
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Name	Element 22
Index	22
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Name	Element 23
Index	23
Element	
Name	Element 24

Index

24

Element**Name**

Element 25

Index

25

ValidMin

0.0

ValidMax

10489.9

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #48

Name

Telescope 5 Proton Energy Bin Higher Width

ParameterKey

mms1_epd_eis_brst_extof_proton_t5_energy_dplus

Description

Telescope 5 Proton Energy Bin Higher Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

46.69

ScaleMax

10489.9

Structure**Size**

25

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
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Name	Element 8
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Name	Element 9
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Name	Element 15
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Name	Element 16
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Name	Element 17
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Name	Element 18
Index	18
Element	
Name	Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

Element**Name**

Element 25

Index

25

ValidMin

0.0

ValidMax

10489.9

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #49

Name

Telescope 0 Alpha Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_alpha_P3_counts_t0

Description

Telescope 0 Alpha (Charge State unmeasured) Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExtTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

23

Element**Name**

MMS10THF25 He++ 64keVcounts

Index

1

RenderingHints
AxisLabel 60.0000
Element
Name MMS10THF26 He++ 73keVcounts
Index 2
RenderingHints
AxisLabel 70.0000
Element
Name MMS10THF27 He++ 83keVcounts
Index 3
RenderingHints
AxisLabel 80.0000
Element
Name MMS10THF28 He++ 93keVcounts
Index 4
RenderingHints
AxisLabel 90.0000
Element
Name MMS10THF29 He++ 105keVcounts
Index 5
RenderingHints
AxisLabel 100.000
Element
Name MMS10THF30 He++ 118keVcounts
Index 6
RenderingHints
AxisLabel 100.000
Element
Name MMS10THF31 He++ 134keVcounts
Index 7
RenderingHints
AxisLabel 100.000
Element
Name MMS10THF32 He++ 151keVcounts
Index 8
RenderingHints
AxisLabel 200.000
Element
Name MMS10THF33 He++ 171keVcounts
Index 9
RenderingHints
AxisLabel

200.000

Element**Name**

MMS10THF34 He++ 193keVcounts

Index

10

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS10THF35 He++ 218keVcounts

Index

11

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS10THF36 He++ 246keVcounts

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS10THF37 He++ 278keVcounts

Index

13

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS10THF38 He++ 314keVcounts

Index

14

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS10THF39 He++ 355keVcounts

Index

15

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS10THF40 He++ 401keVcounts

Index

16

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS10THF41 He++ 453keVcounts

Index

17

RenderingHints**AxisLabel**

500.000

Element

Name
MMS10THF42 He++ 511keVcounts

Index
18

RenderingHints
AxisLabel
500.000

Element

Name
MMS10THF43 He++ 577keVcounts

Index
19

RenderingHints
AxisLabel
600.000

Element

Name
MMS10THF44 He++ 652keVcounts

Index
20

RenderingHints
AxisLabel
700.000

Element

Name
MMS10THF45 He++ 737keVcounts

Index
21

RenderingHints
AxisLabel
700.000

Element

Name
MMS10THF46 He++ 833keVcounts

Index
22

RenderingHints
AxisLabel
800.000

Element

Name
MMS10THF47 He++ 941keVcounts

Index
23

RenderingHints
AxisLabel
900.000

ValidMin
0.0

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
AlphaParticle

Qualifier
Differential

ParticleQuantity
Counts

Parameter #50

Name
Telescope 1 Alpha Counts

Set
Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_alpha_P3_counts_t1

Description

Telescope 1 Alpha (Charge State unmeasured) Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

23

Element**Name**

MMS11THF25 He++ 64keVcounts

Index

1

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS11THF26 He++ 73keVcounts

Index

2

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS11THF27 He++ 83keVcounts

Index

3

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS11THF28 He++ 93keVcounts

Index

4

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS11THF29 He++ 105keVcounts

Index

5

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS11THF30 He++ 118keVcounts

Index

6

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS11THF31 He++ 134keVcounts

Index
7
RenderingHints
AxisLabel
100.000
Element
Name
MMS11THF32 He++ 151keVcounts
Index
8
RenderingHints
AxisLabel
200.000
Element
Name
MMS11THF33 He++ 171keVcounts
Index
9
RenderingHints
AxisLabel
200.000
Element
Name
MMS11THF34 He++ 193keVcounts
Index
10
RenderingHints
AxisLabel
200.000
Element
Name
MMS11THF35 He++ 218keVcounts
Index
11
RenderingHints
AxisLabel
200.000
Element
Name
MMS11THF36 He++ 246keVcounts
Index
12
RenderingHints
AxisLabel
200.000
Element
Name
MMS11THF37 He++ 278keVcounts
Index
13
RenderingHints
AxisLabel
300.000
Element
Name
MMS11THF38 He++ 314keVcounts
Index
14
RenderingHints
AxisLabel
300.000
Element
Name
MMS11THF39 He++ 355keVcounts
Index
15

RenderingHints
AxisLabel 400.000
Element
Name MMS11THF40 He++ 401keVcounts
Index 16
RenderingHints
AxisLabel 400.000
Element
Name MMS11THF41 He++ 453keVcounts
Index 17
RenderingHints
AxisLabel 500.000
Element
Name MMS11THF42 He++ 511keVcounts
Index 18
RenderingHints
AxisLabel 500.000
Element
Name MMS11THF43 He++ 577keVcounts
Index 19
RenderingHints
AxisLabel 600.000
Element
Name MMS11THF44 He++ 652keVcounts
Index 20
RenderingHints
AxisLabel 700.000
Element
Name MMS11THF45 He++ 737keVcounts
Index 21
RenderingHints
AxisLabel 700.000
Element
Name MMS11THF46 He++ 833keVcounts
Index 22
RenderingHints
AxisLabel 800.000
Element
Name MMS11THF47 He++ 941keVcounts
Index 23
RenderingHints
AxisLabel

900.000

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

AlphaParticle

Qualifier

Differential

ParticleQuantity

Counts

Parameter #51

Name

Telescope 2 Alpha Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_alpha_P3_counts_t2

Description

Telescope 2 Alpha (Charge State unmeasured) Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

23

Element**Name**

MMS12THF25 He++ 64keVcounts

Index

1

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS12THF26 He++ 73keVcounts

Index

2

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS12THF27 He++ 83keVcounts

Index

3

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS12THF28 He++ 93keVcounts

Index

4

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS12THF29 He++ 105keVcounts

Index

5

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS12THF30 He++ 118keVcounts

Index

6

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS12THF31 He++ 134keVcounts

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS12THF32 He++ 151keVcounts

Index

8

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS12THF33 He++ 171keVcounts

Index

9

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS12THF34 He++ 193keVcounts

Index

10

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS12THF35 He++ 218keVcounts

Index

11

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS12THF36 He++ 246keVcounts

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS12THF37 He++ 278keVcounts	
Index	13
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF38 He++ 314keVcounts
Index	14
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF39 He++ 355keVcounts
Index	15
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS12THF40 He++ 401keVcounts
Index	16
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS12THF41 He++ 453keVcounts
Index	17
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS12THF42 He++ 511keVcounts
Index	18
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS12THF43 He++ 577keVcounts
Index	19
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS12THF44 He++ 652keVcounts
Index	20
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS12THF45 He++ 737keVcounts
Index	

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS12THF46 He++ 833keVcounts

Index

22

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS12THF47 He++ 941keVcounts

Index

23

RenderingHints**AxisLabel**

900.000

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

AlphaParticle

Qualifier

Differential

ParticleQuantity

Counts

Parameter #52

Name

Telescope 3 Alpha Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_alpha_P3_counts_t3

Description

Telescope 3 Alpha (Charge State unmeasured) Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

23

Element**Name**

MMS13THF25 He++ 64keVcounts

Index

1

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS13THF26 He++ 73keVcounts

Index

2

RenderingHints
AxisLabel 70.0000
Element
Name MMS13THF27 He++ 83keVcounts
Index 3
RenderingHints
AxisLabel 80.0000
Element
Name MMS13THF28 He++ 93keVcounts
Index 4
RenderingHints
AxisLabel 90.0000
Element
Name MMS13THF29 He++ 105keVcounts
Index 5
RenderingHints
AxisLabel 100.000
Element
Name MMS13THF30 He++ 118keVcounts
Index 6
RenderingHints
AxisLabel 100.000
Element
Name MMS13THF31 He++ 134keVcounts
Index 7
RenderingHints
AxisLabel 100.000
Element
Name MMS13THF32 He++ 151keVcounts
Index 8
RenderingHints
AxisLabel 200.000
Element
Name MMS13THF33 He++ 171keVcounts
Index 9
RenderingHints
AxisLabel 200.000
Element
Name MMS13THF34 He++ 193keVcounts
Index 10
RenderingHints
AxisLabel

200.000

Element**Name**

MMS13THF35 He++ 218keVcounts

Index

11

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF36 He++ 246keVcounts

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF37 He++ 278keVcounts

Index

13

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS13THF38 He++ 314keVcounts

Index

14

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS13THF39 He++ 355keVcounts

Index

15

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS13THF40 He++ 401keVcounts

Index

16

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS13THF41 He++ 453keVcounts

Index

17

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS13THF42 He++ 511keVcounts

Index

18

RenderingHints**AxisLabel**

500.000

Element

Name
MMS13THF43 He++ 577keVcounts

Index
19

RenderingHints
AxisLabel
600.000

Element

Name
MMS13THF44 He++ 652keVcounts

Index
20

RenderingHints
AxisLabel
700.000

Element

Name
MMS13THF45 He++ 737keVcounts

Index
21

RenderingHints
AxisLabel
700.000

Element

Name
MMS13THF46 He++ 833keVcounts

Index
22

RenderingHints
AxisLabel
800.000

Element

Name
MMS13THF47 He++ 941keVcounts

Index
23

RenderingHints
AxisLabel
900.000

ValidMin
0.0

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
AlphaParticle

Qualifier
Differential

ParticleQuantity
Counts

Parameter #53

Name
Telescope 4 Alpha Counts

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_alpha_P3_counts_t4

Description
Telescope 4 Alpha (Charge State unmeasured) Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

RenderingHints

DisplayType

Spectrogram

ValueFormat

g22.8

Structure**Size**

23

Element**Name**

MMS14THF25 He++ 64keVcounts

Index

1

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS14THF26 He++ 73keVcounts

Index

2

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS14THF27 He++ 83keVcounts

Index

3

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS14THF28 He++ 93keVcounts

Index

4

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS14THF29 He++ 105keVcounts

Index

5

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF30 He++ 118keVcounts

Index

6

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF31 He++ 134keVcounts

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF32 He++ 151keVcounts

Index

8

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF33 He++ 171keVcounts

Index

9

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF34 He++ 193keVcounts

Index

10

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF35 He++ 218keVcounts

Index

11

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF36 He++ 246keVcounts

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF37 He++ 278keVcounts

Index

13

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS14THF38 He++ 314keVcounts

Index

14

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS14THF39 He++ 355keVcounts

Index

15

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS14THF40 He++ 401keVcounts

Index

16

RenderingHints

AxisLabel	400.000
Element	
Name	MMS14THF41 He++ 453keVcounts
Index	17
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS14THF42 He++ 511keVcounts
Index	18
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS14THF43 He++ 577keVcounts
Index	19
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS14THF44 He++ 652keVcounts
Index	20
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS14THF45 He++ 737keVcounts
Index	21
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS14THF46 He++ 833keVcounts
Index	22
RenderingHints	
AxisLabel	800.000
Element	
Name	MMS14THF47 He++ 941keVcounts
Index	23
RenderingHints	
AxisLabel	900.000
ValidMin	0.0
ValidMax	1.79769e+308
FillValue	-1.0e+31
Particle	
ParticleType	

AlphaParticle

Qualifier

Differential

ParticleQuantity

Counts

Parameter #54

Name

Telescope 5 Alpha Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_alpha_P3_counts_t5

Description

Telescope 5 Alpha (Charge State unmeasured) Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExtOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

23

Element**Name**

MMS15THF25 He++ 64keVcounts

Index

1

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS15THF26 He++ 73keVcounts

Index

2

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS15THF27 He++ 83keVcounts

Index

3

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS15THF28 He++ 93keVcounts

Index

4

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS15THF29 He++ 105keVcounts

Index

5

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS15THF30 He++ 118keVcounts

Index

6

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS15THF31 He++ 134keVcounts

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS15THF32 He++ 151keVcounts

Index

8

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF33 He++ 171keVcounts

Index

9

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF34 He++ 193keVcounts

Index

10

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF35 He++ 218keVcounts

Index

11

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF36 He++ 246keVcounts

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF37 He++ 278keVcounts

Index

13

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS15THF38 He++ 314keVcounts	
Index	14
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS15THF39 He++ 355keVcounts
Index	15
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS15THF40 He++ 401keVcounts
Index	16
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS15THF41 He++ 453keVcounts
Index	17
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS15THF42 He++ 511keVcounts
Index	18
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS15THF43 He++ 577keVcounts
Index	19
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS15THF44 He++ 652keVcounts
Index	20
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS15THF45 He++ 737keVcounts
Index	21
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS15THF46 He++ 833keVcounts
Index	

22

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS15THF47 He++ 941keVcounts

Index

23

RenderingHints**AxisLabel**

900.000

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

AlphaParticle

Qualifier

Differential

ParticleQuantity

Counts

Parameter #55

Name

Telescope 0 Alpha Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_alpha_P3_cps_t0

Description

Telescope 0 Alpha (Charge State unmeasured) Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

23

Element**Name**

MMS10THF25 He++ 64keVcps

Index

1

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS10THF26 He++ 73keVcps

Index

2

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS10THF27 He++ 83keVcps

Index	3
RenderingHints	
AxisLabel	80.0000
Element	
Name	MMS10THF28 He++ 93keVcps
Index	4
RenderingHints	
AxisLabel	90.0000
Element	
Name	MMS10THF29 He++ 105keVcps
Index	5
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS10THF30 He++ 118keVcps
Index	6
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS10THF31 He++ 134keVcps
Index	7
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS10THF32 He++ 151keVcps
Index	8
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS10THF33 He++ 171keVcps
Index	9
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS10THF34 He++ 193keVcps
Index	10
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS10THF35 He++ 218keVcps
Index	11

RenderingHints
AxisLabel 200.000
Element
Name MMS10THF36 He++ 246keVcps
Index 12
RenderingHints
AxisLabel 200.000
Element
Name MMS10THF37 He++ 278keVcps
Index 13
RenderingHints
AxisLabel 300.000
Element
Name MMS10THF38 He++ 314keVcps
Index 14
RenderingHints
AxisLabel 300.000
Element
Name MMS10THF39 He++ 355keVcps
Index 15
RenderingHints
AxisLabel 400.000
Element
Name MMS10THF40 He++ 401keVcps
Index 16
RenderingHints
AxisLabel 400.000
Element
Name MMS10THF41 He++ 453keVcps
Index 17
RenderingHints
AxisLabel 500.000
Element
Name MMS10THF42 He++ 511keVcps
Index 18
RenderingHints
AxisLabel 500.000
Element
Name MMS10THF43 He++ 577keVcps
Index 19
RenderingHints
AxisLabel

600.000

Element**Name**

MMS10THF44 He++ 652keVcps

Index

20

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS10THF45 He++ 737keVcps

Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS10THF46 He++ 833keVcps

Index

22

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS10THF47 He++ 941keVcps

Index

23

RenderingHints**AxisLabel**

900.000

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

AlphaParticle

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #56**Name**

Telescope 1 Alpha Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_alpha_P3_cps_t1

Description

Telescope 1 Alpha (Charge State unmeasured) Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure

