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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 Flux Gate Magnetometer (FGM) DC Magnetic Field, Level 2 (L2), Burst Mode, 128 Sample/s, v4/5 Data

Russell, C.T., Magnes, W., Wei, H., Bromund, K.R., Plaschke, F., Fischer, D., Strangeway, R.J., Leinweber, H.K., Eichelberger, H.U., Huang, B., Le, G., and Burch, J.L. (2022). MMS 1 Flux Gate Magnetometer (FGM) DC Magnetic Field, Level 2 (L2), Burst Mode, 128 Sample/s, v4/5 Data [Data set]. NASA Space Physics Data Facility.

<https://doi.org/10.48322/pj0n-m695>. Accessed on 2023-April-5.

ResourceID

spase://NASA/NumericalData/MMS/1/FIELDS/FGM/Burst/Level2/PT0.0078125S

Description

The Fluxgate Magnetometers (FGM) on Magnetospheric Multiscale consist of a traditional Analog Fluxgate Magnetometer (AFG) and a Digital Fluxgate magnetometer (DFG). The dual magnetometers are operated as a single instrument providing a single intercalibrated data product. Range changes occur at different times on the two instruments so the gains checked each periapsis can be carried out unambiguously to apoapsis. Cross correlation of calibration parameters can separate causes of the any apparent calibration changes. Use of Electron Drift Instrument (EDI) to determine the field along the rotation axis allows accurate monitoring of the zero levels along the rotation axis. Prior to launch the magnetometers were calibrated at the Technical University, Braunschweig, except for the AFG magnetometers on MMS3 and MMS4, which were calibrated at UCLA. Both sets of sensors are operated for the entire MMS orbit, with slow survey (8 samples per second) outside of the Region of Interest (ROI), and fast survey (16 samples per second) inside the ROI. Within the ROI, burst mode data (128 samples per second) are also acquired. A detailed description of the MMS fluxgate magnetometers, including science objectives, instrument description, calibration, magnetic cleanliness program, and data flow can be found at <http://link.springer.com/article/10.1007%2Fs11214-014-0057-3> (DOI 10.1007/s11214-014-0057-3). Additional information can also be found at <http://www-spc.igpp.ucla.edu/ssc/mms> (UCLA), and <http://www.iwf.oeaw.ac.at/de/forschung/erdnahe-weltraum/mms/dfg> (IWF, Graz). For the purpose of creating a unified FGM Level 2 data product, burst mode data is taken from DFG and survey mode data is taken from AFG. Because AFG and DFG are cross-calibrated on an orbit-averaged basis, small differences in offset may be observed between Level 2 burst and survey mode data. Consequently, any differences are within the error of the measurement. Based on preliminary analysis of the data, the absolute error within the Region of Interest (ROI) is estimated to be no more than 0.1 nT in the spin-plane, 0.15 nT along the spin-axis and 0.2 nT in total magnitude.

Details

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

Version: 2.5.0

NumericalData**ResourceID**

spase://NASA/NumericalData/MMS/1/FIELDS/FGM/Burst/Level2/PT0.0078125S

ResourceHeader**ResourceName**

MMS 1 Flux Gate Magnetometer (FGM) DC Magnetic Field, Level 2 (L2), Burst Mode, 128 Sample/s, v4/5 Data

AlternateName

MMS1_FGM_BRST_L2

DOI

<https://doi.org/10.48322/pj0n-m695>

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 FGM team, metadata updated to SPASE 2.5.0, reviewed by LFB 20230304

