Curriculum Vitae and Publications

Name:	James Michael Weygand
Present Position:	Research Geophysicist
	Earth, Planetary, and Space Sciences
	University of California, Los Angeles
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Education Degree Awarded and Date reice and Math Ma ים

St. Olaf College	B.A. Physics and Math	May, 1992
University of Calgary	M.Sc. Space Physics	Aug. 1994
University of Calgary	Ph.D. Space Physics	Apr. 1998

Scholarships, Awards, etc.

Institution

Date	Award
March 2012	Antarctica Service Medal
August 2001	NASA's Planetary Science Summer School
1997-1998	Graduate Research Assistantship
1994, 1996 and 1997	Canadian Corporation of University
	Space Science Graduate Scholarship
1992-1997	Graduate Teaching Assistantship
Summers of 1992 to 1997	Graduate Research Assistantship
1995-1996	Departmental Scholarship
1991-1992	President of Society of Physics Students
	St. Olaf College Sigma Pi Sigma Physics Society
1989-1992	St. Olaf Band
1985-1988	National Honors Society

Skills

Experience programming in UNIX, LINUX, C, Mathematica, postscript, system administration, IDL, Matlab, HTML, XML, Java Script, and FORTRAN. Experienced with Powerpoint and Microsoft Word, vi on UNIX, and LaTeX. Three semesters of Russian, two years of Spanish, and two years of German.

Academic Experience			
Position	Date	Depart	Place
Tutor	Sept. 89 to May, 92	Physics	St. Olaf College
Tutor	Sept. 90 to Dec. 90	Math	Private
Teaching Assistant	Sept. 91 to May, 92	Physics	St. Olaf College
Teaching Assistant	Sept. 92 to April, 97	Physics	University of Calgary
Tutor	Oct. 94 to April, 98	Physics	University of Calgary
Research Assistant	Summers Feb. 95	Physics	University of Calgary
	to June, 95		
Research Assistant	June, 95	Physics	University of Calgary
Research Assistant	May, 97 to April, 98	Physics	University of Calgary
Associate Scientist	May, 98 to Nov. 2000	Physics	University of Bern
(Post Doctorate Fellow)			
Post Doctorate Fellow	Dec. 2000 to June 2001	IGPP	UCLA
Research Assistant	July 2001 to June 2008	IGPP	UCLA
Geophysicist			
Research Associate	July 2008 to June 2015	IGPP	UCLA
Geophysicist			
Research Geophysicst	July 2015 to present	IGPP	UCLA

Curriculum :

- Participated in Van Nuys Middle School College and Career Day, Spring, 2018.
- Participated in Porter Middle School Career day, Spring, 2017.
- Participated in Maple Ave Middle School Pen Pal program, 2015-2016.
- Participated in Harmony Elementary School Career day, Spring, 2015.
- Earth and Space Science 293, Space Physics Journal Club, UCLA, Fall, 2006.
- Taught Earth and Space Science 9, Solar System and Planets, Summer, 2005.
- Taught Earth and Space Science 9, Solar System and Planets, Summer, 2004.
- Participated in faculty selection committee during June, 1997.
- Elected to participate in selection of physics and astronomy department head at University of Calgary in November, 1994.
- Participated in curriculum review at University of Calgary in August, 1994.

Offices Held/Club Memberships :

- Institute of Geophysics and Planetary Physics Seminar Chairman, 2008 to 2009.
- Member of the American Geophysical Union from 1993 to 1998 and May, 2001 to present.
- Member of the European Geophysical Society from April 1999 to present.
- Member of Canadian Association of Physicists from 1996 to 1999.
- Member of Physics and Astronomy Student Association at University of Calgary from 1992 to 1997.
- Graduate Student Representative at University of Calgary from 1993 to 1994.
- President of Sigma Pi Sigma Physics Club from 1991 to 1992.

Conference Organization and Committees :

- Committee for NSF Ground Magnetometer Array Workshop Report.
- Committee for AMPERE core users group in May 2015.

• Committee for the SAMBA-iMAGS Workshop in Punta Arenas, Chile in Oct. 2013.

- Merit Increase Committee for the Department of Earth, Planetary, and Space Sciences from 2011-2017 .
- Committee for the STAMMS-2 conference in Orleans, France Sept. 2007.
- Committee for the Turbulence Workshop at the Institute of Geophysics Planetary Physics in Los Angeles, California in May 2005.
- Committee for the Mini-workshop to explore the establishment of a UCLA/CalSpace Center for Excellence.
- World Wide Web Administrator for the Joint SOHO-ACE Workshop 2001 on Solar and Galactic Composition.
- Treasurer: 7th CELIAS Postlaunch Workshop in Couvet, Switzerland in October, 1999.
- Committee for the 23rd International Cosmic Ray Conference in Calgary, Canada in July, 1993.

Conference Chairs :

- Session Chair (Friday Afternoon) for the First Magnetospheric Multiscale Mission Community Science Workshop in Los Angeles, CA in September, 2016.
- Session Chair (Tuesday Morning) for Mechanics of the Magnetospheric System and Effects on the Polar Region Workshop in Torres del Paine, Chile in Ocotber, 2013.
- Session Chair (Tuesday Morning) for Cluster Themis meeting in Boulder Colorado in Ocotber, 2012.
- Session Chair (Session Number: SM24A) for Fall AGU at San Francisco, California in December, 2008.
- Session Chair (Session Number: SM54A) for Fall AGU at San Francisco, California in December, 2007.
- Session Chair (Session Number: NG31B) for Fall AGU at San Francisco, California in December, 2006.
- Session Chair (Session Number: SM11B and SM12B) and student paper judge for Spring AGU at Montreal, Canada in May, 2004.
- Session Chair (Session Number: SM21B) for Fall AGU at San Francisco, California in December, 2003.
- Assistant Chair at Living with a Star Geospace 2002 Panel Review at Washington D.C. in January, 2003.
- Session Chair (Session Number: SM21D) for Fall AGU at San Francisco, California in December, 2002.

Seminar Presentations :

- Invited Speaker for Seminar talk at the University of Calgary in August, 1992.
- Invited Speaker for the Outdoor Pursuits program in Calgary, Alberta, Canada in October, 1995.
- Invited Speaker for open house talk at Rothney Astrophysical Observatory in April, 1997.
- Invited Speaker for seminar given at the Physikalisches Institut, Universität Bern in May, 1999.
- Invited Speaker for the Astronomische Gesellschaft Bern in August, 2000. Talk entitled: The August 11, 1999 solar eclipse temperature profiles of the Inner Corona.
- Invited Speaker for seminar given at the University of California, Los Angeles, ESS 288B Atmospheric Sciences 275B Space Physics Seminar in January, 2001. Talk entitled: The August 11, 1999 solar eclipse temperature profiles of the Inner Corona.
- Invited Speaker for seminar given at the University of California, Los Angeles, ESS 288B Atmospheric Sciences 275B Space Physics Seminar in October, 2001. Talk entitled: Determining the Plasmapause Boundary with ULF Pulsations using High and Low Latitude Ground-based Magnetometers.
- Invited Speaker for seminar at University of Arizona, Tucson in April, 2002. Talk entitled: Determining the Plasmapause Boundary with ULF Pulsations using High and Low Latitude Ground-based Magnetometers.
- Invited Speaker for seminar at NASA Jet Propulsion Laboratory, Pasadena in April, 2002. Talk entitled: Determining the Plasmapause Boundary with ULF Pulsations using High and Low Latitude Ground-based Magnetometers.
- Invited Speaker for seminar at Los Alamos National Laboratory, Los Alamos in April, 2002. Talk entitled: Determining the Plasmapause Boundary with ULF Pulsations using High and Low Latitude Ground-based Magnetometers.
- Invited Speaker for seminar at Boston University, Boston in October, 2002. Talk entitled: Determining the Plasmapause Boundary with ULF Pulsations using High and Low Latitude Ground-based Magnetometers.
- Invited Speaker for seminar given at the University of California, Los Angeles, ESS 288B Atmospheric Sciences Space Physics Seminar in November, 2002 Talk entitled: The nature of fluctuations observed by Cluster in the plasma sheet.
- Invited Speaker for seminar given at the University of California, Los Angeles, ESS 286A in January, 2003. Talk entitled: The nature of fluctuations observed by Cluster in the plasma sheet Planetary Science Seminar.
- Invited Speaker for seminar given at the University of California, Los Angeles, in February, 2003. Talk entitled: Plasma sheet turbulence observed by Cluster Institute of Geophysics and Planetary Physics Seminar Series.
- Invited Speaker for seminar given at the University of California, Los Angeles, ESS 288B Atmospheric Sciences Space Physics Seminar in January, 2004. Talk entitled: Plasma sheet turbulence.

- Invited Speaker for seminar given at the Bartol Research Institute, University of Delaware in October, 2004. Talk entitled: Plasma sheet turbulence observed by Cluster.
- Invited Speaker for seminar given at IGPP, University of California, Riverside in November 2005. Talk entitled: Non-self similar scaling of magnetic field fluctuations in the solar wind and the plasma sheet.
- Invited Speaker for ESS 288B Atmospheric Sciences Space Physics Seminar in January 2006. Talk entitled: A trip to the Antarctic Ice Cap.
- Invited Speaker for ESS 288B Atmospheric Sciences Space Physics Seminar in February 2006. Talk entitled: Substorm Onsets and the Harang Discontinuity.
- Invited Speaker for seminar given at IGPP, University of California, Los Angeles in November 2007. Talk entitled: Correlative Scale, Taylor Scale, and Effective Magnetic Reynolds Number Determination from Plasma Sheet and Solar Wind Magnetic Field Fluctuations.
- Invited Speaker for seminar given at IGPP, University of California, Los Angeles in April 2010. Talk entitled: Anisotropies Observed in Magnetic Field Fluctuations Measured in the Solar Wind and Foreshock.
- Invited Speaker for ESS 288B Atmospheric Sciences Space Physics Seminar in March 2012. Talk entitled: Installation of Magnetometer Arrays in Antarctica.
- Invited Speaker for ESS 288B Atmospheric Sciences Space Physics Seminar in November 2013. Talk entitled: Auroral Electrojet indices in the Northern and Southern Hemisphere: a statistical study.
- Invited Speaker for Space Physics Research Group Seminar at University of California, Berkeley (Physics 290B) in October 2014. Talk entitled: Conjugate Northern and Southern Magnetic Substorms in Magnetometer Data.
- Invited Speaker for ESS 288B Atmospheric Sciences Space Physics Seminar in October 2014. Talk entitled: Omega Bands: An Auroral Enigma.
- Invited Speaker for Physics Colloquia at St. Olaf College, Minnesota in November 2014. Talk entitled: Conjugate Northern and Southern Magnetic Substorms in Magnetometer Data.
- Invited Speaker for Laboratory for Atmospheric and Space Physics Seminar in April 2015. Talk entitled: Anisotropies Observed in Magnetic Field Fluctuations Measured in the Solar Wind and Foreshock.
- Invited Speaker for the University Centre in Svalbard in November 2015. Talk entitled: Differences in Onset Time of Conjugate Magnetic Substorms.
- Invited Speaker for National Oceanic and Atmospheric Administration Seminar in August 2016. Talk entitled: The Spherical Elementary Current Systems Method and Space Weather.
- Education and Public Outreach Seminar for Sierra Club in August 2017. Talk entitled August 21, 2017 Solar Eclipse.

- **Speaker** for Department of EPSS at UCLA ARTEMIS/THEMIS seminar in April 2018. Talk entitled: Temporal and Spatial Development of vTECs During Substorms.
- **Invited Speaker** for German Research Centre for Geosciences seminar in Potsdam, Germany in October 2018 . Talk entitled: Temporal and Spatial Development of vTECs During Substorms.
- Invited Speaker for Institut für Geophysik und extraterrestrische Physik seminar at Technische Universität Braunschweig in Braunschweig, Germany in October 2018. Talk entitled: Temporal and Spatial Development of vTECs During Substorms.
- Invited Speaker for Department of Physics Seminar at the University of New Brunswick, Fredericton, Canada in November 2018. Talk entitled: Temporal and Spatial Development of vTECs During Substorms.
- Invited Speaker for NASA Jet Propulsion Laboratory in Pasadena, CA in January 2019. Talk entitled: Temporal and Spatial Development of vTECs During Substorms.
- **Speaker** for Department of EPSS at UCLA ARTEMIS/THEMIS seminar in April 2020. Talk entitled: Temporal and Spatial Development of TECs During Substorms.

Conference Presentations :

- Oral presentation for the American Geophysical Union Spring Conference at Baltimore, Maryland in May, 1994.
- Oral presentation at Freja Conference in February, 1995.
- Oral presentation at the Division of Aeronomy and Space Physics Conference at Banff, Alberta in February, 1995.
- Oral presentation at International Association of Geomagnetism and Aeronomy (IAGA) meeting Boulder, Colorado in July, 1995 (presented by M.G. Henderson).
- Oral presentation at American Geophysical Union Fall Conference in December, 1995 (presented by M.G. Henderson).
- Oral presentation at the Division of Aeronomy and Space Physics Conference in Ottawa, Ontario in February, 1996.
- Oral presentation for the 31st Committee on Space Research Scientific Assembly at Birmingham, England in August, 1996.
- Poster presentation at US-Finnish Space Physics Conference at Melbourne, Florida in February, 1997.
- Oral presentation at IAGA in Uppsala, Sweden in August, 1997.
- Poster presentation at the annual Canadian Association of Physicists Conference in Calgary, Canada in June, 1997.
- Oral presentation at the 5th CELIAS Postlaunch Workshop in Portsmouth, New Hampshire, U.S.A in October, 1998.
- Oral presentation at the American Geophysical Union Fall Conference in San Francisco, California in December, 1998.

- \bullet Oral presentation at the 6^{th} CELIAS Postlaunch Workshop in Pertisau, Austria in March, 1999.
- Oral presentation at the 24th European Geophysical Society in Den Hague, the Netherlands in April, 1999.
- Poster presentation at American Geophysical Union Spring Conference in Boston, Massachusetts, U.S.A. in June, 1999.
- Poster presentation at the 8th SOHO Workshop in Paris, France in June, 1999.
- Oral presentation at the 7th CELIAS Postlaunch Workshop in Couvet, Switzerland in October, 1999.
- Oral presentation at the American Geophysical Union Fall Conference in San Francisco, California in December, 1999.
- Oral presentation at the 8th CELIAS Postlaunch Workshop in Charleston, South Carolina in March, 2000.
- Oral presentation at the European Geophysical Union Conference in Nice, France in April, 2000.
- 2 Oral presentations at the American Geophysical Union Spring Conference in Washington D.C. in May, 2000.
- Poster presentation at the Joint SOHO-ACE Workshop 2001 Solar and Galactic Composition in Bern, Switzerland in March 6 9, 2001.
- Oral presentation at the European Geophysical Union Conference in Nice, France in April, 2001.
- Poster presentation at the IGPP Annual Meeting at University of California, Los Angeles in May, 2001.
- Oral presentations at the American Geophysical Union Spring Conference in Boston, Massachusetts, U.S.A. in May, 2001.
- Poster presentation at the Geospace Environment Modeling Workshop in Snowmass, Colorado, U.S.A. in June, 2001.
- Poster presentation at the American Geophysical Union Fall Conference in San Francisco, California in December, 2001.
- Poster presentation at the Magnetospheric Imaging Workshop in Yosemite, California in February, 2002.
- Oral and Poster presentation at the Geospace Environment Modeling Workshop in Snowmass, Colorado, U.S.A. in June, 2002.
- Invited Speaker, Oral presentation and Poster presentations at the Geospace Environment Modeling Workshop in Snowmass, Colorado, U.S.A. in June, 2003. Talk entitled: The Magnetotail (in the Student Tutorials).
- Oral presentation at the American Geophysical Union Fall Conference in San Francisco, California in December, 2003.
- Poster presentation at the Living With A Star workshop in Boulder, Colorado, U.S.A. in March, 2004.
- Oral and Poster presentation at the American Geophysical Union Spring Conference in Montreal, Quebec, Canada in May, 2004.
- Poster presentation at the Geospace Environment Modeling Workshop in

Snowmass, Colorado, U.S.A. in June, 2004.

- Two Poster presentations at the American Geophysical Union Fall Conference in San Francisco, California in December, 2004.
- Oral Presentation at the Annual Cluster/FGM workshop in London, England. in March, 2005.
- Oral Presentation at the European Geophysical Union Conference in Vienna, Austria in April, 2005.
- Poster Presentation at the European Geophysical Union Conference in Vienna, Austria in April, 2005.
- Oral Presentation at the a Turbulence Workshop held at the Institute of Geophysics and Planetary Physics in Los Angeles, California, USA in May, 2005.
- Oral Presentation at Solar Wind 11, Whistler, BC, Canada in June 2005.
- Invited Speaker at the a Turbulence Workshop held at Santa Fe, NM organized by J. Borovsky at Los Alamos National Laboratory, in Santa Fe, NM, October, 2005. Talk entitled: Non-self similar scaling of magnetic field fluctuations in the solar wind and the plasma sheet.
- Invited Speaker for Dynamical Processes in Space Plasmas workshop at the Dead Sea, Israel in May 2006. Talks entitled: Spatial correlation of the solar wind from two point measurements and Finite size scaling in the solar wind magnetic field observed in individual slow and fast solar wind intervals.
- Invited Speaker for UCLA Turbulence Workshop at UCLA, Los Angeles, CA in May 2006. Talk entitled: New preliminary effective magnetic Reynolds number estimates from two point measurements for plasma sheet and solar wind.
- Oral Presentation at the 8th International Conference on Substorms in Banff, Canada in March 2006. Talk entitled: Substorm Onsets and the Harang Discontinuity.
- Invited Speaker for Solar wind magnetosphere coupling conference in Puerto Vallarta, Mexico in November 2006. Talk entitled: Spatial correlation of solar wind and plasma sheet turbulence from two point measurements.
- Oral Presentations at the 6th Annual International Astrophysics Conference in Ohau, Hawaii in March, 2007. Talk entitled: Spatial correlations of solar wind and plasma sheet turbulence from two point measurements.
- Oral Presentations at the Greenland Space Science Symposium in May 2007. First Talk entitled: Conjugate calculations of AE indices. Second Talk entitled: Substorm onsets and the Harang discontinuity.
- Oral and Poster Presentations at the Geospace Environment Modeling Workshop in Midway, Utah in June 2007. Talk entitled: Virtual Magnetospheric Observatory. Poster entitled: Relation of Substorm Onset to Local AL Index.
- Oral Presentations at the Spatio-Temporal Analysis Multipoint Measurements in Space 2 conference in Orleans, France in September 2007. Talk entitled: Correlative scale and effective magnetic Reynolds number

determination from plasma sheet and solar wind magnetic field fluctuations.

- Invited Speaker for 15th Cluster Workshop and CAA school in Tenerife, Canary Islands in March 2008, Talk entitled: Correlative scale and effective magnetic Reynolds number determination from plasma sheet and solar wind magnetic field fluctuations.
- Invited Speaker for the International Polar Year-ICESTAR workshop in Bergen, Norway in April 2008, Talk entitled: Preliminary THEMIS ground magnetometer equivalent ionospheric currents.
- Invited Speaker for the Western Pacific Geophysics Meeting in Cairns, Australia in July 2008, Talk entitled: Taylor scale determination from plasma sheet magnetic field fluctuations and power density spectra.
- Oral Presentation for the Western Pacific Geophysics Meeting in Cairns, Australia in July 2008, Talk entitled: Populating and Harvesting Metadata in the Virtual Magnetospheric Observatory.
- Invited Speaker for The interface between Plasma Dissipation Processes and MHD Turbulence in Space Plasmas in Santa Fe, New Mexico in October 2008, Talk entitled: Spatial Correlation of Solar Wind and Plasma Sheet Turbulence from Two Point Measurements.
- Two Oral Presentations at the Geospace Environment Modeling Workshop in Snowmass, CO in June 2009. Talks entitled: Equivalent Ionospheric Currents Derived from THEMIS, GIMA, MACCs, Greenland, CARISMA, and CANMOS Magnetometer Arrays; and Anisotropies of the Taylor Scale, Correlation Scale, and Effective Magnetic Reynolds Number Determination from Plasma Sheet Magnetic Field Fluctuations.
- Invited Speaker at the Dynamical Processes in Space Plasmas at the Dead Sea, Israel in April, 2010. Talk entitled: Multiple Magnetic Correlation Scales in the Solar Wind.
- Invited Speaker and Oral presentation at the Meeting of Americas in Iguassu Falls, Brazil in August, 2010. Talk entitled: A Preliminary Comparison Between SuperDARN Flow Vectors and Equivalent Ionospheric Currents from the GIMA, Greenland, MACCS, THEMIS, CARISMA, and CANMOS ground magnetometer arrays. Talk entitled: Multiple Magnetic Correlation Scales in the Solar Wind.
- Invited Speaker and Poster at the 20th Cluster Workshop and CAA school in Corfu, Greece in September, 2010. Talk entitled: A Preliminary Comparison Between SuperDARN Flow Vectors and Equivalent Ionospheric Currents from the GIMA, Greenland, MACCS, THEMIS, CARISMA, and CANMOS ground magnetometer arrays. Poster entitled: Getting Data Into & Out of NASAs Virtual Magnetospheric Observatory.
- Invited Speaker for International Astrophysics Forum Alpbach, Congress Center Alpbach, Tyrol, Austria in June 2011.
- Poster Presentation at the Geospace Environment Modeling Workshop

in Santa Fe, NM in June 2011. Poster entitled: Application and Validation of the Spherical Elementary Currents Systems Technique for Deriving Ionospheric Equivalent Currents with the North American and Greenland Ground Magnetometer Arrays.

- Poster Presentation at the 3rd Joint Cluster-THEMIS Workshop in Boulder, CO in October 2012. Poster entitled: Observations of Two Different Types of Current Configurations During North South arcs.
- Poster Presentation at the Chapman Conference on Fundamental Properties and Processes of Magnetotails in Reykjavik, Iceland in March, 2013. Poster entitled: A Statistical Comparison of Auroral Electrojet Indices in the Northern and Southern Hemispheres.
- Poster Presentation at the Solar, Heliospheric, and INterplanetary Environment Workshop in Lake Lanier, GA in June 2013. Poster entitled: A Comparison of Magnetic Correlation Functions in the Solar Wind.
- Oral Presentation at the Mechanics of the Magnetospheric System and Effects on the Polar Region Workshop in Oct 2013 in Torres del Paine, Chile. Talk entitled: Differences in Substorm Onset Times at Conjugate Stations: Preliminary Report.
- Invited Speaker at the SAMBA-iMAGS Workshop in Oct 2013 in Punta Arenas, Chile. Talk entitled: Differences in Substorm Onset Times at Conjugate Stations: Preliminary Report.
- Poster Presentation at the Geospace Environment Modeling Workshop in Norfolk, VA in June 2014. Poster entitled: Conjugate Northern and Southern Magnetic Substorms in Magnetometer Data.
- Poster Presentation at the Inner Magnetosphere Coupling Workshop in Los Angeles, CA in March 2015. Poster entitled: Spherical Elementary Current Systems Method Identifies the R1/R2 Boundary within 1 deg.
- Oral Presentation at the University of California, Los Angeles Plasma Fest in Los Angeles, CA in Sept 2015. Talk entitled: Chaos in the Solar Wind.
- Invited Speaker for the Ground-Based Magnetometer Array Planning Workshop in Greenbelt, MD in May 2016. Talk entitled: The Application and Validation of the Spherical Elementary Currents Systems Technique for Dering Ionospheric Currents with the North American and Greenland Arrays.
- Oral Presentation at the Solar, Heliospheric, and INterplanetary Environment Workshop in Sant Fe, NM in July 2016. Poster entitled: Complexity Variation in the Interplanetary Magnetic Field between 0.5 and 5.4 AU.
- Oral Presentation at the Fourth Cluster/THEMIS Workshop in Palm Springs, CA in November 2016. Talk entitled: Occurrence of Auroral Omega Bands and Possible Mechanims.
- Oral Presentation at the 13th International Conference on Substorms in

September 2017. Talk entitled: Temporal and Spatial Development of dB/dt during Substorms.