Size	23
Element	
Name	MMS11THF25 He++ 64keVcps
Index	1
RenderingHints	
AxisLabel	60.0000
Element	
Name	MMS11THF26 He++ 73keVcps
Index	2
RenderingHints	
AxisLabel	70.0000
Element	
Name	MMS11THF27 He++ 83keVcps
Index	3
RenderingHints	
AxisLabel	80.0000
Element	
Name	MMS11THF28 He++ 93keVcps
Index	4
RenderingHints	
AxisLabel	90.0000
Element	
Name	MMS11THF29 He++ 105keVcps
Index	5
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS11THF30 He++ 118keVcps
Index	6
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS11THF31 He++ 134keVcps
Index	7
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS11THF32 He++ 151keVcps
Index	8
RenderingHints	
AxisLabel	200.000

Element**Name**

MMS11THF33 He++ 171keVcps

Index

9

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF34 He++ 193keVcps

Index

10

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF35 He++ 218keVcps

Index

11

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF36 He++ 246keVcps

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF37 He++ 278keVcps

Index

13

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS11THF38 He++ 314keVcps

Index

14

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS11THF39 He++ 355keVcps

Index

15

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS11THF40 He++ 401keVcps

Index

16

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS11THF41 He++ 453keVcps
Index
17
RenderingHints
AxisLabel
500.000
Element
Name
MMS11THF42 He++ 511keVcps
Index
18
RenderingHints
AxisLabel
500.000
Element
Name
MMS11THF43 He++ 577keVcps
Index
19
RenderingHints
AxisLabel
600.000
Element
Name
MMS11THF44 He++ 652keVcps
Index
20
RenderingHints
AxisLabel
700.000
Element
Name
MMS11THF45 He++ 737keVcps
Index
21
RenderingHints
AxisLabel
700.000
Element
Name
MMS11THF46 He++ 833keVcps
Index
22
RenderingHints
AxisLabel
800.000
Element
Name
MMS11THF47 He++ 941keVcps
Index
23
RenderingHints
AxisLabel
900.000
ValidMin
0.0
ValidMax
1.79769e+308
FillValue
-1.0e+31
Particle
ParticleType
AlphaParticle
Qualifier
Differential
ParticleQuantity

CountRate

Parameter #57

Name

Telescope 2 Alpha Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_alpha_P3_cps_t2

Description

Telescope 2 Alpha (Charge State unmeasured) Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

23

Element**Name**

MMS12THF25 He++ 64keVcps

Index

1

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS12THF26 He++ 73keVcps

Index

2

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS12THF27 He++ 83keVcps

Index

3

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS12THF28 He++ 93keVcps

Index

4

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS12THF29 He++ 105keVcps

Index

5

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS12THF30 He++ 118keVcps	
Index	6
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS12THF31 He++ 134keVcps
Index	7
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS12THF32 He++ 151keVcps
Index	8
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF33 He++ 171keVcps
Index	9
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF34 He++ 193keVcps
Index	10
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF35 He++ 218keVcps
Index	11
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF36 He++ 246keVcps
Index	12
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF37 He++ 278keVcps
Index	13
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF38 He++ 314keVcps
Index	

14

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS12THF39 He++ 355keVcps

Index

15

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS12THF40 He++ 401keVcps

Index

16

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS12THF41 He++ 453keVcps

Index

17

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS12THF42 He++ 511keVcps

Index

18

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS12THF43 He++ 577keVcps

Index

19

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS12THF44 He++ 652keVcps

Index

20

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS12THF45 He++ 737keVcps

Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS12THF46 He++ 833keVcps

Index

22

RenderingHints

AxisLabel	800.000
Element	
Name	MMS12THF47 He++ 941keVcps
Index	23
RenderingHints	
AxisLabel	900.000
ValidMin	0.0
ValidMax	1.79769e+308
FillValue	-1.0e+31
Particle	
ParticleType	AlphaParticle
Qualifier	Differential
ParticleQuantity	CountRate

Parameter #58

Name	Telescope 3 Alpha Count Rate
Set	Time series defined by using: EPOCH
ParameterKey	mms1_epd_eis_brst_extof_alpha_P3_cps_t3
Description	Telescope 3 Alpha (Charge State unmeasured) Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data
Cadence	PT0.605S
Units	s ⁻¹
RenderingHints	
DisplayType	Spectrogram
ValueFormat	g22.8
Structure	
Size	23
Element	
Name	MMS13THF25 He++ 64keVcps
Index	1
RenderingHints	
AxisLabel	60.0000
Element	
Name	MMS13THF26 He++ 73keVcps
Index	2
RenderingHints	
AxisLabel	70.0000
Element	
Name	MMS13THF27 He++ 83keVcps
Index	3

RenderingHints
AxisLabel 80.0000
Element
Name MMS13THF28 He++ 93keVcps
Index 4
RenderingHints
AxisLabel 90.0000
Element
Name MMS13THF29 He++ 105keVcps
Index 5
RenderingHints
AxisLabel 100.000
Element
Name MMS13THF30 He++ 118keVcps
Index 6
RenderingHints
AxisLabel 100.000
Element
Name MMS13THF31 He++ 134keVcps
Index 7
RenderingHints
AxisLabel 100.000
Element
Name MMS13THF32 He++ 151keVcps
Index 8
RenderingHints
AxisLabel 200.000
Element
Name MMS13THF33 He++ 171keVcps
Index 9
RenderingHints
AxisLabel 200.000
Element
Name MMS13THF34 He++ 193keVcps
Index 10
RenderingHints
AxisLabel 200.000
Element
Name MMS13THF35 He++ 218keVcps
Index 11
RenderingHints
AxisLabel

200.000

Element**Name**

MMS13THF36 He++ 246keVcps

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF37 He++ 278keVcps

Index

13

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS13THF38 He++ 314keVcps

Index

14

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS13THF39 He++ 355keVcps

Index

15

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS13THF40 He++ 401keVcps

Index

16

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS13THF41 He++ 453keVcps

Index

17

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS13THF42 He++ 511keVcps

Index

18

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS13THF43 He++ 577keVcps

Index

19

RenderingHints**AxisLabel**

600.000

Element

Name
MMS13THF44 He++ 652keVcps

Index
20

RenderingHints
AxisLabel
700.000

Element

Name
MMS13THF45 He++ 737keVcps

Index
21

RenderingHints
AxisLabel
700.000

Element

Name
MMS13THF46 He++ 833keVcps

Index
22

RenderingHints
AxisLabel
800.000

Element

Name
MMS13THF47 He++ 941keVcps

Index
23

RenderingHints
AxisLabel
900.000

ValidMin
0.0

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
AlphaParticle

Qualifier
Differential

ParticleQuantity
CountRate

Parameter #59

Name
Telescope 4 Alpha Count Rate

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_alpha_P3_cps_t4

Description
Telescope 4 Alpha (Charge State unmeasured) Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

Units
s⁻¹

RenderingHints
DisplayType
Spectrogram

ValueFormat
g22.8

Structure

Size
23

Element**Name**

MMS14THF25 He++ 64keVcps

Index

1

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS14THF26 He++ 73keVcps

Index

2

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS14THF27 He++ 83keVcps

Index

3

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS14THF28 He++ 93keVcps

Index

4

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS14THF29 He++ 105keVcps

Index

5

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF30 He++ 118keVcps

Index

6

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF31 He++ 134keVcps

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF32 He++ 151keVcps

Index

8

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF33 He++ 171keVcps	
Index	9
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS14THF34 He++ 193keVcps
Index	10
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS14THF35 He++ 218keVcps
Index	11
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS14THF36 He++ 246keVcps
Index	12
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS14THF37 He++ 278keVcps
Index	13
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS14THF38 He++ 314keVcps
Index	14
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS14THF39 He++ 355keVcps
Index	15
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS14THF40 He++ 401keVcps
Index	16
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS14THF41 He++ 453keVcps
Index	

17

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS14THF42 He++ 511keVcps

Index

18

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS14THF43 He++ 577keVcps

Index

19

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS14THF44 He++ 652keVcps

Index

20

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS14THF45 He++ 737keVcps

Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS14THF46 He++ 833keVcps

Index

22

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS14THF47 He++ 941keVcps

Index

23

RenderingHints**AxisLabel**

900.000

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

AlphaParticle

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #60

Name

Telescope 5 Alpha Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_alpha_P3_cps_t5

Description

Telescope 5 Alpha (Charge State unmeasured) Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

23

Element**Name**

MMS15THF25 He++ 64keVcps

Index

1

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS15THF26 He++ 73keVcps

Index

2

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS15THF27 He++ 83keVcps

Index

3

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS15THF28 He++ 93keVcps

Index

4

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS15THF29 He++ 105keVcps

Index

5

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS15THF30 He++ 118keVcps

Index

6

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS15THF31 He++ 134keVcps

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS15THF32 He++ 151keVcps

Index

8

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF33 He++ 171keVcps

Index

9

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF34 He++ 193keVcps

Index

10

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF35 He++ 218keVcps

Index

11

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF36 He++ 246keVcps

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF37 He++ 278keVcps

Index

13

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS15THF38 He++ 314keVcps

Index

14

RenderingHints

AxisLabel	300.000
Element	
Name	MMS15THF39 He++ 355keVcps
Index	15
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS15THF40 He++ 401keVcps
Index	16
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS15THF41 He++ 453keVcps
Index	17
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS15THF42 He++ 511keVcps
Index	18
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS15THF43 He++ 577keVcps
Index	19
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS15THF44 He++ 652keVcps
Index	20
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS15THF45 He++ 737keVcps
Index	21
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS15THF46 He++ 833keVcps
Index	22
RenderingHints	
AxisLabel	800.000

Element**Name**

MMS15THF47 He++ 941keVcps

Index

23

RenderingHints**AxisLabel**

900.000

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

AlphaParticle

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #61

Name

Telescope 0 Alpha Intensity (Flux)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_alpha_P3_flux_t0

Description

Telescope 0 Alpha (Charge State unmeasured) Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181e15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

23

Element**Name**

MMS10THF25 He++ 64keVintensity

Index

1

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS10THF26 He++ 73keVintensity

Index

2

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS10THF27 He++ 83keVintensity

Index

3

RenderingHints
AxisLabel 80.0000
Element
Name MMS10THF28 He++ 93keVintensity
Index 4
RenderingHints
AxisLabel 90.0000
Element
Name MMS10THF29 He++ 105keVintensity
Index 5
RenderingHints
AxisLabel 100.000
Element
Name MMS10THF30 He++ 118keVintensity
Index 6
RenderingHints
AxisLabel 100.000
Element
Name MMS10THF31 He++ 134keVintensity
Index 7
RenderingHints
AxisLabel 100.000
Element
Name MMS10THF32 He++ 151keVintensity
Index 8
RenderingHints
AxisLabel 200.000
Element
Name MMS10THF33 He++ 171keVintensity
Index 9
RenderingHints
AxisLabel 200.000
Element
Name MMS10THF34 He++ 193keVintensity
Index 10
RenderingHints
AxisLabel 200.000
Element
Name MMS10THF35 He++ 218keVintensity
Index 11
RenderingHints
AxisLabel

200.000

Element**Name**

MMS10THF36 He++ 246keVintensity

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS10THF37 He++ 278keVintensity

Index

13

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS10THF38 He++ 314keVintensity

Index

14

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS10THF39 He++ 355keVintensity

Index

15

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS10THF40 He++ 401keVintensity

Index

16

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS10THF41 He++ 453keVintensity

Index

17

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS10THF42 He++ 511keVintensity

Index

18

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS10THF43 He++ 577keVintensity

Index

19

RenderingHints**AxisLabel**

600.000

Element

Name
MMS10THF44 He++ 652keVintensity

Index
20

RenderingHints
AxisLabel
700.000

Element

Name
MMS10THF45 He++ 737keVintensity

Index
21

RenderingHints
AxisLabel
700.000

Element

Name
MMS10THF46 He++ 833keVintensity

Index
22

RenderingHints
AxisLabel
800.000

Element

Name
MMS10THF47 He++ 941keVintensity

Index
23

RenderingHints
AxisLabel
900.000

ValidMin
0.0

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
AlphaParticle

Qualifier
Differential

ParticleQuantity
EnergyFlux

Parameter #62

Name
Telescope 0 Alpha Incident Energy

ParameterKey
mms1_epd_eis_brst_extof_alpha_t0_energy

Description
Telescope 0 Alpha Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

Units
keV

UnitsConversion
1.602e-22>J

RenderingHints
ValueFormat
g6.1

ScaleMin
60.27

ScaleMax
1000.36

Structure

Size

23

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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

ValidMin

60.27

ValidMax

1000.36

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #63

Name

Telescope 0 Alpha Energy Bin Lower Width

ParameterKey

mms1_epd_eis_brst_extof_alpha_t0_energy_dminus

Description

Telescope 0 Alpha Energy Bin Lower Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

60.27

ScaleMax

1000.36

Structure**Size**

23

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

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Element**Name**

Element 10

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Element**Name**

Element 11

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Element**Name**

Element 12

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Element**Name**

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Element**Name**

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Element**Name**

Element 15

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Element**Name**

Element 16

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Element**Name**

Element 17

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Element**Name**

Element 18

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18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

ValidMin

0.0

ValidMax

1000.36

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #64

Name

Telescope 0 Alpha Energy Bin Higher Width

ParameterKey

mms1_epd_eis_brst_extof_alpha_t0_energy_dplus

Description

Telescope 0 Alpha Energy Bin Higher Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

60.27

ScaleMax

1000.36

Structure**Size**

23

Element**Name**

Element 1

Index

1

Element**Name**

Element 2

Index

2

Element**Name**

Element 3

Index

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Element**Name**

Element 4

Index

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Element**Name**

Element 5

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Element**Name**

Element 6

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Element**Name**

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Element 12
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Element 13
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Element 14
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Element 15
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Element 16
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Element 17
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Element 18
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Element 19
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19
Element
Name
Element 20
Index
20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

ValidMin

0.0

ValidMax

1000.36

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #65

Name

Telescope 1 Alpha Intensity (Flux)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_alpha_P3_flux_t1

Description

Telescope 1 Alpha (Charge State unmeasured) Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

23

Element**Name**

MMS11THF25 He++ 64keVintensity

Index

1

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS11THF26 He++ 73keVintensity

Index

2

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS11THF27 He++ 83keVintensity	
Index	3
RenderingHints	
AxisLabel	80.0000
Element	
Name	MMS11THF28 He++ 93keVintensity
Index	4
RenderingHints	
AxisLabel	90.0000
Element	
Name	MMS11THF29 He++ 105keVintensity
Index	5
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS11THF30 He++ 118keVintensity
Index	6
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS11THF31 He++ 134keVintensity
Index	7
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS11THF32 He++ 151keVintensity
Index	8
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS11THF33 He++ 171keVintensity
Index	9
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS11THF34 He++ 193keVintensity
Index	10
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS11THF35 He++ 218keVintensity
Index	

11

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF36 He++ 246keVintensity

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF37 He++ 278keVintensity

Index

13

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS11THF38 He++ 314keVintensity

Index

14

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS11THF39 He++ 355keVintensity

Index

15

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS11THF40 He++ 401keVintensity

Index

16

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS11THF41 He++ 453keVintensity

Index

17

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS11THF42 He++ 511keVintensity

Index

18

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS11THF43 He++ 577keVintensity

Index

19

RenderingHints

AxisLabel	600.000
Element	
Name	MMS11THF44 He++ 652keVintensity
Index	20
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS11THF45 He++ 737keVintensity
Index	21
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS11THF46 He++ 833keVintensity
Index	22
RenderingHints	
AxisLabel	800.000
Element	
Name	MMS11THF47 He++ 941keVintensity
Index	23
RenderingHints	
AxisLabel	900.000
ValidMin	0.0
ValidMax	1.79769e+308
FillValue	-1.0e+31
Particle	
ParticleType	AlphaParticle
Qualifier	Differential
ParticleQuantity	EnergyFlux

Parameter #66

Name	Telescope 1 Alpha Incident Energy
ParameterKey	mms1_epd_eis_brst_extof_alpha_t1_energy
Description	Telescope 1 Alpha Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data
Cadence	PT0.605S
Units	keV
UnitsConversion	1.602e-22>J
RenderingHints	
ValueFormat	g6.1
ScaleMin	60.27
ScaleMax	

