

J. Todd Hoeksema - Published Papers

Refereed Publications

Large-Scale Spatial Cross-Calibration of Hinode/SOT-SP and SDO/HMI, David F. Fouhey, Richard E. L. Higgins, Spiro K. Antiochos, Graham Barnes, Marc L. DeRosa, J. Todd Hoeksema, K. D. Leka, Yang Liu, Peter W. Schuck, Tamas Gombosi, [2022arXiv220915036F](https://arxiv.org/abs/2022arXiv220915036F), *Astrophysical Journal Supplement*, in press.

SynthIA: A Synthetic Inversion Approximation for the Stokes Vector Fusing SDO and Hinode into a Virtual Observatory, Richard E. L. Higgins, David F. Fouhey, Spiro K. Antiochos, Graham Barnes, Mark C.M. Cheung, J. Todd Hoeksema, K. D. Leka, Yang Liu, Peter W. Schuck, and Tamas I. Gombosi, 2022, *The Astrophysical Journal Supplement* 259, [ApJS..259...24H](https://doi.org/10.3847/1438-4365/ac42d5); [arxiv.2108.12421](https://arxiv.org/abs/2108.12421); [10.3847/1438-4365/ac42d5](https://doi.org/10.3847/1438-4365/ac42d5)

On the Hemispheric Bias Seen in Vector Magnetic Field Data, Yang Liu, Ana Belén Griñón-Marín, J. Todd Hoeksema, A.A. Norton, 2022, *Solar Physics* 297, 17. [2022SoPh..297...17L](https://doi.org/10.1007/s11207-022-01949-y); [10.1007/s11207-022-01949-y](https://doi.org/10.1007/s11207-022-01949-y)

Improvement of the Helioseismic and Magnetic Imager (HMI) Vector Magnetic Field Inversion Code, Ana Belén Griñón-Marín, Adur Pastor Yabar, Yang Liu, J. Todd Hoeksema, and Aimee Norton, 2021, *The Astrophysical Journal* 923, 84; 2021ApJ...923...84G; [arxiv:2109.09131](https://arxiv.org/abs/2109.09131); [10.3847/1538-4357/ac2aa8](https://doi.org/10.3847/1538-4357/ac2aa8).

Fast and Accurate Emulation of the SDO/HMI Stokes Inversion with Uncertainty Quantification, Richard E.L. Higgins, David F Fouhey, Dichang Zhang, Spiro K. Antiochos,; Graham Barnes, J. Todd Hoeksema, K.D. Leka, Yang Liu; Peter W. Schuck, Tamas I. Gombosi, *The Astrophysical Journal* 911, 130, 2021, [2021ApJ...911..130H](https://doi.org/10.3847/1538-4357/abd7fe); [10.3847/1538-4357/abd7fe](https://doi.org/10.3847/1538-4357/abd7fe).

The Coronal Global Evolutionary Model: Using HMI Vector Magnetogram and Doppler Data to Determine Coronal Magnetic Field Evolution, J.T. Hoeksema, W.P. Abbett, D.J. Bercik, M.C.M. Cheung, M.L. DeRosa, G.L. Fisher, K. Hayashi, M.D. Kazachenko, Y. Liu, E. Lumme, B.J. Lynch, X. Sun, B.T. Welsch; 2020, *Astrophysical Journal Supplement*, 250, 28. 2020ApJS..250...28H; [10.3847/1538-4365/abb3fb](https://doi.org/10.3847/1538-4365/abb3fb).

The Solar Orbiter Magnetometer, T.S. Horbury et al. (49 authors, incl. T. Hoeksema); *Astronomy and Astrophysics*, 642, A9, 2020. 2020A&A...642A...9H, [10.1051/0004-6361/201937257](https://doi.org/10.1051/0004-6361/201937257).

The Deflection of Coronal Mass Ejections by the Ambient Coronal Magnetic Field Configuration, Jingjing Wang, J.T. Hoeksema, Siqing Liu; *Journal of Geophysical Research*, 125, e27530, 2020. 2020JGRA..12527530W; [10.1029/2019JA027530](https://doi.org/10.1029/2019JA027530).

Roles of Photospheric Motions and Flux Emergence in the Major Solar Eruption on 2017 September 6, Rui Wang, Ying D. Liu, J.T. Hoeksema, I.V. Zimovets, Yang Liu, *Astrophysical Journal*, 869, 90, 2018. 2018ApJ...869...90W, [10.3847/1438-4357/aed48](https://doi.org/10.3847/1438-4357/aed48).

On-Orbit Performance of the Helioseismic and Magnetic Imager Instrument Onboard the Solar Dynamics Observatory, J.T. Hoeksema, C.S. Baldner, R.I. Bush, J. Schou, P.H. Scherrer, *Solar Physics*, 293, AID.45, 49 pp., 2018: 2018SoPh..293...45H, 10.1007/s11207-018-1259-8.

Flare Prediction Using Photospheric and Coronal Image Data, E. Jonas, M. Bobra, S. Vaishaal, J.T. Hoeksema, B. Recht, *Solar Physics*, 293, AID 48, 22 pp., 2018: 2018SoPh..293...48J, 10.1007/s11207-018-1258-9.

Erratum: Why Is the Great Solar Active Region 12192 Flare-rich but CME-poor?, X. Sun, M.G. Bobra, J.T. Hoeksema, Y. Liu, Y. Li, C. Shen, S. Couvidat, A.A. Norton, G.H. Fisher, *Astrophysical Journal Letters*, 804, L28, 2017. 2017ApJ...850L..43S, 10.3847/2041-8213/aa9b2a.

Investigating the Magnetic Imprints of Major Solar Eruptions with SDO/HMI High-cadence Vector Magnetograms, X. Sun, J.T. Hoeksema, Y. Liu, M. Kazachenko, R. Chen, *Astrophysical Journal* 839, AID 67, 10 pp., 2017. 2017ApJ...839...67S, 10.3847/1538-4357/aa69c1.

Vector Magnetic Field Synoptic Charts from the Helioseismic and Magnetic Imager (HMI), Y. Liu, J.T. Hoeksema, X. Sun, K. Hayashi, *Solar Physics*, 292, AID 29, 14 pp., 2017. 2017SoPh..292...29L, 10.1007/s11207-017-1056-9.

Erratum: Evolution of Magnetic Field and Energy in A Major Eruptive Active Region Based on SDO/HMI (2012 ApJ, 748, 77), X. Sun, J.T. Hoeksema, Y. Liu, T. Wiegmann, K. Hayashi, C. Qingrong, J. Thalmann, *Astrophysical Journal*, 828, AID 65, 2 pp., 2016. 2016ApJ...828...65S, 10.3847/0004-637X/828/1/65.

Observables Processing for the Helioseismic and Magnetic Imager Instrument on the Solar Dynamics Observatory, S. Couvidat, J. Schou, J.T. Hoeksema, R.S. Bogart, R.I. Bush, T.L. Duvall, Y. Liu, A.A. Norton, P.H. Scherrer, *Solar Physics*, 291, 1887-1938, 2016. 2016SoPh..291.1887C, 10.1007/s11207-016-0957-3.

The coronal Global Evolutionary Model: Using HMI Vector Magnetogram and Doppler Data to Model the Buildup of Free Magnetic Energy in the Solar Corona, G. Fisher, W.P. Abbet, D.J. Bercik, M.D. Kazachenko, B.J. Lynch, B.T. Welsch, J.T. Hoeksema, K. Hayashi, Y. Liu, A.A. Norton, A. Sainz Dalda, X. Sun, M.L. DeRosa, and M.C.M. Cheung, *Space Weather*, 13, 369-373, 2015. 10.1002/2015SW001191.

The Helioseismic and Magnetic Imager (HMI) Vector Magnetic Field Pipeline: Magnetohydrodynamics Simulation Module for the Global Solar Corona, K. Hayashi, J.T. Hoeksema, Y. Liu, M.G. Bobra, X. Sun, A.A. Norton, *Solar Physics*, 290, 1507-1529, 2015. 10.1007/s11207-015-0686-z.

Why Is the Great Solar Active Region 12192 Flare-rich but CME-Poor?, X. Sun, M.G. Bobra, J.T. Hoeksema, Y. Liu, Y. Li, C. Shen, S. Couvidat, A.A. Norton, G. Fisher, *Astrophysical Journal Letters*, 804, L28, 2015.

On Polar Magnetic Field Reversal and Surface Flux Transport During Solar Cycle 24, X. Sun, J.T. Hoeksema, Y. Liu, J. Zhao, *Astrophysical Journal* 798, 114, 2015. 2015ApJ...798..114S, 10.1088/0004-637X/798/114.

Reversals of the solar magnetic dipole in the light of observational data and simple dynamo models, V.V. Pipin, D. Moss, D.D. Sokoloff, J.T. Hoeksema, *Astronomy and Astrophysics*, 567, A90, 2014, 2014A&A...567A.90P, 10.1051/0004-6361/201323319.