Description

The Fluxgate Magnetometers (FGM) on Magnetospheric Multiscale consist of a traditional Analog Fluxgate Magnetometer (AFG) and a Digital Fluxgate magnetometer (DFG). The dual magnetometers are operated as a single instrument providing a single intercalibrated data product. Range changes occur at different times on the two instruments so the gains checked each periapsis can be carried out unambiguously to apoapsis. Cross correlation of calibration parameters can separate causes of the any apparent calibration changes. Use of Electron Drift Instrument (EDI) to determine the field along the rotation axis allows accurate monitoring of the zero levels along the rotation axis. Prior to launch the magnetometers were calibrated at the Technical University, Braunschweig, except for the AFG magnetometers on MMS3 and MMS4, which were calibrated at UCLA. Both sets of sensors are operated for the entire MMS orbit, with slow survey (8 samples per second) outside of the Region of Interest (ROI), and fast survey (16 samples per second) inside the ROI. Within the ROI, burst mode data (128 samples per second) are also acquired. A detailed description of the MMS fluxgate magnetometers, including science objectives, instrument description, calibration, magnetic cleanliness program, and data flow can be found at <http://link.springer.com/article/10.1007%2Fs11214-014-0057-3> (DOI 10.1007/s11214-014-0057-3). Additional information can also be found at <http://www-spc.igpp.ucla.edu/ssc/mms> (UCLA), and <http://www.iwf.oeaw.ac.at/de/forschung/erdnahe-weltraum/mms/dfg> (IWF, Graz). For the purpose of creating a unified FGM Level 2 data product, burst mode data is taken from DFG and survey mode data is taken from AFG. Because AFG and DFG are cross-calibrated on an orbit-averaged basis, small differences in offset may be observed between Level 2 burst and survey mode data. Consequently, any differences are within the error of the measurement. Based on preliminary analysis of the data, the absolute error within the Region of Interest (ROI) is estimated to be no more than 0.1 nT in the spin-plane, 0.15 nT along the spin-axis and 0.2 nT in total magnitude.

Acknowledgement

Please acknowledge C.T. Russell, W. Magnes, H. Wei, K.R. Bromund, F. Plaschke, D. Fischer, R.J. Strangeway, H.K. Leinweber, H.U. Eichelberger, B.G. Huang, G. Lu, and J.L. Burch for use of these data

PublicationInfo**Authors**

Russell, Christopher, T.; Magnes, Werner; Wei, Hanying; Bromund, Kenneth, R.; Plaschke, Ferdinand; Fischer, David; Strangeway, Robert, J.; Leinweber, Hannes, Karl; Eichelberger, Hans, Ulrich; Huang, B.G.; Le, Guan; Burch, James, L.

PublicationDate

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Contacts

	Role	Person	StartDate	StopDate	Note
1.	InstrumentLead CoInvestigator	spase://SMWG/Person/Christopher.T.Russell			

2. InstrumentLead CoInvestigator	spase://SMWG/Person/Werner.Magnes
3. Contributor Scientist	spase://SMWG/Person/Hanying.Wei
4. Contributor TechnicalContact	spase://SMWG/Person/Kenneth.R.Bromund
5. Contributor Scientist	spase://SMWG/Person/Ferdinand.Plaschke
6. Contributor InstrumentScientist	spase://SMWG/Person/David.Fischer
7. Contributor Scientist	spase://SMWG/Person/Robert.J.Strangeway
8. InstrumentScientist	spase://SMWG/Person/Hannes.Karl.Leinweber
9. Contributor Scientist	spase://SMWG/Person/Hans.Ulrich.Eichelberger
10. InstrumentScientist	spase://SMWG/Person/B.G.Huang
11. Scientist	spase://SMWG/Person/Guan.Le
12. PrincipalInvestigator	spase://SMWG/Person/James.L.Burch
13. HostContact	spase://SMWG/Person/MMS_SDC_POC
14. MetadataContact	spase://SMWG/Person/Robert.M.Candey
15. MetadataContact	spase://SMWG/Person/Lee.Frost.Bargatze

InformationURL**Name**

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

URL

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

Description

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

InformationURL**Name**

Data Caveats and Current Release Notes at LASP MMS SDC

URL

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

Description

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

InformationURL**Name**

The MMS Graz FGM Team home page at IWF, OAW

URL

<https://www.oeaw.ac.at/en/iwf/forschung/weltraummissionen/laufende-missionen/mms/dfg>

Description

The Magnetospheric Multiscale (MMS) Flux Gate Magnetometer (FGM) home page hosted by the Institut für Weltraumforschung (IWF), Österreichische Akademie der Wissenschaften (OAW).