1000.36

Structure

Size

23

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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

ValidMin

60.27

ValidMax

1000.36

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #67

Name

Telescope 1 Alpha Energy Bin Lower Width

ParameterKey

mms1_epd_eis_brst_extof_alpha_t1_energy_dminus

Description

Telescope 1 Alpha Energy Bin Lower Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

60.27

ScaleMax

1000.36

Structure**Size**

23

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
Element	
Name	Element 17
Index	17
Element	
Name	Element 18
Index	18
Element	
Name	Element 19
Index	19
Element	
Name	Element 20
Index	20
Element	
Name	Element 21
Index	21
Element	
Name	Element 22
Index	22
Element	
Name	Element 23

Index

23

ValidMin

0.0

ValidMax

1000.36

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #68

Name

Telescope 1 Alpha Energy Bin Higher Width

ParameterKey

mms1_epd_eis_brst_extof_alpha_t1_energy_dplus

Description

Telescope 1 Alpha Energy Bin Higher Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

60.27

ScaleMax

1000.36

Structure**Size**

23

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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

ValidMin

0.0

ValidMax

1000.36

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #69

Name

Telescope 2 Alpha Intensity (Flux)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_alpha_P3_flux_t2

Description

Telescope 2 Alpha (Charge State unmeasured) Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

23

Element**Name**

MMS12THF25 He++ 64keVintensity

Index

1

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS12THF26 He++ 73keVintensity

Index

2

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS12THF27 He++ 83keVintensity

Index

3

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS12THF28 He++ 93keVintensity

Index

4

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS12THF29 He++ 105keVintensity

Index

5

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS12THF30 He++ 118keVintensity

Index

6

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS12THF31 He++ 134keVintensity

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS12THF32 He++ 151keVintensity

Index

8

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS12THF33 He++ 171keVintensity

Index

9

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS12THF34 He++ 193keVintensity

Index

10

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS12THF35 He++ 218keVintensity	
Index	11
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF36 He++ 246keVintensity
Index	12
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF37 He++ 278keVintensity
Index	13
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF38 He++ 314keVintensity
Index	14
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF39 He++ 355keVintensity
Index	15
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS12THF40 He++ 401keVintensity
Index	16
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS12THF41 He++ 453keVintensity
Index	17
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS12THF42 He++ 511keVintensity
Index	18
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS12THF43 He++ 577keVintensity
Index	

19

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS12THF44 He++ 652keVintensity

Index

20

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS12THF45 He++ 737keVintensity

Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS12THF46 He++ 833keVintensity

Index

22

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS12THF47 He++ 941keVintensity

Index

23

RenderingHints**AxisLabel**

900.000

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

AlphaParticle

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #70

Name

Telescope 2 Alpha Incident Energy

ParameterKey

mms1_epd_eis_brst_extof_alpha_t2_energy

Description

Telescope 2 Alpha Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

60.27

ScaleMax

1000.36

Structure**Size**

23

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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

ValidMin

60.27

ValidMax

1000.36

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #71

Name	Telescope 2 Alpha Energy Bin Lower Width
ParameterKey	mms1_epd_eis_brst_extof_alpha_t2_energy_dminus
Description	Telescope 2 Alpha Energy Bin Lower Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data
Cadence	PT0.605S
Units	keV
UnitsConversion	1.602e-22>J
RenderingHints	
ValueFormat	g6.1
ScaleMin	60.27
ScaleMax	1000.36
Structure	
Size	23
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

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Element**Name**

Element 12

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Element**Name**

Element 13

Index

13

Element**Name**

Element 14

Index

14

Element**Name**

Element 15

Index

15

Element**Name**

Element 16

Index

16

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

ValidMin

0.0

ValidMax

1000.36

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #72

Name

Telescope 2 Alpha Energy Bin Higher Width

ParameterKey

mms1_epd_eis_brst_extof_alpha_t2_energy_dplus

Description

Telescope 2 Alpha Energy Bin Higher Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

60.27

ScaleMax

1000.36

Structure**Size**

23

Element**Name**

Element 1

Index

1

Element**Name**

Element 2

Index

2

Element**Name**

Element 3

Index

3

Element**Name**

Element 4

Index

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Element**Name**

Element 5

Index

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Element**Name**

Element 6

Index
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Element
Name
Element 7
Index
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Element 8
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Element 9
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Element 10
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Element 11
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Element 12
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Element 13
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Element 14
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Element 17
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Element 18
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Name
Element 19
Index
19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

ValidMin

0.0

ValidMax

1000.36

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #73

Name

Telescope 3 Alpha Intensity (Flux)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_alpha_P3_flux_t3

Description

Telescope 3 Alpha (Charge State unmeasured) Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

23

Element**Name**

MMS13THF25 He++ 64keVintensity

Index

1

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS13THF26 He++ 73keVintensity

Index

2

RenderingHints
AxisLabel 70.0000
Element
Name MMS13THF27 He++ 83keVintensity
Index 3
RenderingHints
AxisLabel 80.0000
Element
Name MMS13THF28 He++ 93keVintensity
Index 4
RenderingHints
AxisLabel 90.0000
Element
Name MMS13THF29 He++ 105keVintensity
Index 5
RenderingHints
AxisLabel 100.000
Element
Name MMS13THF30 He++ 118keVintensity
Index 6
RenderingHints
AxisLabel 100.000
Element
Name MMS13THF31 He++ 134keVintensity
Index 7
RenderingHints
AxisLabel 100.000
Element
Name MMS13THF32 He++ 151keVintensity
Index 8
RenderingHints
AxisLabel 200.000
Element
Name MMS13THF33 He++ 171keVintensity
Index 9
RenderingHints
AxisLabel 200.000
Element
Name MMS13THF34 He++ 193keVintensity
Index 10
RenderingHints
AxisLabel

200.000

Element**Name**

MMS13THF35 He++ 218keVintensity

Index

11

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF36 He++ 246keVintensity

Index

12

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF37 He++ 278keVintensity

Index

13

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS13THF38 He++ 314keVintensity

Index

14

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS13THF39 He++ 355keVintensity

Index

15

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS13THF40 He++ 401keVintensity

Index

16

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS13THF41 He++ 453keVintensity

Index

17

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS13THF42 He++ 511keVintensity

Index

18

RenderingHints**AxisLabel**

500.000

Element

Name
MMS13THF43 He++ 577keVintensity

Index
19

RenderingHints
AxisLabel
600.000

Element

Name
MMS13THF44 He++ 652keVintensity

Index
20

RenderingHints
AxisLabel
700.000

Element

Name
MMS13THF45 He++ 737keVintensity

Index
21

RenderingHints
AxisLabel
700.000

Element

Name
MMS13THF46 He++ 833keVintensity

Index
22

RenderingHints
AxisLabel
800.000

Element

Name
MMS13THF47 He++ 941keVintensity

Index
23

RenderingHints
AxisLabel
900.000

ValidMin
0.0

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
AlphaParticle

Qualifier
Differential

ParticleQuantity
EnergyFlux

Parameter #74

Name
Telescope 3 Alpha Incident Energy

ParameterKey
mms1_epd_eis_brst_extof_alpha_t3_energy

Description
Telescope 3 Alpha Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

Units
keV

UnitsConversion
1.602e-22>J

RenderingHints

ValueFormat

g6.1

ScaleMin

60.27

ScaleMax

1000.36

Structure**Size**

23

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

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6

Element**Name**

Element 7

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Element**Name**

Element 8

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Element**Name**

Element 9

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Element**Name**

Element 10

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Element**Name**

Element 11

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Element**Name**

Element 12

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Element**Name**

Element 13

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Element**Name**

Element 14

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Element**Name**

Element 15

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Element**Name**

Element 16

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16

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

ValidMin

60.27

ValidMax

1000.36

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #75

Name

Telescope 3 Alpha Energy Bin Lower Width

ParameterKey

mms1_epd_eis_brst_extof_alpha_t3_energy_dminus

Description

Telescope 3 Alpha Energy Bin Lower Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

60.27

ScaleMax

1000.36

Structure**Size**

23

Element**Name**

Element 1

Index

1

Element**Name**

Element 2

Index

2

Element**Name**

Element 3

Index

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Element**Name**

Element 4

Index

4

Element**Name**

Element 5

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

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Element 15
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Element 16
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Element 17
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Element 18
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Element 19
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Element
Name
Element 20
Index
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Element
Name
Element 21
Index
21
Element
Name
Element 22

Index

22

Element**Name**

Element 23

Index

23

ValidMin

0.0

ValidMax

1000.36

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #76

Name

Telescope 3 Alpha Energy Bin Higher Width

ParameterKey

mms1_epd_eis_brst_extof_alpha_t3_energy_dplus

Description

Telescope 3 Alpha Energy Bin Higher Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

60.27

ScaleMax

1000.36

Structure**Size**

23

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
Element	
Name	Element 17
Index	17
Element	
Name	Element 18
Index	18
Element	
Name	Element 19

Index	19
Element	
Name	Element 20
Index	20
Element	
Name	Element 21
Index	21
Element	
Name	Element 22
Index	22
Element	
Name	Element 23
Index	23
ValidMin	0.0
ValidMax	1000.36
FillValue	-1.0e+38
Support	
SupportQuantity	Other

Parameter #77

Name	Telescope 4 Alpha Intensity (Flux)
Set	Time series defined by using: EPOCH
ParameterKey	mms1_epd_eis_brst_extof_alpha_P3_flux_t4
Description	Telescope 4 Alpha (Charge State unmeasured) Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data
Cadence	PT0.605S
Units	$(\text{cm}^2 \text{ s sr keV})^{-1}$
UnitsConversion	$6.24181e15 > (\text{m}^2 \text{ s sr J})^{-1}$
RenderingHints	
DisplayType	Spectrogram
ValueFormat	g22.8
Structure	
Size	23
Element	
Name	MMS14THF25 He++ 64keVintensity
Index	1
RenderingHints	
AxisLabel	60.0000
Element	
Name	MMS14THF26 He++ 73keVintensity

Index
2
RenderingHints
AxisLabel
70.0000
Element
Name
MMS14THF27 He++ 83keVintensity
Index
3
RenderingHints
AxisLabel
80.0000
Element
Name
MMS14THF28 He++ 93keVintensity
Index
4
RenderingHints
AxisLabel
90.0000
Element
Name
MMS14THF29 He++ 105keVintensity
Index
5
RenderingHints
AxisLabel
100.000
Element
Name
MMS14THF30 He++ 118keVintensity
Index
6
RenderingHints
AxisLabel
100.000
Element
Name
MMS14THF31 He++ 134keVintensity
Index
7
RenderingHints
AxisLabel
100.000
Element
Name
MMS14THF32 He++ 151keVintensity
Index
8
RenderingHints
AxisLabel
200.000
Element
Name
MMS14THF33 He++ 171keVintensity
Index
9
RenderingHints
AxisLabel
200.000
Element
Name
MMS14THF34 He++ 193keVintensity
Index
10

RenderingHints
AxisLabel 200.000
Element
Name MMS14THF35 He++ 218keVintensity
Index 11
RenderingHints
AxisLabel 200.000
Element
Name MMS14THF36 He++ 246keVintensity
Index 12
RenderingHints
AxisLabel 200.000
Element
Name MMS14THF37 He++ 278keVintensity
Index 13
RenderingHints
AxisLabel 300.000
Element
Name MMS14THF38 He++ 314keVintensity
Index 14
RenderingHints
AxisLabel 300.000
Element
Name MMS14THF39 He++ 355keVintensity
Index 15
RenderingHints
AxisLabel 400.000
Element
Name MMS14THF40 He++ 401keVintensity
Index 16
RenderingHints
AxisLabel 400.000
Element
Name MMS14THF41 He++ 453keVintensity
Index 17
RenderingHints
AxisLabel 500.000
Element
Name MMS14THF42 He++ 511keVintensity
Index 18
RenderingHints
AxisLabel

500.000

Element**Name**

MMS14THF43 He++ 577keVintensity

Index

19

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS14THF44 He++ 652keVintensity

Index

20

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS14THF45 He++ 737keVintensity

Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS14THF46 He++ 833keVintensity

Index

22

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS14THF47 He++ 941keVintensity

Index

23

RenderingHints**AxisLabel**

900.000

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

AlphaParticle

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #78

Name

Telescope 4 Alpha Incident Energy

ParameterKey

mms1_epd_eis_brst_extof_alpha_t4_energy

Description

Telescope 4 Alpha Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

60.27

ScaleMax

1000.36

Structure**Size**

23

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

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Element**Name**

Element 11

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Element**Name**

Element 12

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Element**Name**

Element 13

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Element**Name**

Element 14

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Element**Name**

Element 15

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Element**Name**

Element 16

Index

16

Element**Name**

Element 17

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17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

ValidMin

60.27

ValidMax

1000.36

FillValue

-1.0e+38

Support

SupportQuantity

Other

Parameter #79

Name

Telescope 4 Alpha Energy Bin Lower Width

ParameterKey

mms1_epd_eis_brst_extof_alpha_t4_energy_dminus

Description

Telescope 4 Alpha Energy Bin Lower Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

60.27

ScaleMax

1000.36

Structure**Size**

23

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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element

Name	Element 22
Index	22
Element	
Name	Element 23
Index	23
ValidMin	0.0
ValidMax	1000.36
FillValue	-1.0e+38
Support	
SupportQuantity	Other

Parameter #80

Name	Telescope 4 Alpha Energy Bin Higher Width
ParameterKey	mms1_epd_eis_brst_extof_alpha_t4_energy_dplus
Description	Telescope 4 Alpha Energy Bin Higher Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data
Cadence	PT0.605S
Units	keV
UnitsConversion	1.602e-22>J
RenderingHints	
ValueFormat	g6.1
ScaleMin	60.27
ScaleMax	1000.36
Structure	
Size	23
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

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Element**Name**

Element 8

Index

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Element**Name**

Element 9

Index

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Element**Name**

Element 10

Index

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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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

ValidMin

0.0

ValidMax

1000.36

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #81

Name

Telescope 5 Alpha Intensity (Flux)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_alpha_P3_flux_t5

Description

Telescope 5 Alpha (Charge State unmeasured) Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

23

Element**Name**

MMS15THF25 He++ 64keVintensity

Index

1

RenderingHints**AxisLabel**

60.0000

Element**Name**

MMS15THF26 He++ 73keVintensity

Index

2

RenderingHints**AxisLabel**

70.0000

Element**Name**

MMS15THF27 He++ 83keVintensity

Index

3

RenderingHints**AxisLabel**

80.0000

Element**Name**

MMS15THF28 He++ 93keVintensity

Index

4

RenderingHints**AxisLabel**

90.0000

Element**Name**

MMS15THF29 He++ 105keVintensity

Index

5

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS15THF30 He++ 118keVintensity

Index

6

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS15THF31 He++ 134keVintensity

Index

7

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS15THF32 He++ 151keVintensity

Index

8

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF33 He++ 171keVintensity

Index

9

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF34 He++ 193keVintensity	
Index	10
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS15THF35 He++ 218keVintensity
Index	11
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS15THF36 He++ 246keVintensity
Index	12
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS15THF37 He++ 278keVintensity
Index	13
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS15THF38 He++ 314keVintensity
Index	14
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS15THF39 He++ 355keVintensity
Index	15
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS15THF40 He++ 401keVintensity
Index	16
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS15THF41 He++ 453keVintensity
Index	17
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS15THF42 He++ 511keVintensity
Index	

18

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS15THF43 He++ 577keVintensity

Index

19

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS15THF44 He++ 652keVintensity

Index

20

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS15THF45 He++ 737keVintensity

Index

21

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS15THF46 He++ 833keVintensity

Index

22

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS15THF47 He++ 941keVintensity