The Helioseismic and Magnetic Imager (HMI) Vector Magnetic Field Pipeline: SHARPs -- Space-weather HMI Active Region Patches, M. Bobra, X. Sun, J.T. Hoeksema, M. Turmon, Y. Liu, K. Hayashi, G. Barnes, K.D. Leka, *Solar Physics*, 289, 354, 2014. 2014SoPh...289.3549B, 10.1007/s11207-014-0529-3.

Magnetic Helicity in Emerging Solar Active Regions, Y. Liu, J.T. Hoeksema, M. Bobra, K. Hayashi, P.W. Schuck, X. Sun, *Astrophysical Journal*, 785, 13L, 2014. 2014ApJ...785...13L, 10.1088/0004-637X/785/1/13.

The Helioseismic and Magnetic Imager (HMI) Vector Magnetic Field Pipeline: Overview and Performance, J.T. Hoeksema, Y. Liu, K. Hayashi, X. Sun, J. Schou, S. Couvidat, A. Norton, M. Bobra, R. Centeno, K.D. Leka, G. Barnes, M. Turmon, *Solar Physics*, 289, 2014. 2014SoPh...289.3531C, 10.1007/s11207-014-0516-8.

The Helioseismic and Magnetic Imager (HMI) Vector Magnetic Field Pipeline: Optimization of the Spectral Line Inversion Code, R. Centeno, J. Schou, K. Hayashi, A. Norton, J.T. Hoeksema, Y. Liu, K.D. Leka, G. Barnes, *Solar Physics*, 289, 2014. 2014SoPh...289.3531C, 10.1007/s11207-014-0497-7.

A Multi-Observatory Inter-Comparison of Line-of-Sight Synoptic Solar Magnetograms, P. Riley, M. Ben-Nun, J.A. Linker, Z. Mikic, L. Svalgaard, J. Harvey, L. Bertello, J.T. Hoeksema, Y. Liu, R. Ulrich, *Solar Physics*, 289, 769, 2014. 2014SoPh...289..769R, 10.1007/s11207-013-0353-1.

Test of the Hemispheric Rule of Magnetic Helicity in the Sun Using the Helioseismic and Magnetic Imager (HMI) Data, Y. Liu, J.T. Hoeksema, X. Sun, *Astrophysical Journal*, 783, 1. 2014. 2014ApJ...783LL...1L, 10.1088/2041-8205/783/1/L1.

Solar Cycle Variations of the Radio Brightness of the Solar Polar Regions as Observed by the Nobeyama Radioheliograph, N. Nitta, X. Sun, J.T. Hoeksema, M. DeRosa, *Astrophysical Journal* 780, 23, 2014. 2014ApJ.780L..23N, 10.1088/2041-8205/780/2/L23.

Hot Spine Loops and the Nature of a Late-phase Solar Flare, X. Sun, J.T. Hoeksema, Y. Liu, G. Aulanier, Y. Su, I.G. Hannah, R.A. Hock, *Astrophysical Journal*, 778, 139, 2013. 2013ApJ...778..139S, 10.1088/0004-637X/778/2/139.

Solar Magnetic Field Reversals and the Role of Dynamo Families, M.L. DeRosa, A.S. Brun, J.T. Hoeksema, *Astrophysical Journal*, 757, 96, 2012. 10.1088/0004-637X/757/1/96.

A Non-Radial Eruption in a Quadrupolar Magnetic Configuration with a Coronal Null, X. Sun, J.T. Hoeksema, Y. Liu, Q. Chen, K. Hayashi, *Astrophysical Journal*, 757, 149, 2012. 10.1088/0004-637X/757/2/149.

Comparison of Line-of-Sight Magnetograms Taken by the Solar Dynamics Observatory/Helioseismic and Magnetic Imager and Solar and Heliospheric Observatory/Michelson Doppler Imager, Yang Liu, J.T. Hoeksema, P.H. Scherrer, J. Schou, S. Couvidat, R.I. Bush, T.L. Duvall, K. Hayashi, X. Sun, X. Zhao, *Solar Physics*, 279, 295-316, 2012. 10.1007/s11207-012-9976-x.

How Should One Optimize Nonlinear Force-Free Coronal Magnetic Field Extrapolations from SDO/HMI Vector Magnetograms?, T. Wiegelmann, J.K. Thalmann, B. Inhester, T. Tadesse, X. Sun, J.T. Hoeksema, *Solar Physics*, 281, 37-51, 2012. 10.1007/s11207-012-9966-z.

Evolution of Magnetic Field and Energy in a Major Eruptive Active Region Based on SDO/HMI Observation, Xudong Sun, J.T. Hoeksema, Y. Liu, T. Wiegelmann, K. Hayashi, Q. Chen, J. Thalmann, *Astrophysical Journal*, 748, 2012. 10.1088/0004-637X/748/2/77.

Design and Ground Calibration of the Helioseismic and Magnetic Imager (HMI) Instrument on the Solar Dynamics Observatory (SDO), J. Schou, P.H. Scherrer, R.I. Bush, R. Wachter, S. Couvidat, M.C. Rabello-Soares, R.S. Bogart, J.T. Hoeksema, Y. Liu, T.L. Duvall, D.J. Akin, B.A. Allard, H.W. Miles, R. Rairden, R.A. Shine, T.D. Tarbell, A.M. Title, C.J. Wolfson, D.F. Elmore, A.A. Norton, S. Tomczyk, *Solar Physics* 275, 229-249, 2012. 10.1007/s11207-011-9842-2.

The Helioseismic and Magnetic Imager (HMI) Investigation for the Solar Dynamics Observatory (SDO), P.H. Scherrer, J. Schou, R.I. Bush, A.G. Kosovichev, R.S. Bogart, J.T. Hoeksema, Y. Liu, T.L. Duvall, J. Zhao, A.M. Title, C.J. Schrijver, T.D. Tarbell, and S. Tomczyk, *Solar Physics* 275, 207-227, 2012. 10.1007/s11207-011-9834-2.

Earth-Affecting Solar Causes Observatory (EASCO): A potential International Living with a Star Mission from Sun-Earth L5, N. Gopalswamy, J.M. Davila, O.C. St.Cyr, E.C. Sittler, F. Auchere, T.L. Duvall, J.T. Hoeksema, M. Maksimovic, R.J. MacDowall, A. Szabo, M.R. Collier, *Journal of Atmospheric and Solar Terrestrial Physics*, 73, 658-663, 2011. 10.1016/j.jastp.2011.01.013.

A New Method for Polar Field Interpolation, Xudong Sun, Y. Liu, J.T. Hoeksema, K. Hayashi, and X. Zhao, *Solar Physics*, 270, 9-22, 2011.

Coronal Field Opens at Lower Height During the Solar Cycles 22 and 23 Minimum Periods: IMF Comparison Suggests the Source Surface Should Be Lowered, C.O. Lee, J.G. Luhmann, J.T. Hoeksema, X. Sun, C.N. Arge, I. de Pater, *Solar Physics*, 269, 367-388, 2011. 10.1007/s11207-010-9699-9.

Testing Automated Solar Flare Forecasting With 13 Years of MDI Synoptic Magnetograms, J.P. Mason and J.T. Hoeksema, *Astrophysical Journal*, 723, 634, 2010. 10.1088/0004-637X/623/1/634.

The Magnetic Field at the Inner Boundary of the Heliosphere Around Solar Minimum, X.P. Zhao and J.T. Hoeksema, *Solar Physics*, 266, 379-390, 2010. 10.1007/s11207-010-9618-0.

Distributing Space Weather Monitoring Instruments and Educational Materials Worldwide for IHY 2007: The AWESOME and SID Project, D. Scherrer, M. Cohen, T. Hoeksema, U. Inan, R. Mitchell, P. Scherrer, *Advances in Space Research*, 42, 1777-1785, 2008. 10.1016/j.asr.2007.12.013.

Data-Driven Magnetohydrodynamic Model for Active Region Evolution, S.T. Wu, A.H. Wang, Y. Liu, and J.T. Hoeksema, *Astrophysical Journal*, 652, 800-811, 2006. 10.1086/507864.

The success rate of predicting the heliospheric magnetic polarity with MDI Synoptic Charts, X.P. Zhao, J.T. Hoeksema, Y. Liu, and P.H. Scherrer, *Journal Geophysical Research*, 111, A10108, 2006. 10.1029/2005JA011576.

Three-Dimensional Magnetohydrodynamic Simulation of a Global Solar Corona Using a Temperature Distribution Map Obtained from SOHO EIT Measurements, K. Hayashi, E. Benevolenskaya, J.T. Hoeksema, Y. Liu, and X.P. Zhao, *Astrophysical Journal Letters* 636, pp. L165-L168, 2006.

Prediction and Understanding of the North-South Displacement of the Heliospheric Current Sheet, X.P. Zhao, J.T. Hoeksema, and P.H. Scherrer, *Journal Geophysical Research*, 110, 2005. 10.1029/2004JA010723.

