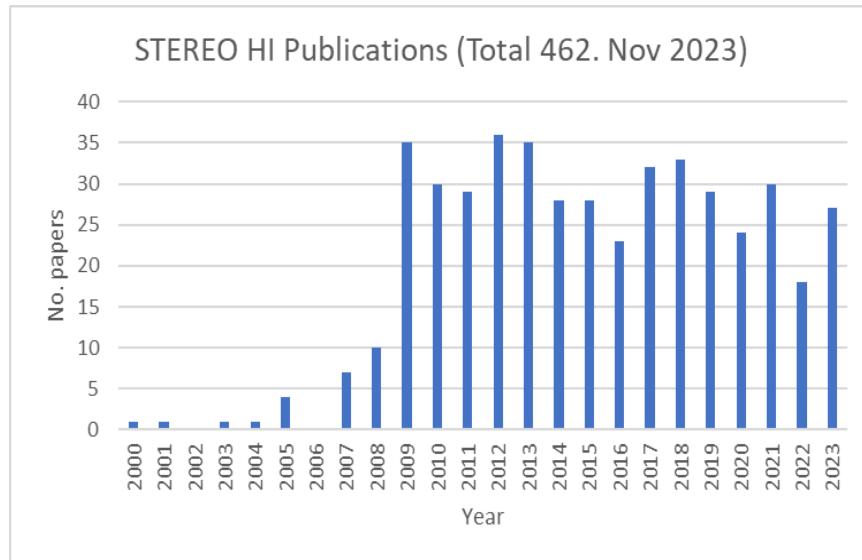


STEREO HI – Publications (November 2023)

Analysis of publications – All publications are full papers which include aspects of STEREO/HI observations/analysis or instrumentation: To date, this includes 462 papers (including 6 submitted). Also, some 19 PhD theses from the UK and Ireland are known to the PI team. *Note that many STEREO data users are not good at reporting publication or thesis completion to the PI team!* The figures are tabulated and plotted below.

| Year | Papers |
|--------------|------------|
| 2000 | 1 |
| 2001 | 1 |
| 2002 | 0 |
| 2003 | 1 |
| 2004 | 1 |
| 2005 | 4 |
| 2006 | 0 |
| 2007 | 7 |
| 2008 | 10 |
| 2009 | 35 |
| 2010 | 30 |
| 2011 | 29 |
| 2012 | 36 |
| 2013 | 35 |
| 2014 | 28 |
| 2015 | 28 |
| 2016 | 23 |
| 2017 | 32 |
| 2018 | 33 |
| 2019 | 29 |
| 2020 | 24 |
| 2021 | 30 |
| 2022 | 18 |
| 2023* | 27 |
| TOTAL | 462 |



[Note that the figure for 2023 is not for a complete year]

- The HI instrument paper (no 30), HI first-light paper (no. 18) and the STEREO SECCHI instrument paper (no 19) have been cited 315, 86 and 1449 times, respectively (source: NASA ADS).
- UK and Irish author institutes involved in publications from 2013 to date: RAL, the universities of Aberystwyth, Birmingham, Central Lancashire, Dundee, Keele, Leicester, Liverpool John Moores, Nottingham, Oxford, Reading, Imperial College, Open University, Trinity College Dublin and UCL/MSSL – in addition to the Met Office, Airbus UK and Deimos US. Many other international universities and institutes regularly publish work exploiting the STEREO HI data, particularly from countries such as Austria, Belgium, Finland, France, Germany and the USA.
- PhD theses from the UK and Ireland include - G. Dorrian, Aberystwyth, 2009; N. Savani, Imperial College, 2010; J. Byrne, Trinity College Dublin, 2010; D. Baker, MSSL/UCL, 2010; J. Pearson, UCLAN, 2010; A. Williams, Leicester, 2011; S. Maloney, Trinity College Dublin, 2012; V Sangaralingam, Birmingham, 2012; K. Wraight, Open University, 2013; L. Barnard, Reading, 2013; T. Conlon, Leicester, 2013; G. Whittaker, Birmingham, 2013; S. Hardwick, Aberystwyth, 2015; D. Barnes, UCL, 2015; A.J. Prise, MSSL, 2015; D. Oyuzar, Birmingham, 2015; K. Tucker-Hood, Reading, 2017; E. Davies, Imperial College, 2020; S. Jones, Reading 2021.

[* Including in press & submitted; figures as of 13 November 2023]

2000

1. NASA Solar Terrestrial Relations Observatory (STEREO) mission Heliospheric Imager
Socker, D.G., Howard, R.A., Korendyke, C.M., Simnett, G.M. & Webb, D.F.,
2000, Proc. SPIE Vol. 4139, 284.