Index

23

RenderingHints**AxisLabel**

900.000

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

AlphaParticle

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #82

Name

Telescope 5 Alpha Incident Energy

ParameterKey

mms1_epd_eis_brst_extof_alpha_t5_energy

Description

Telescope 5 Alpha Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

60.27

ScaleMax

1000.36

Structure**Size**

23

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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

ValidMin

60.27

ValidMax

1000.36

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #83

Name

Telescope 5 Alpha Energy Bin Lower Width

ParameterKey

mms1_epd_eis_brst_extof_alpha_t5_energy_dminus

Description

Telescope 5 Alpha Energy Bin Lower Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

60.27

ScaleMax

1000.36

Structure**Size**

23

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
Element	
Name	Element 17
Index	17
Element	
Name	Element 18
Index	18
Element	
Name	Element 19
Index	19
Element	
Name	Element 20
Index	20
Element	
Name	Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

ValidMin

0.0

ValidMax

1000.36

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #84

Name

Telescope 5 Alpha Energy Bin Higher Width

ParameterKey

mms1_epd_eis_brst_extof_alpha_t5_energy_dplus

Description

Telescope 5 Alpha Energy Bin Higher Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExtOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

60.27

ScaleMax

1000.36

Structure**Size**

23

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
Element	
Name	Element 17
Index	17
Element	
Name	Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

ValidMin

0.0

ValidMax

1000.36

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #85

Name

Telescope 0 Oxygen Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_oxygen_P3_counts_t0

Description

Telescope 0 Oxygen (Charge State unmeasured) Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS10THF48 O 135keVcounts

Index

1

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS10THF49 O 148keVcounts
Index
2
RenderingHints
AxisLabel
100.000
Element
Name
MMS10THF50 O 162keVcounts
Index
3
RenderingHints
AxisLabel
200.000
Element
Name
MMS10THF51 O 177keVcounts
Index
4
RenderingHints
AxisLabel
200.000
Element
Name
MMS10THF52 O 194keVcounts
Index
5
RenderingHints
AxisLabel
200.000
Element
Name
MMS10THF53 O 212keVcounts
Index
6
RenderingHints
AxisLabel
200.000
Element
Name
MMS10THF54 O 231keVcounts
Index
7
RenderingHints
AxisLabel
200.000
Element
Name
MMS10THF55 O 252keVcounts
Index
8
RenderingHints
AxisLabel
300.000
Element
Name
MMS10THF56 O 276keVcounts
Index
9
RenderingHints
AxisLabel
300.000
Element
Name
MMS10THF57 O 301keVcounts
Index

10

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS10THF58 O 329keVcounts

Index

11

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS10THF59 O 360keVcounts

Index

12

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS10THF60 O 394keVcounts

Index

13

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS10THF61 O 430keVcounts

Index

14

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS10THF62 O 470keVcounts

Index

15

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS10THF63 O 514keVcounts

Index

16

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS10THF64 O 562keVcounts

Index

17

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS10THF65 O 614keVcounts

Index

18

RenderingHints

AxisLabel	600.000
Element	
Name	MMS10THF66 O 671keVcounts
Index	19
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS10THF67 O 733keVcounts
Index	20
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS10THF68 O 801keVcounts
Index	21
RenderingHints	
AxisLabel	800.000
Element	
Name	MMS10THF69 O 876keVcounts
Index	22
RenderingHints	
AxisLabel	900.000
Element	
Name	MMS10THF70 O 957keVcounts
Index	23
RenderingHints	
AxisLabel	1000.00
Element	
Name	MMS10THF71 O 1122keVcounts
Index	24
RenderingHints	
AxisLabel	1000.00
ValidMin	0.0
ValidMax	1.79769e+308
FillValue	-1.0e+31
Particle	
ParticleType	Ion
Qualifier	Differential
ParticleQuantity	Counts

Parameter #86

Name

Telescope 1 Oxygen Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_oxygen_P3_counts_t1

Description

Telescope 1 Oxygen (Charge State unmeasured) Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS11THF48 O 135keVcounts

Index

1

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS11THF49 O 148keVcounts

Index

2

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS11THF50 O 162keVcounts

Index

3

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF51 O 177keVcounts

Index

4

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF52 O 194keVcounts

Index

5

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF53 O 212keVcounts

Index

6

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF54 O 231keVcounts

Index

7

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF55 O 252keVcounts

Index

8

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS11THF56 O 276keVcounts

Index

9

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS11THF57 O 301keVcounts

Index

10

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS11THF58 O 329keVcounts

Index

11

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS11THF59 O 360keVcounts

Index

12

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS11THF60 O 394keVcounts

Index

13

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS11THF61 O 430keVcounts

Index

14

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS11THF62 O 470keVcounts	
Index	15
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS11THF63 O 514keVcounts
Index	16
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS11THF64 O 562keVcounts
Index	17
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS11THF65 O 614keVcounts
Index	18
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS11THF66 O 671keVcounts
Index	19
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS11THF67 O 733keVcounts
Index	20
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS11THF68 O 801keVcounts
Index	21
RenderingHints	
AxisLabel	800.000
Element	
Name	MMS11THF69 O 876keVcounts
Index	22
RenderingHints	
AxisLabel	900.000
Element	
Name	MMS11THF70 O 957keVcounts
Index	

23

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS11THF71 O 1122keVcounts

Index

24

RenderingHints**AxisLabel**

1000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

Counts

Parameter #87

Name

Telescope 2 Oxygen Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_oxygen_P3_counts_t2

Description

Telescope 2 Oxygen (Charge State unmeasured) Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS12THF48 O 135keVcounts

Index

1

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS12THF49 O 148keVcounts

Index

2

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS12THF50 O 162keVcounts

Index

3

RenderingHints
AxisLabel 200.000
Element
Name MMS12THF51 O 177keVcounts
Index 4
RenderingHints
AxisLabel 200.000
Element
Name MMS12THF52 O 194keVcounts
Index 5
RenderingHints
AxisLabel 200.000
Element
Name MMS12THF53 O 212keVcounts
Index 6
RenderingHints
AxisLabel 200.000
Element
Name MMS12THF54 O 231keVcounts
Index 7
RenderingHints
AxisLabel 200.000
Element
Name MMS12THF55 O 252keVcounts
Index 8
RenderingHints
AxisLabel 300.000
Element
Name MMS12THF56 O 276keVcounts
Index 9
RenderingHints
AxisLabel 300.000
Element
Name MMS12THF57 O 301keVcounts
Index 10
RenderingHints
AxisLabel 300.000
Element
Name MMS12THF58 O 329keVcounts
Index 11
RenderingHints
AxisLabel

300.000

Element**Name**

MMS12THF59 O 360keVcounts

Index

12

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS12THF60 O 394keVcounts

Index

13

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS12THF61 O 430keVcounts

Index

14

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS12THF62 O 470keVcounts

Index

15

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS12THF63 O 514keVcounts

Index

16

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS12THF64 O 562keVcounts

Index

17

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS12THF65 O 614keVcounts

Index

18

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS12THF66 O 671keVcounts

Index

19

RenderingHints**AxisLabel**

700.000

Element

Name
MMS12THF67 O 733keVcounts

Index
20

RenderingHints
AxisLabel
700.000

Element

Name
MMS12THF68 O 801keVcounts

Index
21

RenderingHints
AxisLabel
800.000

Element

Name
MMS12THF69 O 876keVcounts

Index
22

RenderingHints
AxisLabel
900.000

Element

Name
MMS12THF70 O 957keVcounts

Index
23

RenderingHints
AxisLabel
1000.00

Element

Name
MMS12THF71 O 1122keVcounts

Index
24

RenderingHints
AxisLabel
1000.00

ValidMin
0.0

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
Ion

Qualifier
Differential

ParticleQuantity
Counts

Parameter #88

Name
Telescope 3 Oxygen Counts

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_oxygen_P3_counts_t3

Description
Telescope 3 Oxygen (Charge State unmeasured) Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

RenderingHints

DisplayType

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS13THF48 O 135keVcounts

Index

1

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS13THF49 O 148keVcounts

Index

2

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS13THF50 O 162keVcounts

Index

3

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF51 O 177keVcounts

Index

4

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF52 O 194keVcounts

Index

5

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF53 O 212keVcounts

Index

6

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF54 O 231keVcounts

Index

7

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF55 O 252keVcounts

Index

8

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS13THF56 O 276keVcounts

Index

9

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS13THF57 O 301keVcounts

Index

10

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS13THF58 O 329keVcounts

Index

11

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS13THF59 O 360keVcounts

Index

12

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS13THF60 O 394keVcounts

Index

13

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS13THF61 O 430keVcounts

Index

14

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS13THF62 O 470keVcounts

Index

15

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS13THF63 O 514keVcounts

Index

16

RenderingHints

AxisLabel
500.000
Element
Name
MMS13THF64 O 562keVcounts
Index
17
RenderingHints
AxisLabel
600.000
Element
Name
MMS13THF65 O 614keVcounts
Index
18
RenderingHints
AxisLabel
600.000
Element
Name
MMS13THF66 O 671keVcounts
Index
19
RenderingHints
AxisLabel
700.000
Element
Name
MMS13THF67 O 733keVcounts
Index
20
RenderingHints
AxisLabel
700.000
Element
Name
MMS13THF68 O 801keVcounts
Index
21
RenderingHints
AxisLabel
800.000
Element
Name
MMS13THF69 O 876keVcounts
Index
22
RenderingHints
AxisLabel
900.000
Element
Name
MMS13THF70 O 957keVcounts
Index
23
RenderingHints
AxisLabel
1000.00
Element
Name
MMS13THF71 O 1122keVcounts
Index
24
RenderingHints
AxisLabel
1000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

Counts

Parameter #89

Name

Telescope 4 Oxygen Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_oxygen_P3_counts_t4

Description

Telescope 4 Oxygen (Charge State unmeasured) Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS14THF48 O 135keVcounts

Index

1

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF49 O 148keVcounts

Index

2

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF50 O 162keVcounts

Index

3

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF51 O 177keVcounts

Index

4

RenderingHints**AxisLabel**

200.000

Element

Name	MMS14THF52 O 194keVcounts
Index	5
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS14THF53 O 212keVcounts
Index	6
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS14THF54 O 231keVcounts
Index	7
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS14THF55 O 252keVcounts
Index	8
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS14THF56 O 276keVcounts
Index	9
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS14THF57 O 301keVcounts
Index	10
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS14THF58 O 329keVcounts
Index	11
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS14THF59 O 360keVcounts
Index	12
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS14THF60 O 394keVcounts

Index	13
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS14THF61 O 430keVcounts
Index	14
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS14THF62 O 470keVcounts
Index	15
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS14THF63 O 514keVcounts
Index	16
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS14THF64 O 562keVcounts
Index	17
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS14THF65 O 614keVcounts
Index	18
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS14THF66 O 671keVcounts
Index	19
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS14THF67 O 733keVcounts
Index	20
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS14THF68 O 801keVcounts
Index	21

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS14THF69 O 876keVcounts

Index

22

RenderingHints**AxisLabel**

900.000

Element**Name**

MMS14THF70 O 957keVcounts

Index

23

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS14THF71 O 1122keVcounts

Index

24

RenderingHints**AxisLabel**

1000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

Counts

Parameter #90

Name

Telescope 5 Oxygen Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_oxygen_P3_counts_t5

Description

Telescope 5 Oxygen (Charge State unmeasured) Counts for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS15THF48 O 135keVcounts

Index

1

RenderingHints

AxisLabel
100.000
Element
Name
MMS15THF49 O 148keVcounts
Index
2
RenderingHints
AxisLabel
100.000
Element
Name
MMS15THF50 O 162keVcounts
Index
3
RenderingHints
AxisLabel
200.000
Element
Name
MMS15THF51 O 177keVcounts
Index
4
RenderingHints
AxisLabel
200.000
Element
Name
MMS15THF52 O 194keVcounts
Index
5
RenderingHints
AxisLabel
200.000
Element
Name
MMS15THF53 O 212keVcounts
Index
6
RenderingHints
AxisLabel
200.000
Element
Name
MMS15THF54 O 231keVcounts
Index
7
RenderingHints
AxisLabel
200.000
Element
Name
MMS15THF55 O 252keVcounts
Index
8
RenderingHints
AxisLabel
300.000
Element
Name
MMS15THF56 O 276keVcounts
Index
9
RenderingHints
AxisLabel
300.000

Element**Name**

MMS15THF57 O 301keVcounts

Index

10

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS15THF58 O 329keVcounts

Index

11

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS15THF59 O 360keVcounts

Index

12

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS15THF60 O 394keVcounts

Index

13

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS15THF61 O 430keVcounts

Index

14

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS15THF62 O 470keVcounts

Index

15

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS15THF63 O 514keVcounts

Index

16

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS15THF64 O 562keVcounts

Index

17

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS15THF65 O 614keVcounts
Index
18
RenderingHints
AxisLabel
600.000
Element
Name
MMS15THF66 O 671keVcounts
Index
19
RenderingHints
AxisLabel
700.000
Element
Name
MMS15THF67 O 733keVcounts
Index
20
RenderingHints
AxisLabel
700.000
Element
Name
MMS15THF68 O 801keVcounts
Index
21
RenderingHints
AxisLabel
800.000
Element
Name
MMS15THF69 O 876keVcounts
Index
22
RenderingHints
AxisLabel
900.000
Element
Name
MMS15THF70 O 957keVcounts
Index
23
RenderingHints
AxisLabel
1000.00
Element
Name
MMS15THF71 O 1122keVcounts
Index
24
RenderingHints
AxisLabel
1000.00
ValidMin
0.0
ValidMax
1.79769e+308
FillValue
-1.0e+31
Particle
ParticleType
Ion
Qualifier
Differential
ParticleQuantity

Counts

Parameter #91

Name

Telescope 0 Oxygen Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_oxygen_P3_cps_t0

Description

Telescope 0 Oxygen (Charge State unmeasured) Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS10THF48 O 135keVcps

Index

1

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS10THF49 O 148keVcps

Index

2

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS10THF50 O 162keVcps

Index

3

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS10THF51 O 177keVcps

Index

4

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS10THF52 O 194keVcps

Index

5

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS10THF53 O 212keVcps	
Index	6
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS10THF54 O 231keVcps
Index	7
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS10THF55 O 252keVcps
Index	8
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS10THF56 O 276keVcps
Index	9
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS10THF57 O 301keVcps
Index	10
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS10THF58 O 329keVcps
Index	11
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS10THF59 O 360keVcps
Index	12
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS10THF60 O 394keVcps
Index	13
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS10THF61 O 430keVcps
Index	

14

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS10THF62 O 470keVcps

Index

15

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS10THF63 O 514keVcps

Index

16

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS10THF64 O 562keVcps

Index

17

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS10THF65 O 614keVcps

Index

18

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS10THF66 O 671keVcps

Index

19

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS10THF67 O 733keVcps

Index

20

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS10THF68 O 801keVcps

Index

21

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS10THF69 O 876keVcps

Index

22

RenderingHints

AxisLabel	900.000
Element	
Name	MMS10THF70 O 957keVcps
Index	23
RenderingHints	
AxisLabel	1000.00
Element	
Name	MMS10THF71 O 1122keVcps
Index	24
RenderingHints	
AxisLabel	1000.00
ValidMin	0.0
ValidMax	1.79769e+308
FillValue	-1.0e+31
Particle	
ParticleType	Ion
Qualifier	Differential
ParticleQuantity	CountRate

Parameter #92

Name	Telescope 1 Oxygen Count Rate
Set	Time series defined by using: EPOCH
ParameterKey	mms1_epd_eis_brst_extof_oxygen_P3_cps_t1
Description	Telescope 1 Oxygen (Charge State unmeasured) Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data
Cadence	PT0.605S
Units	s ⁻¹
RenderingHints	
DisplayType	Spectrogram
ValueFormat	g22.8
Structure	
Size	24
Element	
Name	MMS11THF48 O 135keVcps
Index	1
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS11THF49 O 148keVcps
Index	2

