APPENDIX A: CCMC simulations used in this study

17 September 2000: Sean_Blake_042619_1

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20180525
Title/Introduction:	2000_09_17
Key Word:	2000_09_17

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2000/09/17 00:00
End Time:	2000/09/19 00:00
Dipole Tilt at Start in X-Z Plane:	-1.36 °
Dipole Tilt in Y-Z GSE Plane:	-13.53 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	1M cells overview
Coordinate System for the Output:	GSM
Solar wind input source:	OMNI
Ring current model:	RCM

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	8.60100 n/cc
SW Temperature:	85661.90000 Kelvin
X Component of SW Velocity:	-404.30000 km/s
Y Component of SW Velocity:	-22.19500 km/s
Z Component of SW Velocity:	-36.62300 km/s
IMF Bx:	0.00000 nT
IMF By:	12.09100 nT

IMF Bz:	-7.35700 nT
IMF |B|:	14.15000 nT
IMF Clock Angle:	121.32000 °

Magnetosphere Run Parameters:

GM solver:	Sokolov
GM limiter name:	mc3
GM limiter beta:	1.2
GM implicit:	part-implicit
GM timestep:	5.0
GM Boris clight factor:	0.01

20 April 2002: Sean_Blake_040519_6

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20180525
Title/Introduction:	2002_04_20
Key Word:	2002_04_20

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2002/04/19 00:00
End Time:	2002/04/20 12:00
Dipole Tilt at Start in X-Z Plane:	8.83 °
Dipole Tilt in Y-Z GSE Plane:	30.72 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	1M cells overview
Coordinate System for the Output:	GSM
Solar wind input source:	OMNI
Ring current model:	RCM

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	0.74000 n/cc
SW Temperature:	15668.40000 Kelvin
X Component of SW Velocity:	-453.81100 km/s
Y Component of SW Velocity:	-2.99500 km/s
Z Component of SW Velocity:	-21.43800 km/s
IMF Bx:	0.00000 nT
IMF By:	-10.58100 nT
IMF Bz:	-4.37800 nT
IMF |B|:	11.45000 nT
IMF Clock Angle:	-112.48000 °

Magnetosphere Run Parameters:

GM solver:	Sokolov
GM limiter name:	mc3
GM limiter beta:	1.2
GM implicit:	part-implicit
GM timestep:	5.0
GM Boris clight factor:	0.01

23 May 2002: Luning_Xu_060519_5

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20180525
Title/Introduction:	Event 5
Key Word:	23-May-02

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2002/05/23 04:00
End Time:	2002/05/25 21:00
Dipole Tilt at Start in X-Z Plane:	10.64 °
Dipole Tilt in Y-Z GSE Plane:	13.52 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	1M cells overview
Coordinate System for the Output:	GSM
Solar wind input source:	OMNI
Ring current model:	RCM

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	17.79800 n/cc
SW Temperature:	25891.30000 Kelvin
X Component of SW Velocity:	-402.37200 km/s
Y Component of SW Velocity:	4.78500 km/s
Z Component of SW Velocity:	-42.79700 km/s
IMF Bx:	-6.21000 nT
IMF By:	9.87300 nT
IMF Bz:	4.14400 nT
IMF |B|:	10.71000 nT
IMF Clock Angle:	67.23000 °

Magnetosphere Run Parameters:

GM solver:	Sokolov
GM limiter name:	mc3
GM limiter beta:	1.2
GM implicit:	part-implicit
GM timestep:	5.0
GM Boris clight factor:	0.01

7-8 September 2002: Sean_Blake_040519_3

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20180525
Title/Introduction:	2002_09_07
Key Word:	2002_09_07

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2002/09/07 12:00
End Time:	2002/09/08 12:00
Dipole Tilt at Start in X-Z Plane:	10.95 °
Dipole Tilt in Y-Z GSE Plane:	-32.61 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	1M cells overview
Coordinate System for the Output:	GSM
Solar wind input source:	OMNI
Ring current model:	RCM

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	5.14500 n/cc
SW Temperature:	12737.60000 Kelvin
X Component of SW Velocity:	-355.54000 km/s
Y Component of SW Velocity:	-25.42300 km/s
Z Component of SW Velocity:	-3.82700 km/s
IMF Bx:	0.00000 nT
IMF By:	3.93100 nT
IMF Bz:	-3.63600 nT
IMF |B|:	5.35000 nT
IMF Clock Angle:	132.77000 °

Magnetosphere Run Parameters:

GM solver:	Sokolov
GM limiter name:	mc3
GM limiter beta:	1.2
GM implicit:	part-implicit
GM timestep:	5.0
GM Boris clight factor:	0.01

29 May 2003: Luning_Xu_061419_6

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20180525
Title/Introduction:	Event 6
Key Word:	29-May-03