- Oral Presentation at the International Community Coordinate Modeling Center meeting in Florida 2017. Talks entitled: The Application and Validation of the Spherical Elementary Current Systems Technique for Deriving Ionospheric Currents with the North American and Greenland Ground Magnetometer Arrays and North American and Greenland Ground Magnetometers.
- Oral and Poster Presentation at the Geospace Environment Modeling workshop in Virginia 2017. Talk entitled: Temporal and Spatial Development of dB/dt During Substorms.
- Oral Presentation at Committee on space Research Assembly California in 2018. Talk entitled: Temporal and Spatial Development of TECs During Substorms.
- Oral Presentations at the mini-Geospace Environment Modeling workshop in Washington D.C. in 2018. Talks entitled: Hemispherically Conjugate Magnetometer Observations and The Spherical Elementary Current Systems Method, Dipolarizations, and Substorms.
- Oral Presentations at the 14th International Conference on Substorms in Tromso, Norway in 2019. Talked entitled: The Source of Auroral Omega Bands.
- Oral Presentations at the International Space Weather Action Teams workshop in Florida in 2020. Talk entitled: Spherical Elementary Currents and dB/dt results for 17 March 2015 and 7 September 2017.
- Invited Speaker for Ham Radio Science Citizen Investigation workshop in Pennsylvania in 2020. Talk entitled: Temporal and Spatial Development of TECs During Substorms.

Funded Research Grants

1.	Moldwin, M.B., and J.M. Weygand, On Understanding the Origin and Properties of Magnetic Structures in the Solar Wind, submitted to NRA 01-OSS-01 SRT in 2002, award number: NAG5-12823.	FUNDED PROPOSAL
2.	Angelopoulos, V., NASA THEMIS/MIDEX Phase A, submitted to NASA in 2002, award number: SA3650:15. J.M. Weygand as Research Assistant.	FUNDED PROPOSAL RESEARCH
3.	McPherron, R.L., A GEM investigation of the asymmetry of magnetic storm effects and their implications regarding ring current injections, submitted to NSF GEM in 2002, award number: ATM-0201798. J.M. Weygand as Research Assistant.	FUNDED PROPOSAL
4.	Kivelson, M.G., UCLA Cluster II Mission Participation, submitted to NASA in 2002, award number: NAG5-12131. ATM-0201798. J.M. Weygand as Research Assistant.	FUNDED PROPOSAL
5.	Weygand, J.M., R.L. McPherron, O. Amm, E. Donovan, F. Harald, M. Henderson, F. Honary, TS. Hsu, K. Liou, I. Mann, J. Murphree, and G. Parks, Solar wind and IMF control of Substorm onset and development of the current Wedge, submitted to ROSS-2004 in 2004: NNH04ZSS0001N, award number: SECGIP04-0029-0165.	FUNDED PROPOSAL
6.	Walker, R., S. Joy, L. Bargatze, J.M. Weygand, P. Chi, C.T. Russell, and T. King, Virtual observatories for solar system and space physics, submitted to NNH05ZDA001N-S3CVO in 2005, award number: 05-S3CVO05-0006, 2005.	FUNDED PROPOSAL
7.	Kivelson, M.G., Magnetometer team at UCLA for the Cluster II Mission, submitted to NASA in 2005, award number: NNG05GF56G. J.M. Weygand as Research Assistant.	FUNDED PROPOSAL
8.	Hsu, TS., R.L. McPherron, and J.M. Weygand, Determination of Relative Timing of Substorm Associated Phenomena Using Multi-Satellite Observations, submitted to NASA NNH06ZDA001N-HGI, 2006.	FUNDED PROPOSAL
9.	Weygand, J.M., GEM: Influence of solar wind and modes of geomagnetic activity on plasma sheet turbulence, submitted to NSF GEM, award number: NSF 04-576.	FUNDED PROPOSAL
10.	Matthaeus, W.H., S. Dasso, J.M. Weygand, Continuation of RSSW@1AU Project: Statistical Characterization of Solar Wind Fluctuations at 1AU using multiple spacecraft data, submitted to NASA in 2008.	FUNDED PROPOSAL

11.	Kivelson, M.G., Studies of plasma in the terrestrial	FUNDED
	magnetosphere using data from the Cluster II mission,	PROPOSAL
	submitted NASA in 2009, award number: NNX09AH01G.	
12.	Weygand, J.M., A. Boudouridis, E. Zesta, A Comparison of	FUNDED
	Conjugate Auroral Electrojet Indices, NSF Antarctica proposal,	PROPOSAL
	submitted to NSF Antarctic Program, 2010.	11001 0.0112
13.	Weygand, J.M., W.H. Matthaeus, and S. Oughton,	FUNDED
10.	Eulerian Decorrelation Functions Derived from Multispacecraft	PROPOSAL
	Observations of Interplanetary Magnetic Field Fluctuations,	I HOI ODAL
	submitted to NSF SHINE, 2011.	
14.	Walker, R., T. King, J.M. Weygand (Key Personnel), Virtual	FUNDED
14.		UNSOLICITED
	Magnetospheric Observatory (VMO), submitted to NASA	
15	Goddard NNX12AQ12G, 2012.	PROPOSAL
15.	Weygand, J.M., Data Services Upgrade: Spherical Elementary	FUNDED
	Current System Archive for Magnetosphere-Ionosphere Coupling	PROPOSAL
10	over North America, submitted to NASA HIDEE, 2013.	
16.	Weygand, J.M., Data Services Upgrade: Restoration of OGO	FUNDED
	and Explorer Fluxgate Magnetometer Data, submitted to NASA	PROPOSAL
. –	HIDEE, 2013.	
17.	Walker, R., T. King, J.M. Weygand (Key Personnel), Metadata	FUNDED
	Additions and Enhancements for the Heliophysics Data	UNSOLICITED
	submitted to NASA Goddard NNX14AJ09G, 2014.	PROPOSAL
18.	Matthaeus, W.H., A.F. Rappazzo, D. Ruffolo, J.M. Weygand,	FUNDED
	(CoI) M. Wan, A. Usmanov, Trapping, Transport and Dynamic	PROPOSAL
	Behavior of Magnetic Connectivity and Energetic Particles	
	in the Inner Heliosphere: Implications for Solar Probe,	
	Solar Orbiter and Heliospheric Prediction.	
19.	Walker, R., T. King, J.M. Weygand (Key Personnel), Information	FUNDED
	Model Maintenance with Metadata Additions and Enhancements for	UNSOLICITED
	the Heliophysics Data Environment, submitted to NASA	PROPOSAL
	Goddard, 2015.	
20.	Weygand, J.M., Data Services Upgrade: expansion of Spherical	FUNDED
	Elementary Current System Data Set for Magnetosphere-Ionosphere	PROPOSAL
	Coupling, submitted to NASA HIDEE, 2015.	
21.	Weygand, J.M., Investgation of the Differences in Onset Times of	FUNDED
	Hemispherically Conjugate Substorms, submitted to NSF Baseline	PROPOSAL
	NSF 15-545, 2015.	
22.	Matthaeus, W.H., J.M. Weygand (Co-I), Multiple Spacecraft Time	FUNDED
	Space Correlation - Method and Implementation, submitted to NASA	PROPOSAL
	Heliophysics Guest Investigator Program, 2016.	
23.	Walker, R., T. King, J.M. Weygand (Key Personnel), HPDE	FUNDED
	Community Data and Simulation Metadata and Standards Services,	PROPOSAL
	submitted to NASA Heilosphysics Data Environment, NASA HPDE-	
	80GSFC17C0018 2017.	

24.	Hwang, KJ., J.M. Weygand (Co-I), The Dynamics of Earth's Magnetopause in the Presence of Flow Shear, submitted to	FUNDED PROPOSAL
	NASA Magnetosphere Multiscale Mission Guest Investigator, 2017.	1 HOI ODILL
25.	Matthaeus, W.H., J.M. Weygand (Co-I), Trapping, Transport, and	FUNDED
	Dynamic Behavior of Magnetic Connectivity and Energetic Particle in the Inner Helisphere: Implications for Solar Probe, Solar	PROPOSAL
	Orbiter, and Helispheric Predictions, submitted to NASA Living With a Star, 2017.	
26.	Weygand, J.M., The Source of Auroral Omega Bands, submitted to	FUNDED
	NASA Heliphysics Guest Investigator, NASA HGIO- 80NSSC18K0719, 2017	PROPOSAL
27.	Strangeway, R. and J.M. Weygand (Co-I), Investigation of the Role	FUNDED
	of Force Balance in Magnetosphere-Ionosphere Coupling, Submitted	PROPOSAL
	to NASA Heliophysics Space Research, NASA HSR- 80NSSC18K1220, 2018.	
28.	Bortnik, J. and J.M. Weygand (Co-I), Quantifying the response	FUNDED
_0.	of ionospheric currents to substorm-time and non-substorm fast	PROPOSAL
	flows, submitted to NASA Heliophysics Space Research, NASA	
	HSR-80NSSC18K1227, 2018.	
29.	Yao, Z., Q. Shi, and J.M. Weygand (Collaborator), The morphology	FUNDED
	of aurora at Earth and giant planets: characteristics and their	WORKSHOP
	magnetospheric implications, submitted to The International Space	PROPOSAL
	Science Institute, 2020.	
30.	Welling, D. and J.M. Weygand (Co-I), The Center for the	FUNDED
	Unified Study of Interhemispheric Asymmetries (CUSIA), Submitted	PROPOSAL
	to NASA Diversity, Realize, Integrate, Venture, Educate, 2020.	
31.	Hartinger, M., and J.M. Weygand (Co-I), NSFGEO-NERC:	FUNDED
	Collaborative Research - Conjugate Experiment to Investigate	PROPOSAL
	the Sources of High-Latitude Magnetic Perturbations in the	
	Coupled Solar Wind-Magnetosphere-Ionosphere-Ground System,	
22	NSF-GEO-NERC, Award Number: 2027190, 2020.	
32,	Ngwira, C., and J.M. Weygand (Co-I), Magnifying the Augury of	FUNDED
	GICs over Contiguous USA (MAGIC-CUSA), NOAA-Small Business	PROPOSAL
	Innovation Research Program, 2020.	

Published Work

1.	Weygand, J.M., UV Auroral Images with Polar Rain	THESIS
	Precipitation, Thesis, University of Calgary, September, 1994.	
2.	Henderson, M.G., J.S. Murphree, and J.M. Weygand,	RESEARCH
	Observations of auroral substorm occurring together	ARTICLE
	with preexisting "quiet time" auroral patterns, J .	
	Geophys. Res., 101 , A11, 24621-24,640, 1996.	
3.	Weygand, J.M., Hnoss: A low altitude micro-satellite for	TECHNICAL
	imaging small scale polar arcs, Technical Report ISR-95-12 ,	REPORT
	November, 1995.	
4.	Weygand, J.M., Polar Cap Arcs A New Classification Scheme,	DISSERTATION
	Dissertation, University of Calgary, April, 1998.	
5.	Kauristie K., J.M. Weygand, T.I. Pulkkinen, J.S. Murphree,	RESEARCH
	and P.T. Newell, Size of the auroral oval: UV ovals and	ARTICLE
	precipitation boundaries compared, J. Geophys. Res., 104,	
	A2, 2321-2331, 1999.	
6.	Weygand, J.M., F.M. Ipavich, P. Wurz, J.A. Paquette, and	RESEARCH
	P. Bochsler, Determination of the argon isotopic ratio of	ARTICLE
	the solar wind using SOHO/CELIAS/MTOF, Proceedings of the	
	8th SOHO Workshop Plasma Dynamics and Diagnostics in the	
	Solar Transition Region and Corona, Paris, France, 22-25	
	June 1999, ESA SP-446 , 701-705, October, 1999.	
7.	Bochsler, P., F.M. Ipavich, J.A. Paquette, J.M. Weygand,	RESEARCH
	and P. Wurz, Determination of the abundance of aluminum	ARTICLE
	in the solar wind with SOHO/CELIAS/MTOF, J. Geophys. Res.,	
	105 , A6, 12,659-12,666, 2000.	
8.	Bogdanov, A.T., B. Klecker, E. Möbius, M. Hilchenbach,	RESEARCH
	L.M. Kistler, M.A. Popecki, D. Hovestadt, and J.M. Weygand,	ARTICLE
	Energy dependence of ion charge states in CME related solar	
	energetic particle events observed with ACE/SEPICA and	
	SOHO/STOF, CP528, Acceleration and Transport of Energetic	
	Particles Observed in the Heliosphere: ACE 2000 Symposium,	
	ed. R.A. Melwaldt et al., 2000 American Institute of Physics,	
	143-146, 2000.	
9.	Weygand, J.M., J.S. Murphree, M.G. Henderson, and G. Enno	RESEARCH
	Simultaneous closed magnetic field line polar arcs and	ARTICLE
	Substorms, J. Atmos. Terr. Phys., 63, 643-655, 2001.	
10.	Weygand, J.M. and P. Wurz, Coronal temperature profiles from	RESEARCH
	the August 11, 1999 solar eclipse, Orion: Zeitschrift für	ARTICLE
	Amateur-Astronomie, 59 , no. 302, 4-9, 2001.	

11.	Weygand, J.M., F.M. Ipavich, P. Wurz, J.A. Paquette, and P.	RESEARCH
	Bochsler, Determination of the ${}^{36}\text{Ar}/{}^{38}\text{Ar}$ isotopic	ARTICLE
	abundance ratio of the solar wind using SOHO/CELIAS/MTOF,	
	Geochim. Cosmochim., 65 , 4589-4596, 2001.	
12.	Weygand, J.M., F.M. Ipavich, P. Wurz, J.A. Paquette, and P.	RESEARCH
	Bochsler, Determination of the Ar/Ca solar wind elemental	ARTICLE
	abundance ratio using SOHO/CELIAS/MTOF, Solar and Galactic	
	Composition, edited by R.F. Wimmer-Schweingruber, AIP Conf.	
	<i>Proc.</i> , 598 , 101-106, 2001.	
13.	Kauristie, K., K. Liou, L. Lazutin, O. Amm, A. Viljanen, P.T.	RESEARCH
	Newell, and J. Weygand, What is the interrelation between	ARTICLE
	polar cap and substorm processes?, Sixth International	
	Conference on Substorms proceedings, June, 2002.	
14.	Moldwin, M.B., P.C. Liewer, N. Crooker, J.F. Fennel, J. Feynman	RESEARCH
	H.O. Funsten, B.E. Goldstein, J.T. Gosling, J.E. Mazur, V.J.	ARTICLE
	C.T. Russell, and J.M. Weygand, Heliospheric Constellation:	
	Understanding the Evolution of the Solar Wind, Solar Wind	
	Ten: Proceedings of the Tenth International Solar Wind Conference,	
	M. Velli, R. Bruno, and F. Malara ed., 842-845, 2003.	
15.	Berube, D., M.B. Moldwin, and J.M. Weygand, An automated	RESEARCH
	method for the detection of field line resonance frequencies	ARTICLE
	using ground magnetometer techniques, J. Geophys. Res.,	
	108 , 1348, doi:10.1029/2002JA009737, 2003.	
16.	Weygand, J.M., Observations Associated with a Solar Eclipse,	POSTER FOR
	NASA OSS Education Resource, http://teachspacescience	EDUCATION
	stsci.edu/cgi-bin/ssrtop.plex, 2003 (Contact:	
	Elaine Lewis lewis@mail630.gsfc.nasa.gov).	
17.	Weygand, J.M. M.G. Kivelson, K.K., Khurana, H.K. Schwarzl, S.M.	RESEARCH
	Thompson, R.L. McPherron, A. Balogh, L. Kistler, M.L. Goldstein,	ARTICLE
	J. Borovsky, and D.A Roberts, Plasma sheet turbulence observed by	
	Cluster II, J. Geophys. Res., 110 , A01205, doi:	
	10.1029/2004JA010581, 2005.	
18.	Weygand, J.M. and J. Raeder, Cosmic ray cutoff prediction	RESEARCH
	using magnetic field from global magnetosphere MHD simulations,	ARTICLE
	Annales Geophysicae, 23 , 1-13, 2005.	
19.	Thompson, S.M., M.G. Kivelson, K.K. Khurana, R.L. McPherron,	RESEARCH
	J.M. Weygand, A. Balogh, H. Rème, and L.M. Kistler, Dynamic	ARTICLE
	harris current sheet thickness from Cluster current density and	
	plasma measurements, J. Geophys. Res., 110, A02212,	
	doi:10.1029/2004JA010714 2005.	

20.	Zhang, J., M.W. Liemohn, J.U. Kozyra, M.F. Thompsen, H.A. Elliot J.M. Weygand, A statistical comparison of solar wind sources of	RESEARCH ARTICLE
	moderate and intense geomagnetic storms at solar minimum and	
	maximum, J. Geophys. Res., 111 , A01104,	
	doi:10.1029/2005JA011065, 2005.	
21.	Matthaeus, W.H., S. Dasso, J.M. Weygand, L.J. Milano, C.W. Smith,	RESEARCH
	and M.G. Kivelson, Spatial correlation of solar wind turbulence	ARTICLE
	from two point measurements, Phys. Rev. Lett., 95, 231101, 2005.	
22.	Kivelson, M.G., R.L. McPherron, S. Thompson, K.K. Khurana,	RESEARCH
	J.M. Weygand, and A. Balogh, The response of the near Earth	ARTICLE
	magnetotail to substorm activity, Advances in Space Research,	
	36 , 1818-1824, 2005.	
23.	Wang, CP., L.R. Lyons, J.M. Weygand, T. Nagai, R.W. McEntire,	RESEARCH
	Equatorial distributions of plasma sheet ions, their electric	ARTICLE
	and magnetic drifts, and magnetic fields under different IMF	
	Bz conditions, J. Geophys. Res., 111, A04215,	
	doi:10.1029/2005JA011545, 2006.	
24.	Wang, H., H. Lühr, S.Y. Ma, J.M. Weygand, and R.K. Skoug,	RESEARCH
	Field aligned current observed by CHAMP the intense 2003	ARTICLE
	geomagnetic storm events, Annales Geophysicae, 24, 311-324, 2006.	
25.	Weygand, J.M. M.G. Kivelson, K.K. Khurana, H.K. Schwarzl,	RESEARCH
	R. Walker, A. Balogh, L.M. Kistler, and M.L. Goldstein, Non-	ARTICLE
	self similar scaling of plasma sheet and solar wind probability	
	distribution functions of magnetic field fluctuations,	
	J. Geophys. Res., 111 , A11209, doi:10.1029/2006JA011820, 2006.	
26.	Weygand, J.M., and R.L. McPherron, Dependence of ring current,	RESEARCH
	asymmetry on storm phase, J. Geophys. Res., 111, A11221,	ARTICLE
07	doi:10.1029/2006JA011808, 2006.	
27.	Lavraud, B., M.F. Thomsen, S. Wing, M. Fujimoto, M.H. Denton,	RESEARCH
	J.E. Borovsky, A. Aasnes, K. Seki, and J. Weygand, Observation	ARTICLE
	of two distinct cold, dense ion populations at geosynchronous	
	orbit: local time asymmetry, solar wind dependence and origin,	
00	Annales Geophysicae, 24 , $3451-4565$, 2006.	
28.	Østgaard, N., S.B. Mende, H.U. Frey, J.B. Sigwarth, A. Åsnes,	RESEARCH
	J.M. Weygand, Auroral conjugacy studies based on global imaging,	ARTICLE
	8 th International Conference on Substorms conference	
20	proceedings, 215-218, 2006.	RESEARCH
29.	McPherron, R.L., and J.M. Weygand, The solar wind and geomagnetic activity as a function of time relative to corotating interaction	ARTICLE
	regions, Recurrent Magnetic Storms: Corotating Solar Wind	ANTIOLE
	Streams, ed. B. Tsurutani, R.L. McPherron, W. Gonzalez, G. Lu,	
	J.H.A. Sobral, N. Gopalswamy, AGU Monograph, 167, 125-137, 2005.	
	5.11.11. Sobrai, 11. Copaiswailly, 1100 monograph, 101, 120-151, 2000.	

30.	Chalkia, L., The Solar System in the Universe, ed. L. Chalkia,	PHOTOS FOR
	Crete University Press, Crete, Greece, 2006.	ED. TEXT
31.	Denton, M.H., M.F. Thomsen, B. Lavraud, M.G. Henderson, R.M.	RESEARCH
	Skoug, H.O. Funsten, JM. Jahn, C.J. Pollock, and J.M. Weygand,	ARTICLE
	Transport of plasma sheet material to the inner magnetosphere,	
	Geo. Res. Lett., 34 , L04105, doi:10.1029/2006GL027886, 2006.	
32.	Lee, DY., L.R. Lyons, K.C. Kim, JH. Baek, KH. Kim, HJ. Kim,	RESEARCH
	J.M. Weygand, YJ. Moon, KS. Cho, Y.D. Park, and W. Han,	ARTICLE
	Repetitive substorms caused by Alfvénic waves of the interplanetary	
	magnetic field during high-speed solar wind streams,	
	J. Geophys. Res., 111 , A12214, doi:10.1029/2006JA011685, 2006.	
33.	Wanliss, J.A, and J.M. Weygand, Power law burst lifetime	RESEARCH
	distribution of the SYM-H index, Geo. Res. Lett., 34, L04107,	ARTICLE
	doi:10.1029/2006GL028235, 2006	
34.	Østgaard, N., S.B. Mende, H.U. Frey, J.B. Sigwarth, A. Åsnes,	RESEARCH
	J.M. Weygand, Auroral conjugacy studies based on global imaging,	ARTICLE
	Journal of Atmospheric and Solar-Terrestrial Physics, 69, 249-255,	
	2007.	
35.	Lee, DY., L.R. Lyons, J.M. Weygand, CP. Wang, Reasons why	RESEARCH
	some solar wind changes do not trigger substorms, J. Geophys.	ARTICLE
20	<i>Res.</i> , 112 , A06240, doi:10.1029/2007JA012249, 2007.	
36.	McPherron, R.L., J.M. Weygand, and TS.Hsu, The response of the	RESEARCH
	Earth's magnetosphere to changes in the solar wind, <i>Journal</i>	ARTICLE
	of Atmospheric and Solar-Terrestrial Physics, 70 , 303-315, doi:10.1016/j.icottp.2007.08.040.2007	
37.	doi:10.1016/j.jastp.2007.08.040, 2007. Ohtani, S., J.M. Weygand, et al., Cluster observation in the	RESEARCH
57.	inner magnetosphere during the April 2002 sawtooth event:	ARTICLE
	dipolarization and injection at $R = 4.6 \text{ RE}$, J. Geophys. Res.,	ANTIOLE
	112 , A08213, doi: $10.1029/2007$ JA012357, 2007.	
38.	Weygand, J.M., W.H. Matthaeus, M.G. Kivelson, S. Dasso,	RESEARCH
00.	and R.J. Walker, Taylor scale and effective magnetic Reynolds	ARTICLE
	number determinations from plasma sheet and solar wind magnetic	
	field fluctuations, J. Geophys. Res., 112 , A10201,	
	doi:10.1029/2007JA012486, 2007.	
39.	Wang, CP., L.R. Lyons, T. Nagai, J.M. Weygand, R.W. McEntire,	RESEARCH
	Sources, transport, and distribution of plasma sheet ions and	ARTICLE
	electrons and dependencies on interplanetary parameters under	
	northward interplanetary magnetic field, J. Geophys.	
	<i>Res.</i> , 112 , A10224, doi:10.1029/2007JA012522, 2007.	
40.	Weygand, J.M., R.L. McPherron, H.U. Frey, O. Amm, K. Kauristie,	RESEARCH
	A. Viljanen, A. Koistinen, Relation of substorm onset to	ARTICLE
	Harang discontinuity, J. Geophys. Res., 113,	
	A04213, doi:10.1029/2007JA012537, 2008.	