RenderingHints
AxisLabel 100.000
Element
Name MMS11THF50 O 162keVcps
Index 3
RenderingHints
AxisLabel 200.000
Element
Name MMS11THF51 O 177keVcps
Index 4
RenderingHints
AxisLabel 200.000
Element
Name MMS11THF52 O 194keVcps
Index 5
RenderingHints
AxisLabel 200.000
Element
Name MMS11THF53 O 212keVcps
Index 6
RenderingHints
AxisLabel 200.000
Element
Name MMS11THF54 O 231keVcps
Index 7
RenderingHints
AxisLabel 200.000
Element
Name MMS11THF55 O 252keVcps
Index 8
RenderingHints
AxisLabel 300.000
Element
Name MMS11THF56 O 276keVcps
Index 9
RenderingHints
AxisLabel 300.000
Element
Name MMS11THF57 O 301keVcps
Index 10
RenderingHints
AxisLabel

300.000

Element**Name**

MMS11THF58 O 329keVcps

Index

11

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS11THF59 O 360keVcps

Index

12

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS11THF60 O 394keVcps

Index

13

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS11THF61 O 430keVcps

Index

14

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS11THF62 O 470keVcps

Index

15

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS11THF63 O 514keVcps

Index

16

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS11THF64 O 562keVcps

Index

17

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS11THF65 O 614keVcps

Index

18

RenderingHints**AxisLabel**

600.000

Element

Name
MMS11THF66 O 671keVcps

Index
19

RenderingHints
AxisLabel
700.000

Element

Name
MMS11THF67 O 733keVcps

Index
20

RenderingHints
AxisLabel
700.000

Element

Name
MMS11THF68 O 801keVcps

Index
21

RenderingHints
AxisLabel
800.000

Element

Name
MMS11THF69 O 876keVcps

Index
22

RenderingHints
AxisLabel
900.000

Element

Name
MMS11THF70 O 957keVcps

Index
23

RenderingHints
AxisLabel
1000.00

Element

Name
MMS11THF71 O 1122keVcps

Index
24

RenderingHints
AxisLabel
1000.00

ValidMin
0.0

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
Ion

Qualifier
Differential

ParticleQuantity
CountRate

Parameter #93

Name
Telescope 2 Oxygen Count Rate

Set
Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_oxygen_P3_cps_t2

Description

Telescope 2 Oxygen (Charge State unmeasured) Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS12THF48 O 135keVcps

Index

1

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS12THF49 O 148keVcps

Index

2

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS12THF50 O 162keVcps

Index

3

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS12THF51 O 177keVcps

Index

4

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS12THF52 O 194keVcps

Index

5

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS12THF53 O 212keVcps

Index

6

RenderingHints**AxisLabel**

200.000

Element

Name	MMS12THF54 O 231keVcps
Index	7
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS12THF55 O 252keVcps
Index	8
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF56 O 276keVcps
Index	9
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF57 O 301keVcps
Index	10
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF58 O 329keVcps
Index	11
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS12THF59 O 360keVcps
Index	12
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS12THF60 O 394keVcps
Index	13
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS12THF61 O 430keVcps
Index	14
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS12THF62 O 470keVcps

Index	15
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS12THF63 O 514keVcps
Index	16
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS12THF64 O 562keVcps
Index	17
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS12THF65 O 614keVcps
Index	18
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS12THF66 O 671keVcps
Index	19
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS12THF67 O 733keVcps
Index	20
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS12THF68 O 801keVcps
Index	21
RenderingHints	
AxisLabel	800.000
Element	
Name	MMS12THF69 O 876keVcps
Index	22
RenderingHints	
AxisLabel	900.000
Element	
Name	MMS12THF70 O 957keVcps
Index	23

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS12THF71 O 1122keVcps

Index

24

RenderingHints**AxisLabel**

1000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #94

Name

Telescope 3 Oxygen Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_oxygen_P3_cps_t3

Description

Telescope 3 Oxygen (Charge State unmeasured) Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS13THF48 O 135keVcps

Index

1

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS13THF49 O 148keVcps

Index

2

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS13THF50 O 162keVcps

Index

3

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF51 O 177keVcps

Index

4

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF52 O 194keVcps

Index

5

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF53 O 212keVcps

Index

6

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF54 O 231keVcps

Index

7

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF55 O 252keVcps

Index

8

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS13THF56 O 276keVcps

Index

9

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS13THF57 O 301keVcps

Index

10

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS13THF58 O 329keVcps

Index

11

RenderingHints

AxisLabel
300.000
Element
Name
MMS13THF59 O 360keVcps
Index
12
RenderingHints
AxisLabel
400.000
Element
Name
MMS13THF60 O 394keVcps
Index
13
RenderingHints
AxisLabel
400.000
Element
Name
MMS13THF61 O 430keVcps
Index
14
RenderingHints
AxisLabel
400.000
Element
Name
MMS13THF62 O 470keVcps
Index
15
RenderingHints
AxisLabel
500.000
Element
Name
MMS13THF63 O 514keVcps
Index
16
RenderingHints
AxisLabel
500.000
Element
Name
MMS13THF64 O 562keVcps
Index
17
RenderingHints
AxisLabel
600.000
Element
Name
MMS13THF65 O 614keVcps
Index
18
RenderingHints
AxisLabel
600.000
Element
Name
MMS13THF66 O 671keVcps
Index
19
RenderingHints
AxisLabel
700.000

Element**Name**

MMS13THF67 O 733keVcps

Index

20

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS13THF68 O 801keVcps

Index

21

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS13THF69 O 876keVcps

Index

22

RenderingHints**AxisLabel**

900.000

Element**Name**

MMS13THF70 O 957keVcps

Index

23

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS13THF71 O 1122keVcps

Index

24

RenderingHints**AxisLabel**

1000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #95

Name

Telescope 4 Oxygen Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_oxygen_P3_cps_t4

Description

Telescope 4 Oxygen (Charge State unmeasured) Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

s^-1

RenderingHints**DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS14THF48 O 135keVcps

Index

1

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF49 O 148keVcps

Index

2

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF50 O 162keVcps

Index

3

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF51 O 177keVcps

Index

4

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF52 O 194keVcps

Index

5

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF53 O 212keVcps

Index

6

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF54 O 231keVcps

Index

7

RenderingHints**AxisLabel**

200.000

Element

Name	MMS14THF55 O 252keVcps
Index	8
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS14THF56 O 276keVcps
Index	9
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS14THF57 O 301keVcps
Index	10
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS14THF58 O 329keVcps
Index	11
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS14THF59 O 360keVcps
Index	12
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS14THF60 O 394keVcps
Index	13
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS14THF61 O 430keVcps
Index	14
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS14THF62 O 470keVcps
Index	15
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS14THF63 O 514keVcps

Index	16
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS14THF64 O 562keVcps
Index	17
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS14THF65 O 614keVcps
Index	18
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS14THF66 O 671keVcps
Index	19
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS14THF67 O 733keVcps
Index	20
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS14THF68 O 801keVcps
Index	21
RenderingHints	
AxisLabel	800.000
Element	
Name	MMS14THF69 O 876keVcps
Index	22
RenderingHints	
AxisLabel	900.000
Element	
Name	MMS14THF70 O 957keVcps
Index	23
RenderingHints	
AxisLabel	1000.00
Element	
Name	MMS14THF71 O 1122keVcps
Index	24

RenderingHints**AxisLabel**

1000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #96

Name

Telescope 5 Oxygen Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_oxygen_P3_cps_t5

Description

Telescope 5 Oxygen (Charge State unmeasured) Counts per second for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS15THF48 O 135keVcps

Index

1

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS15THF49 O 148keVcps

Index

2

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS15THF50 O 162keVcps

Index

3

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF51 O 177keVcps

Index

4

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF52 O 194keVcps

Index

5

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF53 O 212keVcps

Index

6

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF54 O 231keVcps

Index

7

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS15THF55 O 252keVcps

Index

8

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS15THF56 O 276keVcps

Index

9

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS15THF57 O 301keVcps

Index

10

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS15THF58 O 329keVcps

Index

11

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS15THF59 O 360keVcps

Index

12

RenderingHints

AxisLabel
400.000
Element
Name
MMS15THF60 O 394keVcps
Index
13
RenderingHints
AxisLabel
400.000
Element
Name
MMS15THF61 O 430keVcps
Index
14
RenderingHints
AxisLabel
400.000
Element
Name
MMS15THF62 O 470keVcps
Index
15
RenderingHints
AxisLabel
500.000
Element
Name
MMS15THF63 O 514keVcps
Index
16
RenderingHints
AxisLabel
500.000
Element
Name
MMS15THF64 O 562keVcps
Index
17
RenderingHints
AxisLabel
600.000
Element
Name
MMS15THF65 O 614keVcps
Index
18
RenderingHints
AxisLabel
600.000
Element
Name
MMS15THF66 O 671keVcps
Index
19
RenderingHints
AxisLabel
700.000
Element
Name
MMS15THF67 O 733keVcps
Index
20
RenderingHints
AxisLabel
700.000

Element**Name**

MMS15THF68 O 801keVcps

Index

21

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS15THF69 O 876keVcps

Index

22

RenderingHints**AxisLabel**

900.000

Element**Name**

MMS15THF70 O 957keVcps

Index

23

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS15THF71 O 1122keVcps

Index

24

RenderingHints**AxisLabel**

1000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #97**Name**

Telescope 0 Oxygen Intensity (Flux)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_oxygen_P3_flux_t0

Description

Telescope 0 Oxygen (Charge State unmeasured) Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181e15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS10THF48 O 135keVintensity

Index

1

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS10THF49 O 148keVintensity

Index

2

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS10THF50 O 162keVintensity

Index

3

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS10THF51 O 177keVintensity

Index

4

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS10THF52 O 194keVintensity

Index

5

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS10THF53 O 212keVintensity

Index

6

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS10THF54 O 231keVintensity

Index

7

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS10THF55 O 252keVintensity

Index

8

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS10THF56 O 276keVintensity

Index

9

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS10THF57 O 301keVintensity

Index

10

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS10THF58 O 329keVintensity

Index

11

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS10THF59 O 360keVintensity

Index

12

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS10THF60 O 394keVintensity

Index

13

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS10THF61 O 430keVintensity

Index

14

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS10THF62 O 470keVintensity

Index

15

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS10THF63 O 514keVintensity

Index

16

RenderingHints**AxisLabel**

500.000

Element

Name
MMS10THF64 O 562keVintensity

Index
17

RenderingHints
AxisLabel
600.000

Element

Name
MMS10THF65 O 614keVintensity

Index
18

RenderingHints
AxisLabel
600.000

Element

Name
MMS10THF66 O 671keVintensity

Index
19

RenderingHints
AxisLabel
700.000

Element

Name
MMS10THF67 O 733keVintensity

Index
20

RenderingHints
AxisLabel
700.000

Element

Name
MMS10THF68 O 801keVintensity

Index
21

RenderingHints
AxisLabel
800.000

Element

Name
MMS10THF69 O 876keVintensity

Index
22

RenderingHints
AxisLabel
900.000

Element

Name
MMS10THF70 O 957keVintensity

Index
23

RenderingHints
AxisLabel
1000.00

Element

Name
MMS10THF71 O 1122keVintensity

Index
24

RenderingHints
AxisLabel
1000.00

ValidMin
0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #98

Name

Telescope 0 Oxygen Incident Energy

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t0_energy

Description

Telescope 0 Oxygen Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

129.32

ScaleMax

1257.68

Structure**Size**

24

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

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Element**Name**

Element 6

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Element**Name**

Element 7

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Element 12
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Element 14
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Element 15
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Element 16
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Element 17
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Element 18
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Element 19
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19
Element
Name
Element 20
Index
20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

ValidMin

129.32

ValidMax

1257.68

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #99

Name

Telescope 0 Oxygen Energy Bin Lower Width

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t0_energy_dminus

Description

Telescope 0 Oxygen Energy Bin Lower Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

129.32

ScaleMax

1257.68

Structure**Size**

24

Element**Name**

Element 1

Index

1

Element**Name**

Element 2

Index

2

Element**Name**

Element 3

Index 3
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Name Element 4
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Name Element 5
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Name Element 6
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Name Element 10
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Name Element 13
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Name Element 14
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Name Element 15
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Name Element 16
Index 16

Element**Name**

Element 17

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Element**Name**

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Element**Name**

Element 19

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Element**Name**

Element 20

Index

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Element**Name**

Element 21

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21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

ValidMin

0.0

ValidMax

1257.68

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #100

Name

Telescope 0 Oxygen Energy Bin Higher Width

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t0_energy_dplus

DescriptionTelescope 0 Oxygen Energy Bin Higher Width, E_{mid} minus E_{low}, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data**Cadence**

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin
129.32

ScaleMax
1257.68

Structure

Size
24

Element

Name
Element 1

Index
1

Element

Name
Element 2

Index
2

Element

Name
Element 3

Index
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Element

Name
Element 4

Index
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Name
Element 5

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Element 6

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Name
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Name
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Name
Element 11

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Name
Element 12

Index
12

Element**Name**

Element 13

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Element**Name**

Element 14

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Element**Name**

Element 15

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Element**Name**

Element 16

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16

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

ValidMin

0.0

ValidMax

1257.68

FillValue

-1.0e+38

Support

SupportQuantity

Other

Parameter #101

Name

Telescope 1 Oxygen Intensity (Flux)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_oxygen_P3_flux_t1

Description

Telescope 1 Oxygen (Charge State unmeasured) Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS11THF48 O 135keVintensity

Index

1

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS11THF49 O 148keVintensity

Index

2

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS11THF50 O 162keVintensity

Index

3

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF51 O 177keVintensity

Index

4

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF52 O 194keVintensity

Index

5

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF53 O 212keVintensity

Index

6

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF54 O 231keVintensity

Index

7

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS11THF55 O 252keVintensity

Index

8

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS11THF56 O 276keVintensity

Index

9

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS11THF57 O 301keVintensity

Index

10

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS11THF58 O 329keVintensity

Index

11

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS11THF59 O 360keVintensity

Index

12

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS11THF60 O 394keVintensity

Index

13

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS11THF61 O 430keVintensity	
Index	14
RenderingHints	
AxisLabel	400.000
Element	
Name	MMS11THF62 O 470keVintensity
Index	15
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS11THF63 O 514keVintensity
Index	16
RenderingHints	
AxisLabel	500.000
Element	
Name	MMS11THF64 O 562keVintensity
Index	17
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS11THF65 O 614keVintensity
Index	18
RenderingHints	
AxisLabel	600.000
Element	
Name	MMS11THF66 O 671keVintensity
Index	19
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS11THF67 O 733keVintensity
Index	20
RenderingHints	
AxisLabel	700.000
Element	
Name	MMS11THF68 O 801keVintensity
Index	21
RenderingHints	
AxisLabel	800.000
Element	
Name	MMS11THF69 O 876keVintensity
Index	

22

RenderingHints**AxisLabel**

900.000

Element**Name**

MMS11THF70 O 957keVintensity

Index

23

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS11THF71 O 1122keVintensity

Index

24

RenderingHints**AxisLabel**

1000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #102

Name

Telescope 1 Oxygen Incident Energy

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t1_energy

Description

Telescope 1 Oxygen Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

129.32

ScaleMax

1257.68

Structure**Size**

24

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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

ValidMin

129.32

ValidMax

1257.68

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #103

Name

Telescope 1 Oxygen Energy Bin Lower Width

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t1_energy_dminus

DescriptionTelescope 1 Oxygen Energy Bin Lower Width, E_{mid} minus E_{low}, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data**Cadence**

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

129.32

ScaleMax

1257.68

Structure**Size**

24

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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