Origins of the International Living With a Star Program, G.L. Withbroe, M. Guhathakurta, and J.T. Hoeksema, *Advances in Space Research* 35, v1, p. 40-43, 2005. 10.1016/j.asr.2004.09.012.

Correction of Offset in MDI/SOHO Magnetograms, Yang Liu, Xuepu Zhao, and J. Todd Hoeksema, *Solar Physics* 219, 1, p. 39-53, 2004. 10.1023/B:SOLA.0000021822.07430.d6.

Observations of the Sun's Coronal Magnetic Field and Coronal Holes during the recent Solar Maximum, T.R. Sanderson, T. Appourchaux, J.T. Hoeksema, K.L. Harvey, *Journal of Geophysical Research* 108, 2003. 10.1029/2002JA009388.

Solar mean magnetic field variability: A wavelet approach to Wilcox Solar Observatory and SOHO/Michelson Doppler Imager observations, Fredrick Boberg, Henrik Lundstedt, J. Todd Hoeksema, Philip H. Scherrer, Wei Liu, *Journal of Geophysical Research (Space Physics)* 107, A10, pp. SSH 15-1, CitelD 1318, 2002. 10.1029/2001JA009195.

IRIS++ Database: Merging of IRIS + Mark-1 + LOWL, D. Salabert, E. Fossat, B. Gelly, S. Tomczyk, P. Pallā, S.J. Jiménez-Reyes, A. Cacciani, T. Corbard, S. Ehgamberdiev, G. Grec, J.T. Hoeksema, S. Kholikov, M. Lazrek, and F.X. Schmider, *Astronomy and Astrophysics* 390, pp.717-723, 2002. 10.1051/0004-6361:20020751.

On Formation of the Sigmoidal Structure in Solar Active Region NOAA 8100, Yang Liu, X.P. Zhao, J.T. Hoeksema, P.H. Scherrer, J. Wang, and Y. Yan, *Solar Physics* 206, 2, pp. 333-346, 2002.

Modeling the Radial Variation of Coronal Streamer Belts During Ascending Activity Phase, X.P. Zhao, J.T. Hoeksema and N.B. Rich, *Advances in Space Research*, Vol. 29, No. 3, p. 411, 2002.

Earthward-Directed CMEs Seen in Large Scale Coronal Magnetic Field Changes, SOHO/LASCO Coronagraph and Solar Wind, Yan Li, J.G. Luhmann, T. Mulligan, J.T. Hoeksema, C.N. Arge, S.P. Plunkett, and O.C. St. Cyr, *Journal of Geophysical Research* 106, 25, 103-120, 2001. 10.1029/2001JA900041.

Magnetic cloud Bs events and their dependence on cloud parameters, X.P. Zhao, J.T. Hoeksema and K. Marubashi, *Journal Geophysical Research*, 106, 15643, 2001.

The Magnetic Connectivity of Moss Regions, X.P. Zhao, J.T. Hoeksema, A.G. Kosovichev, P.H. Scherrer and R. Bush, *Solar Physics*, 193, 219, 2000.

Modeling the 1994 April 14 polar crown SXR arcade using three-dimensional non-force-free helical fields, X.P. Zhao, J.T. Hoeksema and P.H. Scherrer, *Astrophys. J.*, 538, 932, 2000.

Observational Upper Limits to Low-Degree Solar g-Modes, T. Appourchaux, C. Froehlich, B. Andersen, G. Berthomieu, W.J. Chaplin, Y. Elsworth, W. Finsterle, D.O. Gough, J.T. Hoeksema, G.R. Isaak, A.G. Kosovichev, J. Provost, P.O. Scherrer, T. Sekii, and T. Toutain, *Astrophysical Journal* 538, 1, 401-414, 2000. 10.1086/309124.

The Interaction of New and Old Magnetic Fluxes at the Beginning of Solar Cycle 23, E.E. Benevolenskaya, J.T. Hoeksema, A.G. Kosovichev, and P.H. Scherrer, *Astrophysical Journal Letters* L. 517, L163-166, 1999. 10.1086/312046.

Changes of the boot-shaped coronal hole boundary during Whole Sun Month near sunspot minimum, X.P. Zhao, J.T. Hoeksema and P.H. Scherrer, *Journal Geophysical Research*, 104, 9735-9751, 1999.

The Three-Dimensional Coronal Magnetic Field During Whole Sun Month, S.E. Gibson, D. Biesecker, M. Guhathakurta, J.T. Hoeksema, A.J. Lazarus, J. Linker, Z. Mikic, Y. Pisanko, P. Riley, J. Steinberg, L. Strachan, A. Szabo, B.J. Thompson, and X.P. Zhao, *Astrophysical Journal* 520, 871-879, 1999.

Full Disk Helioseismology: Repetitive Music and the Question of Gap Filling, E. Fossat, Sh. Kholikov, B. Gelly, F.X. Schmider, D. Fierry-Fraillon, G. Grec, P. Palle, A. Cacciani, S. Ehgamberdiev, J.T. Hoeksema, and M. Lazrek, *Astronomy and Astrophysics*, 343, 608-614, 1999.

The Synoptic Sun During the First Whole Sun Month Campaign: Aug 10 - Sep 8, 1996, D.A. Biesecker, B.J. Thompson, S.E. Gibson, D. Alexander, A. Fludra, N. Gopalswamy, J.T. Hoeksema, A. Lecinski, and L. Strachan, *Journal of Geophysical Research*, 104, 9679, 1999.

Relationship Between Ulysses Plasma Observations and Solar Observations During the Whole Sun Month Campaign, P. Riley, J.T. Gosling, D.J. McComas, V.J. Pizzo, J.G. Luhmann, D. Biesecker, R.J. Forsyth, J.T. Hoeksema, A. Lecinski, and B.J. Thompson, *Journal of Geophysical Research*, 104, 9871, 1999.

Disconnection Events (DEs) in Halley's Comet 1985-1986: The Correlation with Crossings of the Heliospheric Current Sheet, J.C. Brandt, F.M. Caputo, J.T. Hoeksema, M.B. Niedner, Y. Yi, and M. Snow, *Icarus* 137, 69-83, 10.1006/icar.1998.6030, 1999.

The central axial field direction in magnetic clouds and its relation to Bs events and dependence on disappearing solar filaments, X.P. Zhao and J.T. Hoeksema, *Journal Geophysical Research*, 103, 2077, 1998.

Helioseismic Studies With SOI-MDI of Differential Rotation in the Solar Envelope, J. Schou, H.M. Antia, S. Basu, R.S. Bogart, R.I. Bush, S M. Chitre, J. Christensen-Dalsgaard, M.P. Di Mauro, W.A. Dziembowski, A. Eff-Darwich, D.O. Gough, D.A. Haber, J.T. Hoeksema, R. Howe, S.G. Korzennik, A G. Kosovichev, R.M. Larsen, F.P. Pijpers, P.H. Scherrer, T. Sekii, T.D. Tarbell, A.M. Title, M.J. Thompson, and J. Toomre, *Astrophysical Journal*, 505, 390, 1998. 1998ApJ...505..390S.

The Spatial Structure of the Solar Wind and Comparisons with Solar Data and Models, M. Neugebauer, R.J. Forsyth, A.B. Galvin, K.L. Harvey, J.T. Hoeksema, A.J. Lazarus, R.P. Lepping, J.A. Linker, Z. Mikic, J.T. Steinberg, R. von Steiger, Y.-M. Wang, and R.F. Wimmer-Schweingruber, *Journal of Geophysical Research*, 103, 14,587-14,600, 1998.

WIND Observations of the Influence of the Sun's Magnetic Field on the Interplanetary Medium at 1 AU, T.R. Sanderson, R.P. Lin, D. Larson, M.P. McCarthy, G.K. Parks, J.M. Bosqued, N. Lormant, K. Ogilvie, R.P. Lepping, A. Szabo, A.J. Lazarus, J. Steinberg, and J.T. Hoeksema, *Journal of Geophysical Research*, 103, 17,235-17247, 1998.

The splitting or disappearance of the solar 160-minute mode?, V.A. Kotov, V.I. Haneychuk, T.T. Tsap, J.T. Hoeksema, *Solar Physics*, 176, 45-57, 1997.

Polar Plume Anatomy: Results of a Co-ordinated Observation, C.E. DeForest, J.T. Hoeksema, J.B. Gurman, B.J. Thompson, S.P. Plunkett R. Howard, R.A. Harrison, and D.M. Hassler, *Solar Physics*, 175, 393, 1997, 1997SoPh..175..393D, 10.1023/A:1004955223306.

The Central Axial Field Direction in Magnetic Clouds and Its Relation to Southward IMF Events and Dependence on Disappearing Solar Filaments, X.P. Zhao and J.T. Hoeksema, *Journal of Geophysical Research* 103, 2077-2084, 1998.

