

**MMS pre-mission papers and MMS-related Unrefereed Papers 2014-2017**  
**Mission results compiled in separate list**  
15 February 2017

- [1] Victoria N. Coffey, Michael O. Chandler, Yoshifumi Saito, Shoichiro Yokota, Takanobu Omoto, Craig J. Pollock, Levon A. Avanov, Ulrik Gliese, Daniel J. Gershman, Dennis J. Chornay, Elizabeth A. MacDonald, Anne Diekmann and Arthur D. Jacques. The Dual Ion Spectrometers and their Calibration for the Fast Plasma Investigation on NASA's Magnetospheric MultiScale Mission. *NASA/TP*, 2017.
- [2] A. Ukhorskiy, K. Sorathia, and V. Merkin. The role of Kelvin-Helmholtz instability in losses of magnetospheric energetic particles through the magnetopause: High-resolution MHD-test-particle simulations. In *APS Meeting Abstracts*, October 2016.
- [3] L.-N. Alconcel, P. Fox, C. Colgan, T. Oddy, P. Brown, and C. Carr. Magnetometer Data for the Ages: Achieving complete FGM instrument coverage of the multi-spacecraft Cluster mission (2000 to 2015+). In *EGU General Assembly Conference Abstracts*, volume 18 of *EGU General Assembly Conference Abstracts*, page 1798, April 2016.
- [4] L. Lechner, P.-A. Bourdin, T. K. M. Nakamura, R. Nakamura, and Y. Narita. Catalog of velocity distributions around a reconnection site in 2D PIC simulations. In *EGU General Assembly Conference Abstracts*, volume 18 of *EGU General Assembly Conference Abstracts*, page 15591, April 2016.
- [5] G. Mann, H. Aurass, H. Önel, and A. Warmuth. Electron acceleration at slow-mode shocks in the magnetic reconnection region in solar flares. In *EGU General Assembly Conference Abstracts*, volume 18 of *EGU General Assembly Conference Abstracts*, page 2146, April 2016.
- [6] D. N. Baker. The Role of Solar and Solar Wind Forcing of Magnetospheric Particle Enhancements. *AGU Fall Meeting Abstracts*, December 2015.
- [7] J. Deca, V. Olshevsky, A. V. Divin, M. E. Innocenti, E. Cazzola, B. Peng, S. Markidis, M. Ormvråk, and G. Lapenta. Null Points in Three-Dimensional Kinetic Simulations of Magnetic Reconnection. *AGU Fall Meeting Abstracts*, December 2015.
- [8] D. Fruehauff, M. Volwerk, and K. H. Glassmeier. Flow channel dynamics in the Magnetotail - Simulations and multi-spacecraft analyses from THEMIS observations. *AGU Fall Meeting Abstracts*, December 2015.
- [9] V. N. Genot, N. Andre, B. Cecconi, M. Gangloff, M. Bouchemit, N. Dufourg, F. Pitout, E. Budnik, B. Lavraud, A. P. Rouillard, D. Heulet, A. Bellucci, J. Durand, D. Delmas, O. Alexandrova, C. Briand, and A. Biegun. CDPP activities: Promoting research and education in space physics. *AGU Fall Meeting Abstracts*, December 2015.
- [10] J. Goldstein, V. Angelopoulos, J. L. Burch, S. De Pascuale, S. A. Fuselier, K. J. Genestreti, W. S. Kurth, K. Llera, D. J. McComas, G. D. Reeves, H. E. Spence, and P. W. Valek. Global, Energy-Dependent Ring Current Response During Two Large Storms. *AGU Fall Meeting Abstracts*, December 2015.
- [11] R. Guo, Z. Pu, L. Xie, and S. Fu. Reconstruction of the Asymmetric Magnetic Reconnection Region at the Magnetopause. *AGU Fall Meeting Abstracts*, December 2015.
- [12] G. V. Khazanov, E. W. Himwich, A. Gloer, D. G. Sibeck, and L. A. Avanov. Secondary Electrons MI Coupling in the Presence of ECH and Whistler Waves. *AGU Fall Meeting Abstracts*, December 2015.