ValidMin

0.0

ValidMax
1257.68

FillValue
-1.0e+38

Support

SupportQuantity
Other

Parameter #104

Name
Telescope 1 Oxygen Energy Bin Higher Width

ParameterKey
mms1_epd_eis_brst_extof_oxygen_t1_energy_dplus

Description
Telescope 1 Oxygen Energy Bin Higher Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

Units
keV

UnitsConversion
1.602e-22>J

RenderingHints

ValueFormat
g6.1

ScaleMin
129.32

ScaleMax
1257.68

Structure

Size
24

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
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Element 5

Index
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Element
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Element
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Element 7

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Element**Name**

Element 8

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Element**Name**

Element 9

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Element**Name**

Element 10

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Element**Name**

Element 11

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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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element

Name	Element 21
Index	21
Element	
Name	Element 22
Index	22
Element	
Name	Element 23
Index	23
Element	
Name	Element 24
Index	24
ValidMin	0.0
ValidMax	1257.68
FillValue	-1.0e+38
Support	
SupportQuantity	Other

Parameter #105

Name	Telescope 2 Oxygen Intensity (Flux)
Set	Time series defined by using: EPOCH
ParameterKey	mms1_epd_eis_brst_extof_oxygen_P3_flux_t2
Description	Telescope 2 Oxygen (Charge State unmeasured) Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data
Cadence	PT0.605S
Units	$(\text{cm}^2 \text{ s sr keV})^{-1}$
UnitsConversion	$6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$
RenderingHints	
DisplayType	Spectrogram
ValueFormat	g22.8
Structure	
Size	24
Element	
Name	MMS12THF48 O 135keVintensity
Index	1
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS12THF49 O 148keVintensity
Index	2
RenderingHints	

AxisLabel
100.000
Element
Name
MMS12THF50 O 162keVintensity
Index
3
RenderingHints
AxisLabel
200.000
Element
Name
MMS12THF51 O 177keVintensity
Index
4
RenderingHints
AxisLabel
200.000
Element
Name
MMS12THF52 O 194keVintensity
Index
5
RenderingHints
AxisLabel
200.000
Element
Name
MMS12THF53 O 212keVintensity
Index
6
RenderingHints
AxisLabel
200.000
Element
Name
MMS12THF54 O 231keVintensity
Index
7
RenderingHints
AxisLabel
200.000
Element
Name
MMS12THF55 O 252keVintensity
Index
8
RenderingHints
AxisLabel
300.000
Element
Name
MMS12THF56 O 276keVintensity
Index
9
RenderingHints
AxisLabel
300.000
Element
Name
MMS12THF57 O 301keVintensity
Index
10
RenderingHints
AxisLabel
300.000

Element**Name**

MMS12THF58 O 329keVintensity

Index

11

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS12THF59 O 360keVintensity

Index

12

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS12THF60 O 394keVintensity

Index

13

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS12THF61 O 430keVintensity

Index

14

RenderingHints**AxisLabel**

400.000

Element**Name**

MMS12THF62 O 470keVintensity

Index

15

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS12THF63 O 514keVintensity

Index

16

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS12THF64 O 562keVintensity

Index

17

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS12THF65 O 614keVintensity

Index

18

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS12THF66 O 671keVintensity

Index

19

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS12THF67 O 733keVintensity

Index

20

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS12THF68 O 801keVintensity

Index

21

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS12THF69 O 876keVintensity

Index

22

RenderingHints**AxisLabel**

900.000

Element**Name**

MMS12THF70 O 957keVintensity

Index

23

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS12THF71 O 1122keVintensity

Index

24

RenderingHints**AxisLabel**

1000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #106**Name**

Telescope 2 Oxygen Incident Energy

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t2_energy

Description

Telescope 2 Oxygen Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

129.32

ScaleMax

1257.68

Structure**Size**

24

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

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7

Element**Name**

Element 8

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8

Element**Name**

Element 9

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9

Element**Name**

Element 10

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10

Element**Name**

Element 11

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11

Element**Name**

Element 12

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12

Element**Name**

Element 13

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13

Element**Name**

Element 14

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14

Element**Name**

Element 15

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15

Element**Name**

Element 16

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16

Element**Name**

Element 17

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17

Element**Name**

Element 18

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18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element

Name

Element 24

Index

24

ValidMin

129.32

ValidMax

1257.68

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #107

Name

Telescope 2 Oxygen Energy Bin Lower Width

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t2_energy_dminus

DescriptionTelescope 2 Oxygen Energy Bin Lower Width, E_{mid} minus E_{low}, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data**Cadence**

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

129.32

ScaleMax

1257.68

Structure**Size**

24

Element**Name**

Element 1

Index

1

Element**Name**

Element 2

Index

2

Element**Name**

Element 3

Index

3

Element**Name**

Element 4

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4

Element**Name**

Element 5

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Element**Name**

Element 6

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6

Element**Name**

Element 7

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Element**Name**

Element 8

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Element**Name**

Element 9

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Element**Name**

Element 10

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Element**Name**

Element 11

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Element**Name**

Element 12

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Element**Name**

Element 13

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Element**Name**

Element 14

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Element**Name**

Element 15

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Element**Name**

Element 16

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16

Element**Name**

Element 17

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17

Element**Name**

Element 18

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18

Element**Name**

Element 19

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Element**Name**

Element 20

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Element**Name**

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Element**Name**

Element 22

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22

Element**Name**

Element 23

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23

Element**Name**

Element 24

Index

24

ValidMin

0.0

ValidMax

1257.68

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #108

Name

Telescope 2 Oxygen Energy Bin Higher Width

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t2_energy_dplus

Description

Telescope 2 Oxygen Energy Bin Higher Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

129.32

ScaleMax

1257.68

Structure**Size**

24

Element**Name**

Element 1

Index

1

Element**Name**

Element 2

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Name
Element 3
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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

Element 20

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Element**Name**

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Element**Name**

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22

Element**Name**

Element 23

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23

Element**Name**

Element 24

Index

24

ValidMin

0.0

ValidMax

1257.68

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #109

Name

Telescope 3 Oxygen Intensity (Flux)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_oxygen_P3_flux_t3

Description

Telescope 3 Oxygen (Charge State unmeasured) Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units(cm² s sr keV)⁻¹**UnitsConversion**6.24181e15>(m² s sr J)⁻¹**RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS13THF48 O 135keVintensity

Index

1

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS13THF49 O 148keVintensity

Index

2

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS13THF50 O 162keVintensity

Index

3

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF51 O 177keVintensity

Index

4

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF52 O 194keVintensity

Index

5

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF53 O 212keVintensity

Index

6

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS13THF54 O 231keVintensity

Index

7

RenderingHints

AxisLabel
200.000
Element
Name
MMS13THF55 O 252keVintensity
Index
8
RenderingHints
AxisLabel
300.000
Element
Name
MMS13THF56 O 276keVintensity
Index
9
RenderingHints
AxisLabel
300.000
Element
Name
MMS13THF57 O 301keVintensity
Index
10
RenderingHints
AxisLabel
300.000
Element
Name
MMS13THF58 O 329keVintensity
Index
11
RenderingHints
AxisLabel
300.000
Element
Name
MMS13THF59 O 360keVintensity
Index
12
RenderingHints
AxisLabel
400.000
Element
Name
MMS13THF60 O 394keVintensity
Index
13
RenderingHints
AxisLabel
400.000
Element
Name
MMS13THF61 O 430keVintensity
Index
14
RenderingHints
AxisLabel
400.000
Element
Name
MMS13THF62 O 470keVintensity
Index
15
RenderingHints
AxisLabel
500.000

Element**Name**

MMS13THF63 O 514keVintensity

Index

16

RenderingHints**AxisLabel**

500.000

Element**Name**

MMS13THF64 O 562keVintensity

Index

17

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS13THF65 O 614keVintensity

Index

18

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS13THF66 O 671keVintensity

Index

19

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS13THF67 O 733keVintensity

Index

20

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS13THF68 O 801keVintensity

Index

21

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS13THF69 O 876keVintensity

Index

22

RenderingHints**AxisLabel**

900.000

Element**Name**

MMS13THF70 O 957keVintensity

Index

23

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS13THF71 O 1122keVintensity

Index

24

RenderingHints**AxisLabel**

1000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #110

Name

Telescope 3 Oxygen Incident Energy

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t3_energy

Description

Telescope 3 Oxygen Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

129.32

ScaleMax

1257.68

Structure**Size**

24

Element**Name**

Element 1

Index

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Element**Name**

Element 2

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Element**Name**

Element 3

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Element**Name**

Element 4

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Element**Name**

Element 5

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Element**Name**

Element 6

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Element**Name**

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Element**Name**

Element 8

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

Element 19

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Element**Name**

Element 20

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Element**Name**

Element 21

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Element**Name**

Element 22

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22

Element**Name**

Element 23

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23

Element**Name**

Element 24

Index

24

ValidMin

129.32

ValidMax

1257.68

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #111

Name

Telescope 3 Oxygen Energy Bin Lower Width

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t3_energy_dminus

Description

Telescope 3 Oxygen Energy Bin Lower Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExtTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

129.32

ScaleMax

1257.68

Structure**Size**

24

Element**Name**

Element 1

Index
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Element
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Element 2
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Element 3
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Element 4
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Element 6
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Element 7
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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

Element 22

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22

Element**Name**

Element 23

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23

Element**Name**

Element 24

Index

24

ValidMin

0.0

ValidMax

1257.68

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #112

Name

Telescope 3 Oxygen Energy Bin Higher Width

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t3_energy_dplus

Description

Telescope 3 Oxygen Energy Bin Higher Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

129.32

ScaleMax

1257.68

Structure**Size**

24

Element**Name**

Element 1

Index

1

Element**Name**

Element 2

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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

Element**Name**

Element 17

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17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

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21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

ValidMin

0.0

ValidMax

1257.68

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #113

Name

Telescope 4 Oxygen Intensity (Flux)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_oxygen_P3_flux_t4

Description

Telescope 4 Oxygen (Charge State unmeasured) Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS14THF48 O 135keVintensity

Index

1

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF49 O 148keVintensity

Index

2

RenderingHints**AxisLabel**

100.000

Element**Name**

MMS14THF50 O 162keVintensity

Index

3

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF51 O 177keVintensity

Index

4

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF52 O 194keVintensity

Index

5

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF53 O 212keVintensity

Index

6

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF54 O 231keVintensity

Index

7

RenderingHints**AxisLabel**

200.000

Element**Name**

MMS14THF55 O 252keVintensity

Index

8

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS14THF56 O 276keVintensity

Index

9

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS14THF57 O 301keVintensity

Index

10

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS14THF58 O 329keVintensity

Index

11

RenderingHints**AxisLabel**

300.000

Element**Name**

MMS14THF59 O 360keVintensity

Index

12

RenderingHints

AxisLabel
400.000
Element
Name
MMS14THF60 O 394keVintensity
Index
13
RenderingHints
AxisLabel
400.000
Element
Name
MMS14THF61 O 430keVintensity
Index
14
RenderingHints
AxisLabel
400.000
Element
Name
MMS14THF62 O 470keVintensity
Index
15
RenderingHints
AxisLabel
500.000
Element
Name
MMS14THF63 O 514keVintensity
Index
16
RenderingHints
AxisLabel
500.000
Element
Name
MMS14THF64 O 562keVintensity
Index
17
RenderingHints
AxisLabel
600.000
Element
Name
MMS14THF65 O 614keVintensity
Index
18
RenderingHints
AxisLabel
600.000
Element
Name
MMS14THF66 O 671keVintensity
Index
19
RenderingHints
AxisLabel
700.000
Element
Name
MMS14THF67 O 733keVintensity
Index
20
RenderingHints
AxisLabel
700.000

Element**Name**

MMS14THF68 O 801keVintensity

Index

21

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS14THF69 O 876keVintensity

Index

22

RenderingHints**AxisLabel**

900.000

Element**Name**

MMS14THF70 O 957keVintensity

Index

23

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS14THF71 O 1122keVintensity

Index

24

RenderingHints**AxisLabel**

1000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #114

Name

Telescope 4 Oxygen Incident Energy

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t4_energy

Description

Telescope 4 Oxygen Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

129.32

ScaleMax

1257.68

Structure

Size	24
Element	
Name	Element 1
Index	1
Element	
Name	Element 2
Index	2
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Name	Element 3
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Name	Element 4
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Name	Element 5
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Name	Element 6
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Name	Element 7
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Name	Element 8
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Name	Element 9
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Name	Element 10
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Name	Element 11
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Name	Element 12
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Name	Element 13
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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

Element 19

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Element**Name**

Element 20

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Element**Name**

Element 21

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Element**Name**

Element 22

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22

Element**Name**

Element 23

Index

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Element**Name**

Element 24

Index

24

ValidMin

129.32

ValidMax

1257.68

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #115

Name

Telescope 4 Oxygen Energy Bin Lower Width

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t4_energy_dminus

Description

Telescope 4 Oxygen Energy Bin Lower Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

129.32

ScaleMax

1257.68

Structure**Size**

24

Element**Name**

Element 1

Index

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Element**Name**

Element 2

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Element**Name**

Element 3

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3

Element**Name**

Element 4

Index

4

Element**Name**

Element 5

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Element**Name**

Element 6

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6

Element**Name**

Element 7

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7

Element**Name**

Element 8

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8

Element**Name**

Element 9

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9

Element**Name**

Element 10

Index

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Element**Name**

Element 11

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11

Element**Name**

Element 12

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Element**Name**

Element 13

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Element**Name**

Element 14

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Element**Name**

Element 15

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Element**Name**

Element 16

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Element**Name**

Element 17

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Element**Name**

Element 18

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Element**Name**

Element 19

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

Element 23

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Element**Name**

Element 24

Index

24

ValidMin

0.0

ValidMax

1257.68

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #116

Name

Telescope 4 Oxygen Energy Bin Higher Width

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t4_energy_dplus

DescriptionTelescope 4 Oxygen Energy Bin Higher Width, E_{mid} minus E_{low}, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data**Cadence**

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

129.32

ScaleMax

1257.68

Structure**Size**

24

Element**Name**

Element 1

Index

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Element**Name**

Element 2

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Element**Name**

Element 3

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

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Element**Name**

Element 21

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Element**Name**

Element 22

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22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

ValidMin

0.0

ValidMax

1257.68

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #117

Name

Telescope 5 Oxygen Intensity (Flux)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_oxygen_P3_flux_t5

Description

Telescope 5 Oxygen (Charge State unmeasured) Intensity (Flux) for each Energy Channel, Look Up Table #3, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

Spectrogram

ValueFormat

g22.8

Structure**Size**

24

Element**Name**

MMS15THF48 O 135keVintensity

Index	1
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS15THF49 O 148keVintensity
Index	2
RenderingHints	
AxisLabel	100.000
Element	
Name	MMS15THF50 O 162keVintensity
Index	3
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS15THF51 O 177keVintensity
Index	4
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS15THF52 O 194keVintensity
Index	5
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS15THF53 O 212keVintensity
Index	6
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS15THF54 O 231keVintensity
Index	7
RenderingHints	
AxisLabel	200.000
Element	
Name	MMS15THF55 O 252keVintensity
Index	8
RenderingHints	
AxisLabel	300.000
Element	
Name	MMS15THF56 O 276keVintensity
Index	9

RenderingHints
AxisLabel 300.000
Element
Name MMS15THF57 O 301keVintensity
Index 10
RenderingHints
AxisLabel 300.000
Element
Name MMS15THF58 O 329keVintensity
Index 11
RenderingHints
AxisLabel 300.000
Element
Name MMS15THF59 O 360keVintensity
Index 12
RenderingHints
AxisLabel 400.000
Element
Name MMS15THF60 O 394keVintensity
Index 13
RenderingHints
AxisLabel 400.000
Element
Name MMS15THF61 O 430keVintensity
Index 14
RenderingHints
AxisLabel 400.000
Element
Name MMS15THF62 O 470keVintensity
Index 15
RenderingHints
AxisLabel 500.000
Element
Name MMS15THF63 O 514keVintensity
Index 16
RenderingHints
AxisLabel 500.000
Element
Name MMS15THF64 O 562keVintensity
Index 17
RenderingHints
AxisLabel