Can the Duration and Intensity of the 10 January 1997 Southward IMF Event be Predicted?, X.P. Zhao and J.T. Hoeksema, *Geophysical Research Letters*, 24, 2965, 1997.

The Relationship Between Large-Scale Solar Magnetic Field Evolution and CMEs, J.G. Luhmann, J.T. Gosling, J.T. Hoeksema & X.P. Zhao, *Journal of Geophysical Research* 103, 6585-6594, 1998.

Tri-phonic Helioseismology: Comparison of Solar P Modes Observed by the Helioseismology Instruments Aboard SOHO, T. Toutain, T. Appourchaux, F. Baudin, C. Froehlich, A. Gabriel, P. Scherrer, B.N. Andersen, R. Bogart, R. Bush, W. Finsterle, R.A. Garcia, G. Grec, C.J. Henney, J.T. Hoeksema, A. Jimenez, A. Kosovichev, T. Roca Corteas, S. Turck-Chieze, R. Ulrich, and C. Wehrli, *Solar Physics*, 175, 311-28, 1997. 10.1023/A:1004949832159

Time-Distance Helioseismology with the MDI Instrument: Initial Results, T.L. Duvall, Jr., A.G. Kosovichev, P.H. Scherrer, R.S. Bogart, R.I. Bush, C. De Forest, J.T. Hoeksema, J. Schou, J.L.R. Saba, T.D. Tarbell, A.M. Title, C.J. Wolfson, and P.N. Milford, *Solar Physics*, 170, 63-73, 1997.

Structure and Rotation of the Solar Interior: Initial Results from the MDI Medium-L Program, A.G. Kosovichev, J. Schou, P.H. Scherrer, R.S. Bogart, R.I. Bush, J.T. Hoeksema, J. Aloise, L. Bacon, A. Burnette, C. De Forest, P.M. Giles, K. Leibbrand, R. Nigam, M. Rubin, K. Scott, S.D. Williams, S. Basu, J. Christensen-Dalsgaard, W. Dappen, E.J. Rhodes, Jr., T.L. Duvall, Jr., R. Howe, M.J. Thompson, D.O. Gough, T. Sekii, J. Toomre, T.D. Tarbell, A.M. Title, D. Mathur, M. Morrison, J.L.R. Saba, C.J. Wolfson, I. Zayer, P.N. Milford, *Solar Physics*, 170, 43-61, 1997.

Solar P-mode Frequencies from the IRIS Network, B. Gelly, D. Fierry-Fraillon, E. Fossat, P. Pallé, A. Cacciani, S. Ehgamberdiev, G. Grec, J.T. Hoeksema, S. Khalikov, M. Lazrek, S. Loudagh, A. Pantel, C. Regulo, and F.X. Schmider, *Astronomy & Astrophysics* 323, 235-242, 1997.

Solar Origin of the 26-day Periodicity Observed by Ulysses, T. Bai, J.T. Hoeksema, M. Weber & L.W. Acton, *Journal of Geophysical Research* 102, 9793-9799, 1997.

New IRIS Constraints on the Solar Core Rotation, L. Gizon, E. Fossat, M. Lazrek, A. Cacciani, S. Ehgamberdiev, B. Gelly, G. Grec, J.T. Hoeksema, S. Khalikov, P. Pallé, A. Pantel, C. Regulo, F.-X. Schmider, and P. Wilson, *Astronomy & Astrophysics*, 317 L71-L74, 1997.

Large-Scale Properties and Solar Connection of the Heliospheric Current and Plasma Sheets: WIND Observations, R.P. Lepping, A. Szabo, M. Peredo, and J.T. Hoeksema, *Geophysical Research Letters*, 23, 1199-1202, 1996.

Are Stratospheric Aerosols the Missing Link Between Tropospheric Vorticity and Earth-transits of the Heliospheric Current Sheet?, M.W. Kirkland, B.A. Tinsley, and J.T. Hoeksema, *Journal of Geophysical Research*, 101, D23, 29,689-700, 1996.

Is the Solar Core Rotating Faster or Slower than the Envelope?, M. Lazrek, A. Pantel, E. Fossat, B. Gelly, F.X. Schmider, D. Fierry-Fraillon, G. Grec. S. Loudagh, S. Ehgamberdiev, I. Khamitov, J.T. Hoeksema, P.L. Falle, and C. Regulo, *Solar Physics* 166, 1-16, 1996.

VIRGO: Experiment for Helioseismology and Solar Irradiance Monitoring, C. Froehlich, and 25 authors including J.T. Hoeksema, *Solar Physics*, 162, 101-128, 1995.

The Solar Oscillations Investigation - Michelson Doppler Imager, P.H. Scherrer, R.S. Bogart, R.I. Bush, J.T. Hoeksema, A.G. Kosovichev, J. Schou, W. Rosenberg, L. Springer, T.D. Tarbell, A. Title, C.J. Wolfson, I. Zayer, and the MDI Engineering Team, *Solar Physics*, 162, 129-188, 1995.

Sources of Shocks and Compressions in the High-Latitude Solar Wind: Ulysses, J.L. Phillips, B.E. Goldstein, J.T. Gosling, C.M. Hammond, J.T. Hoeksema, and D.J. McComas, *Geophysical Research Letters*, 22, 3305-3308, 1995.

The Effect of Coronal Mass Ejections on the Structure of the Heliospheric Current Sheet, X.P. Zhao and J.T. Hoeksema, *Journal of Geophysical Research*, 101, 4825-34, 1996.

Solar Coronal Structure: A Comparison of NSO/SP Ground-based Coronal Emission Line Intensities and Temperatures with YOHKOH SXT and WSO Magnetic Data, R.C. Altrock, P. Hick, B.V. Jackson, J.T. Hoeksema, X.P. Zhao, G. Slater and T.W. Henry, *Advances in Space Research*, 17, (4/5)235-238, 1995.

Predicting the Heliospheric Magnetic Field Using the Current Sheet - Source Surface Model, X.P. Zhao and J.T. Hoeksema, *Advances in Space Research*, 16, (9)181-184, 1995.

The Large-scale Structure of the Heliospheric Current Sheet During the Ulysses Epoch, J.T. Hoeksema, in *The High Latitude Heliosphere*, ed. R.G. Marsden, Kluwer Academic Publishers, Dordrecht, The Netherlands, 137-148, 1995 and in *Space Science Reviews*, 72, 137-148, 1995.

Modeling the Out-of-ecliptic Interplanetary Magnetic Field in the Declining Phase of Sunspot Cycle 22, X.P. Zhao and J.T. Hoeksema, in *The High Latitude Heliosphere*, ed. R.G. Marsden, Kluwer Academic Publishers, Dordrecht, The Netherlands, 189-192, 1995 and in *Space Science Reviews*, 72, 189-192, 1995.

Prediction of the Interplanetary Magnetic Field Strength, X.P. Zhao and J.T. Hoeksema, *Journal of Geophysical Research*, 100, 19-33, 1995.

Ulysses at 50 degrees South: Constant Immersion in the High-Speed Solar Wind, J.L. Phillips, A. Balogh, S.J. Bame, B.E. Goldstein, J.T. Gosling, J.T. Hoeksema, D.J. McComas, M. Neugebauer, N.R. Sheeley, Jr., and Y.-M. Wang, *Geophysical Research Letters*, 21, 1105-1108, 1994.

A Coronal Magnetic Field Model with Horizontal Volume and Sheet Currents, X.P. Zhao and J.T. Hoeksema, *Solar Physics*, 151, 91-105, 1994.

Modeling the Coronal Magnetic Field in a Polar Hole, X.P. Zhao and J.T. Hoeksema, in *Proc. 2nd SOHO Workshop on Mass Supply and Flows in the Solar Corona*, eds. B. Fleck, G. Noci, & G. Poletto, Kluwer Academic Publishers, Dordrecht, The Netherlands, 369-372, 1994 and in *Space Science Reviews*, 70, 369-372, 1994.

Stratospheric Volcanic Aerosols and Changes in Air-Earth Current Density at Solar Wind Magnetic Sector Boundaries as Conditions for the Wilcox Tropospheric Vorticity Effect, B.A. Tinsley, J.T. Hoeksema, and D.N. Baker, *Journal of Geophysical Research*, 99, 16,805-16,813, 1994.

Unique Determination of Model Coronal Magnetic Fields Using Photospheric Observations, X.P. Zhao and J.T. Hoeksema, *Solar Physics*, 143, 41, 1993.

Prediction of Heliospheric Current Sheet Tilt: 1992-1996, S.T. Suess, D.J. McComas, and J.T. Hoeksema, *Geophysical Research Letters*, 20, 161, 1993.

Prediction of Magnetic Orientation in Driver Gas-Associated -Bz Events, J.T. Hoeksema and X. Zhao, *Journal Geophysical Research* 97, 3151, 1992.