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2003/05/29 05:00
End Time:	2003/05/31 08:00
Dipole Tilt at Start in X-Z Plane:	11.39 °
Dipole Tilt in Y-Z GSE Plane:	8.72 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	1M cells overview
Coordinate System for the Output:	GSM
Solar wind input source:	OMNI
Ring current model:	RCM

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	1.85000 n/cc
SW Temperature:	93325.70000 Kelvin
X Component of SW Velocity:	-622.92200 km/s
Y Component of SW Velocity:	-1.93800 km/s
Z Component of SW Velocity:	34.14000 km/s
IMF Bx:	2.18000 nT
IMF By:	-2.86200 nT
IMF Bz:	-0.41700 nT
IMF |B|:	2.89000 nT
IMF Clock Angle:	-98.29000 °

Magnetosphere Run Parameters:

GM solver:	Sokolov
GM limiter name:	mc3
GM limiter beta:	1.2
GM implicit:	part-implicit
GM timestep:	5.0
GM Boris clight factor:	0.01

2 May 2010: Pelin_Erdemir_021419_1

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20180525
Title/Introduction:	Joule Heating
Key Word:	Joule Heating

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2010/05/02 00:00
End Time:	2010/05/04 00:00
Dipole Tilt at Start in X-Z Plane:	13.41 °
Dipole Tilt in Y-Z GSE Plane:	27.64 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	1M cells overview
Coordinate System for the Output:	GSM
Solar wind input source:	WIND
Ring current model:	CRCM

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	7.59100 n/cc
SW Temperature:	25170.30000 Kelvin
X Component of SW Velocity:	-317.23300 km/s
Y Component of SW Velocity:	-30.42000 km/s
Z Component of SW Velocity:	-13.65200 km/s
IMF Bx:	0.00000 nT
IMF By:	2.10800 nT
IMF Bz:	1.25600 nT
IMF |B|:	2.45000 nT
IMF Clock Angle:	59.21000 °

Magnetosphere Run Parameters:

GM solver:	Sokolov
GM limiter name:	mc3
GM limiter beta:	1.2
GM implicit:	part-implicit
GM timestep:	5.0
GM Boris clight factor:	0.01

5-6 August 2011: Sean_Blake_042619_4

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20180525
Title/Introduction:	2011_08_05
Key Word:	2011_08_05

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2011/08/05 00:00
End Time:	2011/08/07 00:00
Dipole Tilt at Start in X-Z Plane:	14.23 °
Dipole Tilt in Y-Z GSE Plane:	-6.46 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	1M cells overview
Coordinate System for the Output:	GSM
Solar wind input source:	OMNI
Ring current model:	RCM

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	4.75000 n/cc
SW Temperature:	170137.00000 Kelvin
X Component of SW Velocity:	-410.00000 km/s
Y Component of SW Velocity:	-34.47500 km/s
Z Component of SW Velocity:	-91.87500 km/s
IMF Bx:	0.00000 nT
IMF By:	-0.37600 nT
IMF Bz:	-7.43300 nT
IMF |B|:	7.44000 nT
IMF Clock Angle:	-177.10000 °

Magnetosphere Run Parameters:

GM solver:	Sokolov
GM limiter name:	mc3
GM limiter beta:	1.2
GM implicit:	part-implicit
GM timestep:	5.0
GM Boris clight factor:	0.01

26 September 2011: Pauline_Dredger_082321_1

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20180525
Title/Introduction:	Magnetopause Motion
Key Word:	magnetopause ring current

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2011/09/26 07:00
End Time:	2011/09/26 19:00
Dipole Tilt at Start in X-Z Plane:	-10.54 °
Dipole Tilt in Y-Z GSE Plane:	-29.10 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	1M cells overview
Coordinate System for the Output:	GSM
Solar wind input source:	OMNI
Ring current model:	RCM

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	13.38500 n/cc
SW Temperature:	74214.70000 Kelvin
X Component of SW Velocity:	-340.43200 km/s
Y Component of SW Velocity:	-4.08100 km/s
Z Component of SW Velocity:	13.66100 km/s
IMF Bx:	0.00000 nT
IMF By:	1.40200 nT
IMF Bz:	6.42900 nT
IMF |B|:	6.58000 nT
IMF Clock Angle:	12.30000 °

Magnetosphere Run Parameters:

GM solver:	Sokolov
GM limiter name:	mc3
GM limiter beta:	1.2
GM implicit:	part-implicit
GM timestep:	2.0
GM Boris clight factor:	0.01

22 January 2012: Diptiranjan_Rout_060919_1

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20180525
Title/Introduction:	Solar wind pressure
Key Word:	FAC and Electric field

