

VMR migrated to the CCMC

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9th CCMC Community Workshop

April 23-27, 2018

VMR (Virtual Model Repository)

- The VMR was created to:
 - Make computational model results available to the general scientific community.
 - Provide intuitive data-model comparisons.
 - Enable open access to model output.
- The 1000s of CCMC model runs were a big focus of the VMR effort.
- CCMC related tools from the VMR are now incorporated directly into the CCMC website, with many updates.

Where can I find the new tools?



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GLOBAL MAGNETOSPHERE SIMULATION RESULTS

Perform [advanced search](#) or [simple search](#) in full database.

- [View ALL Global Magnetosphere Runs on Request](#)
- [View simulations with MODELED conditions](#)
- [View simulations of REAL EVENTS](#)
- [View Model-Data comparison for REAL EVENT runs using Virtual Model Repository \(VMR\) tools](#)
- [View general purpose runs for education and research](#)
- [View Runs for the following Model\(s\):](#)

- GUMICS
- LFM
- OpenGGCM
- SWMF
- Plasmasphere Model

[VIEW RUNS](#)

- [Check Run Status:](#)

Enter Run Registration Number:

[CHECK STATUS](#)

- [SEARCH Global Magnetosphere requests database for string\(s\):](#)

Note: At present we do not support multiple string search, so please only enter one string (e.g., either one last name or requestor, one run number - such as John_Doe_013011_1 name) in this field.

If searching for a date, use the following format: YYYY/MM/DD.

Please CHOOSE one:

- Search in All Columns
- Search in Columns Below
Title and Key Words are automatically included, feel free to choose multiple columns
 - Run Number
 - Run Requestor's Last Name
 - Model
 - Event Date



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The standard CCMC page view



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Runs on Request: Simulations Results

- List all Runs on Request
- List simulations with modeled conditions
- General purpose runs for education and research

Sort by: Title Key Word Request Date Event Date Model Dipole Tilt at Start

Total Number of Runs in the Database: 7355
Number of Real Event Runs in this Database: 3705