Global Magnetic Fields, J.T. Hoeksema, *Journal of Geomagnetism and Geoelectricity, Suppl.*, 43, 59, 1991.

Large-scale Solar and Heliospheric Magnetic Fields, J.T. Hoeksema, *Advances in Space Research*, 11, No. 1, (1)15-24, 1991.

The Solar Oscillations Investigation - Michelson Doppler Imager for SOHO, P.H. Scherrer, J.T. Hoeksema, and R.I. Bush, *Advances in Space Research*, 11, No. 4, (4)113, 1991.

The IRIS Network Site at the Wilcox Solar Observatory, J.T. Hoeksema and P.H. Scherrer, *Solar Physics*, 133, 57, 1991.

Rotation of the Photospheric Magnetic Fields: A North-South Asymmetry, E. Antonucci, J.T. Hoeksema, and P.H. Scherrer, *Astrophysical Journal* 360, 296, 1990.

Long-Term Variability of Solar Magnetic Fields, J.T. Hoeksema and P.H. Scherrer, *Advances in Space Research*, 8 (7)177, 1988.

Extending the Sun's Magnetic Field Through the Three-Dimensional Heliosphere, J.T. Hoeksema, *Advances in Space Research*, 9, (4)141, 1989.

Interplanetary Cosmic-Ray Latitudinal Gradient in 1984 to 1987 Using IMP-8 and Voyager Data, J.A. Lockwood, W.R. Webber, and J.T. Hoeksema, *Journal Geophysical Research*, 93, 7521, 1988.

Spatial Variation and Evolution of Heliospheric Sector Structure, K.W. Behannon, L.F. Burlaga, J.T. Hoeksema, and L.W. Klein, *Journal Geophysical Research*, 94, 1245, 1989.

Rotation of the Coronal Magnetic Field, J.T. Hoeksema and P.H. Scherrer, *Astrophysical Journal*, 318, 428, 1987.

Evidence for a Latitudinal Gradient of the Cosmic Ray Intensity Associated with a Change in the Tilt of the Heliospheric Current Sheet, S.P. Christon, E.C. Stone, and J.T. Hoeksema, *Geophysical Research Letters*, 13, 777, 1986.

An Atlas of Photospheric Magnetic Field Observations and Computed Coronal Magnetic Fields: 1976 - 1985, J. Todd Hoeksema and Philip H. Scherrer, *Solar Physics*, 105, 205, 1986.

The Three-Dimensional Geometry of the Heliospheric Current Sheet, C.D. Fry, S.-I. Akasofu, J. Todd Hoeksema, and K. Hakamada, *Planetary & Space Science*, 33, 915, 1985.

The Influence of the Heliospheric Current Sheet and Angular Separation on Flare Accelerated Solar Wind, H. Henning, P.H. Scherrer, and J. Todd Hoeksema, *Journal of Geophysical Research*, 90, 11055, 1985.

Relationships Between a Potential Field -- Source Surface Model of the Coronal Magnetic Field and Properties of the Solar Wind at 1 AU, S.T. Suess, J.M. Wilcox, J. Todd Hoeksema, H. Henning, and M. Dryer, *Journal of Geophysical Research*, 89, 3957, 1984.

Structure and Evolution of the Large Scale Solar and Heliospheric Magnetic Fields, J. Todd Hoeksema, Ph.D. Thesis, Center for Space Science and Astrophysics, Report CSSA-ASTRO-84-07, 1984.

The Structure of the Heliospheric Current Sheet: 1978-1982, J. Todd Hoeksema, John M. Wilcox and Philip H. Scherrer, *Journal of Geophysical Research*, 88, 9910, 1983.

Structure of the Heliospheric Current Sheet in the Early Portion of Sunspot Cycle 21, J. Todd Hoeksema, John M. Wilcox and Philip H. Scherrer, *Journal of Geophysical Research*, 87, 10,331-10,338, 1982.

The Origin of the Warped Heliospheric Current Sheet, John M. Wilcox, J. Todd Hoeksema, and Philip H. Scherrer, *Science*, 209, 603-605, 1980.

Integrated Circuit AC Mutual Inductance Bridge for Magnetic Susceptibility Measurements, C.M. Brodbeck, R.R. Bukrey, and J.T. Hoeksema, *Review of Scientific Instruments*, 49, 1279 - 81, 1978.

Non-Refereed Publications

Seismic Monitoring of the Sun's Far Hemisphere: A Crucial Component in Future Space Weather Forecasting (A White Paper Submitted to the Decadal Survey for Solar and Space Physics (Heliophysics) - SSPH 2024-2033, Kiran Jain, C. Lindsey, E. Adamson, C.N. Arge, T.E. Berger, D.C. Braun, R. Chen, Y.M. Collado-Vega, M. Dikpati, T. Felipe, C.J. Henney, J.T. Hoeksema, R.W. Komm, K.D. Leka, A.R. Marble, V. Martinez Pillet, M. Miesch, L.J. Nickisch, A.A. Pevtsov, V.J. Pizzo, K.W. Tobiska, S.C. Tripathy, J. Zhao, [2022arXiv221001291J](https://arxiv.org/abs/2022arXiv221001291J)

The Science Case for a 4-Pi Perspective: A Polar/Global View for Understanding the Solar Cycle, J. Todd Hoeksema, S. Basu, D. Braun, B. Brown, M. Dikpati, N. Featherstone, S. Gibson, D. Hassler, B. Hindman, R. Komm, J. Newmark, A. A. Pevtsov, L. Upton, A. Vourlidas, J. Zhao, A Heliophysics 2050 White Paper, 2020.

The Science Case for a 4-Pi Perspective: A Polar/Global View on Space Weather Origins, S. E. Gibson, G. de Toma, A. Malanushenko, Y. Fan, D. M. Hassler, C. DeForest, J.T. Hoeksema, A. Vourlidas, J. Newmark, B. J. Thompson, M. Kirk, N. Viall, S. Wallace, K. Dalmasse, T. Berger, Y. Rivera, a Heliophysics 2050 White Paper, 2020.

The Science Case for a 4-Pi Perspective: A Polar/Global View of the Heliosphere, S. E. Gibson, G. de Toma, D. M. Hassler, C. DeForest, J. T. Hoeksema, A. Vourlidas, J. Newmark, B. J. Thompson, M. Kirk, N. Viall, S. Wallace, J. Linker, Y. Rivera, a Heliophysics 2050 White Paper, 2020.

The Science Case for the 4-Pi Perspective: A Polar/Global View for Studying the Evolution & Propagation of the Solar Wind and Solar Transients, A. Vourlidas, S. Gibson, D. Hassler, T. Hoeksema, M. Linton, N. Lugaz, J. Newmark, a Heliophysics 2050 White Paper, arXiv:2009.04880, 2020.

Roadmap for Reliable Ensemble Forecasting of the Sun-Earth System, Gelu Nita et al. (47 authors inc. J.T. Hoeksema, arXiv:1810.08728), 2018.

Using the Deep Space Gateway to Build the Next Generation Heliophysics Research Grid, A. Vourlidas, G.C. Ho, I.J. Cohen, C.M. Korendyke, S. Tun-Beltran, S.P. Plunkett, J. Newmark, O.C. St Cyr, J.T. Hoeksema, Deep Space Gateway Concept Science Workshop, Proc. of the workshop held February 27-March 1, 2018 in Denver, Colorado. LPI Contribution No. 2063, id.3055 2018LPICo2063.3055V.

Impact of Declining Proposal Success Rates on Scientific Productivity, P. Cushman, J.T. Hoeksema, C. Kouveliotou, J. Lowenthal, B. Peterson, K. Stassun, T. von Hippel, arXiv:1410.01647, 2013.

Making global map of the solar surface Br from the HMI vector magnetic field observations, K. Hayashi, Y. Liu, X. Sun, J.T. Hoeksema, R. Centeno, G. Barnes, K.D. Leka, Journal of Physics: Conf. Series 440, 2013. 10.1088/1742-6596/440/1/012036.

The Evolution of the Solar Magnetic Field, Hoeksema, J.T., Highlights of Astronomy, v.16, 86-89, 2015; Proc. IAU General Assembly 2013, Joint Discussion 3. 2015HiA....16...86H, 10.1017/S1743921314004670.

On the Role of Asymmetries in the Reversal of the Solar Magnetic Field, A.S. Brun, M.L. DeRosa, and J.T. Hoeksema, Proc. XXVIIth IAU Gen. Assembly, IAU Symposium 294, 75-80, 2013. 10.1017/S1743921313002275.

How much more can sunspots tell us about the solar dynamo?, A.A. Norton, E. Jones, Y. Liu, K. Hayashi, J.T. Hoeksema, J. Schou, Proc. XXVIIth IAU Gen. Assembly, IAU Symposium 294, 25-36, 2013. 10.1017/S1743921313002172.