41.	Weygand, J.M., and E. Zesta, Comparison of auroral electrojet	RESEARCH
	indices in the Northern and Southern hemispheres, J. Geophys.	ARTICLE
	Res., 113, A08202, doi:10.1029/2008JA013055, 2008.	
42.	Weygand, J.M., R.L. McPherron, K. Kauristie, H.U. Frey, and	RESEARCH
	TS. Hsu, Relation of substorm onset to local AL index,	ARTICLE
	Journal of Atmospheric and Solar-Terrestrial Physics., 70,	
	2336-2345, doi:10.1016/j.jastp.2008.09.030, 2008.	
43.	Dasso, S., W.H. Matthaeus, J.M. Weygand, P. Chuychai, L.J.	RESEARCH
	Milano, C.W. Smith, and M.G. Kivelson, ACE/Wind multi-	ARTICLE
	spacecraft analysis of anisotropic solar wind fluctuations, Proc. of the	
	30th International Cosmic Ray Conference (ICRC) in Mérida,	
	Yucatán, México, July 3-11, 1, 625-628, 2008.	
44.	Matthaeus, M.H., J.M. Weygand, P. Chuychai, S. Dasso,	RESEARCH
	C.W. Smith, and M.G. Kivelson, Interplanetary magnetic Taylor	ARTICLE
	microscale and implications for plasma dissipation,	
	<i>Phys. Rev. Lett.</i> , 678 , L141-L144, doi:10.1086/APJL22511, 2008.	
45.	Lyons, L.R., DY. Lee, S. Zho, CP. Wang, J.U. Kozyra, J.M.	RESEARCH
	Weygand, S.B. Mende, Dynamic pressure enhancements as a cause	ARTICLE
	of large-scale stormtime substorms, J. Geophys.	
	Res., 113, A08215, doi:10.1029/2007JA012926, 2008.	
46.	Weygand, J.M., and E. Zesta, Correction to "Comparison of	RESEARCH
	auroral electrojet indices in the Northern and Southern	ARTICLE
	hemispheres", J. Geophys. Res., 113 , A09299, doi:10.1029/-,	
	2008JA013671, 2008.	
47.	Ohtani, S., Y. Miyoshi, H.J. Singer, and J.M. Weygand, On the	RESEARCH
	loss of relativistic electrons at geosynchronous altitude: Its	ARTICLE
	dependence on magnetic configurations and external conditions,	
	J. Geophys. Res., 114 , A01202, doi:10.1029/2008JA013391,	
	2009.	
48.	Keiling, A., V. Angelopoulos, A. Runov, J. Weygand, S.V.	RESEARCH
	Apatenkov, S. Mende, J. McFadden, D. Larson, O. Amm, KH.	ARTICLE
	Glassmeier, and H.U. Auster, Substorm current wedge driven	
	by plasma flow vortices: THEMIS observations, J. Geophys.	
	<i>Res.</i> , 114 , A00C22, doi:10.1029/2009JA014114, 2009.	
49.	Wang, CP., L.R. Lyons, R.A. Wolf, T. Nagai, J.M. Weygand,	RESEARCH
	A.T.Y. Lui, The plasma sheet $PV^{5/3}$ and nV associated	ARTICLE
	plasma and energy transport for different convection strengths	
	and AE levels, J. Geophys. Res., 114, A00D02,	
•	doi:10.1029/2008JA013849, 2009.	DECEADOU
50.	Weygand, J.M., W.H. Matthaeus, S. Dasso, and M.G. Kivelson,	RESEARCH
	Anisotropy of the Taylor Scale and the Correlation Scale in	ARTICLE
	plasma sheet and Solar Wind Magnetic Field Fluctuations,	
	J. Geophys. Res., 114 , A07213, doi:10.1029/2008JA013766, 2009.	

51.	McPherron, R.L., L. Kepko, T.I. Pulkkinen, TS. Hsu, J.M. Weygand, L.F. Bargatze, Changes in the Response of the AL Index with Solar Cycle and Epoch within a Corotating Interaction Region, <i>Annales Geophysicae</i> , 27 , 3165-3178, 2009.	RESEARCH ARTICLE
52.	Zhang, H., M.G. Kivelson, K. K. Khurana, J. McFadden, R. Walker, V. Angelopoulos, J.M. Weygand, T. Phan, D. Larson, K.H. Glassmeier, and H.U. Auster, Evidence that Crater FTEs are Initial Stages of Typical FTEs, <i>J. Geophys. Res.</i> , 115 , doi:10.1029/-2009JA015013, 2010.	RESEARCH ARTICLE
53.	Wang, CP., L.R. Lyons, T. Nagai, J.M. Weygand, A.T.Y. Lui, Evolution of plasma sheet particle content under different interplanetary magnetic field conditions, <i>J. Geophys.</i> <i>Res.</i> , 115 , A06210, doi:10.1029/2009JA015028, 2010.	RESEARCH ARTICLE
54.	 Ruiz, M.E., S. Dasso, E. Marsch, and J.M. Weygand, Anisotropy of the magnetic correlation function in the inner heliosphere, Proceedings of the Twelfth International Solar Wind Conference, AIP Conference Proceedings, edited by M. Maksimovic, N. Meyer-Vernet, M. Moncuquet, F. Pantellini, American Institute of Physics, New York, 2009. 	RESEARCH ARTICLE
55.	Gjerloev, J.W., R.A. Hoffman, S. Ohtani, J.M. Weygand, R. Bames, Response of the Auroral Electrojet Indices to Abrupt Southward IMF Turnings, <i>Ann. Geophys.</i> , 28 , 1167-1182, 2010.	RESEARCH ARTICLE
56.	Wing, S., S. Ohtani, P.T. Newell, T. Higuchi, G. Ueno, and J.M. Weygand, Dayside field-aligned current source regions, <i>J. Geophys. Res.</i> , 115 , doi:10.1029/2010JA015837, 2010.	RESEARCH ARTICLE
57.	El-Alaoui, M., M. Ashour-Abdalla, R.L. Richard, M.L. Goldstein, J.M. Weygand, and R. J. Walker, Global magnetohydrodynamic simulation of reconnection and turbulence in the plasma sheet, J. Geophys. Res., 115 , doi:10.1029/2010JA015653, 2010.	RESEARCH ARTICLE
58.	Weygand, J.M., W.H. Matthaeus, M. El-Alaoui, S. Dasso, and M.G. Kivelson, Anisotropy of the Taylor Scale and the Correlation Scale in Plasma Sheet Magnetic Field Fluctuations as a Function of Auroral Electrojet Activity, <i>J. Geophys. Res.</i> , 115 , doi:10.1029/2010JA015499, 2010.	RESEARCH ARTICLE
59.	Laundal, K.M., N. Ostgaard, H.U. Frey, and J.M. Weygand, Seasonal and IMF dependent polar cap contraction during substorm expansion phase, <i>J. Geophys. Res.</i> , 115 , doi:10.1029/2010JA015910, 2010.	RESEARCH ARTICLE
60.	Matthaeus, W.H., S. Dasso, J. M. Weygand, M. G. Kivelson, and K. T. Osman, Eulerian Decorrelation of Fluctuations in the Interplanetary Magnetic Field, <i>The Astrophysical</i> <i>Journal Letters</i> , 721 , L10-L13, doi:10.1088/ 2041-8205/721/1/L10, 2010.	RESEARCH ARTICLE

61.	 Frey, H.U., O. Amm, C.C. Chaston, S. Fu, G. Haerendel, L. Juusola, T. Karlsson, B. Lanchester, R. Nakamura, N. Ostgaard, T. Sakanoi, E. Seran , D. Whiter, J. Weygand, K. Asamura, and M. Hirahara, Small and meso-scale properties of a substorm onset auroral arc, J. Geophys. Res., 115, A10209, doi:10.1029/ 2010JA015537, 2010. 	RESEARCH ARTICLE
62.	Weygand, J.M., O. Amm, A. Viljanen, V. Angelopoulos, D. Murr, M.J. Engebretson, H. Gleisner, and I. Mann, Application and Validation of the Spherical Elementary Currents Systems Technique for Deriving Ionospheric Equivalent Currents with the North American and Greenland Ground Magnetometer Arrays, J. Geophys. Res., 116 , doi:10.1029/2010JA016177, 2011.	RESEARCH ARTICLE
63.	Ostgaard, N., K.M. Laundal, L. Juusola, A. Aasnes, S.E. Haaland, and J.M. Weygand, Interhemispherical asymmetry of substorm onset locations and the interplanetary magnetic field, <i>Geophys. Res.</i> <i>Lett.</i> , 38 , L08104, sdoi:10.1029/2011GL046767, 2011.	RESEARCH ARTICLE
64.	 Keiling, A., V. Angelopoulos, J.M. Weygand, O. Amm, E. Spanswick, E. Donovan, S. Mende, J. McFadden, D. Larson, KH. Glassmeier, and H.U. Auster, THEMIS ground-space observations during the development of auroral spirals, Ann. Geophys., 27, 4317-4332, 2009. 	RESEARCH ARTICLE
65.	 Nakamura, R. W. Baumjohann, E. Panov, A. A. Petrukovich, V. Angelopoulos, M. Volwerk, W. Magnes, Y. Nishimura, A. Runov, C.T. Russell, J.M. Weygand, O. Amm, HU. Auster, J. Bonnell, H. Frey, D. Larson, and J. McFadden, Flux transport, dipolarization and current sheet evolution during a double- onset substorm, J. Geophys. Res., 116, A00136, doi:10.1029/2010JA015865, 2011. 	RESEARCH ARTICLE
66.	Weygand, J.M., W. H. Matthaeus, S. Dasso, and M.G. Kivelson,Correlation and Taylor Scale Variability in the InterplanetaryMagnetic Field Fluctuations as a Function of Solar Wind Speed,J. Geophys. Res., doi:10.1029/2011JA016621, 2011.	RESEARCH ARTICLE
67.	 Sibeck, D.G., D. A. Brain, G. T. Delory, J. P. Eastwood, W. M. Farrell, R. E. Grimm, J. S. Halekas, H. Hasegawa, P. Hellinger, K. K. Khurana, R. J. Lillis, M. Oieroset, TD. Phan , J. Raeder, C. T. Russell, D. Schriver, J. A. Slavin, P. M. Travnicek, and J. M. Weygand, ARTEMIS Science Objectives, Space Science Reviews, 165, 59-91, doi:10.1007/s11214-011-9777-9, 2011. 	RESEARCH ARTICLE
68.	Boudouridis, A., L.R. Lyons, E. Zesta, J.M. Weygand, A.J. Ribeiro, and J. M. Ruohoniemi, Statistical study of the effect of solar wind dynamic pressure fronts on dayside/nightside ionospheric convection, <i>J. Geophys. Res.</i> , doi:10.1029/2011JA016582, 2011.	RESEARCH ARTICLE

69.	Volwerk, M., J. Berchem, Y.V. Bogdanov, O.D. Constantinescu, M.W. Dunlop, J.P. Eastwood, P. Escoubet, A.N. Fazakerley,	RESEARCH ARTICLE
	H. Frey, H. Hasegawa, B. Lavraud, E.V. Panov, C. Shen, J.K. Shi	ANTIOLE
	M.G.G.T. Taylor, J. Wang, J.A. Wild, Q.H. Zhang, O. Amm, and	
	J.M. Weygand, Interplanetary magnetic field rotations followed	
	from L1 to the ground: the response of the Earth's magnetosphere	
	as seen by multi-spacecraft and ground-based observations, Ann.	
	<i>Geophys.</i> , 29 , 1549-1569, 2011.	
70.	Partamies, N., L. Juusola, E. Tanskanen, K. Kauristie, and	RESEARCH
10.	J.M. Weygand, Substorms during different storm phases,	ARTICLE
	Ann. Geophys., 29 , 2031-2043, 2011.	MITIOTT
71.	Osman, K.T., M. Wan, J.M. Weygand, S. Dasso, W.H. Matthaeus,	RESEARCH
	Anisotropic Third-Moment Estimates of the Energy Cascade in	ARTICLE
	Solar Wind Turbulence using Multi-Spacecraft Data,	
	The Astrophysical Journal Letters, 107 , 165001, 2011.	
72.	Ruiz, M.E., S. Dasso, W.H. Matthaeus, E. Marsch, J.M.	RESEARCH
	Weygand, Aging of anisotropy of solar wind magnetic	ARTICLE
	fluctuations in the inner heliosphere, J. Geophys.	
	<i>Res.</i> , 116 , A10102, doi:10.1029/2011JA016697, 2011.	
73.	Wang, CP., M. Gkioulidou, L. Lyons, R. Wolf , V.	RESEARCH
	Angelopoulos, T. Nagai, J.M. Weygand, A. Lui, Spatial	ARTICLE
	distributions of ions and electrons from the plasma sheet	
	to the inner magnetosphere: comparisons between THEMIS-	
	Geotail statistical results and the Rice Convection Model,	
	J. Geophys. Res., 116 , A11216, doi:10.1029/	
	2011JA016809, 2011.	
74.	Kim, HJ., L. Lyons, A. Boudouridis, S. Pilipenko, A.J.	RESEARCH
	Ridley, J.M. Weygand, Statistical study of the effect of	ARTICLE
	ULF fluctuations in the IMF on the cross polar cap potential	
	drop for northward IMF, J. Geophys. Res., 116,	
	A10311, doi:10.1029/2011JA016931, 2011.	
75.	Yang, J., F. Toffoletto, R. Wolf, S. Sazykin, P. Ontiveros,	RESEARCH
	and J.M. Weygand, Large-scale current systems and ground	ARTICLE
	magnetic disturbance during deep substorm injections, J .	
	Geophys. Res., 117 , A4, doi:10.1029/2011JA017415,	
	2012.	

76.	 Jiang, F., R.J. Strangeway, M.G. Kivelson, J.M. Weygand, R.J. Walker, K.K. Khurana, Y. Nishimura, V. Angelopoulos, E. Donovan, In-situ observations of the preexisting auroral arc by THEMIS All Sky Imagers and the FAST spacecraft, J. Geophys. Res., 117, A05211, doi:10.1029/ 	RESEARCH ARTICLE
77.	2011JA017128, 2011. Weygand, J.M., O. Amm, V. Angelopoulos, S.E. Milan, A. Grocott, H. Gleisner, C. Stolle, Comparison Between SuperDARN Flow Vectors and Equivalent Ionospheric Currents from Ground Magnetometer Arrays, J. Geophys. Res., 117 , A05325, doi:10.1029/2011JA017407, 2012.	RESEARCH ARTICLE
78.	Gao, Y., M.G. Kivelson, R.J. Walker, and J.M. Weygand, Long-term variation of driven and unloading effects on polar cap dynamics, <i>J. Geophys. Res.</i> , 117 , A02203, doi:10.1029/2011JA017149, 2012.	RESEARCH ARTICLE
79.	Gao, Y., M. G. Kivelson, A. J. Ridley, J. M. Weygand, and R. J. Walker (2012), Utilizing the polar cap index to explore strong driving of polar cap dynamics, <i>J.</i> <i>Geophys. Res.</i> , 117 , A07213, doi:10.1029/ 2011JA017087, 2012.	RESEARCH ARTICLE
80.	Haerendel, G., H. U. Frey, C. C. Chaston, O. Amm, L. Juusola, R. Nakamura, E. Seran, and J.M. Weygand, Birth and Life of Auroral Arcs Embedded in the Evening Auroral Oval Convection: A Critical Comparison of Observations with Theory, J. Geophys. Res., 117, A12220, doi:10.1029/2012JA018128, 2012.	RESEARCH ARTICLE
81.	 Nakamura, R., W. Baumjohann, E. Panov, M. Volwerk, J. Birn, A. Artemyev, A.A. Petrukovich, O. Amm, L. Juusola, M.G. Kubyshkina, V.A. Sergeev, S. Apatenkov, E. Kronberg, P. Daly, A. Fazakerley, Y. Khotyaintsev, M. Fillingim, J. M. Weygand, Flow bouncing and electron injection observed by Cluster, J. Geophys. Res., 118, 2055-2072, doi:10.1002/ jgra.50134, 2013. 	RESEARCH ARTICLE
82.	Jackel, B., T. Cameron, J.M. Weygand, Orientation of solar wind dynamic pressure phase fronts, <i>J. Geophys. Res.</i> , 118 , 1379-1388, doi:10.1002/ jgra.50183, 2013.	RESEARCH ARTICLE
83.	Weygand, J.M., W. H. Matthaeus, M.G. Kivelson, and S. Dasso, Magnetic Correlation Functions in the Slow and Fast Solar Wind in the Eulerian Reference Frame, <i>J. Geophys.</i> <i>Res.</i> , 118 , doi:10.1002/jgra.50398, 2013.	RESEARCH ARTICLE

84.	Shi, Q., M. Hartinger, V. Angelopoulos, QG. Zong, XZ. Zhou,	RESEARCH
	X. Zhou, A. Kellerman, A. Tian, J.M. Weygand, S. Fu, Zuyin Pu,	ARTICLE
	J. Raeder, Y. Ge, Y. Wang, H. Zhang, Z. Yao, THEMIS observations	
	of ULF wave excitation in the nightside plasma sheet during sudden	
	impulse events, J. Geophys. Res., 118,	
	284-298, doi:10.1029/2012JA017984, 2012.	
85.	Archer, M. O., T. S. Horbury, J. P. Eastwood, J. M. Weygand,	RESEARCH
	and T. K. Yeoman, Magnetospheric response to magnetosheath	ARTICLE
	pressure pulses: A low-pass filter effect, J. Geophys. Res., 118,	
	doi:10.1002/jgra.50519, 2013.	
86.	Panov E. V., W. Baumjohann, R. Nakamura, O. Amm, M. V.	RESEARCH
	Kubyshkina, KH. Glassmeier, J. M. Weygand, V. Angelopoulos,	ARTICLE
	A. A. Petrukovich, and V. A. Sergeev, Ionospheric response	
	to oscillatory flow braking in the magnetotail, J. Geophys. Res.,	
	118 , 1529-1544, doi:10.1002/jgra.50190, 2013.	
87.	Chu, X., R.L. McPherron, TS. Hsu, J. Kissinger, V.	RESEARCH
	Angelopoulos, H. Zhang, M. Conners, K. Khurana, O. Amm, J.M.	ARTICLE
	Weygand, Development and Validation of Inversion Technique	
	for Substorm Substorm Current Wedge Using Ground Magnetic	
	Field Data, J. Geophys. Res., 119 , doi:10.1002/	
	2013JA019185, 2013.	
88.	Chuychai, P. J.M. Weygand, W.H. Matthaeus, S. Dasso, C.	RESEARCH
	Smith, M.G. Kivelson, Technique for Measuring and Correcting	ARTICLE
	the Taylor Microscale, J. Geophys. Res., 119, 42564265,	
	doi:10.1002/2013JA019641, 2014.	
89.	Weygand, J.M., E. Zesta, O. Troshichev, Auroral Electrojet	RESEARCH
	indices in the Northern and Southern Hemisphere: a statistical	ARTICLE
	study, J. Geophys. Res., 119, 4819-4840, doi:10.1002/-	
	2013JA019377, 2014.	
90.	Ruiz, M.E., S. Dasso, W.H. Matthaeus, and J.M. Weygand,	RESEARCH
	Characterization of the magnetic integral length in the solar	ARTICLE
	wind: from 0.3 to 5 astronomical units, <i>Solar Physics</i>	
	289 , doi:10.1007/s11207-014-0531-9, 3917-3933, 2013.	
91.	Shi,Q.Q., M.D. Hartinger, V. Angelopoulos, A.M. Tian, S.Y.	RESEARCH
	Fu, QG. Zong, J.M. Weygand, J. Raeder, Z.Y. Pu, X.Z. Zhou,	ARTICLE
	M.W. Dunlop, W.L. Liu, H. Zhang, Z.H. Yao, and X.C. Shen,	
	Solar wind pressure pulse-driven magnetospheric vortices	
	and their global consequences, J. Geophys. Res., 119,	
	4274-4280, doi:10.1002/2013JA019551, 2014.	

92.	Amosova, M. O. Amm, J. Norberg, J. Semeter, J.M. Weygand,	NON-REFEREED
	Electron density spatial correlation at F-layer: Preliminary	RESEARCH
	results from PFISR, XXVI Geofysiikan Päivät,	ARTICLE
	edited by T. Veikkolainen, K. Suhonen, J. Näränen,	
	T. Korja, K. Kauristie, and S. Kaasalainen, <i>Geophysical</i>	
	Society of Finland, 19-22, 2013.	
93.	Kellerman, A.C., R.L. McPherron, J.M. Weygand, On the	RESEARCH
	azimuthal evolution and geoeffectiveness of the CIR stream	ARTICLE
	interface, J. Geophys. Res., 120.3 , 1489, 2015.	
94.	Goldstein, M.L., P. Escoube, KJ. Hwang, D.E. Wendel,	RESEARCH
	AF. Vinas, S.F. Fung, S. Perri, S. Servidio, J.S. Pickett,	ARTICLE
	G.K. Parks, F. Sahraoui, C. Gurgiolo, and J.M. Weygand,	
	Multipoint observations of plasma phenomena made in space	
	by Cluster, J. Plasma Phys., 81,	
	doi:10.1017/S0022377815000185, 2015.	
95.	Zhao, H.Y., X.C. Shen, B.B. Tang, A.M. Tian, Q.Q. Shi,	RESEARCH
	J.M. Weygand, Z.H. Yao, QG. Zong, S.Y. Fu, S.T. Yao,	ARTICLE
	T. Xiao, and Z.Y. Pu, Magnetospheric vortices and their global	
	effect after a solar wind dynamic pressure decrease,	
	J. Geophys. Res., 120 , doi:10.1002/2015JA021646, 2015.	
96.	Weygand, J.M., M.G. Kivelson, V. Angelopoulos, H.U. Frey,	RESEARCH
	J.V. Rodriguez, R. Redmon, J. Barker-Tvedtnes,	ARTICLE
	A. Grocott, O. Amm, and X. Xing, An interpretation	
	of spacecraft and ground based observations of multiple	
	omega bands events, Journal of Atmospheric and	
	Solar-Terrestrial Physics, 133, 185-204,	
	doi:10.1016/j.jastp.2015.08.014, 2015.	
97.	Weygand, J.M., and S. Wing, Comparison of DMSP and SECS	RESEARCH
	region-1 and region-2 ionospheric current boundary,	ARTICLE
	Journal of Atmospheric and Solar-Terrestrial Physics,	
	143 , 8-13, doi:10.1016/j.jastp.2016.03.002, 2016.	
98.	Panov, E., W. Baumjohann, R. Wolf, R. Nakamura, V.	RESEARCH
	Angelopoulos, J.M. Weygand, and M. Kubyshkina, Magnetotail	ARTICLE
	energy dissipation during an auroral substorm, Nature	
	<i>Physics</i> , 12 , 1158, 2016.	
99.	Matthaeus, W.H., J.M. Weygand, S. Dasso, Ensemble	RESEARCH
	space-time correlation of plasma turbulence in the solar	ARTICLE
	wind, <i>Physical Review Letters</i> , 116 , 245101, 2016.	