PriorIDs

<spase://VSPO/NumericalData/MMS/1/FIELDS/FGM/Burst/Level2/PT0.0078125S>

AccessInformation**RepositoryID**

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

Availability

Online

AccessRights

Open

AccessURL**Name**

FTPS from the MMS SDC (not with most browsers)

URL

<https://lasp.colorado.edu/mms/sdc/public/data/mms1/fgm/brst/l2/>

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/fgm/brst/l2/>

Description

In CDF via http from the MMS Science Data Center

Format

CDF

Encoding

None

Acknowledgement

Please acknowledge C.T. Russell, W. Magnes, H. Wei, K.R. Bromund, F. Plaschke, D. Fischer, R.J. Strangeway, H.K. Leinweber, H.U. Eichelberger, B.G. Huang, G. Lu, and J.L. Burch. Also please acknowledge the data providers and CDAWeb when using these data.

AccessInformation**RepositoryID**

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

Availability

Online

AccessRights

Open

AccessURL**Name**

FTPS from SPDF (not with most browsers)

URL

<https://spdf.gsfc.nasa.gov/pub/data/mms/mms1/fgm/brst/l2/>

Description

In CDF via ftp from SPDF

AccessURL**Name**

HTTPS from SPDF

URL

<https://spdf.gsfc.nasa.gov/pub/data/mms/mms1/fgm/brst/l2/>

Description

In CDF via http from SPDF

AccessURL**Name**

CDAWeb

URL

https://cdaweb.gsfc.nasa.gov/cgi-bin/eval2.cgi?dataset=MMS1_FGM_BRST_L2&index=sp_phys

ProductKey

MMS1_FGM_BRST_L2

Description

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

Format

CDF

Encoding

None

Acknowledgement

Please acknowledge C.T. Russell, W. Magnes, H. Wei, K.R. Bromund, F. Plaschke, D. Fischer, R.J. Strangeway, H.K. Leinweber, H.U. Eichelberger, B.G. Huang, G. Lu, and J.L. Burch. Also please acknowledge the data providers and CDAWeb when using these data.

AccessInformation**RepositoryID**

[spase://SMWG/Repository/NASA/GSFC/SPDF/CDAWeb](https://smwg/repository/nasa/gsfcdaweb)

Availability

Online

AccessRights

Open

AccessURL**Name**

CDAWeb HAPI Server

URL

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

Style

HAPI

ProductKey

MMS1_FGM_BRST_L2

Description

Web Service to this product using the HAPI interface

Format

CSV

Acknowledgement

Please acknowledge C.T. Russell, W. Magnes, H. Wei, K.R. Bromund, F. Plaschke, D. Fischer, R.J. Strangeway, H.K. Leinweber, H.U. Eichelberger, B.G. Huang, G. Lu, and J.L. Burch. Also please acknowledge the data providers and CDAWeb when using these data.

ProcessingLevel

Calibrated

InstrumentIDs

[spase://SMWG/Instrument/MMS/1/FIELDS/FGM](https://smwg/instrument/mms/1/fields/fgm)

MeasurementType

MagneticField

TemporalDescription**TimeSpan****StartDate**

2015-09-01 12:11:14

RelativeStopDate

-P2M

Cadence

PT0.0078125S

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

Interval centered time tag (TBC)

Caveats

This parameter exhibits an increasing monotonic progression.