Event Date	Run Number	Start Time	End Time	Title	Key Words	Model	Model Version	Validation Level	Coordinate System for Input	Coordinate System for Output	Dipole Tilt (in the X-Z Plane) at Start deg	Dipole Tilt (in Y-Z GSE plane) deg	Update Dipole Orientation with Time	Inflow Boundary R_E	F10.7	Conductance Model	Corotation
September 19, 2017	James_McColough_041918_1	2017/09/10 12:00	2017/09/11 12:00	20170910 Test Run	GLE	LFM	LTR-2_1_5	0	GSM	SM	8.96	-32.13	yes	30	101.60000	auroral	real
February 27, 2014	Hadi_Madani_041718_1	2014/02/27 16:00	2014/02/27 22:00	MHD_data_mag	Befield global model 12Apr14	SWMF	v20140611	0	GSM	GSM	1.25	19.40	yes	32	172.40000	auroral	real
February 18, 2011	Sergio_Vidal-Luengo_040918_1	2011/02/18 05:00	2011/02/18 07:00	PP Event N23	v01	SWMF	v20140611	0	GSM	GSM	-23.00	20.57	yes	32	121.90000	auroral	real
January 01, 2000	XUANYE_Ma_032918_1	2000/01/01 00:00	2000/01/01 02:00	test	test	SWMF	v20140611	0	GSM	GSM	-26.68	15.33	yes	32	0.00000	constant	real
December 15, 2006	yabing_wang_032418_1	2006/12/15 07:00	2006/12/15 12:00	event	southward field	SWMF	v20140611	0	GSM	GSM	-31.86	-9.65	yes	32	84.40000	auroral	real
September 28, 2013	yabing_wang_032318_1	2013/09/28 00:00	2013/09/28 02:00	North_Event	corotation	SWMF	v20140611	0	GSM	GSM	-5.43	-14.14	yes	32	106.00000	auroral	real
October 29, 2003	Xiantong_Wang_032118_1	2003/10/29 00:00	2003/10/30 00:00	Magnetosphere during storm time	Halloween Storm	SWMF	v20140611	0	GSM	GSM	-17.17	-9.56	yes	32	275.40000	auroral	real
March 08, 2008	Xiantong_Wang_031818_1	2008/03/08 09:00	2008/03/09 09:00	Test	Test	SWMF	v20140611	0	GSM	GSM	-9.90	14.12	yes	32	68.80000	auroral	real
August 07, 2017	CHIH-PING_WANG_031518_1	2017/08/07 05:00	2017/08/07 09:00	MMS-ARTEMIS 2017-08-07 event	ARTEMIS MMS conjunction	OpenGDCM	4.0	0	GSM	GSE	7.13	-17.12	yes	33	74.80000	auroral	real
December 06, 2014	Ankush_Bhaskar_031518_1	2014/12/06 21:00	2014/12/06 22:30	shock_ace	shock_ace	SWMF	v20140611	0	GSM	GSM	-18.16	2.67	yes	32	125.00000	auroral	real
January 26, 2013	Katarina_Nykyri_031318_2	2013/01/25 00:00	2013/01/28 23:00	mapping	tail2	SWMF	v20140611	0	GSM	GSM	-22.97	24.20	yes	33	97.50000	auroral	real
December 30, 2017	Katarina_Nykyri_031318_1	2017/12/30 00:00	2018/01/04 00:00	mapping	tail	SWMF	v20140611	0	GSM	GSM	-26.19	13.78	yes	33	68.10000	auroral	real
September 26, 2011	Shreya_Khurana_030518_1	2011/09/26 19:00	2011/09/26 19:00	Magnetopause Crossing	Magnetopause Crossing	LFM	LTR-2_1_5	0	GSM	SM	5.16	-31.53	yes	30	149.00000	auroral	real
June 22, 2015	Shreya_Khurana_030318_1	2015/06/22 12:45	2015/06/23 02:45	Magnetopause Crossing	Magnetopause Crossing	LFM	LTR-2_1_5	0	GSM	SM	28.04	-9.97	yes	30	255.00000	auroral	real
June 22, 2015	Shreya_Khurana_030218_1	2015/06/22 18:00	2015/06/23 01:44	Magnetopause Crossing	Magnetopause Crossing	LFM	LTR-2_1_5	0	GSM	SM	32.68	2.87	yes	30	255.00000	auroral	real
September 28, 2013	yabing_wang_030218_1	2013/09/28 00:00	2013/09/28 00:10	north	rotation	SWMF	v20140611	0	GSM	GSM	-5.43	-14.14	yes	32	106.00000	auroral	real
November 02, 2009	Andrey_Samsonov_022218_1	2009/11/02 13:00	2009/11/02 23:00	Subsolar Magnetopause	Magnetopause	SWMF	v20140611	0	GSM	GSM	-9.76	-26.38	yes	33	70.30000	auroral	real
March 08, 2008	Emine_Kalafatogh_022018_1	2008/03/08 09:00	2008/03/09 09:00	March 2008 substorms	substorm	SWMF	v20130129	0	GSM	GSM	-9.90	14.12	yes	32	68.80000	auroral	real
June 20, 2015	Chigomezo_Ngwira_022018_1	2015/06/20 00:00	2015/06/25 00:00	Dipole strength simulation	Reduced dipole	SWMF	v20140611	0	GSM	GSM	20.62	10.56	yes	33	0.00000	constant	real
January 01, 2000	Richard_Wolf_021618_1	2000/01/01 00:00	2000/01/01 02:00	tilt	test	SWMF	v20140611	0	GSM	GSM	-26.68	15.33	yes	32	125.60000	auroral	real
September 01, 2017	Janelle_Holmes_021618_1	2017/09/01 00:00	2017/10/01 00:00	space weather conditions	general run	SWMF	v20140611	0	GSM	GSM	5.53	-12.84	yes	32	95.10000	auroral	real
October 02, 2015	Katarina_Nykyri_020918_2	2015/10/02 08:00	2015/10/02 11:00	dayside	ring current test	SWMF	v20140611	0	GSM	GSM	-11.19	-30.66	yes	32	107.60000	auroral	real
October 07, 2012	Shreya_Khurana_012818_4	2012/10/07 23:00	2012/10/08 11:00	Magnetopause Crossing	Magnetopause Crossing	LFM	LTR-2_1_5	0	GSM	SM	-6.99	-12.87	yes	30	97.90000	auroral	real
August 15, 2015	Shreya_Khurana_012818_1	2015/08/15 05:00	2015/08/15 17:00	Magnetopause Crossing	Magnetopause Crossing	SWMF	v20140611	0	GSM	GSM	4.76	-19.07	yes	32	91.70000	auroral	real



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Global Magnetosphere Real Event Analysis from Runs on Request (VMR Tools)