100.	Lyons, L.R., B. Gallardo-Lacourt, S. Zou, J.M. Weygand,	RESEARCH
	Y. Nishimura, W. Li, M. Gkioulidou, V. Angelopoulos, E.F.	ARTICLE
	Donovan, J.M. Ruohoniemi, B. J. Anderson, S. G. Shepherd,	
	N. Nishitani, The March 17, 2013 Storm: Synergy of observation	
	related to electric field modes and their ionospheric and	
	magnetospheric effects, J. Geophys. Res., 121 ,	
	doi:10.1002/2016JA023237, 2016.	
101.	Carter, B.A., E. Yizengaw, R. Pradipta, J.M. Weygand, M.	RESEARCH
	Piersant, A. Pulkkinen, M. Moldwin, R. Norman, and K. Zhang	ARTICLE
	Geomagnetically inducaed currents around the world during	
	2015 St. Patrick's day storm, submitted to J. Geophys.	
	<i>Res.</i> , 121 , doi:10.1002/2016JA023344, 2016.	
102.	Zesta, E., A. Boudouridis, J.M. Weygand, E. Yizengaw,	RESEARCH
	M.B. Moldwin, and P. Chi, Inter-hemispheric asymmetries	ARTICLE
	in magnetospheric energy input, Ionospheric Space Weather.	
	Longitude and Hemispheric Dependences and Lower Atmospheric	
	Forcing, American Geophysical Monograph 220, 1-20, 2016.	
103.	Prikryl, P. R. Ghoddousi-Fard, M. Connors, J.M. Weygand,	RESEARCH
	A. Viljanen, D.W. Danskin, T. Jayachandran, K.S Jacobson,	ARTICLE
	Y.L. Andalsvik, E.G. Thomas, J.M. Rouhoiemi, T. Durgonics,	
	K. Oksavik, Y. Zhang, E Spanswik, M. Aquino, and V. Sreeja,	
	GPS phase scintillation at high -latitudes during the	
	geomagnetic storm of March 17-18, 2015, J. Geophys.	
	<i>Res.</i> , 121 , doi:10.1002/2016JA023171, 2016.	
104.	Wang, CP., HJ., Kim, C. Yue, J.M. Weygand, TS. Hsu,	RESEARCH
	and X. Chu, Effects of solar wind ultralow-frequency	ARTICLE
	fluctuations on plasma sheet electron temperature regression	
	analysis with support vector machine, J. Geophys. Res.,	
	122 , 4210-4227, doi:10.1002/2016JA023746, 2017.	
105.	Partamies, N., J.M. Weygand, and L. Juusola, Statistical	RESEARCH
	study of auroral omega bands, Annales Geophysicae	ARTICLE
	35 , 1069-1083, https://doi.org/10.5194/angeo-35-1069-2017, 2017.	
106.	Prikryl, P., R. Ghoddousi-Fard, A. Viljanen, J.M. Weygand,	RESEARCH
	B.S.R. Kunduri, E.G. Thomas, J.M. Ruohoniemi, M. Connors,	ARTICLE
	D.W. Danskin, P.T. Jayachandran, K.S. Jacobsen, Y.L. Andalsvik,	
	T. Durgonics, K. Oksavik, Y. Zhang, E. Spanswick, M. V. Sreeja,	
	M. Aquino, P.J. Cilliers, G. Li, B. Ning, C.N. Mitchell, L. Spogli,	
	M. Terkildsen, A.T. Weatherwax, GPS phase scintillation and auroral	
	electrojet currents during geomagnetic storms of March 17, 2013 and	
	2015, XXXII International Union of Radio Science General Essembly	
	and Scientific Symposium proceedings, 2017.	

107.	Liu, J., L.R., Lyons, W.E. Archer, B. Gallardo-Lacourt, Y. Nishimura, Y. Zou, C. Gabrielse, J.M. Weygand, Flow shears	RESEARCH ARTICLE
	at the poleward boundary of omega bands observed during	
	conjunctions of Swarm and THEMIS ASI, Geophysical Research	
	Letters, 45, 1218-1227. https://doi.org/10.1002/	
	2017GL076485, 2018.	
108.	Ngwira, C.M., D. Sibeck, M.V. Silveira, M. Georgiou,	RESEARCH
	J.M. Weygand, Y. Nishimura, and D. Hampton, A study of	ARTICLE
	intense local dB/dt variations during two geomagnetic storms.	
	Space Weather, $16(6)$, 676-693, 2018.	
109.	Welling, D.T., C. Ngwira, H. Opgenoorth, J.D. Haiducek,	RESEARCH
	N.P. Savani, S.K. Morley, C. Cid, R.S. Weigel, J.M. Weygand,	ARTICLE
	J.R. Woodroffe, H.J. Singer, L. Rosenqvist, M.W. Liemohn,	
	Recommendations for next-generation ground magnetic perturbation	
	validation. Space Weather, 16 (12), 1912-1920, 2018.	
110.	Angelopoulos, V., P. Cruce, A. Drozdov, E.W. Grimes, N.	RESEARCH
	Hatzigeorgiu, D.A. King, D. Larson, J. W. Lewis, J. M.	ARTICLE
	McTiernan, D. A. Roberts, C. L. Russell, T. Hori, Y. Kasahara,	
	A. Kumamoto, A. Matsuoka, Y. Miyashita, Y. Miyoshi, I. Shinohara,	
	M. Teramoto, J. B. Faden, A. J. Halford, M. McCarthy, R. M. Millan,	
	J. G. Sample, D. M. Smith, L. A. Woodger, A. Masson, A. A. Narock,	
	K. Asamura, T. F. Chang, CY. Chiang, Y. Kazama, K. Keika,	
	S. Matsuda, T. Segawa, K. Seki, M. Shoji, S. W. Y. Tam, N. Umemura,	
	BJ. Wang, SY. Wang, R. Redmon, J. V. Rodriguez, H. J. Singer,	
	J. Vandegriff, S. Abe, M. Nose, A. Shinbori, YM. Tanaka, S.	
	UeNo, L. Andersson, P. Dunn, C. Fowler, J. S. Halekas, T. Hara,	
	Y. Harada, C. O. Lee, R. Lillis, D. L. Mitchell, M. R. Argall,	
	K. Bromund, J. L. Burch, I. J. Cohen, M. Galloy, B. Giles, A. N.	
	Jaynes, O. Le Contel, M. Oka, T. D. Phan, B. M. Walsh, J. Westlake,	
	F. D. Wilder, S. D. Bale, R. Livi, M. Pulupa, P. Whittlesey, A.	
	DeWolfe, B. Harter, E. Lucas, U. Auster, J. W. Bonnell, C. M.	
	Cully, E. Donovan, R. E. Ergun, H. U. Frey, B. Jackel, A. Keiling,	
	H. Korth, J. P. McFadden, Y. Nishimura, F. Plaschke, P. Robert,	
	D. L. Turner, J. M. Weygand, R. M. Candey, R. C. Johnson, T. Kovalick	
	The space physics environment data analysis system (SPEDAS).	
	Space science reviews, $215(1)$, 9, 2019.	
111.	Weygand, J.M., and M.G. Kivelson, Jensen-Shannon	RESEARCH
	Complexity Measurements in Solar Wind Magnetic Field	ARTICLE
110	Fluctuations. The Astrophysical Journal, $872(1)$, 59, 2019.	
112.	Zhao, H., X.Z. Zhou, Q.G. Zong, J.M. Weygand, Q.	RESEARCH
	Shi, Y. Liu, Z. Yao, Y. Wang, XC. Shen, J. Ren, H.	ARTICLE
	Liu, and A. Tian, Small-Scale Aurora Associated With	
	Magnetospheric Flow Vortices After a Solar Wind Dynamic	
	Pressure Decrease. Journal of Geophysical Research	

27

Space Physics, **124**(5), 3303-3311, 2019.

113.	 Robinson, R., Y. Zhang, K. Garcia-Sage, X. Fang, O.P. Verkhoglyadova, C. Ngwira, S. Bingham, B. Kosar, Y. Zheng, S. Kaeppler, M. Liemohn, J.M. Weygand, G. Crowley, V. Merkin, R. McGranaghan, and A.J. Mannucci, Space weather modeling capabilities assessment: Auroral precipitation and high-latitude ionospharia electrodynamics. Space Weather 17(2) 	RESEARCH ARTICLE
114.	 ionospheric electrodynamics. Space Weather, 17(2), 212-215, 2019. Engebretson, M.J., V.A. Pilipenko, L.Y. Ahmed, J.L. Posch, E.S. Steinmetz, M.B. Moldwin, M. G. Connors J.M. Weygand, 	RESEARCH ARTICLE
	I.R. Mann, D.H. Boteler, C.T. Russell, and A.V. Vorobev, Nighttime magnetic perturbation events observed in Arctic Canada: 1. Survey and statistical analysis. <i>Journal of</i> <i>Geophysical Research: Space Physics</i> , 124 (9), 7442-7458, 2019.	
115.	 Engebretson, M.J., E.S. Steinmetz, J.L. Posch, V.A. Pilipenko, M.B. Moldwin, M.G. Connors, D.H. Boteler, I.R. Mann, M.D. Hartinger, J.M. Weygand, L.R. Lyons, Y. Nishimura, H.J. Singer, S. Ohtani, C.T. Russell, A. Fazakerley, and L.M. Kistler, Nighttime magnetic perturbation events observed in Arctic Canada: 2. Multiple-instrument observations, <i>Journal of</i> <i>Geophysical Research: Space Physics</i>, 124(9), 7459-7476, 2019. 	RESEARCH ARTICLE
116.	 Panov, E.V., W. Baumjohann, R. Nakamura, J.M. Weygand, B.L. Giles, C.T. Russell, G. Reeves M.V. Kubyshkina, Continent-Wide R1/R2 Current System and Ohmic Losses by Broad Dipolarization-Injection Fronts. <i>Journal of Geophysical</i> <i>Research: Space Physics</i>, 124(6), 4064-4082, 2019. 	RESEARCH ARTICLE
117.	Weygand, J.M. and S. Wing, Temporal and Spatial Development of TEC Enhancements during Substorms, <i>Journal of</i> <i>Geophysical Research: Space Physics</i> , doi:10.1029/2019JA026985, 2020.	RESEARCH ARTICLE
118.	McPherron, R.L., M. El-Alaoui, R.J. Walker, Y. Nishimura, and J.M. Weygand, The relation of N-S Auroral Streamers to Auroral Expansion, <i>Journal of Geophysical Research: Space</i> <i>Physics</i> , doi:10.1029/2019JA027063, 2020.	RESEARCH ARTICLE
119.	Nishimura, Y., L.R. Lyons, C.Gabrielse, N. Sivadas, E.F. Donovan, R.H. Varney, V. Angelopoulos, J.M. Weygand, M.G. Conde, and S. R. Zhang, Extreme magnetosphere-ionospherethermosphere responses to the 5 April 2010 supersubstorm. <i>Journal of</i> <i>Geophysical Research: Space Physics</i> , doi:10.1029/2019JA027654, 2020.	RESEARCH ARTICLE

Published Abstracts

гu	Distied Abstracts	
1.	 Weygand, J.M., J.S. Murphree, and P.T. Newell, UV Auroral Images of Polar Arcs with Polar Rain Particle Precipitation, oral presentation for the American Geophysical Union Spring Conference at Baltimore, Maryland in May, 1994, EOS Trans., 75, 315, 1994. 	PUBLISHED ABSTRACT
2.	Weygand, J.M., M.G. Henderson, J.S. Murphree, Observations of Auroral Substorm Activity Occurring on top of Pre-existing "Quiet Time" Auroral Configurations, Poster presentation for the American Geophysical Union Fall Conference 1995 in San Francisco, California in December, 1995, EOS Trans., 76 , F509, 1995.	PUBLISHED ABSTRACT
3.	Weygand, J.M., J.S. Murphree, J.D. Craven, and P.T. Newell, Ultraviolet Images of Conjugate Polar Arcs, oral presentation for the COSPAR at Birmingham, England in August, 1996, 31^{st} Scientific Assembly of COSPAR, 14-21 July, 1996, abstracts, Birmingham, University of Birmingham, 126, 1996.	PUBLISHED ABSTRACT
4.	 Weygand, J.M., J.S. Murphree, K. Kauristie, T.I. Pulkkinen, M. Syrjsuo, and P.T. Newell, Size of the Auroral Oval: UV-Ovals Boundaries Compared, oral presentation at IAGA in Uppsala, Sweden in August, 1997, IAGA 97 - 8th Scientific Assembly of IAGA with ICMA and STP Symposia, Uppsala, Sweden, IAGA 1997 Abstract Book, August 6, p. 371, 1997. 	PUBLISHED ABSTRACT
5.	Weygand, J.M., J.S. Murphree, and P.T. Newell, Possible Open Magnetic Field Polar Arcs, poster presentation at the 1997 Canadian Association of Physicists Annual Congress, at University of Calgary, June 11, 1997, Physics in Canada, 53 , 109, 1997.	PUBLISHED ABSTRACT
6.	Weygand, J.M., J.S. Murphree, and P.T. Newell, Simultaneous Substorms and Polar Arcs, oral presentation at the American Geophysical Union Fall Conference in San Francisco, California in December, 1998, EOS Trans., 79 , F774, 1998.	PUBLISHED ABSTRACT
7.	Weygand, J.M., F.M. Ipavich, P. Wurz, J.A. Paquette, and P. Bochsler, Determination of the Argon Isotopic Ratio of the Solar Wind using SOHO/CELIAS/MTOF, oral presentation at the 24 th European Geophysical Society in Den Hague, the Netherlands in April, 1999, Geophysical Research Abstracts, 1 , 671, 1999.	PUBLISHED ABSTRACT
8.	Weygand, J.M., F.M. Ipavich, P. Wurz, J. A. Paquette, and P. Bochsler, Determination of the Argon Isotopic Ratio of the Solar Wind using SOHO/CELIAS/MTOF, poster presentation at American Geophysical Union Spring Conference in Boston, Massachusetts, in June, 1999, EOS Trans., 80 , S257, 1999.	PUBLISHED ABSTRACT

9.	Bochsler, P., F.M. Ipavich, J.M. Weygand, P. Wurz,	PUBLISHED
	Abundance of Aluminum in the Solar Wind with	ABSTRACT
	SOHO/CELIAS/MTOF, poster presentation at American	
	Geophysical Union Spring Conference in Boston, Massachusetts,	
	U.S.A. in June, 1999, EOS Trans., 80 , S256, 1999.	
10.	Weygand, J.M., F.M. Ipavich, P. Bochsler, J.A. Paquette,	PUBLISHED
	and P. Wurz, Argon Isotopic Composition in the Solar Wind	ABSTRACT
	with CELIAS/MTOF, oral presentation at the American	
	Geophysical Union Fall Conference in San Francisco,	
	California in December, 1999, EOS Trans., 80, F794, 1999.	
11.	Weygand J.M. P. Wurz, P. Bochsler, F.M. Ipavich, and J.A.	PUBLISHED
	Paquette, The Determination of the Solar Wind Argon	ABSTRACT
	Abundance with SOHO/CELIAS/MTOF, oral presentation at the	
	European Geophysical Society Conference in Nice, France in	
	April, 2000, Geophysical Research Abstracts on CDROM, 2, 2000.	
12.	Weygand, J.M., The August 11, 1999 Solar Eclipse, poster	PUBLISHED
	at the American Geophysical Union Spring Conference in	ABSTRACT
	Washington D.C. in May, 2000, EOS Trans., 81 , S61, 2000.	
13.	Weygand, J.M., P. Wurz, P. Bochsler, F.M. Ipavich, and J.A.	PUBLISHED
	Paquette, The Determination of the Solar Wind Argon Abundance	ABSTRACT
	with SOHO/CELIAS/MTOF, oral presentations at the American	
	Geophysical Union Spring Conference in Washington D.C. in May,	
	2000, EOS Trans., 81 , S3, 2000.	
14.	Weygand, J.M., P. Wurz, P. Bochsler, F.M. Ipavich, and A.B.	PUBLISHED
	Galvin, Measurement of the Ar/Ca Abundance Ratio from	ABSTRACT
	CELIAS/MTOF in Slow and Fast Solar Wind, oral presentation at	
	the European Geophysical Society Conference in Nice, France in	
15	April, 2001, Geophysical Research Abstracts on CDROM, 3 , 2001.	
15.	Weygand, J.M., P. Wurz, P. Bochsler, F.M. Ipavich, A.B.	PUBLISHED
	Galvin, Measurement of the Ar/Ca Abundance Ratio from	ABSTRACT
	CELIAS/MTOF in Slow and Fast Solar Wind, oral presentations at the American Geophysical Union Spring Conference in Boston,	
	Massachusetts in May, 2001, EOS Trans., 82 , S337, 2001.	
16.	Weygand, J.M., M.B. Moldwin, D. Berube, A sudden impulse	PUBLISHED
10.	driven compressional Pc5 wave in the Earth's magnetotail	ABSTRACT
	lobe, oral presentations at the American Geophysical Union	MD0110101
	Spring Conference in Boston, Massachusetts in May, 2001, EOS	
	Trans., 82 , S381, 2001.	
17.	Berube, D., M.B. Moldwin, P.J. Chi, C.T. Russell, and J.	PUBLISHED
	Weygand, Monitoring plasma mass density of the inner	ABSTRACT
	magnetosphere from the ground, oral presentations at	
	the American Geophysical Union Spring Conference in Boston,	
	Massachusetts in May, 2001, EOS Trans., 82 , S349, 2001.	

18.	Weygand, J.M., M.B. Moldwin, and M.E. Engebretson, Determining Propagation Routes of Pc 3/4 Pulsations to Low Latitudes, poster presentations at the American Geophysical Union Fall Conference in San Francisco, California in December, 2001, EOS Trans., 82 , F1020, 2001.	PUBLISHED ABSTRACT
19.	Kivelson, M.G., R.L. McPherron, S. Thompson, K.K. Khurana, J.M. Weygand, and A. Balogh, The response of the near Earth magnetotail to substorm activity, oral presentation	PUBLISHED ABSTRACT
	for the COSPAR at Huston, Texas in October, 2002 at the 34 th Scientific Assembly of COSPAR, October 10-12, abstracts CD.	
20.	Weygand, J.M., M.G. Kivelson, K.K. Khurana, R.L. McPherron, A. Balogh, M.L. Goldstein, J. Borovsky, D.A.	PUBLISHED ABSTRACT
	Roberts, and H. Laakso, The nature of fluctuations observed by Cluster in the plasma sheet, poster presentation at the American Geophysical Union Fall Conference in San Francisco, California in December, 2002, EOS Trans., 83 , 2002.	
21.	Weygand, J.M., M.G. Kivelson, K.K. Khurana, R.L.McPherron, H.K. Schwarzl, S. Thompson, M.L. Goldstein,J. Borovsky, A. Balogh, D.A. Roberts, and H. Laakso Thenature of fluctuations observed by Cluster in the plasma sheet,	PUBLISHED ABSTRACT
22.	oral presentation at the European Geophysical Society in Nice, France in April, 2003, Geophysical Research Abstracts on CDROM, 5 , 2003. Weygand, J.M. and J. Raeder, Cosmic ray cutoff predictions using magnetic fields from global magnetosphere MHD simulations, poster presentation at the European Geophysical Union in Nice, France in April, 2003, Geophysical Research Abstracts on CDROM 5 , 2003	PUBLISHED ABSTRACT
23.	on CDROM, 5 , 2003. Taylor, M.G.G., R.H.W. Friedel, G.D. Reeves, J.M. Weygand M.F. Thompsen, M.G. Henderson, M.W. Dunlop, T.A. Fritz, P.W. Daly, and A. Balogh, Multi-satellite measurements of electron phase space density gradients in the Earth's magnetotail, European Geophysical Union in Nice, France in April, 2003, Geophysical	PUBLISHED ABSTRACT
24.	Research Abstracts on CDROM, 5 , 2003. Thompsen, S., M. Kivelson, K. Khurana, R. McPherron, A. Balogh, H. Reme, L. Kistler, and J. Weygand, Multispacecraft studies of the structure and dynamics of the magnetotail current sheet, European Geophysical Union in Nice, France in April, 2003, Geophysical Research Abstracts on CDROM, 5 , 2003.	PUBLISHED ABSTRACT

25.	 Weygand, J.M., M.G. Kivelson, K.K. Khurana, R.L. McPherron, L. Kistler, A. Balogh, and S. Thompson, Probability distribution functions for magnetic field fluctuations inferred from Cluster measurements: Evidence for intermittent turbulence in the plasma sheet, oral presentation at the American Geophysical Union Fall Conference in San Francisco, California in December, EOS Trans., 84, 2003. 	PUBLISHED ABSTRACT
26.	Means, E.K., J.M. Weygand, R.L McPherron, T.P. O'Brien, The dependence of asymmetry on storm phase, poster presentation at the American Geophysical Union Fall Conference in San Francisco, California in December, 2003, EOS Trans., 84 , 2003.	PUBLISHED ABSTRACT
27.	Springborn, JK., J.M. Weygand, and J. Raeder, Cosmic ray cutoff predictions using magnetic fields from global magnetosphere MHD simulations, poster presentation at the American Geophysical Union Fall Conference in San Francisco, California in December, 2003, EOS Trans., 84 , 2003.	PUBLISHED ABSTRACT
28.	Raeder, J., R. Turco, J. Weygand, and R. D'Auria, Cosmic rays, solar energetic particles, and climate: where are the links? Invited Presentation at the American Geophysical Union Fall Conference in San Francisco, California in December, 2003, EOS Trans., 84 , 2003.	PUBLISHED ABSTRACT
29.	Weygand, J.M., and R.L McPherron, A Tale of two indices, poster presentation at the American Geophysical Union Spring Conference in Montreal, Canada in May, 2004, EOS Trans., 85 , 2004.	PUBLISHED ABSTRACT
30.	 Weygand, J.M., M.G. Kivelson, K.K. Khurana, R.L. McPherron, L. Kistler, A. Balogh, H. Schwarzl, and S. Thompson, A multifractal analysis of magnetic field fluctuations inferred from Cluster measurements: Evidence for intermittent turbulence in the plasma sheet, at the American Geophysical Union Spring Conference in Montreal, Canada in May, 2004, EOS Trans., 85, 2004. 	PUBLISHED ABSTRACT
31.	Schwarzl, H., J.M. Weygand, M.G. Kivelson, K.K. Khurana, R.L. McPherron, L. Kistler, A. Balogh, and S. Thompson, Multifractal analysis of magnetic field fluctuations inferred Cluster and solar wind measurements: Evidence for intermittent turbulence in the plasma sheet and solar wind, at the American Geophysical Union Fall Conference in San Francisco, California in December, 2004, EOS Trans., 85 , 2004.	PUBLISHED ABSTRACT
32.	Weygand, J.M., R.L. McPherron, K. Liou, and H. Frey, Solar wind and IMF control of substorm onset, at the American Geophysical Union Fall Conference in San Francisco, California in December, 2004, EOS Trans., 85 , 2004.	PUBLISHED ABSTRACT