Cadence

PT0.0078125S

Units

ns

UnitsConversion

1.0e-9>s

RenderingHints**AxisLabel**

mms1_fgm_brst_Epoch

ScaleType

LinearScale

ValidMin

2010-01-01T00:00:00.000000000

ValidMax

2030-01-01T00:00:00.999000000

FillValue

9999-12-31T23:59:59.999999999

Support**SupportQuantity**

Temporal

Parameter #2

Name

mms1_fgm_b_gse_brst_l2

Set

Time series defined by using: EPOCH

ParameterKey

mms1_fgm_b_gse_brst_l2

Description

Magnetic field vector in Geocentric Solar Ecliptic (GSE) cartesian coordinates plus Btotal (128 samples/s)

Cadence

PT0.0078125S

Units

nT

UnitsConversion

1.0e-9>T

CoordinateSystem**CoordinateRepresentation**

Cartesian

CoordinateSystemName

GSE

RenderingHints**DisplayType**

TimeSeries

ValueFormat

e13.5

ScaleType
LinearScale

Structure**Size**

4

Element**Name**

Bx GSE

Index

1

ValidMin

-20000.0

Element**Name**

By GSE

Index

2

ValidMin

-20000.0

Element**Name**

Bz GSE

Index

3

ValidMin

-20000.0

Element**Name**

Bt

Index

4

ValidMin

0.0

ValidMax
20000.0

FillValue
-1.0e+31

Field**Qualifier**

Vector

FieldQuantity

Magnetic

Parameter #3

Name

mms1_fgm_b_gsm_brst_l2

Set

Time series defined by using: EPOCH

ParameterKey

mms1_fgm_b_gsm_brst_l2

Description

Magnetic field vector in Geocentric Solar Magnetospheric (GSM) cartesian coordinates plus Btotal (128 samples/s)

Cadence

PT0.0078125S

Units

nT

UnitsConversion

1.0e-9>T

CoordinateSystem**CoordinateRepresentation**

Cartesian

CoordinateSystemName

GSM

RenderingHints**DisplayType**

TimeSeries

ValueFormat

e13.5

ScaleType

LinearScale

Structure**Size**

4

Element**Name**

Bx GSM

Index

1

ValidMin

-20000.0

Element**Name**

By GSM

Index

2

ValidMin

-20000.0

Element**Name**

Bz GSM

Index

3

ValidMin

-20000.0

Element**Name**

Bt

Index

4

ValidMin

0.0

ValidMax

20000.0

FillValue

-1.0e+31

Field**Qualifier**

Vector

FieldQuantity

Magnetic

Parameter #4

Name	mms1_fgm_b_dmpa_brst_l2
Set	Time series defined by using: EPOCH
ParameterKey	mms1_fgm_b_dmpa_brst_l2
Description	Magnetic field vector in Despun MPA-aligned cartesian coordinates plus Btotal (128 samples/s)
Caveats	During nominal operations in the region of interest, DMPA is within 3 degrees of GSE.
Cadence	PT0.0078125S
Units	nT
UnitsConversion	1.0e-9>T
CoordinateSystem	
CoordinateRepresentation	Cartesian
CoordinateSystemName	GSE
RenderingHints	
DisplayType	TimeSeries
ValueFormat	e13.5
ScaleType	LinearScale
Structure	
Size	4
Element	
Name	Bx DMPA
Index	1
ValidMin	-20000.0
Element	
Name	By DMPA
Index	2
ValidMin	-20000.0
Element	
Name	Bz DMPA
Index	3
ValidMin	-20000.0
Element	
Name	Bt
Index	4

ValidMin
0.0

ValidMax
20000.0

FillValue
-1.0e+31

Field

Qualifier
Vector

FieldQuantity
Magnetic

Parameter #5

Name
mms1_fgm_b_bcs_brst_I2

Set
Time series defined by using: EPOCH

ParameterKey
mms1_fgm_b_bcs_brst_I2

Description
Magnetic field vector in Body Coordinate System cartesian coordinates plus Btotal (128 samples/s)