600.000

Element**Name**

MMS15THF65 O 614keVintensity

Index

18

RenderingHints**AxisLabel**

600.000

Element**Name**

MMS15THF66 O 671keVintensity

Index

19

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS15THF67 O 733keVintensity

Index

20

RenderingHints**AxisLabel**

700.000

Element**Name**

MMS15THF68 O 801keVintensity

Index

21

RenderingHints**AxisLabel**

800.000

Element**Name**

MMS15THF69 O 876keVintensity

Index

22

RenderingHints**AxisLabel**

900.000

Element**Name**

MMS15THF70 O 957keVintensity

Index

23

RenderingHints**AxisLabel**

1000.00

Element**Name**

MMS15THF71 O 1122keVintensity

Index

24

RenderingHints**AxisLabel**

1000.00

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier
Differential

ParticleQuantity
EnergyFlux

Parameter #118

Name
Telescope 5 Oxygen Incident Energy

ParameterKey
mms1_epd_eis_brst_extof_oxygen_t5_energy

Description
Telescope 5 Oxygen Incident Energy for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

Units
keV

UnitsConversion
1.602e-22>J

RenderingHints

ValueFormat
g6.1

ScaleMin
129.32

ScaleMax
1257.68

Structure

Size
24

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

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12

Element**Name**

Element 13

Index

13

Element**Name**

Element 14

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14

Element**Name**

Element 15

Index

15

Element**Name**

Element 16

Index

16

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

ValidMin

129.32

ValidMax

1257.68

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #119

Name

Telescope 5 Oxygen Energy Bin Lower Width

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t5_energy_dminus

Description

Telescope 5 Oxygen Energy Bin Lower Width, E_mid minus E_low, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

129.32

ScaleMax

1257.68

Structure**Size**

24

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
Element
Name
Element 17
Index
17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

ValidMin

0.0

ValidMax

1257.68

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #120

Name

Telescope 5 Oxygen Energy Bin Higher Width

ParameterKey

mms1_epd_eis_brst_extof_oxygen_t5_energy_dplus

DescriptionTelescope 5 Oxygen Energy Bin Higher Width, E_{mid} minus E_{low}, for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data**Cadence**

PT0.605S

Units

keV

UnitsConversion

1.602e-22>J

RenderingHints**ValueFormat**

g6.1

ScaleMin

129.32

ScaleMax

1257.68

Structure

Size	24
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

Element**Name**

Element 17

Index

17

Element**Name**

Element 18

Index

18

Element**Name**

Element 19

Index

19

Element**Name**

Element 20

Index

20

Element**Name**

Element 21

Index

21

Element**Name**

Element 22

Index

22

Element**Name**

Element 23

Index

23

Element**Name**

Element 24

Index

24

ValidMin

0.0

ValidMax

1257.68

FillValue

-1.0e+38

Support**SupportQuantity**

Other

Parameter #121

Name

Telescope 0 Dump Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_dump_counts_t0

Description

Telescope 0 Dump Bin Counts for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

Counts

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

Counts

Parameter #122

Name

Telescope 1 Dump Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_dump_counts_t1

Description

Telescope 1 Dump Bin Counts for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

Counts

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

Counts

Parameter #123

Name

Telescope 2 Dump Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_dump_counts_t2

Description

Telescope 2 Dump Bin Counts for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

Counts

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

Counts

Parameter #124

Name

Telescope 3 Dump Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_dump_counts_t3

Description

Telescope 3 Dump Bin Counts for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

Counts

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

Counts

Parameter #125

Name

Telescope 4 Dump Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_dump_counts_t4

Description

Telescope 4 Dump Bin Counts for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

Counts

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

Counts

Parameter #126

Name

Telescope 5 Dump Counts

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_dump_counts_t5

Description

Telescope 5 Dump Bin Counts for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

Counts

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

Counts

Parameter #127

Name

Telescope 0 Dump Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_dump_cps_t0

Description

Telescope 0 Counts per second Dump Bin for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

TimeSeries

AxisLabel

CPS

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #128

Name

Telescope 1 Dump Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_dump_cps_t1

Description

Telescope 1 Counts per second Dump Bin for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

TimeSeries

AxisLabel

CPS

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier
Differential

ParticleQuantity
CountRate

Parameter #129

Name
Telescope 2 Dump Count Rate

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_dump_cps_t2

Description
Telescope 2 Counts per second Dump Bin for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

Units
 s^{-1}

RenderingHints

DisplayType
TimeSeries

AxisLabel
CPS

ValueFormat
g

ScaleType
LinearScale

ValidMin
0.0

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
Ion

Qualifier
Differential

ParticleQuantity
CountRate

Parameter #130

Name
Telescope 3 Dump Count Rate

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_dump_cps_t3

Description
Telescope 3 Counts per second Dump Bin for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

Units
 s^{-1}

RenderingHints

DisplayType
TimeSeries

AxisLabel
CPS

ValueFormat
g

ScaleType
LinearScale

ValidMin
0.0

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
Ion

Qualifier
Differential

ParticleQuantity
CountRate

Parameter #131

Name
Telescope 4 Dump Count Rate

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_dump_cps_t4

Description
Telescope 4 Counts per second Dump Bin for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

Units
s⁻¹

RenderingHints

DisplayType
TimeSeries

AxisLabel
CPS

ValueFormat
g

ScaleType
LinearScale

ValidMin
0.0

ValidMax
1.79769e+308

FillValue
-1.0e+31

Particle

ParticleType
Ion

Qualifier
Differential

ParticleQuantity
CountRate

Parameter #132

Name
Telescope 5 Dump Count Rate

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_dump_cps_t5

Description
Telescope 5 Counts per second Dump Bin for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

Units
s⁻¹

RenderingHints

DisplayType
TimeSeries

AxisLabel
CPS

ValueFormat
g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #133

Name

Telescope 0 Dump Intensity

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_dump_flux_t0

Description

Telescope 0 Dump Bin Intensity (Flux) for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

TimeSeries

AxisLabel

Intensity

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #134

Name

Telescope 1 Dump Intensity

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_dump_flux_t1

Description

Telescope 1 Dump Bin Intensity (Flux) for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion**

$6.24181e15 > (m^2 \text{ s sr J})^{-1}$
RenderingHints**DisplayType**
TimeSeries**AxisLabel**
Intensity**ValueFormat**
g**ScaleType**
LinearScale**ValidMin**

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**
Ion**Qualifier**
Differential**ParticleQuantity**
EnergyFlux

Parameter #135

Name

Telescope 2 Dump Intensity

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_dump_flux_t2

Description

Telescope 2 Dump Bin Intensity (Flux) for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181e15 > (m^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**
TimeSeries**AxisLabel**
Intensity**ValueFormat**
g**ScaleType**
LinearScale**ValidMin**

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**
Ion**Qualifier**
Differential**ParticleQuantity**
EnergyFlux

Parameter #136

Name

Telescope 3 Dump Intensity

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_dump_flux_t3

Description

Telescope 3 Dump Bin Intensity (Flux) for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

TimeSeries

AxisLabel

Intensity

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #137

Name

Telescope 4 Dump Intensity

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_dump_flux_t4

Description

Telescope 4 Dump Bin Intensity (Flux) for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

TimeSeries

AxisLabel

Intensity

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity
 EnergyFlux

Parameter #138

Name

Telescope 5 Dump Intensity

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_dump_flux_t5

Description

Telescope 5 Dump Bin Intensity (Flux) for each Energy Channel, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units $(\text{cm}^2 \text{ s sr keV})^{-1}$ **UnitsConversion** $6.24181\text{e}15 > (\text{m}^2 \text{ s sr J})^{-1}$ **RenderingHints****DisplayType**

TimeSeries

AxisLabel

Intensity

ValueFormat

g

ScaleType

LinearScale

ValidMin

0.0

ValidMax

1.79769e+308

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

EnergyFlux

Parameter #139

Name

Pitch Angle for Telescope 0

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_pitch_angle_t0

Description

Telescope 0 Pitch Angle, Energy by Time-of-Flight (ExTOF), Burst Data

Cadence

PT0.605S

Units

degree

UnitsConversion $0.0174532925 > \text{rad}$ **RenderingHints****DisplayType**

TimeSeries

AxisLabel

PA T0 MMS1

ValueFormat

e12.5

ScaleMin

0.0

ScaleMax

180.0

ScaleType
LinearScale

ValidMin
0.0

ValidMax
180.0

FillValue
-1.0e+31

Support

Qualifier
DirectionAngle.PolarAngle

SupportQuantity
Other

Parameter #140

Name
Pitch Angle for Telescope 1

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_pitch_angle_t1

Description
Telescope 1 Pitch Angle, Energy by Time-of-Flight (ExTOF), Burst Data

Cadence
PT0.605S

Units
degree

UnitsConversion
0.0174532925>rad

RenderingHints

DisplayType
TimeSeries

AxisLabel
PA T1 MMS1

ValueFormat
e12.5

ScaleMin
0.0

ScaleMax
180.0

ScaleType
LinearScale

ValidMin
0.0

ValidMax
180.0

FillValue
-1.0e+31

Support

Qualifier
DirectionAngle.PolarAngle

SupportQuantity
Other

Parameter #141

Name
Pitch Angle for Telescope 2

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_pitch_angle_t2

Description
Telescope 2 Pitch Angle, Energy by Time-of-Flight (ExTOF), Burst Data

Cadence
PT0.605S

Units
degree

UnitsConversion
0.0174532925>rad

RenderingHints

DisplayType
TimeSeries

AxisLabel
PA T1 MMS1

ValueFormat
e12.5

ScaleMin
0.0

ScaleMax
180.0

ScaleType
LinearScale

ValidMin
0.0

ValidMax
180.0

FillValue
-1.0e+31

Support

Qualifier
DirectionAngle.PolarAngle

SupportQuantity
Other

Parameter #142

Name
Pitch Angle for Telescope 3

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_pitch_angle_t3

Description
Telescope 3 Pitch Angle, Energy by Time-of-Flight (ExTOF), Burst Data

Cadence
PT0.605S

Units
degree

UnitsConversion
0.0174532925>rad

RenderingHints

DisplayType
TimeSeries

AxisLabel
PA T1 MMS1

ValueFormat
e12.5

ScaleMin
0.0

ScaleMax
180.0

ScaleType
LinearScale

ValidMin
0.0

ValidMax
180.0

FillValue
-1.0e+31

Support

Qualifier
DirectionAngle.PolarAngle

SupportQuantity
Other

Parameter #143

Name

Pitch Angle for Telescope 4

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_pitch_angle_t4

Description

Telescope 4 Pitch Angle, Energy by Time-of-Flight (ExTOF), Burst Data

Cadence

PT0.605S

Units

degree

UnitsConversion

0.0174532925>rad

RenderingHints**DisplayType**

TimeSeries

AxisLabel

PA T1 MMS1

ValueFormat

e12.5

ScaleMin

0.0

ScaleMax

180.0

ScaleType

LinearScale

ValidMin

0.0

ValidMax

180.0

FillValue

-1.0e+31

Support**Qualifier**

DirectionAngle.PolarAngle

SupportQuantity

Other

Parameter #144

Name

Pitch Angle for Telescope 5

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_pitch_angle_t5

Description

Telescope 5 Pitch Angle, Energy by Time-of-Flight (ExTOF), Burst Data

Cadence

PT0.605S

Units

degree

UnitsConversion

0.0174532925>rad

RenderingHints**DisplayType**

TimeSeries

AxisLabel

PA T1 MMS1

ValueFormat

e12.5

ScaleMin

0.0

ScaleMax

180.0

ScaleType

LinearScale

ValidMin

0.0

ValidMax

180.0

FillValue

-1.0e+31

Support**Qualifier**

DirectionAngle.PolarAngle

SupportQuantity

Other

Parameter #145

Name

Telescope 0 Look Vector (GSE)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_look_t0

Description

Telescope 0 Look Vector in GSE Coordinates, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

CoordinateSystem**CoordinateRepresentation**

Cartesian

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

ValueFormat

e12.5

ScaleMin

-1.0

ScaleMax

1.0

ScaleType

LinearScale

Structure**Size**

3

Element**Name**

Element 1

Index

1

Element**Name**

Element 2

Index

2

Element**Name**

Element 3

Index

3

ValidMin

-1.0

ValidMax

1.0

FillValue

-1.0e+31

Support**Qualifier**

Vector

SupportQuantity

Other

Parameter #146

Name

Telescope 1 Look Vector (GSE)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_look_t1

Description

Telescope 1 Look Vector in GSE Coordinates, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

CoordinateSystem**CoordinateRepresentation**

Cartesian

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

ValueFormat

e12.5

ScaleMin

-1.0

ScaleMax

1.0

ScaleType

LinearScale

Structure**Size**

3

Element**Name**

Element 1

Index

1

Element**Name**

Element 2

Index

2

Element**Name**

Element 3

Index

3

ValidMin

-1.0

ValidMax

1.0

FillValue

-1.0e+31

Support**Qualifier**

Vector

SupportQuantity

Other

Parameter #147

Name

Telescope 2 Look Vector (GSE)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_look_t2

Description

Telescope 2 Look Vector in GSE Coordinates, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

CoordinateSystem**CoordinateRepresentation**

Cartesian

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

ValueFormat

e12.5

ScaleMin

-1.0

ScaleMax

1.0

ScaleType

LinearScale

Structure**Size**

3

Element**Name**

Element 1

Index

1

Element**Name**

Element 2

Index

2

Element**Name**

Element 3

Index

3

ValidMin

-1.0

ValidMax

1.0

FillValue

-1.0e+31

Support**Qualifier**

Vector

SupportQuantity

Other

Parameter #148

Name

Telescope 3 Look Vector (GSE)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_look_t3

Description

Telescope 3 Look Vector in GSE Coordinates, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

CoordinateSystem**CoordinateRepresentation**

Cartesian

CoordinateSystemName

GSE

RenderingHints

DisplayType
TimeSeries

ValueFormat
e12.5

ScaleMin
-1.0

ScaleMax
1.0

ScaleType
LinearScale

Structure

Size
3

Element
Name
Element 1

Index
1

Element
Name
Element 2

Index
2

Element
Name
Element 3

Index
3

ValidMin
-1.0

ValidMax
1.0

FillValue
-1.0e+31

Support

Qualifier
Vector

SupportQuantity
Other

Parameter #149

Name
Telescope 4 Look Vector (GSE)

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_look_t4

Description
Telescope 4 Look Vector in GSE Coordinates, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

CoordinateSystem

CoordinateRepresentation
Cartesian

CoordinateSystemName
GSE

RenderingHints

DisplayType
TimeSeries

ValueFormat
e12.5

ScaleMin
-1.0

ScaleMax
1.0

ScaleType
LinearScale

Structure**Size**

3

Element**Name**

Element 1

Index

1

Element**Name**

Element 2

Index

2

Element**Name**

Element 3

Index

3

ValidMin

-1.0

ValidMax

1.0

FillValue

-1.0e+31

Support**Qualifier**

Vector

SupportQuantity

Other

Parameter #150

Name

Telescope 5 Look Vector (GSE)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_look_t5

Description

Telescope 5 Look Vector in GSE Coordinates, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

CoordinateSystem**CoordinateRepresentation**

Cartesian

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

ValueFormat

e12.5

ScaleMin

-1.0

ScaleMax

1.0

ScaleType

LinearScale

Structure**Size**

3

Element**Name**

Element 1

Index

1

Element**Name**

Element 2
Index
2
Element
Name
Element 3
Index
3
ValidMin
-1.0
ValidMax
1.0
FillValue
-1.0e+31
Support
Qualifier
Vector
SupportQuantity
Other