33.	Weygand, J.M., M.G. Kivelson, K.K. Khurana, R.L. McPherron, L. Kistler, A. Balogh, and S. Thompson, Multifractal analysis of magnetic field fluctuations inferred Cluster and solar wind measurements: Evidence for intermittent turbulence in the plasma sheet and solar wind, at the European Geosciences Union Conference in Vienna, Austria in April, 2005, Geophysical	PUBLISHED ABSTRACT
34.	Research Abstracts on CDROM, 7 2005. Weygand, J.M., R.L. McPherron, H. Frey, K. Liou, M.G. Henderson, and J.D. Craven, Solar Wind and IMF control of substorm onset, oral presentation at the European Geosciences Union Conference in Vienna, Austria in April, 2005, Geophysical Research Abstracts on CDROM, 7 2005.	PUBLISHED ABSTRACT
35.	McPherron, R.L., and J.M. Weygand, Solar cycle effects on solar wind-magnetosphere coupling, at the American Geophysical Union Spring Conference in New Orleans, Louisiana, in May, 2005, EOS Trans., 86 , 2005. (Coauthor added later.)	PUBLISHED ABSTRACT
36.	Weygand, J.M., W.H. Matthaeus, S.Dasso, M.G. Kivelson, and L.J. Milano, Spatial correlation of solar wind turbulence from two point measurements, at the American Geophysical Union Fall Conference in San Francisco, California in December, 2005, EOS Trans., 86 , 2005.	PUBLISHED ABSTRACT
37.	Springborn, J.K., Weygand, J.M., O. Amm, R.L. McPherron, K. Kauristie, and H. Frey, Substorm onset location and the Harang discontinuity, at the American Geophysical Union Fall Conference in San Francisco, California in December, 2005, EOS Trans., 86 , 2005.	PUBLISHED ABSTRACT
38.	Denton, M.H., M.F. Thomsen, B. Lavraud, R.M. Skoug, M.G. Henderson, H.O. Funsten, J-M. Jahn, C. J. Pollock, J.M. Weygand, Convection-driven delivery of plasma sheet material to the inner magnetosphere using IMAGE/MENA, at the American Geophysical Union Fall Conference in San Francisco, California in December, 2005, Trans., 86 , 2005.	PUBLISHED ABSTRACT
39.	Lavraud, B., M.H. Denton, M.F. Thomsen, J.E. Borovsky, R.H.W.Friedel, K. Seki, and J. Weygand, Cold, dense plasma access to geosynchronous orbit and its relation with geomagnetic activity, at the American Geophysical Union Fall Conference in San Francisco, California in December, 2005, EOS Trans., 86 , 2005.	PUBLISHED ABSTRACT
40.	Wang, CP., L.R. Lyons, and J.M. Weygand, Equatorial Distributions of the Plasma Sheet Ions, Their Magnetic and Electric Drifts, and Magnetic Fields Under Different IMF Bz, at the American Geophysical Union Fall Conference in San Francisco, California in December, 2005, EOS Trans., 86 , 2005.	PUBLISHED ABSTRACT

41.	Wang, H., S.Y. Ma, H. Lühr, R.M. Skoug, and J.M. Weygand,	PUBLISHED
	Field-aligned current observed by CHAMP during the super-storms	ABSTRACT
	in 2003, at the American Geophysical Union Fall Conference in	
	San Francisco, California in December, 2005, EOS Trans., 86,	
	2005.	
42.	Hsu, TS., R.L. McPherron, J.M. Weygand, A Comparative Study	PUBLISHED
	of Substorms and Steady Magnetospheric Convection and their	ABSTRACT
	Associated Solar Wind Conditions, at COSPAR conference in Beijing,	
	China, 2006.	
43.	Weygand, J.M., W.H. Matthaeus, S.Dasso, and M.G. Kivelson, Spatial	PUBLISHED
	correlation of solar wind turbulence from two point measurements,	ABSTRACT
	at the American Geophysical Union Fall Conference in San Francisco,	
	California in December, 2006, EOS Trans., 87, 2006.	
44.	Springborn, JK., J.M. Weygand, O. Amm, R.L. McPherron, K.	PUBLISHED
	Kauristie, A. Koistinen, and H. Frey, Substorm onset location and	ABSTRACT
	the Harang discontinuity, at the American Geophysical Union Fall	
	Conference in San Francisco, California in December, 2006,	
	EOS Trans., 87 , 2006.	
45.	Denton, M.H., M.F. Thomsen, B. Lavraud, J.E. Borovsky, J.M. Weygand,	PUBLISHED
	Elevated ion density at geosynchronous orbit during sustained	ABSTRACT
	northwards IMF, at the American Geophysical Union Fall Conference	
	in San Francisco, California in December, 2006, EOS Trans., 87, 2006.	
46.	Matthaeus, W.H., J.M. Weygand, S. Dasso, C.W. Smith, M.G. Kivelson,	PUBLISHED
	Two point measurements of statistical properties of solar wind	ABSTRACT
	turbulence using Cluster data, at the American Geophysical Union Fall	
	Conference in San Francisco, California in December, 2006, EOS	
	Trans., 87 , 2006.	
47.	Walker, R.J., T.A. King, S.P. Joy, L.F. Bargatze, P. Chi, J.M.	PUBLISHED
	Weygand, The Virtual Magnetospheric Observatory at UCLA, at the	ABSTRACT
	American Geophysical Union Fall Conference in San Francisco,	
	California in December, 2006, EOS Trans., 87, 2006.	
48.	Falkenstroem, J., L. Rosenqvist, A. Vaivads, J.M. Weygand, Spatial	PUBLISHED
	dependence of the local energy transfer across the magnetopause	ABSTRACT
	and the influence of interplanetary variation from Cluster observations,	
	at the American Geophysical Union Fall Conference in San Francisco,	
	California in December, 2006, EOS Trans., 87, 2006.	
49.	Matthaeus, W.H., S. Dasso, J.M. Weygand, C.W. Smith, M.G. Kivelson,	PUBLISHED
	Two point measurements of statistical properties of solar wind	ABSTRACT
	turbulence, at the American Geophysical Union Fall Conference in	
	San Francisco, California in December, 2006, EOS Trans., 87, 2006.	

50.	 Palmroth, M., N. Partamies, T.I. Pulkkinen, R. Barnes, P. Stauning, C.W. Smith, D.J. McComas, J.M. Weygand, Solar wind - magnetosphere coupling efficiency: Role of solar wind dynamic pressure, at the American Geophysical Union Fall Conference in San Francisco, California in December, 2006, EOS Trans., 87, 2006. 	PUBLISHED ABSTRACT
51.	Wang, C., L.R. Lyons, J.M. Weygand, T. Nagai, R.W. McEntire, Dependence of the northward IMF plasma sheet on interplanetary parameters and its effect on particle sources for the storm-time ring current, at the American Geophysical Union Fall Conference in San Francisco, California in December, 2006, EOS Trans., 87 , 2006.	PUBLISHED ABSTRACT
52.	Halford, A.J., D. Baker, J.M. Weygand, Energy Transport, Storage, and dissipation in the magnetosphere during substorms, at the Joint Assembly Spring Conference in Acapulco, Mexico in May, 2007, EOS Trans., 88 , 2007.	PUBLISHED ABSTRACT
53.	Ohtani, S., H. Korth, P.C. Brandt, L.G. Blomberg, H.J. Singer, M.G. Henderson, E.A. Lucek, H.J. Frey, J.M. Weygand, Y. Zheng, T.A. Lui, Cluster observations in the inner magnetosphere during the 18 April 2002 Sawtooth Event: Dipolarization and injection at r=4.6 Re, at the Joint Assembly Spring Conference in Acapulco, Mexico in May, 2007, EOS Trans., 88 , 2007.	PUBLISHED ABSTRACT
54	Weygand, J.M., M.G. Kivelson, W.H. Matthaeus, S. Dasso, L.M. Kistler, Correlative scale and effective magnetic Reynolds number determination from plasma sheet and solar wind magnetic field fluctuations, at the American Geophysical Union Fall Conference in San Francisco, California in December, 2007, EOS Trans., 89 , 2007.	PUBLISHED ABSTRACT
55	Lee, D. L.R. Lyons, S. Zou, J.M. Ruohoniemi, J.M. Weygand, Multi- point observations of quasi-periodic substorms associated with ULF pulsations, at the American Geophysical Union Fall Conference in San Francisco, California in December, 2007, EOS Trans., 88 , 2007.	PUBLISHED ABSTRACT
56.	Springborn, JK., J.M. Weygand, R.L. McPherron, K. Kauristie, H.U. Frey, Relation of Substorm Onset to Local AL index, at the American Geophysical Union Fall Conference in San Francisco, California in December, 2007, EOS Trans., 88 , 2007.	PUBLISHED ABSTRACT
57.	Wang, C., L.R. Lyons, T. Nagai, J.M. Weygand, Transport of particles from the flanks by electric drift and diffusion within the plasma sheet, at the American Geophysical Union Fall Conference San Francisco, California in December, 2007, EOS Trans., 88 , 2007.	PUBLISHED ABSTRACT
58.	Luk, O., J.M. Weygand, S. Joy, M.G. Kivelson, Plasma Sheet Magnetic Field Fluctuations Characterized by Galileo at Jupiter, at the American Geophysical Union Fall Conference in San Francisco, California in December, 2007, EOS Trans., 88 , 2007.	PUBLISHED ABSTRACT

59.	Walker, R.J., T.A. King, S.P. Joy, L.F. Bargatze, P.Chi, J.M.	PUBLISHED
	Weygand, The Virtual Magnetospheric Observatory at UCLA, at the	ABSTRACT
	American Geophysical Union Fall Conference in San Francisco,	
	California in December, 2007, EOS Trans., 88, 2007.	
60.	Bryant, C.R., J.S. Murphree, J. Weygand, S.B. Mende, E.F. Donovan,	PUBLISHED
	Solar Wind and IMF Control of the Recovery Phase of Substorms,	ABSTRACT
	at the American Geophysical Union Fall Conference in San	
	Francisco, California in December, 2007, EOS Trans., 88, 2007.	
61.	Chuychai, P., J.M. Weygand, W.H. Matthaeus, S. Dasso, C.W. Smith	PUBLISHED
•	M.G. Kivelson, Technique of Measuring Taylor Microscale, at the	ABSTRACT
	American Geophysical Union Fall Conference in San Francisco,	
	California in December, 2007, EOS Trans., 88, 2007.	
62.	Walker, R.J., T.A. King, S.P. Joy, L.F. Bargatze, P. Chi, and	PUBLISHED
02.	J.M. Weygand, Populating and Harvesting Metadata in the Virtual	ABSTRACT
	Magnetospheric Observatory, EOS Trans. AGU, 89 (23), West.	1100110101
	Pac. Geophys. Meet. Suppl., Abstract U44A-04, 2008.	
63.	Weygand, J.M., M.G. Kivelson, W.H. Matthaeus, S. Dasso, P.	PUBLISHED
00.	Chuychai, L.M. Kistler, and C. Mouikis, Taylor scale determination	ABSTRACT
	from plasma sheet magnetic field fluctuations and power density	112.5 110110 1
	spectra, EOS Trans. AGU, 89(23), West. Pac. Geophys. Meet. Suppl.,	
	Abstract SP43A-02, 2008.	
64.	Wang, C., L.R. Lyons, T. Nagai, V. Angelopoulos, J.M. Weygand,	PUBLISHED
0 1.	and F.R. Toffoletto, Electric and magnetic drift, and diffusion	ABSTRACT
	transport of the plasma sheet ions and electrons and their	112.0 110110 1
	dependence on the interplanetary conditions, EOS Trans. AGU, 89	
	(23), West. Pac. Geophys. Meet. Suppl., Abstract SP21A-06, 2008.a	
65.	Joy, S.P., R.J. Walker, T.A. King, J. Merka, L.F. Bargatze, J.M.	PUBLISHED
001	Weygand P. Chi, J. Mafi, T.W. Narock, R.L. McPherron, The Science	ABSTRACT
	Centered Approach of the Virtual Magnetospheric Observatory, at the	112.0 110110 1
	American Geophysical Union Fall Conference in San Francisco,	
	California in December, 2008, EOS Trans., 89 , 2008.	
66.	Weygand, J.M., M.G. Kivelson, W.H. Matthaeus, S. Dasso, P.	PUBLISHED
	Chuychai, C. Mouikis, Anisotropies of the Taylor Scale,	ABSTRACT
	Correlation Scale, and Effective Magnetic Reynolds Number	
	Determination from Plasma Sheet and Magnetic Field Fluctuations,	
	at the American Geophysical Union Fall Conference in San Francisco,	
	California in December, 2008, EOS Trans., 89 , 2008.	
67.	Amm., O. J.M. Weygand, V. Angelopoulos, B. Beheshti, E. Steinmetz,	PUBLISHED
	M. Engebretson, A. Viljanen, A. Pulkkinen, H. Gleisner, H.U.	ABSTRACT
	Frey, S. Mende, Equivalent ionospheric currents from the GIMA,	
	Greenland, MACCS, and THEMIS ground magnetometer arrays, at	
	the American Geophysical Union Fall Conference in San Francisco,	
	California in December, 2008, EOS Trans., 89 , 2008.	

68.	Gao, Y., R.J. Walker, M.G. Kivelson, J.M., Weygand, and M.	PUBLISHED
	Lester, Tailward flows with northward magnetic field in the	ABSTRACT
	Earth's magnetotail, at the American Geophysical Union Fall	
	Conference in San Francisco, California in December, 2008,	
	EOS Trans., 89 , 2008.	
69.	Ohtani, S., Y. Miyoshi, H.J. Singer, J.M. Weygand, On the	PUBLISHED
	loss of relativistic electrons at geosynchronous altitude:	ABSTRACT
	Its Dependence on magnetic configurations and external	
	conditions, at the American Geophysical Union Fall Conference	
	in San Francisco, California in December, 2008, EOS Trans.,	
	89 , 2008.	
70.	Boudouridis, A., L.R. Lyons, E. Zesta, M.S. Young, J.M.	PUBLISHED
	Weygand, P.C. Anderson, Statistical study of the response	ABSTRACT
	of the Transpolar Potential to Solar Wind Dynamic Pressure	
	fronts as a function of their pressure change and accompanying	
	IMF, at the American Geophysical Union Fall Conference in San	
	Francisco, California in December, 2008, EOS Trans., 89, 2008.	
71.	Hsu, TS., R.L. McPherron, J.M. Weygand, O. Amm, Y. Ge, E.	PUBLISHED
	Yizengaw, V. Angelopoulos, A comparative study of magnetotail,	ABSTRACT
	solar wind and ground observations associated with Substorms	
	and SMCs, at the American Geophysical Union Fall Conference	
	in San Francisco, California in December, 2008, EOS Trans.,	
	89 , 2008.	
72.	Wang., CP., L.R. Lyons, R.A. Wolf, T. Nagai, J.M. Weygand,	PUBLISHED
	A. Lui, The plasma sheet $PV^{5/3}$ and nV and associated	ABSTRACT
	particle and energy transport for different convection	
	strengths and AE levels, at the American Geophysical Union	
	Fall Conference in San Francisco, California in December,	
	2008, EOS Trans., 89 , 2008.	
73.	Weygand, J.M., M.G. Kivelson, W.H. Matthaeus, S. Dasso, L.M.	PUBLISHED
	Kistler, Anisotropies of the Taylor scale, correlation scale,	ABSTRACT
	and effective magnetic Reynolds number determination from solar	
	wind magnetic field fluctuations, poster presentation at the	
	European Geophysical Union Conference in Vienna, Austria in	
	April, 2009, Geophysical Research Abstracts, 11 , 2009.	
74.	Weygand, J.M., O. Amm, V. Angelopoulos, E. Steinmetz, M.	PUBLISHED
	Engebretson, A. Viljanen, A. Pulkinnen, H. Gleisner, H.U.	ABSTRACT
	Frey, and S. Mende, Equivalent ionospheric currents from	
	the GIMA, Greenland, MACCS, and THEMIS ground	
	magnetometer arrays, poster presentation at the European	
	Geophysical Union Conference in Vienna, Austria in	
	April, 2009, Geophysical Research Abstracts, 11 , 2009.	

75.	R.J. Walker, T. King, J.M. Weygand, J. Merka, L.F. Bargatze, P. Chi, J. Mafi, T.W. Narock, R.L. McPherron, and S. Joy, The	PUBLISHED ABSTRACT
	Science Centered Approach of the Virtual Magnetospheric	1100110101
	Observatory, poster presentation at the European Geophysical	
	Union Conference in Vienna, Austria in April, 2009,	
	Geophysical Research Abstracts, 11 , 2009.	
76.	Amm, O., H. Vanhamäki, L. Juusola, A. Viljanen, K. Kauristie,	PUBLISHED
	and J. Weygand, Determination of ionospheric currents from	ABSTRACT
	ground-based and satellite data, oral presentation at the	
	European Geophysical Union Conference in Vienna, Austria in	
	April, 2009, Geophysical Research Abstracts, 11 , 2009.	
77.	Kivelson, M.G., R.L. McPherron, and J.M. Weygand, Dependence	PUBLISHED
	of IMF - magnetosphere coupling on magnetospheric scale: Earth,	ABSTRACT
	Jupiter, Saturn, poster presentation at the European Geophysical	
	Union Conference in Vienna, Austria in April, 2009,	
	Geophysical Research Abstracts, 11 , 2009.	
78.	Hsu, T., R. McPherron, J. Weygand, Y. Ge, V. Angelopoulos,	PUBLISHED
	C. Russell, What is the difference between a Steady	ABSTRACT
	Magnetospheric Convection event and a Substorm?, Joint	
	Assembly Suppl. Conference in Toronto, Canada in May, 2009,	
-	EOS Trans. AGU, 90 , 2009.	
79.	Boudouridis, A., J.M. Weygand, E. Zesta, Y. Shi, A statistical	PUBLISHED
	study of the differences between Northern and Southern	ABSTRACT
	Hemisphere conjugate AE calculations, Joint Assembly Suppl.	
	Conference in Toronto, Canada in May, 2009, EOS Trans. AGU,	
80.	90, 2009. Zesta, E., A. Boudouridis, M.B. Moldwin, J.M. Weygand, P.J. Chi,	PUBLISHED
80.	The South American Meridional B-field Array (SAMBA) and	ABSTRACT
	opportunities for inter- hemispheric studies, Joint Assembly	ADSTITACT
	Suppl. Conference in Toronto, Canada in May, 2009, EOS Trans.	
	90 , 2009.	
81.	Weygand, J.M., M.G. Kivelson, W.H. Matthaeus, S. Dasso, Multiple	PUBLISHED
-	magnetic correlations scales in the solar wind, at the American	ABSTRACT
	Geophysical Union Fall Conference in San Francisco, California	
	in December, 2009, EOS Trans., 90 , 2009.	
82.	Wing, S., S. Ohtani, T. Higuchi, G. Ueno, J.M. Weygand,	PUBLISHED
	Relationships between dayside field-aligned currents and	ABSTRACT
	particle precipitation, at the American Geophysical	
	Union Fall Conference in San Francisco, California in December,	
	2009, EOS Trans., 90 , 2009.	

83.	Keiling, A., V. Angelopoulos, S.B., Mende, J.P. McFadden,	PUBLISHED
	D.E. Larson, J.M. Weygand, O. Amm, E. Spanswick, E.F. Donovan,	ABSTRACT
	K. Glassmeier, U. Auster, THEMIS ground-space observations	
	during the development of auroral spirals, at the American	
	Geophysical Union Fall Conference in San Francisco, California	
	in December, 2009, EOS Trans., 90 , 2009.	
84.	Ostgaard, N., B.K. Humberset, K. Laundal, H.U., Frey, J.B.	PUBLISHED
	Sigwarth, A. Asnes, J.M. Weygand, Substorm auroral asymmetries	ABSTRACT
	in the conjugate hemispheres during onset and expansion phase,	
	at the American Geophysical Union Fall Conference in San	
	Francisco, California in December, 2009, EOS Trans., 90, 2009.	
85.	Gao, Y., R.J. Walker, M.G. Kivelson, J.M. Weygand, Tailward	PUBLISHED
	flows with northward magnetic field in the Earths Magnetotail	ABSTRACT
	at the American Geophysical Union Fall Conference in San	
	Francisco, California in December, 2009, EOS Trans., 90 , 2009.	
86.	Joy, S.P., R.J. Walker, J. Merka, T.A. King, L.F. Bargatze,	PUBLISHED
	P.J. Chi, J.M. Weygand, T.W Narock, Getting data into NASA's	ABSTRACT
	HPDE Virtual Observatories at the American Geophysical Union	
	Fall Conference in San Francisco, California in December,	
	2009, EOS Trans., 90 , 2009.	
87.	Kivelson, M.G., O. Amm, J.M. Weygand, W.A. Bristow, V.	PUBLISHED
	Angelopoulos, B. Beheshti, E.S. Steinmetz, M.J. Engebretson,	ABSTRACT
	D. Murr, A. Viljanen, A. Pulkkinen, H. Gleisner, I. Mann, C.T.	
	Russell, A Preliminary Comparison Between SuperDARN Flow Vectors	
	and Equivalent Ionospheric Currents From the GIMA, Greenland,	
	MACCS, THEMIS, CARISMA, and CANMOS Ground Magnetometer	
	Arrays at the American Geophysical Union Fall Conference in San	
	Francisco, California in December, 2009, EOS Trans., 90 , 2009.	
88.	Wang, C., L.R. Lyons, T. Nagai, J.M. Weygand, and A. Lui, The	PUBLISHED
	plasma sheet entropy, particle content, and pasma transport during	ABSTRACT
	different substorm phases, EOS Trans., AGU, $91(26)$, West. Pac.	
0.0	Geophys. Meet. Suppl., Abstract SPA33B-115, 2010.	
89.	Gjerloev, J.W., R.A. Hoffman, J.M. Weygand, and S. Ohtani,	PUBLISHED
	Response of the Auroral Electrojet Indices to Abrupt Southward	ABSTRACT
	IMF Turnings, EOS Trans., AGU, 91 (26), West. Pac. Geophys.	
00	Meet. Suppl., Abstract SPA41B-097, 2010.	
90.	Boudouridis, A., L.R. Lyons, E. Zesta, J.M. Weygand, P.C.	PUBLISHED
	Anderson, J.M. Ruohoniemi, and A.J. Ridley, Effect of solar	ABSTRACT
	wind dynamic pressure enhancements on ionospheric convection and the transpolar potential EOS Trans. $ACU = 01(26)$, West	
	and the transpolar potential, EOS Trans., AGU, 91 (26), West.	
	Pac. Geophys. Meet. Suppl., Abstract SPA54A-04, 2010.	