Cadence
PT0.0078125S

Units
nT

UnitsConversion
1.0e-9>T

CoordinateSystem

CoordinateRepresentation
Cartesian

CoordinateSystemName
SC

RenderingHints

DisplayType
TimeSeries

ValueFormat
e13.5

ScaleType
LinearScale

Structure

Size
4

Element

Name
Bx BCS

Index
1

ValidMin
-20000.0

Element

Name
By BCS

Index
2

ValidMin
-20000.0

Element**Name**

Bz BCS

Index

3

ValidMin

-20000.0

Element**Name**

Bt

Index

4

ValidMin

0.0

ValidMax

20000.0

FillValue

-1.0e+31

Field**Qualifier**

Vector

FieldQuantity

Magnetic

Parameter #6

Name

mms1_fgm_flag_burst_I2

Set

Time series defined by using: EPOCH

ParameterKey

mms1_fgm_flag_burst_I2

Description

Data quality flag: 0=No identified problems, non-zero=blank out the data

Caveats

bit definitions: 0: TBD, 1: TBD, 2: user flagged, 3: TBD, 4: B1 saturated, 5: B2 saturated, 6: B3 saturated, 7: range-change glitch, 8-31: TBD

Cadence

PT0.0078125S

RenderingHints**AxisLabel**

mms1_fgm_flag_burst_I2

ValueFormat

z10.8

ScaleType

LinearScale

ValidMin

0

ValidMax

4294967281

FillValue

4294967295

Support**SupportQuantity**

InstrumentMode

Parameter #7

Name	Epoch_state
ParameterKey	Epoch_state
Description	Default time
Caveats	This parameter exhibits an increasing monotonic progression.
Cadence	PT0.0078125S
Units	ns
UnitsConversion	1.0e-9>s
RenderingHints	
AxisLabel	Epoch_state
ScaleType	LinearScale
ValidMin	1990-01-01T00:00:00.000000000
ValidMax	2030-01-01T00:00:00.999000000
FillValue	9999-12-31T23:59:59.999999999
Support	
SupportQuantity	Temporal

Parameter #8

Name	mms1_fgm_r_gse_brst_l2
Set	Time series defined by using: EPOCH_STATE
ParameterKey	mms1_fgm_r_gse_brst_l2
Description	Definitive position in GSE coordinates, 30-s time resolution
Cadence	PT0.0078125S
Units	km
UnitsConversion	1.0e3>m
CoordinateSystem	
CoordinateRepresentation	Cartesian
CoordinateSystemName	GSE
RenderingHints	
DisplayType	TimeSeries
ValueFormat	e12.2
ScaleType	LinearScale
Structure	

Size

4

Element**Name**

X GSE

Index

1

Element**Name**

Y GSE

Index

2

Element**Name**

Z GSE

Index

3

Element**Name**

R

Index

4

ValidMin

-1.0e+06

ValidMax

1.0e+06

FillValue

-1.0e+31

Support**Qualifier**

Vector

SupportQuantity

Positional

Parameter #9

Name

mms1_fgm_r_gsm_brst_l2

Set

Time series defined by using: EPOCH_STATE

ParameterKey

mms1_fgm_r_gsm_brst_l2

Description

Definitive position in GSM coordinates, 30-s time resolution

Cadence

PT0.0078125S

Units

km

UnitsConversion

1.0e3>m

CoordinateSystem**CoordinateRepresentation**

Cartesian

CoordinateSystemName

GSM

RenderingHints**DisplayType**

TimeSeries
ValueFormat e12.2
ScaleType LinearScale
Structure
Size 4
Element
Name X GSM
Index 1
Element
Name Y GSM
Index 2
Element
Name Z GSM
Index 3
Element
Name R
Index 4
ValidMin -1.0e+06
ValidMax 1.0e+06
FillValue -1.0e+31
Support
Qualifier Vector
SupportQuantity Positional

Parameter #10

Name mms1_fgm_hirange_burst_I2
Set Time series defined by using: EPOCH
ParameterKey mms1_fgm_hirange_burst_I2
Description Magnetic field range setting: 1=High Range, 0=Low Range
Cadence PT0.0078125S
RenderingHints
AxisLabel mms1_fgm_hirange_burst_I2
ValueFormat i5