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2012/01/22 00:00
End Time:	2012/01/22 23:44
Dipole Tilt at Start in X-Z Plane:	-23.78 °
Dipole Tilt in Y-Z GSE Plane:	23.00 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	1M cells overview
Coordinate System for the Output:	GSM
Solar wind input source:	OMNI

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	12.17700 n/cc
SW Temperature:	14859.60000 Kelvin
X Component of SW Velocity:	-331.78300 km/s
Y Component of SW Velocity:	-6.09500 km/s
Z Component of SW Velocity:	-17.36900 km/s
IMF Bx:	0.00000 nT
IMF By:	-8.38000 nT
IMF Bz:	8.72000 nT
IMF |B|:	12.09000 nT
IMF Clock Angle:	-43.86000 °

Magnetosphere Run Parameters:

GM solver:	Sokolov
GM limiter name:	mc3
GM limiter beta:	1.2
GM implicit:	part-implicit
GM timestep:	5.0
GM Boris clight factor:	0.01

24 January 2012: Joaquin_Diaz_011221_1

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20180525
Title/Introduction:	Batsrus run for Jan2012
Key Word:	Batsrus with RCM

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2012/01/24 00:00
End Time:	2012/01/24 23:59
Dipole Tilt at Start in X-Z Plane:	-23.38 °
Dipole Tilt in Y-Z GSE Plane:	23.68 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	high-resolution grid with 9,623,552 cells
Coordinate System for the Output:	GSM
Solar wind input source:	OMNI
Ring current model:	RCM

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	3.29000 n/cc
SW Temperature:	16312.00000 Kelvin
X Component of SW Velocity:	-403.40000 km/s
Y Component of SW Velocity:	-12.66200 km/s
Z Component of SW Velocity:	8.97600 km/s
IMF Bx:	0.00000 nT
IMF By:	-3.27000 nT
IMF Bz:	-5.74000 nT
IMF |B|:	6.61000 nT
IMF Clock Angle:	-150.33000 °

Magnetosphere Run Parameters:

GM solver:	Rusanov
GM limiter name:	mc3
GM limiter beta:	1
GM implicit:	explicit
GM Boris clight factor:	0.01

15 July 2012: Antti_Lakka_070918_1

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20140611
Title/Introduction:	July 2012 ICME
Key Word:	ICME

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2012/07/14 07:00
End Time:	2012/07/17 15:00
Dipole Tilt at Start in X-Z Plane:	13.52 °
Dipole Tilt in Y-Z GSE Plane:	-14.52 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	1M cells overview
Coordinate System for the Output:	GSM
Solar wind input source:	OMNI
Ring current model:	RCM

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	4.62400 n/cc
SW Temperature:	11841.10000 Kelvin
X Component of SW Velocity:	-316.57300 km/s
Y Component of SW Velocity:	8.71300 km/s
Z Component of SW Velocity:	3.40200 km/s
IMF Bx:	0.00000 nT
IMF By:	-1.97300 nT
IMF Bz:	-0.01100 nT
IMF |B|:	1.97000 nT
IMF Clock Angle:	-90.32000 °

Magnetosphere Run Parameters:

GM solver:	Sokolov
GM limiter name:	mc3
GM limiter beta:	1.2
GM implicit:	part-implicit
GM timestep:	5.0
GM Boris clight factor:	0.01

8-9 October 2012: Sean_Blake_042619_7

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20180525
Title/Introduction:	2012_10_08
Key Word:	2012_10_08

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2012/10/07 20:00
End Time:	2012/10/09 06:00
Dipole Tilt at Start in X-Z Plane:	0.38 °
Dipole Tilt in Y-Z GSE Plane:	-15.15 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	1M cells overview
Coordinate System for the Output:	GSM
Solar wind input source:	OMNI
Ring current model:	RCM

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	4.32900 n/cc
SW Temperature:	17689.10000 Kelvin
X Component of SW Velocity:	-329.49800 km/s
Y Component of SW Velocity:	-12.20300 km/s
Z Component of SW Velocity:	2.77000 km/s
IMF Bx:	0.00000 nT
IMF By:	4.87100 nT
IMF Bz:	-5.96700 nT
IMF |B|:	7.70000 nT
IMF Clock Angle:	140.77000 °

Magnetosphere Run Parameters:

GM solver:	Sokolov
GM limiter name:	mc3
GM limiter beta:	1.2
GM implicit:	part-implicit
GM timestep:	5.0
GM Boris clight factor:	0.01

1 November 2012: Siyuan_Wu_090319_2

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20180525
Title/Introduction:	Four day duration
Key Word:	Storm20121101

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2012/10/31 00:00
End Time:	2012/11/03 00:00
Dipole Tilt at Start in X-Z Plane:	-17.80 °
Dipole Tilt in Y-Z GSE Plane:	-9.30 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	2M cells
Coordinate System for the Output:	GSM
Solar wind input source:	OMNI
Ring current model:	RCM