2001

2. Design of the Heliospheric Imager for the STEREO mission
Defise, J.-M, Halain, J.-P., Mazy, E., Rochus, P., Howard, R.A., Moses, J.D., Socker, D.G., Simnett, G.M., Webb, D.F.
2001, Proc. SPIE 4498, 63.

2003

3. Design and tests for the Heliospheric Imager of the STEREO mission
Defise, J., Halain, J., Mazy, E., Rochus, P. P., Howard, R. A., Moses, J. D., Socker, D. G., Harrison, R.A. and Simnett, G. M.
2003, in 'Innovative Telescopes and Instrumentation for Solar Astrophysics', (Eds) S.L. Keil, S.V. Avakyan,
Proceedings of SPIE, Volume 4853, 12.

2004

4. Future Solar Missions
Harrison, R.A.
2004, in 'Coronal Heating', eds, R.W. Walsh, J. Ireland, D. Danesy, and B. Fleck, ESA SP-575, 13.

2005

5. STEREO/HI – from near-Earth objects to 3D comets
Davis, C.J. and Harrison, R.A.
2005, Adv. Space Research 36, 1524.
6. Solar Encounter, Solar-B and STEREO
Harra, L.K., Culhane, J.L and Harrison, R.A. (Editors)
2005, Adv. Space Research volume 36.
7. The STEREO Heliospheric Imager: How to detect CMEs in the Heliosphere
Harrison, R.A., Davis, C.J. and Eyles, C.J.
2005, Adv. Space Research 36, 1512.
8. Design and performances of the Heliospheric Imager for the STEREO mission
Mazy, E., Halain, J.-P., Defise, J.-M., Ronchain, P., Howard, R.A., Moses, J.-D., Eyles, C. and Harrison, R.
2005, Proc. SPIE 5962, 509.

2007

9. In-orbit verification , calibration and performance of the Heliospheric Imager on the STEREO mission
 Eyles, C.J., Davis, C.J., Harrison, R.A., Waltham, N.R., Halain, J.-P., Mazy, E., Defise, J.-M., Howard, R.A.,
 Moses, D.J., Newmark, J., Plunkett, S.
 2007, Proc. SPIE 6689.
10. Discovery of the atomic ion tail of comet McNaught using the Heliospheric Imager on STEREO
 Fulle, M., Leblanc, F., Harrison, R.A., Davis, C.J., Eyles, C.J., Halain, J.-P., Howard, R.A., Bockelee-Morvan, D.,
 Cremonese, G. and Scarmato, T
 2007, Astrophys. J. Lett. 661, L93. [Press release]
11. STEREO: Heliospheric Imager design, pre-flight and in-flight response comparison
 Halain, J.P., Mazy, E., Defise, J.M., Moses, J.D., Newmark, J.S., Korendyke, C.M., Eyles, C.J., Harrison, R.A.
 Davis, C.J.,
 2007, Proc. SPIE 6689.
12. Searching for solar clouds in interplanetary space
 Harrison, R.A., Davis, C.J., Eyles, C.J., Halain, J.-P., Howard, R.A
 2007, Space Research Today 168, 25.
13. Magnetic coupling of the Sun-Earth system: The view from STEREO
 Matthews, S.A., Culhane, J.S.
 2007, Adv. Space Research 39, 1791.
14. First direct observation of the interaction between a comet and a Coronal Mass Ejection leading to a complete plasma tail disconnection
 Vourlidas, A., Davis, C.J., Eyles, C.J., Crothers, S.R., Harrison, R.A., Howard, R.A., Moses, D.J., Socker, D.G.
 2007, Astrophys. J. 668, L79. [Press release]
15. Design, development and performance of the STEREO SECCHI CCD Cameras
 Waltham, N.R., Eyles, C.J.,
 2007, Proc. SPIE 6689, 6689.
- ## **2008**
16. STEREO Space Weather and the Space Weather Beacon
 Biesecker, D.A., Webb, D.F., St Cyr, O.C.,
 2008, Space Sci. Rev. 136, 45.
17. Simultaneous interplanetary scintillation and Heliospheric Imager observations of a coronal mass ejection,
 Dorrian, G.D., Breen, A.R., Brown, D.S., Davies, J.A., Fallows, R.A., Rouillard, A.P.
 2008, Geophys. Res. Lett. 35, L24104.
18. First imaging of Coronal Mass Ejections in the heliosphere viewed from outside the Sun-Earth line