Filters	Results																																																																																																																																																																
Run start/end date as YYYYMMDD: <input type="text"/> / <input type="text"/>	... displaying 3630 of 3630 runs ... sort by run first or last name																																																																																																																																																																
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	<table border="1"> <thead> <tr> <th>model</th> <th>event date</th> <th>run ID</th> <th>F10.7</th> <th>min Dst</th> </tr> </thead> <tbody> <tr><td>SWMF v20140611</td><td>February 18, 2011</td><td>21671</td><td>121.9</td><td>10</td></tr> <tr><td>SWMF v20140611</td><td>January 01, 2000</td><td>21629</td><td>0</td><td>-50</td></tr> <tr><td>SWMF v20140611</td><td>March 08, 2008</td><td>21554</td><td>68.8</td><td>-86</td></tr> <tr><td>SWMF v20140611</td><td>December 15, 2006</td><td>21520</td><td>84.4</td><td>-162</td></tr> <tr><td>SWMF v20140611</td><td>September 28, 2013</td><td>21510</td><td>106</td><td>12</td></tr> <tr><td>SWMF v20140611</td><td>September 01, 2017</td><td>21508</td><td>95.1</td><td>-142</td></tr> <tr><td>SWMF v20140611</td><td>December 30, 2017</td><td>21490</td><td>68.1</td><td>-12</td></tr> <tr><td>SWMF v20140611</td><td>January 25, 2013</td><td>21484</td><td>97.5</td><td>-53</td></tr> <tr><td>OpenGGCM 4.0</td><td>August 07, 2017</td><td>21468</td><td>74.8</td><td>-15</td></tr> <tr><td>SWMF v20140611</td><td>December 06, 2014</td><td>21467</td><td>125</td><td>-6</td></tr> <tr><td>LFM LTR-2_1_5</td><td>June 22, 2015</td><td>21443</td><td>255</td><td>-111</td></tr> <tr><td>LFM LTR-2_1_5</td><td>June 22, 2015</td><td>21440</td><td>255</td><td>-111</td></tr> <tr><td>LFM LTR-2_1_5</td><td>September 26, 2011</td><td>21439</td><td>149</td><td>-89</td></tr> <tr><td>SWMF v20140611</td><td>June 20, 2015</td><td>21382</td><td>0</td><td>-195</td></tr> <tr><td>SWMF v20140611</td><td>September 28, 2013</td><td>21358</td><td>106</td><td>12</td></tr> <tr><td>SWMF v20140611</td><td>November 02, 2009</td><td>21330</td><td>70.3</td><td>-5</td></tr> <tr><td>SWMF v20130129</td><td>March 08, 2008</td><td>21313</td><td>68.8</td><td>-86</td></tr> <tr><td>SWMF v20140611</td><td>January 01, 2000</td><td>21276</td><td>125.6</td><td>-50</td></tr> <tr><td>SWMF v20140611</td><td>October 02, 2015</td><td>21271</td><td>107.6</td><td>-30</td></tr> <tr><td>GUMICS 4-HC-20140326</td><td>August 15, 2015</td><td>21223</td><td>91.7</td><td>-64</td></tr> <tr><td>SWMF v20140611</td><td>June 20, 2015</td><td>21217</td><td>0</td><td>-195</td></tr> <tr><td>OpenGGCM 4.0</td><td>August 15, 2015</td><td>21181</td><td>91.7</td><td>-64</td></tr> <tr><td>SWMF v20140611</td><td>August 15, 2015</td><td>21180</td><td>91.7</td><td>-64</td></tr> <tr><td>LFM LTR-2_1_5</td><td>October 07, 2012</td><td>21178</td><td>97.9</td><td>-101</td></tr> <tr><td>SWMF v20140611</td><td>September 07, 2017</td><td>21127</td><td>130.4</td><td>-142</td></tr> <tr><td>OpenGGCM 4.0</td><td>March 11, 2016</td><td>21106</td><td>93</td><td>-18</td></tr> <tr><td>SWMF v20130129</td><td>July 06, 2017</td><td>21103</td><td>78.5</td><td>-7</td></tr> <tr><td>LFM LTR-2_1_5</td><td>July 04, 2015</td><td>21100</td><td>120.7</td><td>-69</td></tr> <tr><td>SWMF v20140611</td><td>October 25, 2016</td><td>21083</td><td>76.9</td><td>-69</td></tr> <tr><td>SWMF v20130129</td><td>July 06, 2017</td><td>21080</td><td>78.5</td><td>-7</td></tr> <tr><td>GUMICS 4-HC-20140326</td><td>March 11, 2016</td><td>21079</td><td>93</td><td>-18</td></tr> </tbody> </table>	model	event date	run ID	F10.7	min Dst	SWMF v20140611	February 18, 2011	21671	121.9	10	SWMF v20140611	January 01, 2000	21629	0	-50	SWMF v20140611	March 08, 2008	21554	68.8	-86	SWMF v20140611	December 15, 2006	21520	84.4	-162	SWMF v20140611	September 28, 2013	21510	106	12	SWMF v20140611	September 01, 2017	21508	95.1	-142	SWMF v20140611	December 30, 2017	21490	68.1	-12	SWMF v20140611	January 25, 2013	21484	97.5	-53	OpenGGCM 4.0	August 07, 2017	21468	74.8	-15	SWMF v20140611	December 06, 2014	21467	125	-6	LFM LTR-2_1_5	June 22, 2015	21443	255	-111	LFM LTR-2_1_5	June 22, 2015	21440	255	-111	LFM LTR-2_1_5	September 26, 2011	21439	149	-89	SWMF v20140611	June 20, 2015	21382	0	-195	SWMF v20140611	September 28, 2013	21358	106	12	SWMF v20140611	November 02, 2009	21330	70.3	-5	SWMF v20130129	March 08, 2008	21313	68.8	-86	SWMF v20140611	January 01, 2000	21276	125.6	-50	SWMF v20140611	October 02, 2015	21271	107.6	-30	GUMICS 4-HC-20140326	August 15, 2015	21223	91.7	-64	SWMF v20140611	June 20, 2015	21217	0	-195	OpenGGCM 4.0	August 15, 2015	21181	91.7	-64	SWMF v20140611	August 15, 2015	21180	91.7	-64	LFM LTR-2_1_5	October 07, 2012	21178	97.9	-101	SWMF v20140611	September 07, 2017	21127	130.4	-142	OpenGGCM 4.0	March 11, 2016	21106	93	-18	SWMF v20130129	July 06, 2017	21103	78.5	-7	LFM LTR-2_1_5	July 04, 2015	21100	120.7	-69	SWMF v20140611	October 25, 2016	21083	76.9	-69	SWMF v20130129	July 06, 2017	21080	78.5	-7	GUMICS 4-HC-20140326	March 11, 2016	21079	93	-18
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Filter and sort views