91.	Hsu, TS., R.L. McPherron, X. Chu, J. Kissinger, Z. Hui, M.G.	PUBLISHED
	Kivelson, J.M. Weygand, V. Angelopoulos, The Associated Solar	ABSTRACT
	Wind and Magnetotail Changes during Substorms for the Solar	
	Cycle 23, EOS Trans., AGU, 91 (26), West. Pac. Geophys. Meet.	
	Suppl., Abstract SPA33B-118, 2010.	
92.	Weygand, J.M., M.G. Kivelson, O. Amm, W.A Bristow, V. Angelopoulos,	PUBLISHED
	B. Beheshti, H. Gudipati, E.S. Steinmetz, M.J. Engebretson, D. Murr,	ABSTRACT
	A. Viljanen, A. Pulkkinen, and H. Gleisner, A preliminary comparison	
	between SuperDARN flow vectors and Equivalent ionospheric currents	
	from the GIMA, Greenland, MACCS, THEMIS, CARISMA, and	
	CANMOS ground magnetometer arrays, EOS Trans., AGU, 91(26),	
	West. Pac. Geophys. Meet. Suppl., Abstract SPA41C-01, 2010.	
93.	Weygand, J.M., M.G. Kivelson, W.H. Matthaeus, and S. Dasso,	PUBLISHED
	Comparison of Multiple Magnetic Correlation Scales in the Solar	ABSTRACT
	Wind and in the Foreshock, EOS Trans., AGU, 91(26), West. Pac.	
	Geophys. Meet. Suppl., Abstract SPA34A02, 2010.	
94.	Ostgaard, N., B.K. Humberset, K.M. Laundal, H.U. Frey, A.	PUBLISHED
	Aasnes, J.B. Sigwarth, and J.M. Weygand, Auroral asymmetries	ABSTRACT
	in the conjugate hemispheres during substorm onset and	
	expansion phase substorms during expansion phase, Oral	
	presentation at the European Geophysical Union Conference	
	in Vienna, Austria in May, 2010, Geophysical Research Abstracts,	
	12 , 2010.	
95.	Weygand, J.M., M.G. Kivelson, W.H. Matthaeus, S. Dasso,	PUBLISHED
	C.W. Smith, Magnetic Correlation Functions in the Solar Wind	ABSTRACT
	in the Eulerian Reference Frame, the American Geophysical Union	
	Fall Conference in San Francisco, California in December, 2010,	
	EOS Trans., 91 , 2010.	
96.	Panov, E., R. Nakamura, W. Baumjohann, V. Angelopoulos,	PUBLISHED
	KH. Glassmeier, O. Amm, J.M. Weygand, A.A. Petrukovich,	ABSTRACT
	V.A. Sergeev, M. Volwerk, A. Retino, T. Takada, J.P. McFadden,	
	D.E. Larson, E.F. Donovan, C.T. Russel, I.R. Mann, H.U. Frey,	
	Oscillatory braking of BBFs and associated ionospheric response,	
	the American Geophysical Union Fall Conference in San Francisco,	
	California in December, 2010, EOS Trans., 91 , 2010.	
97.	El-Alaoui, M., R.L. Richard, M. Ashour-Abdalla, M.L. Goldstein,	PUBLISHED
	J.M. Weygand, R.J. Walker, Global Magnetohydrodynamic Simulations	ABSTRACT
	of Turbulence in the Plasma Sheet, the American Geophysical Union	
	Fall Conference in San Francisco, California in December, 2010,	
	EOS Trans., 91 , 2010.	
98.	Gao, Y., M.G. Kivelson, R.J. Walker, H.U. Frey, J.M.	PUBLISHED
98.	Weygand, O.A. Troshichev, The Relationship between Polar Cap	PUBLISHED ABSTRACT
98.	Weygand, O.A. Troshichev, The Relationship between Polar Cap Index and Solar Wind Parameters, Geomagnetic Indices, the	
98.	Weygand, O.A. Troshichev, The Relationship between Polar Cap	

99.	Osman, K., M. Wan, W.H. Matthaeus, J.M. Weygand, S. Dasso, Anisotropic Third-Moment Estimates of the Energy Cascade in Solar Wind Turbulence using Multispacecraft Data, the American Geophysical Union Fall Conference in San Francisco, California in December, 2010, EOS Trans., 91 , 2010.	PUBLISHED ABSTRACT
100.	King, T., R.J. Walker, J. Merka, L.F. Bargatze, J.M. Weygand, Successful Approaches for Data Discovery: Illustrated with the Virtual Magnetospheric Observatory, the American Geophysical Union Fall Conference in San Francisco, California in December, 2010, EOS Trans., 91 , 2010.	PUBLISHED ABSTRACT
101.	Boudouridis, A., L.R. Lyons, E. Zesta, J.M. Weygand, J.M. Ruohoniemi, D. Lummerzheim, P.C. Anderson, Effect of solar wind dynamic pressure enhancements on dayside and nightside ionospheric convection and the polar cap boundary location, the American Geophysical Union Fall Conference in San Francisco, California in December, 2010, EOS Trans., 91 , 2010.	PUBLISHED ABSTRACT
102.	 Ruiz, M.E., S. Dasso, W.H. Matthaeus, J.M. Weygand, E. Marsch, Aging of solar wind magnetic and velocity fluctuations from observations in the inner heliosphere, the American Geophysical Union Fall Conference in San Francisco, California in December, 2010, EOS Trans., 91, 2010. 	PUBLISHED ABSTRACT
103.	Wing, S., S. Ohtani, P.T. Newell, J. Johnson, T. Higuchi, G. Ueno, J.M. Weygand, Dayside field-aligned current source regions, the American Geophysical Union Fall Conference in San Francisco, California in December, 2010, EOS Trans., 91 , 2010.	PUBLISHED ABSTRACT
104.	Ostgaard, N., B.K. Humberset, K.M. Laundal, S. Haaland, A. Aasnes, J.M. Weygand, and L. Juusola, Asymmetries of substorm onset location and the dynamic behavior of auroral substorms during expansion phase, Oral presentation at the European Geophysical Union Conference in Vienna, Austria in April, 2011, Geophysical Research Abstracts, 13 , 2011.	PUBLISHED ABSTRACT
105.	Gao, Y., M.G. Kivelson, A.J. Ridley, J.M. Weygand, R.J. Walker, Long Term Variation of Driven and Unloading Effects on the Polar Cap Index, the American Geophysical Union Fall Conference in San Francisco, California in December, 2011, EOS Trans., 92 , 2011.	PUBLISHED ABSTRACT

106.	Haerendel, G., C.C. Chaston, H.U. Frey, O. Amm, L. Juusola,	PUBLISHED
	R. Nakamura, E. Seran, J. M. Weygand, Birth and Life of Auroral Arcs Embedded in the Evening Auroral Oval, the	ABSTRACT
	American Geophysical Union Fall Conference in San Francisco,	
	California in December 2011, EOS Trans., 92 , 2011.	
107.	Jiang, F., R.J. Strangeway, M.G. Kivelson, J.M. Weygand,	PUBLISHED
107.	R.J. Walker., K.K. Khurana, T. Nishimura, V. Angelopoulos,	ABSTRACT
	E. Donovan, S.B. Mende, In-situ observations of the preexisting	
	auroral arc by THEMIS all-sky imagers and the FAST, the	
	American Geophysical Union Fall Conference in San Francisco,	
	California in December 2011, EOS Trans., 92 , 2011.	
108.	Boudouridis, A., HJ. Kim, L.R. Lyons, E. Zesta, A.J. Ridley,	PUBLISHED
	J.M. Weygand, Statistical comparison of the ionospheric	ABSTRACT
	energy deposition before and after sudden enhancements in	
	solar wind dynamic pressure using AMIE output, the American	
	Geophysical Union Fall Conference in San Francisco, California	
	in December 2011, EOS Trans., 92 , 2011.	
109.	Jackel, B.J., T. Cameron, J.M. Weygand, Solar Wind Density	PUBLISHED
	Propagation and Magnetospheric Response, the American	ABSTRACT
	Geophysical Union Fall Conference in San Francisco, California	
	in December 2011, EOS Trans., 92 , 2011.	
110.	Hsu, TS., R.L. McPherron, J.M. Weygand, L. Jian, E.	PUBLISHED
	Tanskanen, X. Chu, J. Kissinger, Solar wind driving of	ABSTRACT
	substorms in different phases of the solar cycle, the	
	American Geophysical Union Fall Conference in San Francisco,	
111	California in December, 2011, EOS Trans., 92 , 2011.	DUDI ICUED
111.	Boudouridis, A., E. Zesta, L.R. Lyons, HJ. Kim, D.	PUBLISHED
	Lummerzheim, M. Wiltberger, J.M. Weygand, J.M. Ruohoniemi, and A. I. Bidley, Comparison of ionospheric convection and the	ABSTRACT
	and A.J. Ridley, Comparison of ionospheric convection and the transpolar potential before and after solar wind dynamic	
	pressure fronts: implications for magnetospheric reconnection,	
	oral presentation at the European Geophysical Union Conference	
	in Vienna, Austria in April 2012, Geophysical Research	
	Abstracts, 14, 2012.	
112.	Turner, D.L., V. Angelopoulos, D.G. Sibeck, M. Hartinger, F.	PUBLISHED
	Plaschke, A. Kellerman, J.M. Weygand, and R. Michell, The	ABSTRACT
	global impacts of foreshock phenomena on the Earth's	
	magnetosphere- ionosphere system, oral presentation at	
	at the European Geophysical Union Conference in Vienna,	
	Austria in April 2012, Research Abstracts, 14, 2012.	
113.	Weygand, J.M., W.H. Matthaeus, M.G. Kivelson, and S. Dasso	PUBLISHED
	A Comparison of Magnetic Correlation Functions in the Solar	ABSTRACT
	Wind, the American Geophysical Union Fall Conference in San	
	Francisco, California in December 2012, EOS Trans., 93 ,	
	2012.	

114.	Panov, E.V., W. Baumjohann, R. Nakamura, O. Amm, M. Kubyshkina, A. Artemyev, KH. Glassmeier, J.M. Weygand,	PUBLISHED ABSTRACT
	V. Angelopoulos, A.A. Petrukovich, V.A. Sergeev, Current	
	wedge dynamics and associated transient electron precipitation	
	during oscillatory flow braking, the American Geophysical	
	Union Fall Conference in San Francisco, California in	
	December 2012, EOS Trans., 93 , 2012.	
115.	Ruiz, M.E., S. Dasso, W.H. Matthaeus, J.M. Weygand, E.	PUBLISHED
	Marsch Magnetic correlation lengths in the turbulent	ABSTRACT
	solar wind, the American Geophysical Union Fall	
	Conference in San Francisco, California in December 2012,	
116	EOS Trans., 93 , 2012.	DUDI ICUED
116.	Gao, Y., M.G. Kivelson, R.J. Walker, J.M. Weygand, On Polar Cap Dynamics under Strong Solar Wind Driving, the American	PUBLISHED ABSTRACT
	Geophysical Union Fall Conference in San Francisco, California	ADSTRACT
	in December 2012, EOS Trans., 93 , 2012.	
117.	Chu, X., R.L. McPherron, TS. Hsu, J.M. Weygand, Application	PUBLISHED
1111	and Comparison of the Inversion Technique for Substorm	ABSTRACT
	Current Wedge with Ground Magnetometer Observations, the	
	American Geophysical Union Fall Conference in San Francisco,	
	California in December 2012, EOS Trans., 93, 2012.	
118.	Boudouridis, A., D.J. Knipp, M.J. Wiltberger, E. Zesta,	PUBLISHED
	L.R. Lyons, J.M. Weygand, Ionospheric Poynting Flux Response	ABSTRACT
	to Sudden Enhancements in Solar Wind Dynamic Pressure, the	
	American Geophysical Union Fall Conference in San Francisco,	
	California in December 2012, EOS Trans., 93 , 2012.	
119.	Angelopoulos, V., X. Zhou, S.A. Kieha, S. Li, A. Runov,	PUBLISHED
	J.M. Weygand, THEMIS, ARTEMIS and allied Heliophysics	ABSTRACT
	System Observatory spacecraft studies of magnetotail	
	reconnection and its global consequences, the American Geophysical Union Fall Conference in San Francisco, California	
	in December 2012, EOS Trans., 93 , 2012.	
120.	Turner, D.L., V. Angelopoulos, N. Omidi, D.G. Sibeck,	PUBLISHED
120.	M. Hartinger, F. Plaschke, A.C. Kellerman, J.M. Weygand,	ABSTRACT
	The global impacts of foreshock phenomena on Earths	1120110101
	magnetosphere-ionosphere system, the American Geophysical	
	Union Fall Conference in San Francisco, California in	
	December 2012, EOS Trans., 93 , 2012.	
121.	McPherron, R.L., H.J. Singer, V. Angelopoulos, M.G.	PUBLISHED
	Connors, J.M. Weygand, X. Chu, TS. Hsu, Galaxy-15	ABSTRACT
	Anomaly: The Substorm of 0855 UT April 5, 2010, the	
	American Geophysical Union Fall Conference in San	
	Francisco, California in December 2012, EOS Trans.,	
	93 , 2012.	

122.	Weygand, J.M., W.H. Matthaeus, M.G. Kivelson, and S. Dasso Determination of space-time magnetic correlation function in the solar wind, the American Geophysical Union Fall Conference in San Francisco, California in December 2013, EOS Trans. 94 , 2012	PUBLISHED ABSTRACT
123.	 EOS Trans., 94, 2013. Shi, Q., H. Hartinger, V. Angelopoulos, A. Tian, Q. Zong, S. Fu, Z. Pu, J.M. Weygand, X. Zhou, X. Zhou, J. Raeder, A.C. Kellerman, M.W. Dunlop, Z. Yao, Solar wind dynamic pressure pulse driven magnetospheric vortices and waves, American Geophysical Union Fall Conference in San Francisco, California in December 2013, EOS Trans., 94, 2013. 	PUBLISHED ABSTRACT
124.	Strangeway, R.J, J.M. Weygand, A. Runov, F. Jiang, J. Raeder, Mapping Between the Ionosphere and the Magnetosphere Using Global Magnetohydrodynamic Simulations, American Geophysical Union Fall Conference in San Francisco, California in December 2013, EOS Trans., 94 , 2013.	PUBLISHED ABSTRACT
125.	McPherron, R.L. and J.M. Weygand, A Comparison of the Arctic and Antarctic Auroral Electrojet Indices, the American Geophysical Union Fall Conference in San Francisco, California in December 2013, EOS Trans., 94 , 2013.	PUBLISHED ABSTRACT
126.	 Turner, D.L., V. Angelopoulos, N. Omidi, L.B. Wilson, H. Hietala, A.C. Kellerman, J.M. Weygand, Foreshock bubbles and their global impacts on Earths magnetosphere- ionosphere system (Invited), the American Geophysical Union Fall Conference in San Francisco, California in December 2013, EOS Trans., 94, 2013. 	PUBLISHED ABSTRACT
127.	Weygand, J.M.,E. Zesta, R.L. McPherron, and TS. Hsu, The Differences in Onset Time of Conjugate Substorms, the American Geophysical Union Fall Conference in San Francisco, California in December 2014, EOS Trans., 95 , 2014.	PUBLISHED ABSTRACT
128.	Jiang, F., M.G. Kivelson, R.J. Strangeway, K.K. Khurana, R.J. Walker, J.M. Weygand, Ionospheric Current Closure of the Pre-existing Auroral Arc, the American Geophysical Union Fall Conference in San Francisco, California in December 2014, EOS Trans., 95 , 2014.	PUBLISHED ABSTRACT
129.	 Shi., Q., A. Tian, Q.G. Zong, S. Fu, M. Hartinger, V. Angelopoulos, X. Shen, H. Zhao, Z. Pu, J.M. Weygand, J. Raeder, X. Zhou, H. Zhang, and M.W. Dunlop, Solar wind dynamic pressure pulse - driven magnetospheric vortices and waves, the American Geophysical Union Fall Conference in San Francisco, California in December 2014, EOS Trans., 95, 2014. 	PUBLISHED ABSTRACT

130.	Boudouridis, A., J.M. Weygand, and E. Zesta, Statistical	PUBLISHED
	Comparison of a Southern Auroral Electrojet Index with	ABSTRACT
	Northern Hemisphere AE Indices as a Function of Solar Wind	
	and IMF, the American Geophysical Union Fall Conference in	
	San Francisco, California in December 2014, EOS Trans.,	
	95 , 2014.	
131.	Panov, E.V, O.S. Leontyeva, W. Baumjohann, R. Nakamura,	PUBLISHED
	O. Amm, V. Angelopoulos, KH. Glassmeier, M.V. Kubyshkina,	ABSTRACT
	A.A. Petrukovich, V. Sergeev, J.M Weygand, Plasma sheet flow	
	damping by oscillatory flow braking, presentation at the	
	European Geophysical Union Conference in Vienna, Austria in	
	Apri 2015, Geophysical Research Abstracts, 17, 2015.	
132.	Carter, B.A., E. Yizengaw, C.S. Lin, R. Pradipata, R. Norman,	PUBLISHED
	T. Tseung, J. Bennett, R.L. Bishop, J.M. Weygand, M. Francis,	ABSTRACT
	M.B. Terkildsen, K.M. Groves, R.G. Canton, N. Tripathi, K. Zhang	
	The impacts of the St. Patrick's Day superstorm on selected	
	technologies, the American Geophysical Union Fall Conference in	
	San Francisco, California in December 2015, EOS Trans.,	
	96 , 2015.	
133.	Weygand, J.M., M.G. Kivelson, M. Velli, W.N. Gekelman, K.K.	PUBLISHED
	Khurana, V. Angelopoulos, R.J. Walker, Complexity Variations	ABSTRACT
	in the Interplanetary Magnetic Field between 0.4 and 5.3 AU,	
	the American Geophysical Union Fall Conference in San	
101	Francisco, California in December 2015, EOS Trans., 96 , 2015.	
134.	Chu, X. R.L. McPherron, TS. Hsu, V. Angelopoulos, J.M.	PUBLISHED
	Weygand, R.J. Strangeway, and J. Liu, Magnetotail flux	ABSTRACT
	accumulation leading to auroral expansion and a substorm	
	current wedge: case study, the American Geophysical Union Fall	
	Conference in San Francisco, California in December 2015,	
195	EOS Trans., 96 , 2015. Hwang, KJ., D.G. Sibeck, SH. Lee, Y. Nishimura, J.M.	PUBLISHED
135.		
	Weygand, E. Donovan, E. Spanswick, The Role of Kelvin- Helmholtz Waves in Magnetosphere-Ionosphere Coupling	ABSTRACT
	the American Geophysical Union Fall Conference in San	
	Francisco, California in December 2015, EOS Trans., 96 ,	
	2015.	
136.	Walker, R.J, K. Fukazawa, S. Eriksson, and J.M. Weygand	PUBLISHED
100.	Is Saturn's Magnetosphere Turbulent? poster presentation	ABSTRACT
	at the European Geophysical Union Conference in Vienna,	
	Austria in Apri 2016, Geophysical Research Abstracts,	
	18 , 2016.	

137.	Carter, B.A., E. Yizengaw, C.S. Lin, R. Pradipata, R. Norman,T. Tseung, J. Bennett, R.L. Bishop, J.M. Weygand, M. Francis,M.B. Terkildsen, K.M. Groves, R.G. Canton, N. Tripathi, K. ZhangThe impacts of the St. Patrick's Day superstorm on selectedtechnologies, the Asia Oceania Geosciences Society Conference	PUBLISHED ABSTRACT
138.	in Beijing, China in August 2016. Weygand, J.M. M.G. Kivelson, M. Velli, K.K. Khurana, V. Angelopoulos, and R.J. Walker, Complexity variations in the interlanetary magnetic field between 0.3 and 5.4 AU, the American Geophysical Union Fall Conference in San Francisco,	PUBLISHED ABSTRACT
139.	California in December 2016, EOS Trans., 97 , 2016. Partamies, N., J.M. Weygand, and L. Juusola, Occurrence of auroral omega bands, the American Geophysical Union Fall Conference in San Francisco, California in December 2016,	PUBLISHED ABSTRACT
140.	 EOS Trans., 97, 2016. Prikryl, P., R. Ghoddousi-Fard, M. Conners, J.M. Weygand, D.W. Danskin, P.T. Jayachandran, E.G. Thomas, J.M. Ruohoniemi, T. Durgonics, K. Oksavik, and Y. Zhang, GPS Phase scintillation during the geomagnetic storm of March 17, 2015: The relation to the auroral electrojet currents, presentation at the Japan 	PUBLISHED ABTSRACT
141.	Geoscience Union Meeting Conference in Chibe, Japan in May, 2016. Prikryl, P., R. Ghoddousi-Fard, A. Viljanen, J.M. Weygand, B.S.R. Kunduri, E.G. Thomas, J.M. Ruohoniemi, M. Connors, D. W. Danskin, P.T. Jayachandran, K.S. Jacobsen, Y.L. Andalsvik, T. Durgonics, K. Oksavik, Y. Zhang, E. Spanswick, M. V. Sreeja, M. Aquinoi, Comparison of geomagnetic storms of March 17, 2013 and 2015: GPS phase scintillation and auroral electrojet currents, presentation at the European Geophysical Union Conference in Vienna, Austria in April 2017, Geophysical	PUBLISHED ABTSRACT
142.	Research Abstracts, 19 , 2017. Panov, E.V., W. Baumjohann, R.A. Wolf, R. Nakamura, V. Angelopoulos, J.M. Weygand, and M. Kubyshikina, Magnetotail energy dissipation during an auroral substorm, presentation at the European Geophysical Union Conference in Vienna, Austria in April 2017, Geophysical Research Abstracts, 10 , 2017	PUBLISHED ABSTRACT
143.	 19, 2017. Russell, C.T., D. Leneman, J.M. Weygand, and H. Parish, Magnetic measurements in hot planetary environments, presentation at the European Geophysical Union Conference in Vienna, Austria in April 2017, Geophysical Research Abstracts, 19, 2017. 	PUBLISHED ABSTRACT

144.	Weygand, J.M., E. Zesta, and R.L. McPherron, Investigation of the Differences in Onset Times for Hemispherically Conjugate Magnetometers, the Asia Oceania Geosciences Society Conference	PUBLISHED ABSTRACT
145.	in Singapore in August 2017. Weygand, J.M., and X. Chu, Temporal and Spatial Development of dB/dt During Substorms, the American Geophysical Union Fall Conference in New Orleans, Louisiana in December 2017, EOS Trans., 08, 2017	PUBLISHED ABSTRACT
146.	 98, 2017. Prikryl, P., R. Ghoddousi-Fard, K.S. Jacobsen, A. Viljanen, J.M. Weygand, D.W. Danskin, P.T. Jayachandran, B.S.R. Kunduri, Y.L. Andalsvik, M. Connors, T. Durgonics, GPS phase scintillation and auroral electrojet currents, the European Geophysical Union Conference in Vienna, Austria in April 2018, Geophysical Research Abstracts, 20, 2018. 	PUBLISHED ABSTRACT
147.	Kellerman, A., Y. Shprits, R.L. McPherron, D. Kondrashov, J.M. Weygand, H. Zhu, and A. Drozdov, The radiation-belt electron phase-space-density response to stream-interaction regions: Multi-point observations, data-assimilation, physics- based modeling, and forecasting, the European Geophysical Union Conference in Vienna, Austria in April 2018, Geophysical Research Abstracts, 20, 2018.	PUBLISHED ABSTRACT
148.	 Panov, E.V., R. Nakamura, W. Baumjohann, J.M. Weygand, C.T. Russell, B.L. Giles, Plasma sheet-geosynchronous- ground conjugate observations of field and current oscillations during oscillatory flow braking , the European Geophysical Union Conference in Vienna, Austria in April 2018, Geophysical Research Abstracts, 20, 2018. 	PUBLISHED ABSTRACT
149.	Prikryl, P., R. Ghoddousi-Fard, K.S. Jacobsen, A. Viljanen, J.M. Weygand, D.W. Danskin, P.T. Jayachandran, B.S.R. Kunduri, Y.L. Andalsvik, M. Connors, T. Durgonics, GPS phase scintillation and auroral electrojet currents during Geomagnetic Storms, the Asia Oceania Geosciences Society Conference in Honolulu, Hawaii in June 2018.	PUBLISHED ABSTRACT
150.	Weygand, J.M., and M.G. Kivelson, Temporal and spatial development of TEC enhancements during substorms, the Committee of Space Research conference in Pasadena, California in July, 2018.	PUBLISHED ABSTRACT
151.	El-Alaoui, M., R.L. McPherron, R. Richard, J.M. Weygand, Y. Nishimura, Mesoscale flow channels and field aligned current structures in a global magnetohydrodynamic simulation of a substorm, the Committee of Space Research conference in Pasadena, California in July, 2018.	PUBLISHED ABSTRACT