- [13] C. S. Ng. Possible Properties of Kinetic Flux Ropes Generated by Magnetic Reconnection. *AGU Fall Meeting Abstracts*, December 2015.
- [14] M. Oka, T. Phan, M. Oieroset, and V. Angelopoulos. Observation of electron diffusion region during magnetotail reconnection. *AGU Fall Meeting Abstracts*, December 2015.

- [15] D. G. Sibeck, O. Gutynska, and M. C. H. Fok. Multipoint Observations of Magnetospheric Processes Relevant to the Substorm Events. *AGU Fall Meeting Abstracts*, December 2015.
- [16] Y. Zhang, C. Shen, Z. Liu, A. Marchaudon, and Z. Rong. First Investigation on the Magnetic Curvature Distribution in the Magnetic Diffusion Region. *AGU Fall Meeting Abstracts*, December 2015.
- [17] M. Yamada. Study of Magnetic Reconnection in Plasma: how it works and energizes plasma particles. In *APS Meeting Abstracts*, November 2015.
- [18] M. Andriopoulou, R. Nakamura, and K. Torkar. Study of the plasma density derivation in tenuous plasma regions using spacecraft potential data under active control from the Cluster spacecraft. In *EGU General Assembly Conference Abstracts*, volume 17 of *EGU General Assembly Conference Abstracts*, page 14307, April 2015.
- [19] V. Angelopoulos. Recent Observational Advances in our Understanding of Magnetic Reconnection in Earth’s Magnetosphere. *AGU Fall Meeting Abstracts*, December 2014.
- [20] J. M. Dean-Day, T. V. Bui, T. F. Hanisco, G. M. Wolfe, Jr., and C. S. Chang. Evaluating Spatial Scales of Eddy Covariance Fluxes over the Southeastern United States using 20 Hz Wind and Temperature Data from the NASA DC-8 Meteorological Measurement System. *AGU Fall Meeting Abstracts*, December 2014.
- [21] E. Donovan. System-level view of geospace dynamics: Challenges for high-latitude ground-based observations. *AGU Fall Meeting Abstracts*, December 2014.
- [22] K. J. Genestreti, S. Fuselier, J. Goldstein, T. Nagai, and J. P. Eastwood. Empirical Modeling of Magnetotail Reconnection. *AGU Fall Meeting Abstracts*, December 2014.
- [23] B. L. Giles, D. N. Baker, S. Fuselier, R. Ergun, S. M. Petriner, T. D. Phan, M. Oka, J. L. Burch, R. B. Torbert, T. E. Moore, C. K. Pankratz, J. Beech, L. J. Riesberg, R. S. Panneton, F. D. Wilder, K. Goodrich, and W. S. Lewis. Magnetospheric Multiscale Science Operations, Data Acquisition, Data Management, and Data Access and Archiving. *AGU Fall Meeting Abstracts*, December 2014.
- [24] M. V. Goldman, J. P. Eastwood, D. L. Newman, and G. Lapenta. New Theory of Whistler Waves Observed during Magnetotail Reconnection\*. *AGU Fall Meeting Abstracts*, December 2014.
- [25] Y. V. Khotyaintsev, A. V. Divin, D. B. Graham, A. Vaivads, M. Andre, P. A. Lindqvist, A. Retino, O. Le Contel, R. E. Ergun, K. Goodrich, R. B. Torbert, C. T. Russell, W. Magnes, R. Nakamura, C. J. Pollock, B. Mauk, and S. A. Fuselier. Rebuilding of the Earth’s Outer Electron Belts During the 9 October 2012 and 17 March 2013 Geomagnetic Storms. *AGU Fall Meeting Abstracts*, December 2014.
- [26] G. Lapenta, L. Sanna, M. V. Goldman, D. L. Newman, and S. Markidis. First Observation of Switch-Off Slow Shocks in Fully Kinetic Particle in Cell Simulation of Magnetic Reconnection. *AGU Fall Meeting Abstracts*, December 2014.