Global Magnetosphere Real Event Analysis from Runs on Request (VMR Tools)

Filters **Results**

Run start/end date as YYYYMMDD:

20130101 / 20131231

Run Name:

Keyword:

Model:

Run ID:

Satellite Data

Cluster-1

Diagnostic Indices

ONLY with indices

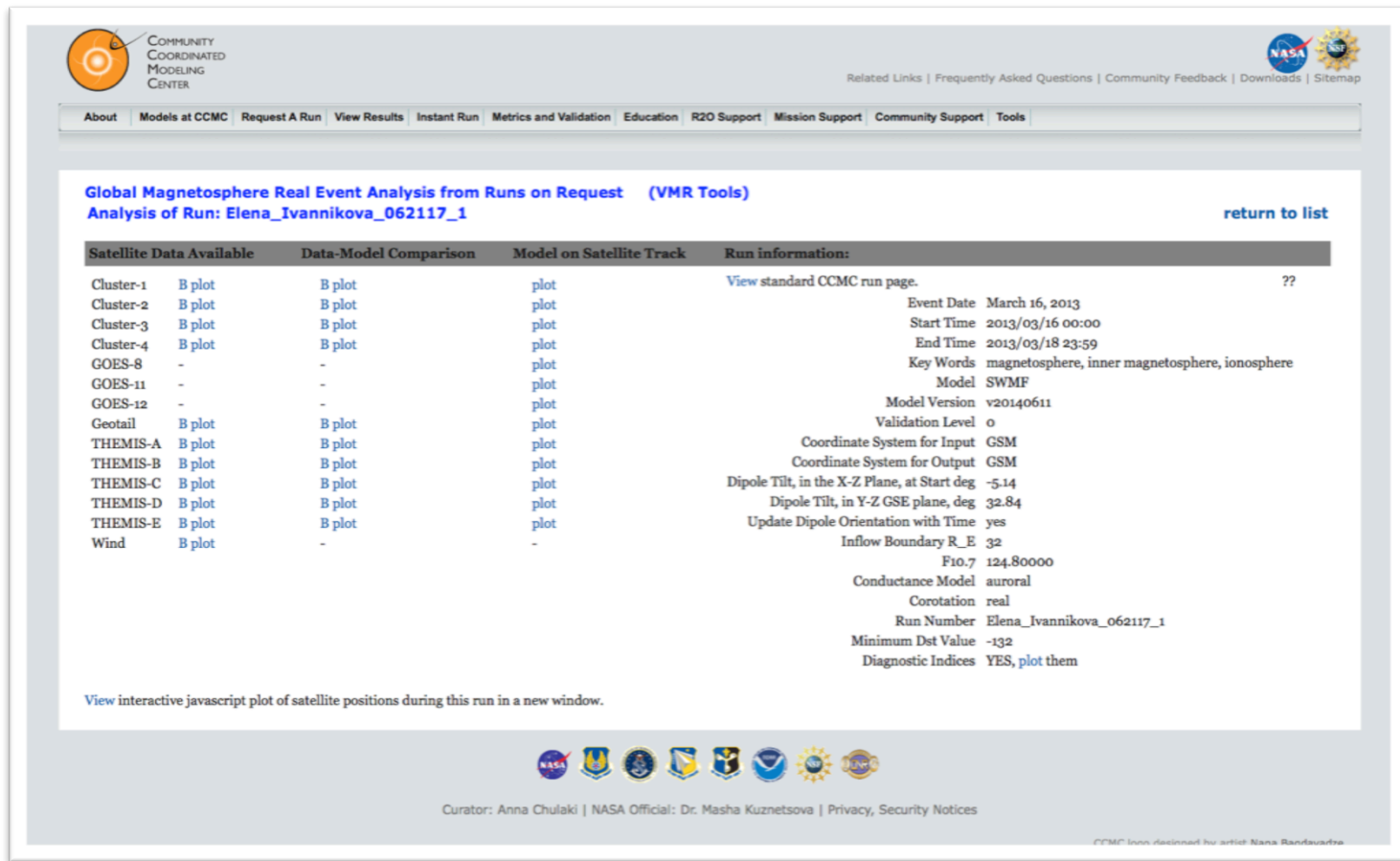
... displaying 33 of 3630 runs ...