Parameter #151

Name
Magnetic Field (BCS)
Set
Time series defined by using: EPOCH
ParameterKey
mms1_epd_eis_brst_extof_b
Description
Magnetic Field in BCS Coordinates
Cadence
PT0.605S
Units
nT
UnitsConversion
1.0e-9>nT
CoordinateSystem
CoordinateRepresentation
Cartesian
CoordinateSystemName
SC
RenderingHints
DisplayType
TimeSeries
ValueFormat
e12.5
ScaleMin
-1.79769e+308
ScaleMax
3.40282e+38
ScaleType
LinearScale
Structure
Size
4
Element
Name
Element 1
Index
1
Element
Name
Element 2
Index
2
Element
Name
Element 3

Index	3
Element	
Name	Element 4
Index	4
ValidMin	-1.79769e+308
ValidMax	3.40282e+38
FillValue	-1.0e+31
Field	
Qualifier	Vector
FieldQuantity	Magnetic

Parameter #152

Name	Spacecraft Position Vector in GSE Coordinates
Set	Time series defined by using: EPOCH
ParameterKey	mms1_epd_eis_brst_extof_position_gse
Description	Spacecraft Position Vector in GSE Coordinates
Cadence	PT0.605S
Units	km
UnitsConversion	1.0e3>m
CoordinateSystem	
CoordinateRepresentation	Cartesian
CoordinateSystemName	GSE
RenderingHints	
DisplayType	TimeSeries
ValueFormat	e12.5
ScaleMin	-1.79769e+308
ScaleMax	3.40282e+38
ScaleType	LinearScale
Structure	
Size	3
Element	
Name	Element 1
Index	1
Element	
Name	Element 2
Index	2
Element	
Name	Element 3
Index	

3

ValidMin

-1.79769e+308

ValidMax

3.40282e+38

FillValue

-1.0e+31

Support**Qualifier**

Vector

SupportQuantity

Positional

Parameter #153

Name

Spacecraft Position Vector in GSM Coordinates

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_position_gsm

Description

Spacecraft Position Vector in GSM Coordinates

Cadence

PT0.605S

Units

km

UnitsConversion

1.0e3>m

CoordinateSystem**CoordinateRepresentation**

Cartesian

CoordinateSystemName

GSM

RenderingHints**DisplayType**

TimeSeries

ValueFormat

e12.5

ScaleMin

-1.79769e+308

ScaleMax

3.40282e+38

ScaleType

LinearScale

Structure**Size**

3

Element**Name**

Element 1

Index

1

Element**Name**

Element 2

Index

2

Element**Name**

Element 3

Index

3

ValidMin

-1.79769e+308

ValidMax

3.40282e+38

FillValue

-1.0e+31

Support**Qualifier**
Vector**SupportQuantity**
Positional

Parameter #154

Name

Spacecraft-Moon Vector in GSE Coordinates

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_moon_gse

Description

Spacecraft-to-Moon Vector in GSE Coordinates

Cadence

PT0.605S

Units

km

UnitsConversion

1.0e3>m

CoordinateSystem**CoordinateRepresentation**
Cartesian**CoordinateSystemName**
GSE**RenderingHints****DisplayType**
TimeSeries**ValueFormat**
e12.5**ScaleMin**
-1.79769e+308**ScaleMax**
3.40282e+38**ScaleType**
LinearScale**Structure****Size**
3**Element****Name**
Element 1**Index**
1**Element****Name**
Element 2**Index**
2**Element****Name**
Element 3**Index**
3**ValidMin**

-1.79769e+308

ValidMax

3.40282e+38

FillValue

-1.0e+31

Support**Qualifier**
Vector**SupportQuantity**
Positional

Parameter #155

Name

Transformation Matrix (BCS to GSE)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_sc_to_gse

Description

Transformation Matrix from BCS to GSE Coordinates

Cadence

PT0.605S

CoordinateSystem**CoordinateRepresentation**

Cartesian

CoordinateSystemName

SC

RenderingHints**DisplayType**

TimeSeries

ValueFormat

e12.5

ScaleMin

-1.79769e+308

ScaleMax

3.40282e+38

ScaleType

LinearScale

Structure**Size**

9

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

ValidMin
-1.79769e+308

ValidMax
3.40282e+38

FillValue
-1.0e+31

Support

Qualifier
Tensor

SupportQuantity
Other

Parameter #156

Name
Transformation Matrix (GSE to GSM)

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_gse_to_gsm

Description
Transformation Matrix from GSE to GSM Coordinates

Cadence
PT0.605S

CoordinateSystem

CoordinateRepresentation
Cartesian

CoordinateSystemName
GSE

RenderingHints

DisplayType
TimeSeries

ValueFormat
e12.5

ScaleMin
-1.79769e+308

ScaleMax
3.40282e+38

ScaleType
LinearScale

Structure

Size
9

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

ValidMin
-1.79769e+308

ValidMax
3.40282e+38

FillValue
-1.0e+31

Support

Qualifier
Tensor

SupportQuantity
Other

Parameter #157

Name
Spacecraft Position, Radius

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_r

Description
Spacecraft Radial Distance

Cadence
PT0.605S

Units
km

UnitsConversion
1.0e3>m

RenderingHints

DisplayType
TimeSeries

AxisLabel
Radius MMS1

ValueFormat
e12.5

ScaleMin
0.0

ScaleMax
3.40282e+38

ScaleType
LinearScale

ValidMin
0.0

ValidMax
3.40282e+38

FillValue
-1.0e+31

Support

Qualifier
Magnitude

SupportQuantity
Positional

Parameter #158

Name
Dipole L-Shell

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_l

Description
L-Shell Value, Dipole Approximation

Cadence
PT0.605S

RenderingHints

DisplayType
TimeSeries

AxisLabel
L MMS1

ValueFormat
e12.5

ScaleMin
0.0

ScaleMax
3.40282e+38

ScaleType
LinearScale

ValidMin
0.0

ValidMax
3.40282e+38

FillValue
-1.0e+31

Support

SupportQuantity
Positional

Parameter #159

Name
Spacecraft Latitude (GSE)

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_gse_lat

Description
Spacecraft Latitude in GSE Coordinates

Cadence
PT0.605S

Units
degree

UnitsConversion
0.0174532925>rad

CoordinateSystem

CoordinateRepresentation
Spherical

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

AxisLabel

GSELat MMS1

ValueFormat

e12.5

ScaleMin

-90.0

ScaleMax

90.0

ScaleType

LinearScale

ValidMin

-90.0

ValidMax

90.0

FillValue

-1.0e+31

Support**Qualifier**

DirectionAngle.ElevationAngle

SupportQuantity

Positional

Parameter #160

Name

Spacecraft Longitude (GSE)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_gse_lon

Description

Spacecraft Longitude in GSE Coordinates

Cadence

PT0.605S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

AxisLabel

GSELon MMS1

ValueFormat

e12.5

ScaleMin

-180.0

ScaleMax

180.0

ScaleType

LinearScale

ValidMin

-180.0

ValidMax

180.0

FillValue

-1.0e+31

Support**Qualifier**

DirectionAngle.AzimuthAngle

SupportQuantity

Positional

Parameter #161

Name

Spacecraft Latitude (GSM)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_gsm_lat

Description

Spacecraft Latitude in GSM Coordinates

Cadence

PT0.605S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSM

RenderingHints**DisplayType**

TimeSeries

AxisLabel

GSMLat MMS1

ValueFormat

e12.5

ScaleMin

-90.0

ScaleMax

90.0

ScaleType

LinearScale

ValidMin

-90.0

ValidMax

90.0

FillValue

-1.0e+31

Support**Qualifier**

DirectionAngle.ElevationAngle

SupportQuantity

Positional

Parameter #162

Name

Spacecraft Longitude (GSM)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_gsm_lon

Description

Spacecraft Longitude in GSM Coordinates

Cadence

PT0.605S

Units

degree

UnitsConversion

0.0174532925>rad

CoordinateSystem**CoordinateRepresentation**

Spherical

CoordinateSystemName

GSM

RenderingHints**DisplayType**

TimeSeries

AxisLabel

GSMLon MMS1

ValueFormat

e12.5

ScaleMin

-180.0

ScaleMax

180.0

ScaleType

LinearScale

ValidMin

-180.0

ValidMax

180.0

FillValue

-1.0e+31

Support**Qualifier**

DirectionAngle.AzimuthAngle

SupportQuantity

Positional

Parameter #163

Name

Spacecraft Latitude (SM)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_sm_lat

Description

Spacecraft Latitude in SM Coordinates

Cadence

PT0.605S

Units

degree

UnitsConversion

0.0174532925>rad

RenderingHints**DisplayType**

TimeSeries

AxisLabel

SMLat MMS1

ValueFormat

e12.5

ScaleMin

-90.0

ScaleMax

90.0

ScaleType

LinearScale

ValidMin

-90.0

ValidMax

90.0

FillValue

-1.0e+31

Support**Qualifier**

DirectionAngle.ElevationAngle

SupportQuantity

Positional

Parameter #164

Name

Spacecraft Longitude (SM)

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_sm_lon

Description

Spacecraft Longitude in SM Coordinates

Cadence

PT0.605S

Units

degree

UnitsConversion

0.0174532925>rad

RenderingHints**DisplayType**

TimeSeries

AxisLabel

SMLon MMS1

ValueFormat

e12.5

ScaleMin

-180.0

ScaleMax

180.0

ScaleType

LinearScale

ValidMin

-180.0

ValidMax

180.0

FillValue

-1.0e+31

Support**Qualifier**

DirectionAngle.AzimuthAngle

SupportQuantity

Positional

Parameter #165

Name

Orbit Number

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_orbit_num

Description

Orbit Number

Cadence

PT0.605S

RenderingHints**DisplayType**

TimeSeries

AxisLabel

Orbit MMS1

ValueFormat

e12.5

ScaleMin

-1.79769e+308

ScaleMax

3.40282e+38

ScaleType

LinearScale

ValidMin

-1.79769e+308

ValidMax

3.40282e+38

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #166

Name

Solid State Energy Detector 0 Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_ssd0

Description

Solid State Energy Detector 0 Count Rate, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

TimeSeries

AxisLabel

SSD0 MMS1

ValueFormat

e12.5

ScaleMin

0.0

ScaleMax

3.40282e+38

ValidMin

0.0

ValidMax

3.40282e+38

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #167

Name

Solid State Energy Detector 1 Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_ssd1

Description

Solid State Energy Detector 1 Count Rate, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

TimeSeries

AxisLabel

SSD1 MMS1

ValueFormat

e12.5

ScaleMin

0.0

ScaleMax
3.40282e+38

ValidMin
0.0

ValidMax
3.40282e+38

FillValue
-1.0e+31

Particle

ParticleType
Ion

Qualifier
Differential

ParticleQuantity
CountRate

Parameter #168

Name
Solid State Energy Detector 2 Count Rate

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_ssd2

Description
Solid State Energy Detector 2 Count Rate, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

Units
s⁻¹

RenderingHints

DisplayType
TimeSeries

AxisLabel
SSD2 MMS1

ValueFormat
e12.5

ScaleMin
0.0

ScaleMax
3.40282e+38

ValidMin
0.0

ValidMax
3.40282e+38

FillValue
-1.0e+31

Particle

ParticleType
Ion

Qualifier
Differential

ParticleQuantity
CountRate

Parameter #169

Name
Solid State Energy Detector 3 Count Rate

Set
Time series defined by using: EPOCH

ParameterKey
mms1_epd_eis_brst_extof_ssd3

Description
Solid State Energy Detector 3 Count Rate, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
PT0.605S

Units
s⁻¹

RenderingHints**DisplayType**
TimeSeries**AxisLabel**
SSD3 MMS1**ValueFormat**
e12.5**ScaleMin**
0.0**ScaleMax**
3.40282e+38**ValidMin**
0.0**ValidMax**
3.40282e+38**FillValue**
-1.0e+31**Particle****ParticleType**
Ion**Qualifier**
Differential**ParticleQuantity**
CountRate

Parameter #170

Name

Solid State Energy Detector 4 Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_ssd4

Description

Solid State Energy Detector 4 Count Rate, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**
TimeSeries**AxisLabel**
SSD4 MMS1**ValueFormat**
e12.5**ScaleMin**
0.0**ScaleMax**
3.40282e+38**ValidMin**
0.0**ValidMax**
3.40282e+38**FillValue**
-1.0e+31**Particle****ParticleType**
Ion**Qualifier**
Differential**ParticleQuantity**
CountRate

Parameter #171

Name

Solid State Energy Detector 5 Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_ssd5

Description

Solid State Energy Detector 5 Count Rate, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

s⁻¹

RenderingHints**DisplayType**

TimeSeries

AxisLabel

SSD5 MMS1

ValueFormat

e12.5

ScaleMin

0.0

ScaleMax

3.40282e+38

ValidMin

0.0

ValidMax

3.40282e+38

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #172

Name

Valid Number of Events Processed

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_vep

Description

Number of Valid Electron Events processed and binned by Onboard Processor per second, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Units

s⁻¹

RenderingHints**DisplayType**

TimeSeries

AxisLabel

VEP MMS1

ValueFormat

e12.5

ScaleMin

0.0

ScaleMax

3.40282e+38

ValidMin

0.0

ValidMax

3.40282e+38

FillValue

-1.0e+31

Support**SupportQuantity**

Other

Parameter #173

Name

Start 0 Anode Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_start0anode

Description

Count Rate from all Start Anode Regions, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

TimeSeries

AxisLabel

Start0 MMS1

ValueFormat

e12.5

ScaleMin

0.0

ScaleMax

3.40282e+38

ValidMin

0.0

ValidMax

3.40282e+38

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #174

Name

Stop 0 Anode Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_stop0anode

Description

Count Rate from all Stop Anode Regions, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

TimeSeries

AxisLabel

Stop0 MMS1

ValueFormat

e12.5

ScaleMin

0.0

ScaleMax

3.40282e+38

ValidMin

0.0

ValidMax

3.40282e+38

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #175

Name

Valid Number of Events above Pulse Height by Time-of-Flight Threshold Count Rate

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_pulseheight

Description

Count Rate from all Start Anode Regions that satisfy a Minimum Microchannel Plate (MCP) Pulse Height, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

TimeSeries

AxisLabel

PulseHeight MMS1

ValueFormat

e12.5

ScaleMin

0.0

ScaleMax

3.40282e+38

ValidMin

0.0

ValidMax

3.40282e+38

FillValue

-1.0e+31

Particle**ParticleType**

Ion

Qualifier

Differential

ParticleQuantity

CountRate

Parameter #176

Name

Valid Number of Energy by Time-of-Flight Events

Set

Time series defined by using: EPOCH

ParameterKey

mms1_epd_eis_brst_extof_vtofxxe

Description

Number of Valid Energy by Time-of-Flight (ExTOF) Events per second, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence

PT0.605S

Unitss⁻¹**RenderingHints****DisplayType**

TimeSeries

AxisLabel

VTOFxEE MMS1

ValueFormat

e12.5
ScaleMin
 0.0
ScaleMax
 3.40282e+38

ValidMin
 0.0

ValidMax
 3.40282e+38

FillValue
 -1.0e+31

Support

SupportQuantity
 Other

Parameter #177

Name
 Valid Number of Pulse Height by Time-of-Flight Events

Set
 Time series defined by using: EPOCH

ParameterKey
 mms1_epd_eis_brst_extof_vtfxphe

Description
 Number of Valid Pulse Height by Time-of-Flight (PHxTOF) Events per second, Energy by Time-of-Flight (ExTOF) Burst Data

Cadence
 PT0.605S

Units
 s⁻¹

RenderingHints

DisplayType
 TimeSeries

AxisLabel
 VTOFXPHE MMS1

ValueFormat
 e12.5

ScaleMin
 0.0

ScaleMax
 3.40282e+38

ValidMin
 0.0

ValidMax
 3.40282e+38

FillValue
 -1.0e+31

Support

SupportQuantity
 Other