152.	Kellerman, A.C., Y.Y. Shprits, R. McPherron, D.A. Kondrashov,	PUBLISHED
	J.M. Weygand, H. Zhu, A.Y. Drozdov, N. Aseev, and F.	ABSTRACT
	Effenberger, The radiation-belt electron phase-space-density	
	response to stream-interaction regions: Multi-point observations,	
	data-assimilation, physics-based modeling, and forecasting, the	
	Committee of Space Research conference in Pasadena, California	
1 50	in July, 2018.	
153.	Fung, S., A. Roberts, T. King, R. Chimiak, L.F. Bargatze, C.	PUBLISHED
	Dolan, L. Garcia, J.M. Weygand, The SMWT: A concerted effort	ABSTRACT
	to produce SPASE-based metadata for heliophysics and space	
	weather data to enable uniform accessibility, the Committee	
	of Space Research conference in Pasadena, California in July, 2018.	
154.	Weygand, J.M., S. Wing, R.J. Redmon, P.T. Jayachandran,	PUBLISHED
	Temporal and Spatial Development of vTEC Enhancements During	ABSTRACT
	Substorms, the American Geophysical Union Conference in	
	Washington D.C. in December, 2018, EOS TRANS., 99, 2018.	-
155.	El-Alaoui, M., R.L. McPherron, R.L. Richard, J.M. Weygand,	PUBLISHED
	and Y. Nishimura, Mesoscale Magnetotail Structures and Their	ABSTRACT
	Coupling to the Ionosphere, the American Geophysical Union	
	Conference in Washington D.C. in December, 2018, EOS TRANS.,	
	99 , 2018.	
156.	Ahmed, L.Y., M.J. Engebretson, J.L. Posch, E.S. Steinmetz, M.B.	PUBLISHED
	Moldwin, M.G. Connors, J.M. Weygand, I.R. Mann, V. Pilipenko,	ABSTRACT
	D.H. Boteler, and C.T. Russell, A Survey of Magnetic Impulse	
	Events (MIEs) Observed by the MACCS, AUTUMNX, CANMOS,	
	and CARISMA Magnetometer Arrays in Arctic Canada: 2014-2017,	
	the American Geophysical Union Conference in Washington	
	D.C. in December, 2018, EOS TRANS., 99 , 2018.	
157.	Strangeway, R.J., C.T. Russell, C. Zhao, B.J. Anderson, J.M.	PUBLISHED
	Weygand, and W.R. Paterson, Magnetospheric Multiscale	ABSTRACT
	Observations of Field-Aligned Currents near the Electron	
	Diffusion Region, the American Geophysical Union Conference	
	in Washington D.C. in December, 2018, EOS TRANS., 99 , 2018.	
158.	Manweiler, J.W., M.G. Connors, M.J. Engebretson, J.M. Weygand,	PUBLISHED
	A.R. Soto-chavez, M.B. Cooper, A.J. Gerrard, D.G. Mitchell, and	ABSTRACT
	L.J. Lanzerotti, Direct observation of Magnetospheric-Ionospheric	
	(M-I) Coupling by Spacecraft and Ground systems during the Feb	
	2, 2017 substorm, the American Geophysical Union Conference in	
	Washington D.C. in December, 2018, EOS TRANS., 99, 2018.	

159.	Engebretson, M.J., E.S. Steinmetz, J.L. Posch, M.G. Connors,	PUBLISHED
	J.M. Weygand, L.R. Lyons, Y. Nishimura, S. Ohtani, C.T. Russell,	ABSTRACT
	I.R. Mann, D.H. Boteler, and M. Hartinger, Multiple-Instrument	
	Observations of Nighttime Magnetic Impulse Events (MIEs) at	
	High Latitudes, the American Geophysical Union Conference in	
	Washington D.C. in December, 2018, EOS TRANS., 99, 2018.	
160.	Strangeway, R.J., J¿M. Weygand, J. Raeder, A. Runov, and P.	PUBLISHED
	Tenfjord, Investigating the Sources of Auroral Field Aligned	ABSTRACT
	Currents: A Comparison Between Data and Global Simulations,	
	the European Geophysical Union Conference in Vienna, Austria	
	in April 2019, Geophysical Research Abstracts, 21, 2019.	
161.	Prikryl, P., L. Nikitina, B.S.R. Kunduri, J.M. Weygand, and	PUBLISHED
	V. Rusin, Solar wind influence on tropical cyclones mediated by	ABSTRACT
	atmospheric gravity waves, the European Geophysical Union	
	Conference in Vienna, Austria in April 2019, Geophysical	
	Research Abstracts, 21, 2019.	
162.	Weygand, J.M., P. Prikryl, R. Ghoddousi-Fard, P.T.	PUBLSHED
	Jayachandran, D.R. Themens, A.M. McCaffrey, B.S.R. Kunduri,	ABSTRACT
	E. Spanswick, and Y. Zhang, Temporal and spatial variations	
	of GPS TEC and phase scintillations during substorm and auroral	
	breakups, the European Geophysical Union Conference in	
	Vienna, Austria in April 2019, Geophysical Research Abstracts,	
	21, 2019.	
163.	Panov, E.V., W. Baumjohann, R. Nakamura, J.M. Weygand,	PUBLISHED
	B.L. Giles, C.T. Russel, G. Reeves, and M.V. Kubyshkin,	ABSTRACT
	Continent-wide R1/R2 Current System and Ohmic Losses by Broad	
	Dipolarization-Injection Fronts, the European Geophysical	
	Union Conference in Vienna, Austria in April 2019, Geophysical	
	Research Abstracts, 21, 2019.	
164.	Prikryl, P., J.M. Weygand, R. Ghoddousi-Fard, P.T. Jayachandran,	PUBLISHED
	D. Themens and A.M. McCaffrey, GPS TEC and Phase Variations	ABSTRACT
	during Substorms and Auroral Breakups, the American Geophysical	
	Union conference in San Francisco, CA in December 2019, EOS	
	Trans., 100 , 2019.	
165.	Panov, E.V., W. Baumjohann, R. Nakamura, P.L. Pritchett, J.M.	PUBLISHED
	Weygand, M.V. Kubyshkina, Ionospheric Footprints of Detached	ABSTRACT
	Magnetotail Interchange Heads, the American Geophysical Union	
	conference in San Francisco, CA in December 2019, EOS Trans.,	
	100 , 2019.	

Panov, E.V., W. Baumjohann, R. Nakamura, J.M. Weygand, B.L.	PUBLISHED
Giles, C.T. Russell, R. Geoffrey, M.V. Kubyshkina, V.G. Merkin,	ABSTRACT
Continent-Wide R1/R2 Current System and Ohmic Losses by	
Broad Dipolarization-Injection Fronts, the American Geophysical	
Union conference in San Francisco, CA in December 2019,	
EOS Trans., 100 , 2019.	
Weygand, J.M., and M, El-Alaoui, The Response of Field	PUBLISHED
Aligned Currents to Northward Interplanetary Magnetic Field,	ABSTRACT
the American Geophysical Union conference in San Francisco, CA	
in December 2019, EOS Trans., 100 , 2019.	
Walker, R.J., G. Lapenta, M. El-Alaoui, J.M. Weygand, J.	PUBLISHED
Berchem, R.L. Richard, and D. Schriver, Flow Streaming in	ABSTRACT
the Magnetotail, the American Geophysical Union conference in	
San Francisco, CA in December 2019, EOS Trans., 100 , 2019.	
Strangeway, R.J., C.T. Russell, B.J. Anderson, J.M.	PUBLISHED
Weygand, W.R. Paterson, P. Tenfjord, R.B. Torbert, and J.L.	ABSTRACT
Burch, the American Geophysical Union conference in San	
Francisco, CA in December 2019, EOS Trans., 100 , 2019.	
Mostafa El-Alaoui, R.L. McPherron, R.J. Walker, and J.M.	PUBLISHED
Weygand, the American Geophysical Union conference in San	ABSTRACT
Francisco, CA in December 2019, EOS Trans., 100 , 2019.	
Weygand, J.M., P. Prikry, R. Ghoddousi-Fard, L. Nikitina,	PUBLISHED
and B.S.R. Kunduri, Recurrent high-speed solar wind	ABSTRACT
co-rotating interaction region imprint on the ionosphere and	
atmosphere: GPS TEC variations and atmospheric gravity waves,	
the European Geophysical Union Virtual Conference in April,	
2019, Geophysical Research Abstracts, 22, 2020.	
	 Giles, C.T. Russell, R. Geoffrey, M.V. Kubyshkina, V.G. Merkin, Continent-Wide R1/R2 Current System and Ohmic Losses by Broad Dipolarization-Injection Fronts, the American Geophysical Union conference in San Francisco, CA in December 2019, EOS Trans., 100, 2019. Weygand, J.M., and M, El-Alaoui, The Response of Field Aligned Currents to Northward Interplanetary Magnetic Field, the American Geophysical Union conference in San Francisco, CA in December 2019, EOS Trans., 100, 2019. Walker, R.J., G. Lapenta, M. El-Alaoui, J.M. Weygand, J. Berchem, R.L. Richard, and D. Schriver, Flow Streaming in the Magnetotail, the American Geophysical Union conference in San Francisco, CA in December 2019, EOS Trans., 100, 2019. Strangeway, R.J., C.T. Russell, B.J. Anderson, J.M. Weygand, W.R. Paterson, P. Tenfjord, R.B. Torbert, and J.L. Burch, the American Geophysical Union conference in San Francisco, CA in December 2019, EOS Trans., 100, 2019. Mostafa El-Alaoui, R.L. McPherron, R.J. Walker, and J.M. Weygand, the American Geophysical Union conference in San Francisco, CA in December 2019, EOS Trans., 100, 2019. Mostafa El-Alaoui, R.L. McPherron, R.J. Walker, and J.M. Weygand, the American Geophysical Union conference in San Francisco, CA in December 2019, EOS Trans., 100, 2019. Mostafa El-Alaoui, R.L. McPherron, R.J. Walker, and J.M. Weygand, J.M., P. Prikry, R. Ghoddousi-Fard, L. Nikitina, and B.S.R. Kunduri, Recurrent high-speed solar wind co-rotating interaction region imprint on the ionosphere and atmosphere: GPS TEC variations and atmospheric gravity waves, the European Geophysical Union Virtual Conference in April,

Published Datasets

1.	J.M. Weygand and R.L. McPherron, Wind 3DP Linearly Interpolated 60 s Resolution data in GSE coordinates,	PUBLISHED DATASET
2.	https://doi.org/10.21978/P8791F, 2006. J.M. Weygand and R.L. McPherron, Wind 3DP Linearly Interpolated 60 s Resolution data in GSM coordinates,	PUBLISHED DATASET
3.	https://doi.org/10.21978/P83K90, 2005. J.M. Weygand and R.L. McPherron, Wind Linearly Interpolated 60 s Resolution Tri-axial Fluxgate Magnetometer in GSE Coordinates,	PUBLISHED DATASET
4.	https://doi.org/10.21978/P86D15, 2005. J.M. Weygand and R.L. McPherron, Wind Linearly Interpolated 60 s Resolution Tri-axial Fluxgate Magnetometer in GSM Coordinates,	PUBLISHED DATASET
5.	https://doi.org/10.21978/P8B32P, 2005. J.M. Weygand and R.L. McPherron, Wind 3DP Weimer Propagated 60 s Resolution in GSE Coordinates,	PUBLISHED DATASET
6.	https://doi.org/10.21978/P8ZS72, 2006. J.M. Weygand and R.L. McPherron, Wind 3DP Weimer Propagated 60 s Resolution in GSM Coordinates,	PUBLISHED DATASET
7.	https://doi.org/10.21978/P82K7X, 2006. J.M. Weygand and R.L. McPherron, Wind Weimer Propagated 60 s Resolution Tri-axial Fluxgate Magnetometer in GSE Coordinates,	PUBLISHED DATASET
8.	https://doi.org/10.21978/P8QD0F, 2006. J.M. Weygand and R.L. McPherron, Wind Weimer Propagated 60 s Resolution Tri-axial Fluxgate Magnetometer in GSM Coordinates,	PUBLISHED DATASET
9.	https://doi.org/10.21978/P8FW5P, 2006. J.M. Weygand and R.L. McPherron, Wind Weimer Propagation Details at 1 min Resolution, https://doi.org/10.21978/P8T321,	PUBLISHED DATASET
10.	2006. J.M. Weygand and R.L. McPherron, ACE Linearly Interpolated 60 s Resolution Tri-axial Fluxgate Magnetometer in GSE Coordinates,	PUBLISHED DATASET
11.	https://doi.org/10.21978/P8PD2W, 2006. J.M. Weygand and R.L. McPherron, ACE Linearly Interpolated 60 s Resolution Tri-axial Fluxgate Magnetometer in GSM Coordinates,	PUBLISHED DATASET
12.	https://doi.org/10.21978/P8JK8N, 2006. J.M. Weygand and R.L. McPherron, ACE Weimer Propagated 60 s Resolution Tri-axial Fluxgate Magnetometer in GSE Coordinates,	PUBLISHED DATASET
13.	https://doi.org/10.21978/P8DW6R, 2006. J.M. Weygand and R.L. McPherron, ACE Weimer Propagated 60 s Resolution Tri-axial Fluxgate Magnetometer in GSM Coordinates,	PUBLISHED DATASET
14.	https://doi.org/10.21978/P8933R, 2006. J.M. Weygand and R.L. McPherron, ACE Linearly Interpolated 60 s Resolution SWEPAM data in GSE Coordinates, https://doi.org/10.21978/P85D1V, 2006.	PUBLISHED DATASET

15.	J.M. Weygand and R.L. McPherron, ACE Linearly Interpolated 60 s Resolution SWEPAM data in GSM Coordinates, https://doi.org/10.21978/P81K9C, 2006.	PUBLISHED DATASET
16.	J.M. Weygand and R.L. McPherron, ACE SWEPAM Solar Wind Weimer Propagated 60 s Resolution Data in GSE Coordinates, https://doi.org/10.21978/P8WW5Q, 2006.	PUBLISHED DATASET
17.	J.M. Weygand and R.L. McPherron, ACE SWEPAM Solar Wind Weimer Propagated 60 s Resolution Data in GSM Coordinates, https://doi.org/10.21978/P8S62R, 2006.	PUBLISHED DATASET
18.	J.M. Weygand and R.L. McPherron, ACE Weimer Propagation Details at 1 min Resolution, https://doi.org/10.21978/P8HP70, 2006.	PUBLISHED DATASET
19.	J.M. Weygand and R.L. McPherron, IMP-8 Linearly Interpolated 60 s Resolution Tri-axial Fluxgate Magnetometer in GSE Coordinates, https://doi.org/10.21978/P8CW4P, 2006.	PUBLISHED DATASET
20.	J.M. Weygand and R.L. McPherron, IMP-8 Linearly Interpolated 60 s Resolution Tri-axial Fluxgate Magnetometer in GSM Coordinates, https://doi.org/10.21978/P8863G, 2006.	PUBLISHED DATASET
21.	J.M. Weygand and R.L. McPherron, IMP-8 Weimer Propagated 60 s Resolution Tri-axial Fluxgate Magnetometer in GSE Coordinates, https://doi.org/10.21978/P84C97, 2006.	PUBLISHED DATASET
22.	J.M. Weygand and R.L. McPherron, IMP-8 Weimer Propagated 60 s Resolution Tri-axial Fluxgate Magnetometer in GSM Coordinates, https://doi.org/10.21978/P80P8Q, 2006.	PUBLISHED DATASET
23.	J.M. Weygand and R.L. McPherron, IMP-8 Linearly Interpolated 60 s Resolution PLS data in GSE Coordinates, https://doi.org/10.21978/P8VW41, 2006.	PUBLISHED DATASET
24.	J.M. Weygand and R.L. McPherron, IMP-8 Linearly Interpolated 60 s Resolution PLS data in GSM Coordinates, https://doi.org/10.21978/P8R646, 2006.	PUBLISHED DATASET
25.	J.M. Weygand and R.L. McPherron, IMP-8 PLS Solar Wind Weimer Propagated 60 s Resolution Data in GSE Coordinates, https://doi.org/10.21978/P8MD0H, 2006.	PUBLISHED DATASET
26.	J.M. Weygand and R.L. McPherron, IMP-8 PLS Solar Wind Weimer Propagated 60 s Resolution Data in GSM Coordinates, https://doi.org/10.21978/P8GP82, 2006.	PUBLISHED DATASET
27.	J.M. Weygand and R.L. McPherron, IMP-8 Weimer Propagation Details at 1 min Resolution, https://doi.org/10.21978/P8BW5R, 2006.	PUBLISHED DATASET
28.	J.M. Weygand and R.L. McPherron, ISEE 1 Linearly Interpolated 60 s Resolution Fast Plasma Experiment data in GSE Coordinates, https://doi.org/10.21978/P8Q624, 2006.	PUBLISHED DATASET

29.	J.M. Weygand and R.L. McPherron, ISEE 1 Linearly Interpolated	PUBLISHED
	60 s Resolution Fast Plasma Experiment data in GSM Coordinates,	DATASET
20	https://doi.org/10.21978/P8KG99, 2006.	
30.	J.M. Weygand and R.L. McPherron, ISEE 1 Fast Plasma Experiment	PUBLISHED
	Solar Wind Weimer Propagated 60 s Resolution Data in GSE	DATASET
31.	Coordinates, https://doi.org/10.21978/P8FP60, 2006. J.M. Weygand and R.L. McPherron, ISEE 1 Fast Plasma Experiment	PUBLISHED
51.	Solar Wind Weimer Propagated 60 s Resolution Data in GSM	DATASET
	Coordinates, https://doi.org/10.21978/P8B05S, 2006.	DATASET
32.	J.M. Weygand and R.L. McPherron, ISEE 1 Linearly Interpolated	PUBLISHED
02.	60 s Resolution Tri-axial Fluxgate Magnetometer in GSE	DATASET
	Coordinates, https://doi.org/10.21978/P86613, 2006.	DIIIISEI
33.	J.M. Weygand and R.L. McPherron, ISEE 1 Linearly Interpolated	PUBLISHED
	60 s Resolution Tri-axial Fluxgate Magnetometer in GSM	DATASET
	Coordinates, https://doi.org/10.21978/P82H0K, 2006.	
34.	J.M. Weygand and R.L. McPherron, ISEE 1 Weimer Propagated 60 s	PUBLISHED
	Resolution Tri-axial Fluxgate Magnetometer in GSE Coordinates,	DATASET
	https://doi.org/10.21978/P8XP6B, 2006.	
35.	J.M. Weygand and R.L. McPherron, ISEE 1 Weimer Propagated 60 s	PUBLISHED
	Resolution Tri-axial Fluxgate Magnetometer in GSM Coordinates,	DATASET
	https://doi.org/10.21978/P8T054, 2006.	
36.	J.M. Weygand and R.L. McPherron, ISEE 1 Solar Wind Weimer	PUBLISHED
	Propagation Details at 1 min Resolution,	DATASET
97	https://doi.org/10.21978/P8P61F, 2006.	DUDI IGUED
37.	J.M. Weygand and R.L. McPherron, ISEE 2 Fast Plasma Experiment	PUBLISHED
	i Linearly Interpolated 60 s Resolution data in GSE Coordinates, https://doi.org/10.21978/P87635, 2006.	DATASET
38.	J.M. Weygand and R.L. McPherron, ISEE 2 Fast Plasma Experiment	PUBLISHED
50.	i Linearly Interpolated 60 s Resolution data in GSM Coordinates,	DATASET
	https://doi.org/10.21978/P83D0V, 2006.	DITINGLI
39.	J.M. Weygand and R.L. McPherron, ISEE 2 Linearly Interpolated	PUBLISHED
	60 s Resolution Tri-axial Fluxgate Magnetometer in GSE	DATASET
	Coordinates, https://doi.org/10.21978/P8ZP71, 2006.	
40.	J.M. Weygand and R.L. McPherron, ISEE 2 Linearly Interpolated	PUBLISHED
	60 s Resolution Tri-axial Fluxgate Magnetometer in GSM	DATASET
	Coordinates, https://doi.org/10.21978/P8V042, 2006.	
41.	J.M. Weygand and R.L. McPherron, ISEE 3 Linearly Interpolated	PUBLISHED
	60 s Resolution Tri-axial Fluxgate Magnetometer in GSE	DATASET
	Coordinates, https://doi.org/10.21978/P8S04F, 2006.	
42.	J.M. Weygand and R.L. McPherron, ISEE 3 Linearly Interpolated	PUBLISHED
	60 s Resolution Tri-axial Fluxgate Magnetometer in GSM	DATASET
	Coordinates, https://doi.org/10.21978/P8N915, 2006.	

43.	J.M. Weygand and R.L. McPherron, ISEE 3 Weimer Propagated 60 s Resolution Tri-axial Fluxgate Magnetometer in GSE Coordinates,	PUBLISHED DATASET
	https://doi.org/10.21978/P8HG9P, 2006.	
44.	J.M. Weygand and R.L. McPherron, ISEE 3 Weimer Propagated 60 s	PUBLISHED
	Resolution Tri-axial Fluxgate Magnetometer in GSM Coordinates,	DATASET
	https://doi.org/10.21978/P8CS6D, 2006.	
45.	J.M. Weygand and R.L. McPherron, ISEE 3 Linearly Interpolated	PUBLISHED
	60 s Resolution Solar Wind Plasma data in GSE Coordinates,	DATASET
	https://doi.org/10.21978/P8803D, 2006.	
46.	J.M. Weygand and R.L. McPherron, ISEE 3 Linearly Interpolated	PUBLISHED
	60 s Resolution Solar Wind Plasma data in GSM Coordinates,	DATASET
	https://doi.org/10.21978/P8492W, 2006.	
47.	J.M. Weygand and R.L. McPherron, ISEE 3 Solar Wind Plasma	PUBLISHED
	Weimer Propagated 60 s Resolution Data in GSE	DATASET
	Coordinates, https://doi.org/10.21978/P80G8N, 2006.	
48.	J.M. Weygand and R.L. McPherron, ISEE 3 Solar Wind Plasma	PUBLISHED
	Weimer Propagated 60 s Resolution Data in GSM	DATASET
	Coordinates, https://doi.org/10.21978/P8VS74, 2006.	
49.	J.M. Weygand and R.L. McPherron, ISEE 1 Solar Wind Weimer	PUBLISHED
	Propagation Details at 1 min Resolution,	DATASET
	https://doi.org/10.21978/P8R03R, 2006.	
50.	J.M. Weygand and R.L. McPherron, Interball Tail Wide-range	PUBLISHED
	3D Ion Spectrometer (CORALL) Linearly Interpolated 60 s	DATASET
	Resolution data in GSE Coordinates, https://doi.org/10.21978-	
	/P8GG9C, 2006.	
51.	J.M. Weygand and R.L. McPherron, Interball Tail Linearly	PUBLISHED
	Interpolated 60 s Resolution Tri-axial Fluxgate Magnetometer	DATASET
50	in GSE Coordinates, https://doi.org/10.21978/P8BS7G, 2006.	
52.	J.M. Weygand and R.L. McPherron, Geotail Linearly	PUBLISHED
	Interpolated 60 s Resolution Comprehensive Plasma	DATASET
	Instrumentation (CPI) data in GSE Coordinates,	
50	https://doi.org/10.21978/P8704G, 2006.	DUDI IQUED
53.	J.M. Weygand and R.L. McPherron, Geotail Linearly	PUBLISHED
	Interpolated 60 s Resolution Comprehensive Plasma	DATASET
	Instrumentation (CPI) data in GSE Coordinates,	
F 4	https://doi.org/10.21978/P8392K, 2006.	DUDI IGUED
54.	J.M. Weygand and R.L. McPherron, Geotail Comprehensive	PUBLISHED DATASET
	Plasma Instrumentation (CPI) data Weimer Propagated 60 s	DATASET
	Resolution in GSE Coordinates, https://doi.org/10.21978-/Ps7HoN_2006	
	/P8ZH0N, 2006.	