sort by run [first](#) or [last](#) name

	model	event date	run ID	F10.7	min Dst
select Katariina_Nykyri_031318_2	SWMF v20140611	January 25, 2013	21484	97.5	-53
select Zerefsan_Kaymaz_080114_3	SWMF v20110131	January 25, 2013	11630	98	5
select Gilbert_Pi_101917_2	SWMF v20140611	February 09, 2013	20666	104.8	-10
select Yihua_Zheng_111715_1	SWMF v20140611	March 15, 2013	14524	121.8	8
select GEM_CEDAR_073015_3	SWMF v20130129	March 16, 2013	13735	125	-132
select GEM_CEDAR_073015_2	SWMF v20140611	March 16, 2013	13708	125	-132
select GEM_CEDAR_073015_1	SWMF v20140611	March 16, 2013	13716	125	-132
select Elena_Ivannikova_062117_1	SWMF v20140611	March 16, 2013	19748	124.8	-132
select Lois_Smith_041115_1	SWMF v20140611	April 18, 2013	13237	106	8
select Lois_Smith_041215_1	SWMF v20140611	May 06, 2013	12921	133	8
select Lois_Sarno-Smith_040315_5	SWMF v20130129	May 07, 2013	12814	131	8
select Lois_Sarno-Smith_031815_2	SWMF v20140611	May 07, 2013	12734	131	8
select Lois_Sarno-Smith_031815_2a	SWMF v20140611	May 07, 2013	12828	131	8
select Lois_Sarno-Smith_031815_4	SWMF v20140611	May 07, 2013	12737	131	8
select Lois_Sarno-Smith_031815_3	SWMF v20140611	May 08, 2013	12740	129	8
select Lois_Sarno-Smith_031815_1	SWMF v20140611	May 08, 2013	12720	129	8
select Lois_Sarno-Smith_040315_2	SWMF v20140611	May 12, 2013	12805	150	8
select Lois_Sarno-Smith_040315_1	SWMF v20140611	May 12, 2013	12809	150	8
select Lois_Sarno-Smith_040315_2a	SWMF v20140611	May 12, 2013	12825	150	8
select Lois_Sarno-Smith_040315_4	SWMF v20130129	May 12, 2013	12812	150	8
select Lois_Smith_040815_2	SWMF v20140611	May 18, 2013	12849	135	8
select Yihua_zheng_113015_1	SWMF v20140611	May 31, 2013	14612	104.7	8
select Sean_Chen_030215_1	SWMF v20130129	May 31, 2013	12603	105	-120
select Lois_Sarno-Smith_040615_2	SWMF v20140611	June 01, 2013	12818	109	8
select Lois_Sarno-Smith_040615_1	SWMF v20140611	June 01, 2013	12831	109	8
select Lois_Smith_040915_3	SWMF v20140611	July 06, 2013	13197	139	8
select sinan_GUYER_030915_3	SWMF v20140611	August 16, 2013	12727	123	8
select Yihua_Zheng_113015_2	SWMF v20140611	September 16, 2013	14636	95.5	8
select Yihua_Zheng_112515_1	SWMF v20140611	September 23, 2013	14602	108.5	8
select yabing_wang_030218_1	SWMF v20140611	September 28, 2013	21358	106	12
select yabing_wang_032318_1	SWMF v20140611	September 28, 2013	21510	106	12