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	8.05200 n/cc
SW Temperature:	40781.60000 Kelvin
X Component of SW Velocity:	-280.62500 km/s
Y Component of SW Velocity:	16.22800 km/s
Z Component of SW Velocity:	12.14900 km/s
IMF Bx:	0.79000 nT
IMF By:	3.38700 nT
IMF Bz:	1.98900 nT
IMF |B|:	3.93000 nT
IMF Clock Angle:	59.58000 °

Magnetosphere Run Parameters:

GM solver:	Rusanov
GM limiter name:	mc3
GM limiter beta:	1
GM implicit:	explicit
GM Boris clight factor:	0.01

13-14 November 2012: Siyuan_Wu_120519_2

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20180525
Title/Introduction:	Storm_20121112
Key Word:	Storm_at_CNH and same long and lat

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2012/11/12 00:00
End Time:	2012/11/15 00:00
Dipole Tilt at Start in X-Z Plane:	-21.19 °
Dipole Tilt in Y-Z GSE Plane:	-5.78 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	1M cells overview
Coordinate System for the Output:	GSM
Solar wind input source:	OMNI
Ring current model:	RCM

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	6.21600 n/cc
SW Temperature:	84174.10000 Kelvin
X Component of SW Velocity:	-308.00000 km/s
Y Component of SW Velocity:	21.18600 km/s
Z Component of SW Velocity:	-10.66000 km/s
IMF Bx:	-0.17000 nT
IMF By:	-1.53200 nT
IMF Bz:	-1.61400 nT
IMF |B|:	2.23000 nT

IMF Clock Angle:	-136.49000 °

Magnetosphere Run Parameters:

GM solver:	Sokolov
GM limiter name:	mc3
GM limiter beta:	1.2
GM implicit:	part-implicit
GM timestep:	5.0
GM Boris clight factor:	0.01

17 March 2013: Pelin_Erdemir_071821_3

Run Status: Run Complete
Status updated: 2021-07-26T23:32:03+0000

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20180525
Title/Introduction:	Joule Heating
Key Word:	Joule Heating

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2013/03/16 00:00
End Time:	2013/03/22 00:00
Dipole Tilt at Start in X-Z Plane:	-5.14 °
Dipole Tilt in Y-Z GSE Plane:	32.84 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	1M cells overview
Coordinate System for the Output:	GSM
Solar wind input source:	WIND
Ring current model:	RCM

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	3.42500 n/cc
SW Temperature:	67113.60000 Kelvin
X Component of SW Velocity:	-441.77300 km/s
Y Component of SW Velocity:	-5.03600 km/s
Z Component of SW Velocity:	21.89300 km/s
IMF Bx:	0.00000 nT
IMF By:	3.69200 nT
IMF Bz:	-2.17100 nT

IMF |B|:	4.28000 nT
IMF Clock Angle:	120.46000 °

Magnetosphere Run Parameters:

GM solver:	Sokolov
GM limiter name:	mc3
GM limiter beta:	1.2
GM implicit:	part-implicit
GM timestep:	2.0
GM Boris clight factor:	0.01

9 September 2015: Shannon_Hill_061518_1

Run Metadata

Metadata Record:	View Full Run Metadata in the CCMC Metadata Registry (CMR)

Model Domain:	GM
Model Name:	SWMF
Model Version:	v20130129
Title/Introduction:	Sept 2015 Storm
Key Word:	storm

Run type:	Real event simulation
Inflow Boundary Conditions:	Time-dependent
Start Time:	2015/09/07 00:00
End Time:	2015/09/11 00:00
Dipole Tilt at Start in X-Z Plane:	3.35 °
Dipole Tilt in Y-Z GSE Plane:	-13.43 °
Dipole Update With Time:	yes
Ionospheric Conductance:	auroral
Co-rotation:	No corotation velocity is applied at the inner boundary.
Grid:	2M cells
Coordinate System for the Output:	GSM
Solar wind input source:	OMNI
Ring current model:	CRCM

Initial Solar Wind (SW) Parameters in GSM Coordinates:

SW Density:	4.90600 n/cc
SW Temperature:	124576.00000 Kelvin
X Component of SW Velocity:	-477.71700 km/s
Y Component of SW Velocity:	-43.23000 km/s
Z Component of SW Velocity:	-6.58600 km/s
IMF Bx:	1.79000 nT
IMF By:	6.04000 nT
IMF Bz:	3.16500 nT
IMF |B|:	6.82000 nT
IMF Clock Angle:	62.35000 °

Magnetosphere Run Parameters:

GM solver:	Rusanov
GM limiter name:	mc3
GM limiter beta:	1
GM implicit:	explicit
GM Boris clight factor:	0.01