A First Look at Magnetic Field Data Products from HMI/SDO, Yang Liu, P.H. Scherrer, J.T. Hoeksema, and 37 more authors, 4th Hinode Science Meeting, ASP Conference Series, 455, 337, 2012.

Dipolar and Quadrupolar Magnetic Field Evolution over Solar Cycles 21, 22, and 23, M.L. DeRosa, A.S. Brun, J.T. Hoeksema, in Astrophysical Dynamics: From Stars to Galaxies, Proc. IAU Symposium 271, p. 94-101, 2011. 10.1017/S1743921311017492.

HMI: First Results, Rebecca Centeno, S. Tomczyk, J.M. Borrero, S. Couvidat, K. Hayashi, J.T. Hoeksema, Y. Liu, and J. Schou, Astronomical Society of the Pacific Conference Series 437: Solar Polarization Workshop 6, p. 147, 2011.

Three Cycles of the Solar Toroidal Magnetic Field and This Peculiar Minimum, Leyan Lo, J.T. Hoeksema, and P.H. Scherrer, in SOHO-23: Understanding a Peculiar Solar Minimum, S.R. Cranmer, J.T. Hoeksema & J.L. Kohl, Eds., A.S.P. Conf. Ser. 428, 109, 2010.

Evolution of the Large-Scale Magnetic Field Over Three Solar Cycles, J.T. Hoeksema, in Solar and Stellar Variability: Impact on Earth and Planets, eds. A.G. Kosovichev, A.H. Andrei, and J.-P. Rozelot, Proc. IAU Symp. 264, 2009. 10.1017/81743921309992675.

A Magnetometer for the Solar Orbiter Mission, C.M. Carr, et al. (37 authors including T. Hoeksema) Proceedings of the Second Solar Orbiter Workshop, ESA SP-641, 2007. 2007ESASP.641E..41C

Highlights of the Solar and Heliospheric Working Group Sessions at the ILWS Workshop 2006, J.T. Hoeksema, Proceedings of the ILWS Workshop 2006, Goa, India 2006. 2006ilws.conf....1H.

A Solar Wind Source Tracking Concept for Inner Heliosphere Constellations of Spacecraft, J.G. Luhmann, Y. Li, C.N. Arge, J.Todd Hoeksema, X.P. Zhao, in Solar Wind Ten: Proceedings of the Tenth International Solar Wind Conference. AIP Conference Proceedings 679, p. 168-171, 2003.

Eleven years of IRIS frequencies and splittings, E. Fossat, D. Salabert, A. Cacciani, S. Ehgamberdiev, G. Gelly, G. Grec, J.T. Hoeksema, S. Kholikov, M. Lazrek P. Palle, F.X. Schmider, and S. Tomczyk, Proc. SOHO

12/GONG+ 2002: Local and global helioseismology: the present and future, Ed. H. Sawaya-Lacoste, ESA SP-517, Noordwijk, Netherlands, ISBN 92-9092-827-1, pp. 139-144, 2003.

Analysis of Variability of P-mode Parameters in 11 Years of IRIS Data, D. Salabert, S.J. Jimenez-Reyes, E. Fossat, A. Cacciani, S. Ehgamberdiev, B. Gelly, G. Grec, J.T. Hoeksema, S. Khalikov, M. Lazrek, P. Pallé, F.X. Schmider, and S. Tomczyk, Proc. of the Second Solar Cycle and Space Weather Euroconference, Ed: H. Sawaya-Lacoste. ESA SP-477, Noordwijk, ISBN 92-9092-749-6, p. 253-256, 2002.

An Estimation of Global Solar P-mode Frequencies from IRIS Network Data: 1989-1996, A. Serebryanskiy, S. Ehgamberdiev, S. Kholikov, E. Fossat, B. Gelly, F.X. Schmider, G. Grec, A. Cacciani, P.L. Pallé, M. Lazrek, and J.T. Hoeksema, *New Astronomy* 6, 4, pp. 189-195, 2001. 10.1016/S1384-1076(01)00049-5.

G-mode Detection: Where Do We Stand?, T. Appourchaux, B. Andersen, G. Berthomieu, W. Chaplin, Y. Elsworth, W. Finsterle, C. Fröhlich, D.O. Gough, T. Hoeksema, G. Isaak, A. Kosovichev, J. Provost, P. Scherrer, T. Sekii, and T. Toutain, Proc. of the SOHO 10/GONG 2000 Workshop: Helio- and asteroseismology at the dawn of the millennium, Ed. A. Wilson, Scientific coordination by P. L. Pallé. ESA SP-464, Noordwijk, ISBN 92-9092-697-X, pp. 467-471, 2001.

Solar Active Longitudes and Their Rotations Using SOHO-MDI Data, E.E. Benevolenskaya, J.T. Hoeksema, A.G. Kosovichev, and P.H. Scherrer, 11th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun, (CD-ROM Directory: contribs/benevo2), ASP Conf Proc. 223, Eds. Ramon J. Garcia Lopez, Rafael Rebolo, and Maria Rosa Zapaterio Osorio. San Francisco: Astronomical Society of the Pacific, ISBN: 1-58381-055-2, p.583, 2001.

Colors of the Sun, J. Beck, Z. Frank, J.T. Hoeksema, C. Little, P. Mortfield, D. Scherrer and P.H. Scherrer, an educational poster published by the Lockheed Martin Solar and Astrophysics Laboratory, 1999.

Inside the Sun, J.T. Hoeksema, Z. Frank, A. Graps, C. Lindsey, P. Mortfield, D. Scherrer, and P.H. Scherrer, an educational poster published by the Lockheed Martin Solar and Astrophysics Laboratory, 1999.

The Radial HMF in Fast and Slow Solar Wind, X.P. Zhao and J.T. Hoeksema, in *Solar Wind Nine*, eds. S. Habbal, R. Esser, J. Hollweg and P. Isenberg, AIP Conf Proc. 471, 103, 1999.

Connections Between the Slow Solar Wind, CMEs and the Helmet Streamer Belt Inferred from Coronal Field Models, J.G. Luhmann, D. Larson, J.T. Hoeksema, X.P. Zhao, N. Arge, and O.C. St. Cyr, in *Solar Wind Nine*, eds. S. Habbal, R. Esser, J. Hollweg and P. Isenberg, AIP Conf Proc. 471, 725, 1999.

The Actively Quiet Sun in AI Applications, J.T. Hoeksema, in *Solar-Terrestrial Physics*, eds. I. Sandahl & E. Jonsson, ESA WPP-148, p. 5-12, 1998.

Colors of the Sun, J.T. Hoeksema, P. Mortfield, and L. Seerveld, Video produced by the Stanford SOLAR Center, LMMS Video Production #98-094, 1998.

Comparative Studies of Low-Order and Low-Degree Solar P Modes, T. Appourchaux, B. Andersen, W. Chaplin, Y. Elsworth, W. Finsterle, C. Froehlich, D.O. Gough, J.T. Hoeksema, G. Isaak, A. Kosovichev, J. Provost, P. Scherrer, T. Sekii and T. Toutain, in Proc SOHO6/GONG98 Workshop: Structure & Dynamics of the Interior of the Sun and Sun-like Stars, Eds. S.G. Korzennik & A. Wilson, ESA SP-418, 95, 1998.

The Effect of Amplitude Modulation on Asymmetries of Solar P Modes, B. Andersen, T. Leifsen, T. Appourchaux, C. Froehlich, J.T. Hoeksema, T. Toutain, and C. Wehrli, in Proc SOHO6/GONG98 Workshop: Structure & Dynamics of the Interior of the Sun and Sun-like Stars, Eds. S.G. Korzennik & A. Wilson, ESA SP-418, 893, 1998.

Observational Upper Limits for Low-Degree Solar G Modes, C. Froehlich, W. Finsterle, B. Andersen, T. Appourchaux, W.J. Chaplin, Y. Elsworth, D.O. Gough, J.T. Hoeksema, G.R. Isaak, A.G. Kosovichev, J. Provost, P.H. Scherrer, T. Sekii, and T. Toutain, in Proc SOHO6/GONG98 Workshop: Structure & Dynamics of the Interior of the Sun and Sun-like Stars, Eds. S.G. Korzennik & A. Wilson, ESA SP-418, 67, 1998.

Progress Toward and IRIS++ Database Open to the Helioseismological Community, B. Gelly, S. Khalikov, P.L. Palle, D. Fierry-Fraillon, E. Fossat, A. Cacciani, S. Ehgamberdiev, G. Grec, J.T. Hoeksema, M. Lazrek, and F.X. Schmider, in Proc SOHO6/GONG98 Workshop: Structure & Dynamics of the Interior of the Sun and Sun-like Stars, Eds. S.G. Korzennik & A. Wilson, ESA SP-418, 199, 1998.