55.	J.M. Weygand and R.L. McPherron, Geotail Comprehensive Plasma Instrumentation (CPI) data Weimer Propagated 60 s Resolution in GSM Coordinates, https://doi.org/10.21978/P8TS6F, 2006.	PUBLISHED DATASET
56.	J.M. Weygand and R.L. McPherron, Geotail Linearly Interpolated 60 s Resolution Low Energy Particle (LEP) experiment data in GSE Coordinates, https://doi.org/10.21978/P8Q33G, 2006.	PUBLISHED DATASET
57.	J.M. Weygand and R.L. McPherron, Geotail Linearly Interpolated 60 s Resolution Low Energy Particle (LEP) experiment data in GSM Coordinates, https://doi.org/10.21978/P8K91J, 2006.	PUBLISHED DATASET
58.	J.M. Weygand and R.L. McPherron, Geotail Low Energy Particle (LEP) experiment data Weimer Propagated 60 s Resolution in GSE Coordinates, https://doi.org/10.21978/P8FK8Q, 2006.	PUBLISHED DATASET
59.	J.M. Weygand and R.L. McPherron, Geotail Low Energy Particle (LEP) experiment data Weimer Propagated 60 s Resolution in GSM Coordinates, https://doi.org/10.21978/P89S5D, 2006.	PUBLISHED DATASET
60.	J.M. Weygand and R.L. McPherron, Geotail Linearly Interpolated 60 s Resolution Tri-axial Fluxgate Magnetometer in GSE Coordinates, https://doi.org/10.21978/P86346, 2006.	PUBLISHED DATASET
61.	J.M. Weygand and R.L. McPherron, Geotail Linearly Interpolated 60 s Resolution Tri-axial Fluxgate Magnetometer in GSM Coordinates, https://doi.org/10.21978/P8290H, 2006.	PUBLISHED DATASET
62.	J.M. Weygand and R.L. McPherron, Geotail Weimer Propagated using CPI 60 s Resolution Tri-axial Fluxgate Magnetometer in GSE Coordinates, https://doi.org/10.21978/P8XK9F, 2006.	PUBLISHED DATASET
63.	J.M. Weygand and R.L. McPherron, Geotail Weimer Propagated using CPI 60 s Resolution Tri-axial Fluxgate Magnetometer in GSM Coordinates, https://doi.org/10.21978/P8SS5R, 2006.	PUBLISHED DATASET
64.	J.M. Weygand and R.L. McPherron, Geotail Weimer Propagated using LEP 60 s Resolution Tri-axial Fluxgate Magnetometer in GSE Coordinates, https://doi.org/10.21978/P8P35X, 2006.	PUBLISHED DATASET
65.	J.M. Weygand and R.L. McPherron, Geotail Weimer Propagated using LEP 60 s Resolution Tri-axial Fluxgate Magnetometer in GSM Coordinates, https://doi.org/10.21978/P8J917, 2006.	PUBLISHED DATASET
66.	J.M. Weygand and R.L. McPherron, Geotail Solar Wind Weimer Propagation Details using CPI at 1 min Resolution, https://doi.org/10.21978/P8DK9S, 2006.	PUBLISHED DATASET
67.	J.M. Weygand and R.L. McPherron, Geotail Solar Wind Weimer Propagation Details using LEP at 1 min Resolution, https://doi.org/10.21978/P88S6G, 2006.	PUBLISHED DATASET

68.	J.M. Weygand, Southern Auroral Electrojet Index at 60 sec	PUBLISHED
	Resolution, https://doi.org/10.21978/P8534W, 2008.	DATASET
69.	J.M. Weygand, Equivalent Ionospheric Currents (EICs)	PUBLISHED
	derived using the Spherical Elementary Current Systems	DATASET
	(SECS) technique at 10 s Resolution in Geographic	
	Coordinates, UCLA, https://doi.org/10.21978/P8D62B, 2009.	
70.	J.M. Weygand, Spherical Elementary Current (SEC) Amplitudes	PUBLISHED
	derived using the Spherical Elementary Current Systems	DATASET
	(SECS) technique at 10 s Resolution in Geographic	
	Coordinates, UCLA, https://doi.org/10.21978/P8PP8X, 2009.	
71.	J.M. Weygand, Near Conjugate Northern Auroral Electrojet	PUBLISHED
	Index for conjugate Southern Auroral Electrojet Indices,	DATASET
	https://doi.org/10.21978/P8M33J, 2008.	

Unpublished Material

1.	Weygand, J.M., J.S. Murphree and P.T. Newell, Polar Arcs	RESEARCH
	with Polar Rain Precipitation, submitted to J .	ARTICLE
	Geophys. Res., 2004.	
2.	Weygand, J.M. and P. Wurz, Progress and Co-I meeting minutes	WORKSHOP
	for the 5^{th} Postlaunch SOHO/CELIAS Workshop, 5^{th}	MEETING
	SOHO/CELIAS Workshop Proceedings, October, 1998.	MINUTES
3.	Weygand, J.M., Progress and Co-I meeting minutes for the	WORKSHOP
	6 th Postlaunch SOHO/CELIAS Workshop, 6 th SOHO/CELIAS	MEETING
	Workshop Proceedings, March, 1999.	MINUTES
4.	Weygand, J.M., Progress and Co-I meeting minutes for the	WORKSHOP
	7 th Postlaunch SOHO/CELIAS Workshop, 7 th SOHO/CELIAS	MEETING
	Workshop Proceedings, October, 1999.	MINUTES
5.	Weygand, J.M., Progress and Co-I meeting minutes for the	WORKSHOP
	8 th Postlaunch SOHO/CELIAS Workshop, 8 th SOHO/CELIAS	MEETING
	Workshop Proceedings, March, 2000.	MINUTES
6.	Weygand, J.M. and J. Spann, Simultaneous polar arcs and	NRC GRANT
	substorms, grant proposal accepted by NRC, 2000.	PROPOSAL
7.	Weygand, J.M. and M.B. Moldwin, Determination of the Ar/Ca	RESEARCH
	solar wind elemental abundance ratio using SOHO/CELIAS/MTOF,	PROPOSAL
	submitted to NRA 01-OSS-01 SECGI — Sun-Earth Connection Guest	
	Investigator Program, 2001.	
8.	Moldwin, M.B., J.M. Weygand, and R.L. Lepping, On understanding	RESEARCH
	the magnetospheric response of the Earth's magnetotail to solar	PROPOSAL
	wind pressure pulses, submitted to NRA 01-OSS-01 SRT Geospace	
	Sciences Supporting Research and Technology Program, 2001.	
9.	Moldwin, M.B., H. Funsten, G. Reeves, V. Angelopoulos, R.	RESEARCH
	Strangeway J.M. Weygand, F. Mozer, R. Skoug, E. Dors, UC/LANL	PROPOSAL
	Consortium for micro-satellite and instrument development,	
	submitted to University of California, Office of Research, 2001.	
10.	Moldwin, M.B., C.T. Russell, J.M. Weygand, J.T. Gosling, H.O.	RESEARCH
	Funsten, J.F. Fennell, J.E. Mazur, B.E. Goldstein, J. Feynman,	PROPOSAL
	N. Crooker, P. Liewer, V.J. Pizzo, submitted to AO 01-OSS-03	
	MIDEX — National Aeronautics and Space Administration, 2001.	
11.	Weygand, J.M. A.B. Galvin, P. Bochsler, P. Wurz, and F.M. Ipavich,	RESEARCH
	Determination of the solar wind sulfur isotopic and elemental	PROPOSAL
	abundance ratio using SOHO/CELIAS/MTOF, submitted to	
	NRA-01-SHP-01 – Solar and Heliospheric Physics, 2002.	
12.	Weygand, J.M., M.B. Moldwin, and M.E. Engebretson, The	RESEARCH
	determination of the source and propagation paths of Pc $3/4$	PROPOSAL
	waves using high time resolution and precision GPS-synchronized	
	magnetometer arrays from low to high latitude, submitted to NSF	
	01-2 — Magnetospheric Physics, 2001.	

13.	Weygand, J.M., Determining the plasmapause boundary with ULF pulsations using high to low latitude ground-based magnetometers, submitted to NSF 02-070 — Magnetospheric Physics (post doctorate program), 2002.	RESEARCH PROPOSAL
14.	Weygand, J.M., M. Moldwin, and P. Chi, Determining the plasmapause boundary with ULF pulsations using high to low latitude ground-based magnetometers, submitted to NSF 02-122 — Geospace Environment Modeling Program, 2002.	RESEARCH PROPOSAL
15.	Weygand, J.M., G.D. Reeves, D. Berube, Determination of the frequency, polarization, and amplitude of ULF waves as a function of Local time and latitude using solar wind, magnetospheric, and ground-based magnetometer measurements, submitted to The Institute of Geophysics and Planetary Physics Los Alamos National Laboratory, 2002.	RESEARCH PROPOSAL
16.	Weygand, J.M., M. Kivelson, M. Goldstein, The nature of fluctuations observed by Cluster in the plasma sheet, submitted to NRA-ROSS-2002 — Sun-Earth Connection Guest Investigator Program, 2002.	RESEARCH PROPOSAL
17.	Weygand, J.M. A.B. Galvin, P. Bochsler, P. Wurz, and F.M. Ipavich, Determination of the solar wind sulfur isotopic and elemental abundance ratio using SOHO/CELIAS/MTOF, submitted to NRA-ROSS-2002 — Sun-Earth Connection Guest Investigator Program, 2002.	RESEARCH PROPOSAL
18.	Weygand, J.M., M.B. Moldwin, and D. Berube, On Understanding highly variable propagation times of solar wind structures between upstream monitors and magnetosphere monitors: implications for solar wind magnetosphere Coupling, submitted to J. Geophys. Res., 2002.	RESEARCH ARTICLE
19.	Strangeway, R. et al., COMPASS: Coordinated Observations of Magnetic fields and Plasmas to Address Storm Science, J.M. Weygand is listed as a Co-I, submitted to AO-03-OSS-02 — NASA Announcement of Opportunity Explorer Program Small Explorers (SMEX) and Missions of Opportunity, 2003.	RESEARCH PROPOSAL
20.	Weygand, J.M., M. Kivelson, M. Goldstein, Plasma sheet turbulence characterized by Cluster II observations, submitted to NRA-03-OSS-01-SECGI — Sun-Earth Connection Guest Investigator Program, 2003.	RESEARCH PROPOSAL

21.	Moldwin, M.B., D. Berube, J.M. Weygand, C.T. Russell, P.J. Chi, J.D. Means, D. Peirce, D. Dearborn, W. Greer, H.K. Rassoul, P. Martin, D. Mitsakos, M. Werner, J. Strack, T.	RESEARCH ARTICLE
	Pernini, P. Webb, ULF resonance monitoring of diurnal	
	plasmaspheric refilling: Results from the Measure magnetometer	
	array, submitted to J. Geophys. Res., 2003.	
22.	Weygand, J.M., R.L. McPherron, and M.G. Henderson, Solar wind	RESEARCH
	and IMF control of substorm onset, submitted to IGPP/LANL	PROPOSAL
	collaborative research program, 2004.	
23.	Weygand, J.M., M. Kivelson, M. Goldstein, Plasma sheet	RESEARCH
	turbulence observed by Cluster II, submitted to	PROPOSAL
	NRA-04-OSS-01-SECGI — Sun-Earth Connection Guest	
	Investigator Program, 2004.	
24.	Weygand, J.M., R.L. McPherron, M.G. Kivelson, and L.M. Kistler,	RESEARCH
	Influence of solar wind and modes of geomagnetic activity on	PROPOSAL
~~	plasma sheet turbulence, submitted to NSF-04-576, 2004.	
25.	Weygand, J.M., R.L. McPherron, TS. Hsu, T. King, Web-	RESEARCH
	accessible high resolution propagated solar wind data	PROPOSAL
	for studies of Sun-Earth coupling, submitted to NNH04ZSS001N-	
20	LWS, 2004.	
26.	Weygand, J.M., M. Kivelson, M. Goldstein, K.K. Khurana,	RESEARCH
	H. Reme, L.M. Kistler, A. Fazakerley, W. Matthaeus, Plasma,	PROPOSAL
	sheet turbulence characterized by Cluster Observations,	
	submitted to NNH05ZDA001N-GEO, proposal number 05-SRT05-	
27.	0034, 2005. Weygand, J.M., R.L. McPherron, T. King, Web-accessible	RESEARCH
21.	high resolution propagated solar wind data for studies	PROPOSAL
	of Sun-Earth coupling, submitted to NNH05ZDA001N-LWS, proposal	I NOI OSAL
	number 05-LWS05-0070, 2005.	
28.	Strangeway, R.J., et al., Magnetic Fields Investigation for	RESEARCH
20.	the Radiation Belt Storm Probes Mission, submitted to NASA	PROPOSAL
	Announcement of Opportunity NNH05ZDA003O, 2005.	1101 0011
29.	Weygand, J.M., et al., Plasma sheet turbulence characterized by	RESEARCH
20.	Cluster observations, submitted to NASA NNH06ZDA001N-HGI,	PROPOSAL
	proposal number 06-HGI06-0058, 2006.	11001 00112
30.	Weygand, J.M., R.L. McPherron, R.J. Walker, M.G. Henderson, L.M.	RESEARCH
00.	Kistler O. Amm, E. Lucek, Z. Pu, The Harang discontinuity and ring	PROPOSAL
	current ion injection, submitted to NASA NNH06ZDA001N-LWS, 2006.	
31.	Lyons, L.R., DY. Lee, S. Zou, CP. Wang, J.M., Weygand, S.B.	RESEARCH
	Mende, External triggering and the large scale nature of sawtooth	ARTICLE
	event injection, submitted to J. Geophys. Res., 2006.	

32.	Lyons, L.R., DY. Lee, S. Zou, CP. Wang, J.U. Kozyra, J.M., S.B. Mende, Dynamic pressure enhancements as a cause of	RESEARCH ARTICLE
	large-scale stormtime substorms, submitted to J. Geophys.	minoll
	Res., 2006. (Now see 45 in Published Material.)	
33.	Weygand, J.M., R.L. McPherron, V. Angelopoulos, M. Henderson,	RESEARCH
	O. Amm, R.J. Walker, K. Kauristie, Z. Pu, L.M. Kistler, M.G.	PROPOSAL
	Kivelson, The Harang discontinuity and ring current ion-injections,	
	submitted to NASA NNH07ZDA001N-GEO - Geospace Science, 2007.	
34.	Weygand, J.M., R.L. McPherron, V. Angelopoulos, R.J. Walker,	RESEARCH
	O. Amm, K. Kauristie, The Harang discontinuity and ring current	PROPOSAL
25	ion-injections, submitted to NSF 04-576, ATM - GEO/ATM, 2007	
35.	Weygand, J.M., R.L. McPherron, V. Angelopoulos, R.J. Walker,	RESEARCH
	O. Amm, The Harang discontinuity and ring current ion-injections, submitted to NSF, ATM - GEO/ATM, 2008	PROPOSAL
36.	Wang, CP., L.R. Lyons, T. Nagai, J.M. Weygand, and A.T.Y. Lui,	RESEARCH
50.	Transport of cold particles from the flanks and the tail by	ARTICLE
	drift and diffusion within the plasma sheet, submitted to, J .	ARTICLE
	Geophys. Res., 2008.	
37.	Weygand, J.M. R.L. McPherron, V. Angelopoulos, O. Amm, W.	RESEARCH
•••	Bristow, A. Marchaudon, A. Ridley, and S. Milan, The	PROPOSAL
	electrodynamics of the Harang discontinuity, submitted to NASA	
	NNH09ZDA001N-HGI - Heliophysics Guest Investigators, 2009.	
38.	Weygand, J.M., R.L. McPherron, V. Angelopoulos, Z. Pu, W.	RESEARCH
	Bristow, O. Amm, A. Marchaudron, S. Milan, The electrodynamics	PROPOSAL
	of the Harang discontinuity, submitted to NASA NNH09ZDA001N - $$	
	Geospace Science, 2009.	
39.	Weygand, J.M., R.L. McPherron, V. Angelopoulos, O. Amm,	RESEARCH
	M.G. Henderson, The Harang discontinuity and the ring	PROPOSAL
	current ion-injections, submitted to NASA NNH09ZDA001N -	
10	Geospace Science, 2009.	
40.	Weygand, J.M., R.L. McPherron, V. Angelopoulos, O. Amm,	RESEARCH
	M.G. Henderson, The Harang discontinuity and the ring	PROPOSAL
/1	current ion-injections submitted to NSF ATM - GEO/ATM, 2009.	RESEARCH
41.	El-Alaoui, M., J.M. Weygand, M. Ashour-Abdalla, R.J. Walker, M.L. Goldstein, Simulating MHD Turbulence in the Magnetotail	PROPOSAL
	Plasma Sheet, submitted to NASA NNH09ZDA001N - Geospace,	I HOI OSAL
	Science 2009.	
42.	Walker, R.J., J. Merka, T.A. King, T. Narack, S.P. Joy, L.F.	RESEARCH
12.	Bargatze, P. Chi, J.M. Weygand, The Virtual Magnetospheric	ARTICLE
	Observatory, submitted to, the Fifty Years after IGY, 2009.	
43.	El-Alaoui, M., M. Ashour-Abdalla, J.M. Weygand, M.L.	RESEARCH
	Goldstein, and R.J. Walker, Simulating MHD Turbulence in the	PROPOSAL
	Magnetotail Plasma Sheet, submitted to NASA Geospace	
	Science, 2010.	

44.	Weygand, J.M., Development of the Harang Discontinuity	RESEARCH
	during Magnetotail Activity submitted to NSF ATM - GEO/ATM, 2010.	PROPOSAL
45.	Weygand, J.M., W.H. Matthaeus, S. Dasso, and S. Oughton,	RESEARCH
	Eulerian Decorrelation Functions Derived from Multispacecraft	PROPOSAL
	Observations of Interplanetary Magnetic Field Fluctuations,	
	submitted to NASA NNH10ZDA001N-SHP, 2011.	
46.	Weygand, J.M., R.J. Walker, K.K. Khurana, C.T. Russell, T.	RESEARCH
	King, H. Leinweber, S. Joy, Restoration and Recalibration	PROPOSAL
	of OGO and Explorer Fluxgate Magnetometer Data, submitted to	
	NASA NNH11ZDA001N HDEE, 2011.	
47.	Weygand, J.M., O. Amm, V. Angelopoulos, A. Grocott, A.	RESEARCH
	Stromme, Electrodynamics of the North South Auroral Arcs	PROPOSAL
	submitted to NSF ATM - GEO/ATM, 2011.	
48.	Weygand, J.M., V. Angelopoulos, S. B. Mende, H. U. Frey,	RESEARCH
	and C. Stolle, Observations of Two Different Types of	ARTICLE
	Current Configurations during North-South Auroral Arcs,	
	submitted to J. Geophys. Res., 2013.	
49.	Ngwira, C.M., D. Sibeck, M.V.D. Silveria, and J.M. Weygand,	RESEARCH
	Analysis of intense induced surface geoelectric fields	ARTICLE
	during two geomagnetic storms, submitted to J. Geophys. Res.,	
	2017.	
49.	Ngwira, C.M., D. Sibeck, M.V.D. Silveria, and J.M. Weygand,	RESEARCH
	Analysis of intense induced surface geoelectric fields	ARTICLE
	during two geomagnetic storms, submitted to Space Weather,	
	2018.	

Work in Progress

1.	Weygand, J.M. E. Zesta, and A. Kadokura, Investigation of the differences in onset times for hemispherically conjugate magnetometers, submitted to <i>Earth, Planets</i> ,	RESEARCH ARTICLE
	Space, 2017.	
2.	Runov, A., V. Angelopoulos, A. V. Artemyev, J.M. Weygand, S. Lu, Y. Lin, and XJ. Zhang, Global and	RESEARCH ARTICLE
	Local Processes of the Thin Current Sheet Formation during Substorm Growth Phase, submitted to the <i>Journal</i> of Atmospheric and Solar-Terrestrial Physics, 2020.	
3.	Nishimura, T., J. Yang, J.M. Weygand, W. Wang, B.	RESEARCH
	Kosar, E F. Donovan, V. Angelopoulos, L. Paxton, and	ARTICLE
	N. Nishitani, Magnetospheric conditions for STEVE and	
	SAID: Particle injection, substorm surge and field-	
	aligned currents, submitted to the Journal of Geophysical	
	Research Space Physics, 2019.	
4.	Nishimura, T., L.R. Lyons, C. Gabrielse, J.M.	RESEARCH
	Weygand, E. F. Donovan, and V. Angelopoulos, Dawn-	ARTICLE
	dusk scale size of the substorm current wedge: Large-	
	scale vs. localized multiple wedges, submitted to	
5.	the of Geophysical Research Space Physics, 2020. Chu, X., R.L. McPherron, TS. Hsu, V. Angelopoulos,	RESEARCH
0.	J.M. Weygand, J. Liu, and J. Bortnik, Magnetotail flux	ARTICLE
	accumulationleads to substorm current wedge: a case	
	study, submitted to the Journal of Geophysical Research	
	Space Physics, 2020.	
6.	Li., J., X. Chu, J. Bortnik, J.M. Weygand, V.	RESEARCH
	Angelopoulos, R.L. McPherron, J. Liu, CP. Wang,	ARTICLE
	and A. Kellerman, Characteristics of substorm time	
	non-substorm time fast flows observed by the THEMIS	
	satellites, submitted to the Journal of Geophysical	
_	Research Space Physics, 2020.	DECEADCII
7.	Prikryl, P., J.M. Weygand, R. Ghoddousi-Fard, P.T.	RESEARCH
	Jayachandran, D.R Themens, A.M. McCaffrey, B.S.R. Kunduri, and L. Nikitina, Temporal and spatial variations	ARTICLE
	of GPS TEC and phase during auroral substorms and	
	breakups, submitted to Science, 2020.	
8.	Weygand, J.M., I. Zhelavskaya, and Y. Shprits, A	RESEARCH
	Comparison of the Location of the Mid-latitude Trough	ARTICLE
	and Plasmapause Boundary, submitted to the <i>Journal</i>	
	of Geophysical Research Space Physics, 2020.	