ScaleType
LinearScale

ValidMin
0

ValidMax
2

FillValue
255

Support

Qualifier
Median

SupportQuantity
Other

Parameter #11

Name
mms1_fgm_bdeltahalf_brst_l2

Set
Time series defined by using: EPOCH

ParameterKey
mms1_fgm_bdeltahalf_brst_l2

Description
Delta from center time to sample start/finish

Cadence
PT0.0078125S

Units
s

UnitsConversion
1>s

RenderingHints
AxisLabel
mms1_fgm_bdeltahalf_brst_l2

ValueFormat
e13.5

ValidMin
0.001

ValidMax
1.0

FillValue
-1.0e+31

Support

Qualifier
Median

SupportQuantity
Temporal

Parameter #12

Name
mms1_fgm_stemp_brst_l2

Set
Time series defined by using: EPOCH

ParameterKey
mms1_fgm_stemp_brst_l2

Description
Sensor temperature smoothed four times with 6-pt boxcar filter (/edge_truncate), linear interpolated to mag times, then smoothed with a 1279-pt boxcar

Caveats

Sensor Temperature smoothed four times with 6-pt boxcar filter (/edge_truncate), linear interpolated to mag times, then smoothed with 1279-pt boxcar, t_maxgap=240, t_bmaxgap=240.

Cadence

PT0.0078125S

Units

°C

UnitsConversion

1>s^-1

RenderingHints**AxisLabel**

mms1_fgm_stemp_brst_l2

ValueFormat

e13.5

ScaleType

LinearScale

ValidMin

-1000.0

ValidMax

1000.0

FillValue

NaN

Support**Qualifier**

Scalar

SupportQuantity

Other

Parameter #13

Name

mms1_fgm_etemp_brst_l2

Set

Time series defined by using: EPOCH

ParameterKey

mms1_fgm_etemp_brst_l2

Description

Electronics temperature smoothed four times with 6-pt boxcar filter (/edge_truncate), linear interpolated to mag times, then smoothed with a 1279-pt boxcar

Caveats

Electronics Temperature smoothed four times with 6-pt boxcar filter (/edge_truncate), linear interpolated to mag times, then smoothed with 1279-pt boxcar, t_maxgap=240, t_bmaxgap=240.

Cadence

PT0.0078125S

Units

°C

RenderingHints**AxisLabel**

mms1_fgm_etemp_brst_l2

ValueFormat

e13.5

ScaleType

LinearScale

ValidMin

-1000.0

ValidMax

1000.0

FillValue

NaN

Support**Qualifier**

Scalar

SupportQuantity

Other

Parameter #14

Name

mms1_fgm_mode_brst_l2

Set

Time series defined by using: EPOCH

ParameterKey

mms1_fgm_mode_brst_l2

Description

Median rate (samples/s) of the current instrument mode. This rate is not necessarily equal to the rate of the L2 data, which may have been downsampled.

Caveats

8=slow, 16=fast, 128=f128. Note that 128 samples/s L1A data is decimated to 16 samples/s in srvy L1B

Cadence

PT0.0078125S

Unitss⁻¹**RenderingHints****AxisLabel**

mms1_fgm_mode_brst_l2

ValueFormat

e13.5

ValidMin

2.0

ValidMax

200.0

FillValue

-1.0e+31

Support**SupportQuantity**

InstrumentMode

Parameter #15

Name

mms1_fgm_rdeltahalf_brst_l2

Set

Time series defined by using: EPOCH_STATE

ParameterKey

mms1_fgm_rdeltahalf_brst_l2

Description

One half of the median delta between ephemeris samples

Cadence

PT0.0078125S

Units

s

UnitsConversion

1>s

RenderingHints**AxisLabel**

mms1_fgm_rdeltahalf_brst_l2

ValueFormat
e13.5

ValidMin
1.0

ValidMax
100.0

FillValue
-1.0e+31

Support

Qualifier
Median

SupportQuantity
Temporal