The Stellar and Planetary Explorer (SPEX) Mission, J. Schou, P.H. Scherrer, T.M. Brown, S. Frandsen, S.D. Horner, S.G. Korzennik, R.W. Noyes, T.D. Tarbell, A.M. Title, A.B.C. Wallker, III, W.W. Weiss, R.S. Bogart, R.I. Bush, J. Christensen-Dalsgaard, J.T. Hoeksema, A. Jones and H. Kjeldsen, Proc SOHO6/GONG98 Workshop: Structure & Dynamics of the Interior of the Sun and Sun-like Stars, Eds. S.G. Korzennik & A. Wilson, ESA SP-418, 401, 1998.

Helio-Atmospheric Links Explorer (HALE): A MIDEX Experiment for Exploring the Emergence of Magnetic Flux from Below the Solar Photosphere Through the Corona, P.H. Scherrer, A.M. Title, R.I. Bush, T.L. Duvall, Jr., J.B. Gurman, J.T. Hoeksema, A.G. Kosovichev, A.I. Poland, T.D. Tarbell, Proceedings of A Crossroads for European Solar and Heliospheric Physics, ESA SP-417, 285-288, 1998.

Modeling Boot-Shaped Coronal Holes Using SOHO-MDI Magnetic Measurements, X.P. Zhao, J.T. Hoeksema, P.H. Scherrer, Proc. of the 5th SOHO Workshop: The Corona and Solar Wind Near Minimum Activity, SP-404, 751-756, 1997.

A Search for the Coronal Origins of Fast Solar Wind Streams During the Whole Sun Month Period, A.J. Lazarus, J.T. Steinberg, D.A. Biesecker, R.J. Forsyth, A.B. Galvin, F.M. Ipavich, S.E. Gibson, A. Lecinski, D.M. Hassler, J.T. Hoeksema, P. Riley, L. Strachan, Jr., Z. Szabo, R.P. Lepping, K.W. Ogilvie, B.J. Thompson, Proc. 5th SOHO Workshop, 511, 1997.

Modeling a Simple Coronal Streamer During Whole Sun Month, S.E. Gibson, F. Bagenal, D. Biesecker, M. Guhathakurta, J.T. Hoeksema, & B.J. Thompson, Proc. 5th SOHO Workshop, 407-412, 1997.

Limitations of the IRIS Network Performance, S. Ehgamberdiev, S. Khalikov, P. Ladenkov, A. Serebryanski, Y. Tillaev, E. Fossat, G. Grec, B. Gelly, F.-X. Schmieder, P. Pallé, C. Regulo, M. Lazrek, and J.T. Hoeksema, Proceeding of IAU Symposium 181, Sounding Solar and Stellar Interiors, 19, 1998.

Continuous Large-Scale Observations of Velocity and Intensity with MDI, J.T. Hoeksema, R.I. Bush, D. Mathur, M. Morrison, and P.H. Scherrer, in Proceeding of IAU Symposium 181, Sounding Solar and Stellar Interiors, 31, 1998.

Prediction of Coronal and Heliospheric Magnetic Fields: The Promise of SOI-MDI on SOHO, J.T. Hoeksema, X. Zhao & P.H. Scherrer, in Proceedings of Solar Wind 8, 76, 1996.

The Large Scale Eruptive Event of 1994 April 14, D. Alexander, K.L. Harvey, H.S. Hudson, J.T. Hoeksema, and X.P. Zhao, in Proceedings of Solar Wind 8, 80, 1996.

Solar Identification of Solar-Wind Disturbances Observed at Ulysses, J.R. Lemen, L.W. Acton, D. Alexander, A.B. Galvin, K.L. Harvey, J.T. Hoeksema, X.P. Zhao, & H.S. Hudson, Proceedings of Solar Wind 8, 92, 1996.

The Temporal Evolution of the Radial Component of the Heliospheric Magnetic Field, X.P. Zhao and J.T. Hoeksema, in Proceedings of Solar Wind 8, 496, 1996.

Photospheric and Coronal Magnetic Fields, The Report of WG.06, J.T. Hoeksema and X.P. Zhao, in Proc. 4th SOHO Workshop: Helioseismology, Vol. 1, eds. J.T. Hoeksema, V. Domingo, B. Fleck, and B.B. Battrick, ESA SP-376, 201-204, 1995.

Helioseismology Intercomparisons, The Report of WG.08, R.I. Bush and J.T. Hoeksema, Proc. 4th SOHO Workshop: Helioseismology, Vol. 1, eds. J.T. Hoeksema, V. Domingo, B. Fleck, and B.B. Battrick, ESA SP-376, 209-210, 1995.

Low Frequency Data Analysis, The Report of WG.16, J.T. Hoeksema, in Proc. 4th SOHO Workshop: Helioseismology, Vol. 1, eds. J.T. Hoeksema, V. Domingo, B. Fleck, and B.B. Battrick, ESA SP-376, 227-228, 1995.

SOI/MDI Studies of Active Region Seismology and Evolution, T.D. Tarbell, A. Title, J.T. Hoeksema, P.H. Scherrer & E. Zweibel, in Proc. 4th SOHO Workshop: Helioseismology, eds. J.T. Hoeksema, V. Domingo, B. Fleck, and B.B. Battrick, ESA SP-376, 113-118, 1995.

Hot Spots and Active Longitudes: Organization of Solar Activity as a Probe of the Interior, T. Bai, J.T. Hoeksema, and P.H. Scherrer, in Proc. 4th SOHO Workshop: Helioseismology, eds. J.T. Hoeksema, V. Domingo, B. Fleck, and B.B. Battrick, ESA SP-376, 113-118, 1995.

Potential Contribution of MDI to Understanding Large-scale Structures in the Corona, X.P. Zhao, J.T. Hoeksema, and P.H. Scherrer, in Proc. 4th SOHO Workshop: Helioseismology, eds. J.T. Hoeksema, V. Domingo, B. Fleck, and B.B. Battrick, ESA SP-376, 509-514, 1995.

Solar P-mode Frequencies from the IRIS Network, B. Gelly, E. Fossat, P. Pallé, T. Appourchaux, S. Ehgamberdiev, D. Fierry-Fraillon, G. Grec, J.T. Hoeksema, S. Khalikov, M. Lazrek, S. Loudagh, A. Pantel, C. Regulo, L. Scanchez, and F.X. Schmider, in Proc. 4th SOHO Workshop: Helioseismology, eds. J.T. Hoeksema, V. Domingo, B. Fleck, and B.B. Battrick, ESA SP-376, 373-380, 1995.

Solar Core Rotation: Latest IRIS Results, E. Fossat, M. Lazrek, S. Loudagh, A. Pantel, B. Gelly, G. Grec, F.X. Schmider, P.L. Pallé, C. Regulo, S. Ehgamberdiev, S. Khalikov, and J.T. Hoeksema, in Proc. 4th SOHO Workshop: Helioseismology, eds. J.T. Hoeksema, V. Domingo, B. Fleck, and B.B. Battrick, ESA SP-376, 261-264, 1995.

P-mode Frequencies of Degree $l = 3$ to 5, A. Pantel, J.T. Hoeksema, E. Fossat, P. Scherrer, B. Gelly, G. Grec, S. Loudagh, & F.X. Schmider, in Proc. 4th SOHO Workshop: Helioseismology, eds. J.T. Hoeksema, V. Domingo, B. Fleck, and B.B. Battrick, ESA SP-376, 381-386, 1995.

Fourth SOHO Workshop: Helioseismology, Vols. 1 and 2, edited by J.T. Hoeksema, V. Domingo, B. Fleck, and B.B. Battrick, ESA SP-376, ESA Publications Division, Noordwijk, The Netherlands.

IRIS-W: 1994 Site Report for the IRIS Instrument at the Wilcox Solar Observatory, J.T. Hoeksema, Proc. 7th Workshop IRIS, 1995.

The Status of the Solar Oscillations Investigation, J.T. Hoeksema, Proc. 7th Workshop IRIS, 1995.

Status of the Solar Oscillations Investigation - Michelson Doppler Imager, P. Scherrer, R. Bogart, R. Bush, J.T. Hoeksema, P. Milford, J. Schou, T. Pope, W. Rosenberg, L. Springer, T. Tarbell, A. Title, J. Wolfson, and I. Zayer, in GONG '94 Helio- and Astero-Seismology from Earth and Space, A.S.P. Conference Proceedings, eds. R.K. Ulrich, E.J. Rhodes, Jr. and W. Dappen, 402-407, 1995.

Michelson Doppler Imager (MDI) Performance Characteristics, I. Zayer, M. Morrison, T. Pope, W. Rosenberg, T. Tarbell, A. Title, J. Wolfson, R. Bogart, J.T. Hoeksema, P. Milford, P. Scherrer, J. Schou, in GONG '94 Helio- and Astero-Seismology from Earth and Space, A.S.P. Conference Proceedings, eds. R.K. Ulrich, E.J. Rhodes, Jr. and W. Dappen, 456-461, 1995.