Run detail view

- The original full table data is preserved



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Global Magnetosphere Real Event Analysis from Runs on Request (VMR Tools)
Analysis of Run: Elena_Ivannikova_062117_1 [return to list](#)

Satellite Data Available	Data-Model Comparison	Model on Satellite Track	Run information:
Cluster-1	B plot	B plot	View standard CCMC run page. ??
Cluster-2	B plot	B plot	Event Date March 16, 2013
Cluster-3	B plot	B plot	Start Time 2013/03/16 00:00
Cluster-4	B plot	B plot	End Time 2013/03/18 23:59
GOES-8	-	-	Key Words magnetosphere, inner magnetosphere, ionosphere
GOES-11	-	-	Model SWMF
GOES-12	-	-	Model Version v20140611
Geotail	B plot	B plot	Validation Level 0
THEMIS-A	B plot	B plot	Coordinate System for Input GSM
THEMIS-B	B plot	B plot	Coordinate System for Output GSM
THEMIS-C	B plot	B plot	Dipole Tilt, in the X-Z Plane, at Start deg -5.14
THEMIS-D	B plot	B plot	Dipole Tilt, in Y-Z GSE plane, deg 32.84
THEMIS-E	B plot	B plot	Update Dipole Orientation with Time yes
Wind	B plot	-	Inflow Boundary R_E 32
			F10.7 124.80000
			Conductance Model auroral
			Corotation real
			Run Number Elena_Ivannikova_062117_1
			Minimum Dst Value -132
			Diagnostic Indices YES, plot them

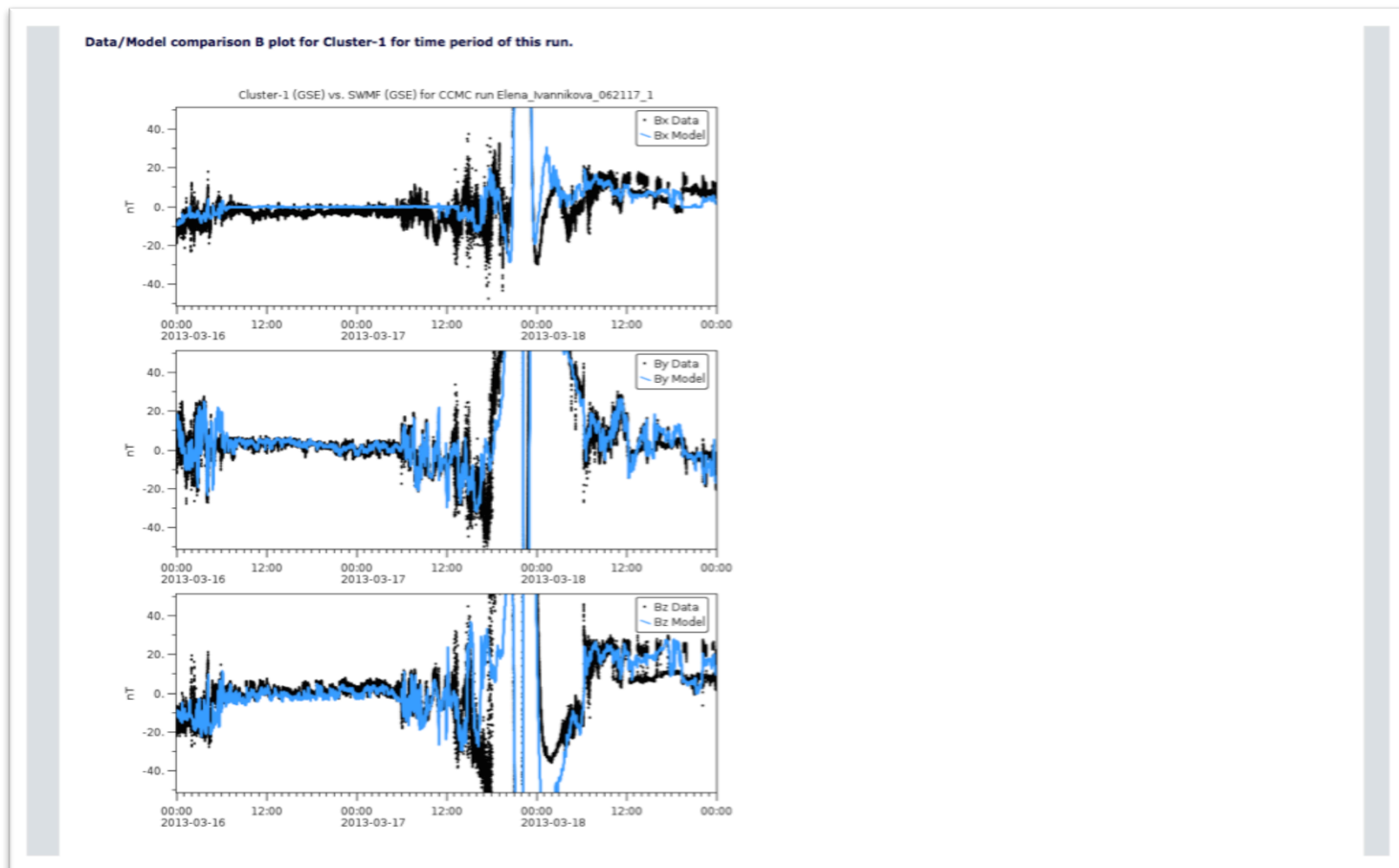
[View interactive javascript plot of satellite positions during this run in a new window.](#)