- [27] M. J. Lawson, E. S. Amador, B. L. Carrier, A. Albuja, J. Bapst, K. R. S. Cahill, F. Ebersohn, S. Gainey, G. Gartrelle, R. N. Greenberger, J. M. Hale, S. Johnston, J. Olivares, C. E. Parcheta, J. P. Sheehan, A. K. Thorpe, and S. K. Zareh. Enceladus Environmental Explorer (EVE): A Mission Concept. *AGU Fall Meeting Abstracts*, December 2014.
- [28] H. Liang, M. Ashour-Abdalla, G. Lapenta, and R. J. Walker. Acceleration of Oxygen ions by Magnetic Reconnection. *AGU Fall Meeting Abstracts*, December 2014.
- [29] R. E. McGuire, D. Bilitza, R. M. Candey, R. Chimiak, J. F. Cooper, L. N. Garcia, B. T. Harris, R. C. Johnson, T. Kovalick, N. Lal, H. Leckner, M. Liu, N. E. Papitashvili, and D. A. Roberts. Multi-Point Observations of the Inner Magnetosphere from the Van Allen Probes and Related Missions at NASA’s Space Physics Data Facility (SPDF). *AGU Fall Meeting Abstracts*, December 2014.

- [30] T. E. Moore, R. Black, J. L. Burch, M. Hesse, B. P. Robertson, P. D. Spidaliere, S. Pope, C. R. Tooley, and R. B. Torbert. Magnetospheric Multiscale (MMS) Mission Status. *AGU Fall Meeting Abstracts*, December 2014.
- [31] D. L. Newman, J. P. Eastwood, M. V. Goldman, and G. Lapenta. The Formation and Evolution of Ion Beams near Dipolarization Fronts in Magnetotail Reconnection Exhausts. *AGU Fall Meeting Abstracts*, December 2014.
- [32] D. J. Ruffolo, K. Malakit, S. Ek-In, M. A. Shay, and P. Cassak. Effects of a Guide Field on the Larmor Electric Field in Collisionless Asymmetric Reconnection. *AGU Fall Meeting Abstracts*, December 2014.
- [33] J. D. Scudder, H. Karimabadi, W. S. Daughton, and V. Roytershteyn. Local Diagnosis of Reconnection in 3D. *AGU Fall Meeting Abstracts*, December 2014.
- [34] A. P. Walsh, A. Varsani, C. J. Owen, A. N. Fazakerley, J. Rae, C. Forsyth, M. Andre, I. S. Dandouras, and C. Carr. Microscale dynamics within Kelvin-Helmholtz waves: A probe of localized reconnection occurrence. *AGU Fall Meeting Abstracts*, December 2014.
- [35] J. Yoo, M. Yamada, H. Ji, J. Jara-Almonte, B. Na, C. E. Myers, and W. Fox. Studies of electron energization during magnetic reconnection in a laboratory plasma. In *APS Meeting Abstracts*, October 2014.
- [36] M. Y. Boudjada, M. Leitzinger, M. Pfleger, S. Sawas, M. Temmer, S. Krauss, A. Veronig, H. Lammer, and B. Besser. Study of mass density enhancements at high geomagnetic latitudes. In *EGU General Assembly Conference Abstracts*, volume 16 of *EGU General Assembly Conference Abstracts*, page 2578, May 2014.
- [37] L. Avanov. The Fast Plasma Investigation Suite for NASA’s Magnetospheric MultiScale (MMS) Mission. In *40th COSPAR Scientific Assembly*, volume 40 of *COSPAR Meeting*, 2014.
- [38] J. Burch. The Magnetospheric Multiscale Mission. In *40th COSPAR Scientific Assembly*, volume 40 of *COSPAR Meeting*, 2014.
- [39] M. Zhou. Magnetic Reconnection in the Earth Magnetosphere. In *40th COSPAR Scientific Assembly*, volume 40 of *COSPAR Meeting*, 2014.