Prediction of Coronal and Interplanetary Magnetic Field Using the Current Sheet - Source Surface Model, J.T. Hoeksema and X.P. Zhao, Proc. 8th International Symposium on Solar Terrestrial Physics, 19, 1994.

The Effect of Coronal Mass Ejections on the Structure of the Heliospheric Current Sheet, X.P. Zhao & J.T. Hoeksema, Proceedings of the Third SOHO Workshop, ESA SP-373, 321-324, 1994.

SOI-MDI Magnetic Field Observations, J.T. Hoeksema, SOI Technical Note 113, Stanford University, 1994.

Solar Inputs to Solar-Terrestrial Predictions from the Wilcox Solar Observatory, J.T. Hoeksema, Proc. Int'l. Workshop on Artificial Intelligence Applications in Solar-Terrestrial Physics, 115-120, 1993.

Observations of Global Solar Magnetic and Velocity Fields, J.T. Hoeksema, in *The Sun as a Variable Star: Solar and Stellar Irradiance Variations*, eds. J.M. Pap, C. Froehlich, H.S. Hudson, and S.K. Solanki, Cambridge Univ. Press, 138-146, 1994.

Report of the Solar Physics Working Group to the Office of Naval Research Space Sciences Committee, J.T. Hoeksema, J.W. Harvey, R. Howard, J.A. Joselyn, J. Klimchuk, G. Kopp, J. Lean, J. Leibacher, N. Sheeley, R. Sudan, and H. Zirin, Proc. ONR Space Sciences Workshop, 1993.

The Solar Oscillations Investigation - Michelson Doppler Imager, J.T. Hoeksema, P.H. Scherrer, R.I. Bush, A. Title, and T. Tarbell, in Proc. SOHO Workshop on Coronal Streamers, Coronal Loops and Coronal and Solar Wind Composition, ESA SP-348, ed. C. Mattok, 5, 1992.

A Magnetostatic Coronal Model with Horizontal Electric Currents: Modeling the Coronal Streamer Belt, Xuepu Zhao and J.Todd Hoeksema, in Proc. SOHO Workshop on Coronal Streamers, Coronal Loops and Coronal and Solar Wind Composition, ESA SP-348, ed. C. Mattok, 117, 1992.

Coronal and Interplanetary Magnetic Field Topology, J.T. Hoeksema, *Solar-Terrestrial Predictions - IV*, Vol. 2, 3-12, 1993.

Statistics of IMF Bz Events, X.P. Zhao, J.T. Hoeksema, J.T. Gosling, and J.T. Phillips, *Solar-Terrestrial Predictions - IV*, Vol. 2, 712-719, 1993.

Evolution of the Solar and Coronal Field Structure: 1976 - 1991, J.T. Hoeksema, in Proc. of the 1st SOLTIP Symposium, eds. S. Fischer and M. Vandas, Astronomical Institute of the Czechoslovak Academy of Sciences, Prague, V.1, 119, 1992.

Identification of Driver Gas - Associated Bz Events and Prediction of Their Orientation, X.P. Zhao and J.T. Hoeksema, in Proc. of the 1st SOLTIP Symposium, eds. S. Fischer and M. Vandas, Astronomical Institute of the Czechoslovak Academy of Sciences, Prague, V.2, 300, 1992.

Large-scale Structure of the Heliospheric Magnetic Field: 1976 - 1991, J.T. Hoeksema, *Solar Wind Seven*, COSPAR Colloquia Series Vol. 3, eds. E. Marsch and R. Schwenn, Pergamon Press, 191, 1992.

Prediction of Large North-South IMF Component Events Occurring in Driver Gas, X.P. Zhao and J.T. Hoeksema, *Solar Wind Seven*, COSPAR Colloquia Series Vol. 3, eds. E. Marsch and R. Schwenn, Pergamon Press, 697, 1992.

Instrument Performance Specification for the Solar Oscillations Investigation - Michelson Doppler Imager, Revision 2, J.T. Hoeksema, I. Zayer, R. Bush, and P. Milford, MDI Technical Report, 1991.

Solar Sources of Geomagnetic Storms, J.T. Hoeksema, *Physics News* in 1991, American Institute of Physics, New York, 47, 1991.

Recent Observations of Small-scale Solar Convection, J.T. Hoeksema, *Geophysics News* 1991, AGU, Washington, D.C., 5, 1991.

Solar Sources of Geomagnetic Storms, J.T. Hoeksema, *Geophysics News* 1991, AGU, Washington, D.C., 11, 1991.

The Solar Magnetic Field, 1985 through 1990, J.T. Hoeksema, Report CSSA-ASTRO-91-01, 1991.

The Annual Reports of Observatories: Wilcox Solar Observatory, J.T. Hoeksema, *Bulletin of the American Astronomical Society*, 23, 1, 679, 1991.

Instrument Performance Specification for the Solar Oscillations Investigation - Michelson Doppler Imager, J.T. Hoeksema and P. Milford, MDI Technical Report, 1990.

The Outer Magnetic Field, J.T. Hoeksema and S.T. Suess, *Memorie della Societa Astronomica Italiana* 61, 485, 1990.

The Solar Activity Cycle, D. Rabin, C.R. DeVore, K.L. Harvey, and J.T. Hoeksema, Chapter 22 of *The Solar Interior and Atmosphere*, eds. A.N. Cox, W.C. Livingston, and M.S. Matthews University of Arizona Press, 781-843, 1991.

The Solar Oscillations Imager for SOHO, P.H. Scherrer, J.T. Hoeksema, R.S. Bogart, A.B.C. Walker, Jr., A.M. Title, T.D. Tarbell, C.J. Wolfson, T.M. Brown, J. Christensen-Dalsgaard, D.O. Gough, J.R. Kuhn, J.W. Leibacher, K.G. Libbrecht, R.W. Noyes, E.J. Rhodes, Jr., J. Toomre, E.G. Zweibel, R.K. Ulrich, Jr., in *The SOHO Mission - Scientific and Technical Aspects of the Instruments*, ESA SP-1104 (ed. T.D. Guyenne), 1989.

The Michelson Doppler Imager for the Solar Oscillations Imager Program on SOHO, J.T. Hoeksema, P.H. Scherrer, A.M. Title, and T.D. Tarbell, in *Seismology of the Sun and Sun-like Stars*, ed. E. Rolfe, ESA SP-286, 407, 1988.

The Solar Oscillations Imager for SOHO, P.H. Scherrer, J.T. Hoeksema, and R.S. Bogart, in *Seismology of the Sun and Sun-like Stars*, ed. E. Rolfe, ESA SP-286, 375, 1988.

More Than a Solar Cycle of Synoptic Solar and Coronal Data: A Video Presentation, J.T. Hoeksema, M. Herant, P.H. Scherrer, and A.M. Title, in *Solar and Stellar Coronal Structure and Dynamics*, ed. R.C. Altrock, 376, 1988.

Video Presentation of Synoptic Solar and Coronal Data, J.T. Hoeksema, M. Herant, P.H. Scherrer, and A.M. Title, Report CSSA-ASTRO-87-3, 1987.

The Detection of Global Convective Wave Flows on the Sun, P.H. Scherrer, R.S. Bogart, J.T. Hoeksema, and H. Yoshimura, in *Seismology of the Sun and the Distant Stars*, ed. D.O. Gough, D. Reidel Pub. Co., 1986.

The Solar Magnetic Field -- 1976 through 1985, J.T. Hoeksema and P.H. Scherrer, Report UAG-94, U.S. Department of Commerce, NOAA, Boulder, CO 80303 U.S.A, 1986.

The Relationship of the Large-Scale Solar Field to the Interplanetary Magnetic Field: What will Ulysses Find?, J.Todd Hoeksema, in *The Sun and the Heliosphere in Three Dimensions*, Proceedings of the 19th ESLAB Symposium, (ed. R.G. Marsden), D. Reidel, 241, 1986.

Solar Wind Speed Azimuthal Variation Along the Heliospheric Current Sheet, S.T. Suess, P.H. Scherrer, and J.Todd Hoeksema, in *The Sun and the Heliosphere in Three Dimensions*, Proceedings of the 19th ESLAB Symposium, (ed. R.G. Marsden), D. Reidel, 275, 1986.

The Annual Reports of Observatories: Wilcox Solar Observatory, P.H. Scherrer, J.T. Hoeksema, R.S. Bogart, and H. Henning, *Bulletin of the American Astronomical Society*, 18, 1, 621, 1986.

Harmonic Analysis of the Solar Magnetic Field, J. Todd Hoeksema and Philip H. Scherrer, in *The Hydromagnetics of the Sun*, Proceedings of the Fourth European Meeting on Solar Physics, ESA SP-220, 269, 1984.

Interplanetary Magnetic Field and Tropospheric Circulation, John M. Wilcox, Philip H. Scherrer and J. Todd Hoeksema, in *Proc. of Second International Symposium on Solar-Terrestrial Influences on Weather and Climate*, Boulder, Colorado, August 1982, 1983.