Curator: Anna Chulaki | NASA Official: Dr. Masha Kuznetsova | Privacy, Security Notices


CCMC logo and partner logos (NASA, ESA, etc.)

Data-model comparison



- In this case, Autoplot loads the CCMC satellite extraction and gets Cluster data from CDAWeb to generate the plot.



Run detail view



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Wind	B plot	-	Inflow Boundary R_E 32
			F10.7 124.80000
			Conductance Model auroral
			Corotation real
			Run Number Elena_Ivannikova_062117_1
			Minimum Dst Value -132
			Diagnostic Indices YES, plot them

View interactive javascript plot of satellite positions during this run in a new window.

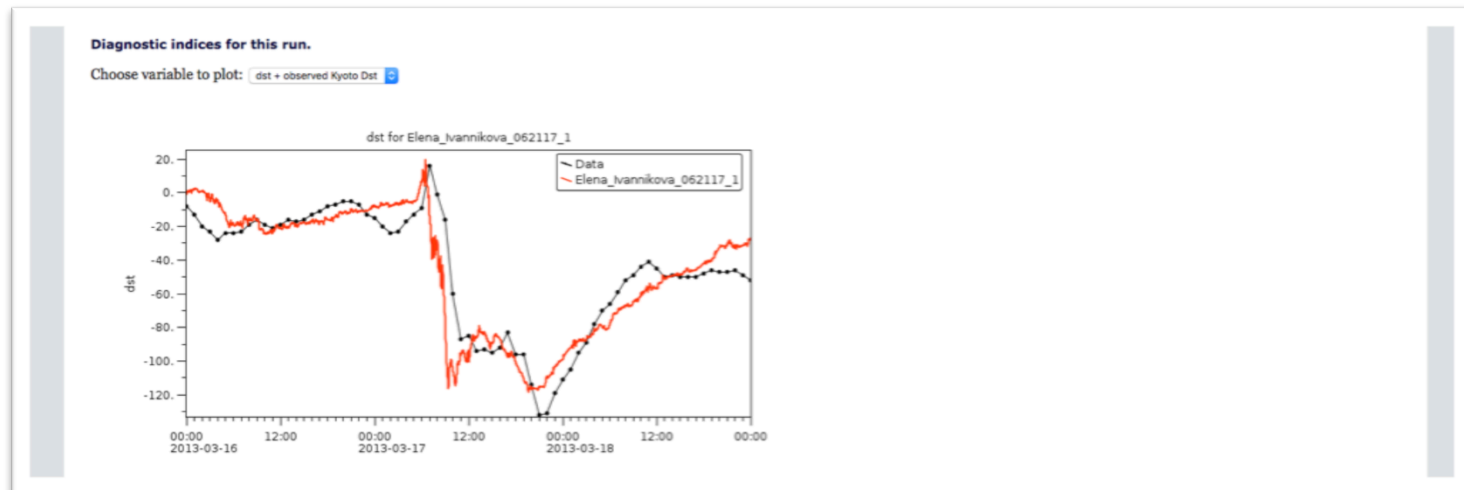
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Diagnostic Indices



- Some models output additional diagnostic values that can also be viewed and compared to data
- Dst is one of values saved, and can be compared to Kyoto values for the run.



Run detail view



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Global Magnetosphere Real Event Analysis from Runs on Request (VMR Tools)

Analysis of Run: Elena_Ivannikova_062117_1 [return to list](#)

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			Minimum Dst Value -132
			Diagnostic Indices YES, plot them

View interactive javascript plot of satellite positions during this run in a new window.

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Satellite positions (interactive)

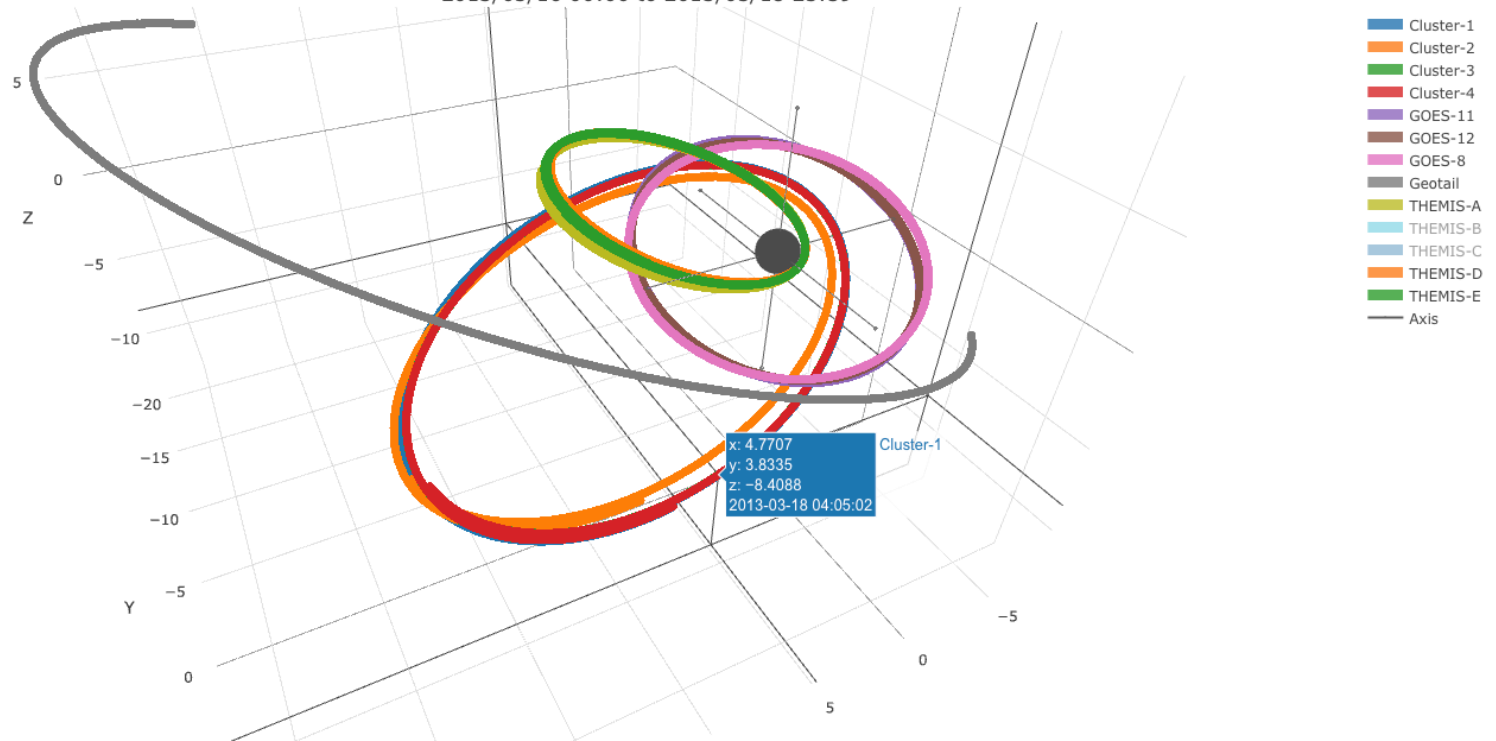


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3D view of satellite positions during run in GSE coordinates.
Elena_Ivannikova_062117_1
2013/03/16 00:00 to 2013/03/18 23:59



- These tools only work well with detailed and complete information about the runs in the database. Direct installation at the CCMC has made them much better.
- New tools and access will need to work from complete and accessible meta-data, which is why the SPASE standard, and its implementation at the CCMC is so important.

Conclusions

- VMR tools have been added to the CCMC to provide alternative run discovery as well as additional analysis tools of the large collection of magnetosphere event simulations.
- Good meta-data makes better tools possible.