Harrison, R.A., Davis, C.J., Eyles, C.J., Bewsher, D., Crothers, S., Davies, J.A., Howard, R.A., Moses, D.J., Socker, D.G., Halain, J.-P., Defise, J.-M., Mazy, E., Rochus, P., Webb, D.F., Simnett, G.M.
2008, Solar Phys. 247, 171. [Press release]

19. Sun Earth Connection Coronal and Heliospheric Investigations (SECCHI)

Howard, R.A., Moses, J.D., Vourlidas, A., Newmark, J.S., Socker, D.G., Plunkett, S.P., Korendyke, C.M., Cook, J. W., Hurley, A., Davila, J. M., Thompson, W. T., St Cyr, O.C., Mentzell, E., Mehalick, K., Lemen, J.R., Wuelser, J.P., Duncan, D.W., Tarbell, T.D., Wolfson, C.J., Moore, A., Harrison, R.A., Waltham, N.R., Lang, J., Davis, C.J., Eyles, C.J., Mapson-Menard, H., Simnett, G.M., Halain, J.-P., Defise, J.M., Mazy, E., Rochus, P., Mercier, R., Ravet, M.F., Delmotte, F., Auchere, F., Delaboudiniere, J.P., Bothmer, V., Deutsch, W., Wang, D., Rich, N., Cooper, S., Stephens, V., Maahs, G., Baugh, R., McMullin, D.

2008, Space Sci. Rev. 136, 67.

20. Three-dimensional reconstruction of two solar coronal mass ejections using the STEREO spacecraft

Howard, T.A. and Tappin, S.J.

2008, Solar Phys. 252, 373

21. Observational evidence of CMEs interacting in the inner heliosphere as inferred from MHD simulations

Lugaz, N., Manchester, W.B., Roussev, I.I., Gombosi, T.I.

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22. The brightness of density structures at large solar elongation angles: What is being observed by STEREO/SECCHI?

Lugaz, N., Vourlidas, A., Roussev, I.I., Jacobs, C., Manchester, W.B., Cohen, O.

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23. First imaging of corotating interaction regions using the STEREO spacecraft

Rouillard, A.P., Davies, J.A., Forsyth, R.J., Rees, A., Davis, C.J., Harrison, R.A., Lockwood, M., Bewsher, D., Crothers, S., Eyles, C.J., Hapgood, M.A., Perry, C.H.

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24. SECCHI observations of the Sun's garden-hose density spiral

Sheeley, N.R., Herbst, A.D., Palatchi, C.A., Wang, Y.-M., Howard, R.A., Moses, J.D., Vourlidas, A., Newmark, J.S., Socker, D.G., Plunkett, S.P., Korendyke, C.M., Burlaga, L.F., Davila, J.M., Thompson, W.T., St Cyr, O.C., Harrison, R.A., Davis, C.J., Eyles, C.J., Halain, J.P., Wang, D., Rich, N.B., Battams, K., Esfandiari, E., Stenborg, G.

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25. Heliospheric images of the solar wind at Earth

Sheeley, N.R., Herbst, A.D., Palatchi, C.A., Wang, Y.-M., Howard, R.A., Moses, J.D., Vourlidas, A., Newmark, J.S., Socker, D.G., Plunkett, S.P., Korendyke, C.M., Burlaga, L.F., Davila, J.M., Thompson, W.T., St Cyr, O.C., Harrison, R.A., Davis, C.J., Eyles, C.J., Halain, J.P., Wang, D., Rich, N.B., Battams, K., Esfandiari, E., Stenborg, G.

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26. Signatures of interchange reconnection: STEREO, ACE and Hinode observations combined
 Baker, D., Rouillard, A.P., van Driel-Gesztelyi, L., Demoulin, P., Harra, L.K., Lavraud, B., Davies, J.A., Opitz, A., Luhmann, J.G., Sauvaud, J.-A., Galvin, A.B.
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27. Calibrating the pointing and optical parameters of the STEREO Heliospheric Imagers
 Brown, D.S., Bewsher, D., Eyles, C.J.
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28. A synoptic view of coronal mass ejection propagating through the heliosphere using the Heliospheric Imagers on the STEREO spacecraft
 Davies, J.A., Harrison, R.A., Rouillard, A.P., Sheeley, N.R., Bewsher, D., Davis, C.J., Eyles, C.J., Crothers, S., Brown, D.S.,
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 Davis, C. J., Davies, J. A., Lockwood, M., Rouillard, A.P., Eyles, C. J., Harrison, R. A.,
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 Eyles, C.J., Harrison, R.A., Davis, C.J., Waltham, N.R., Shaughnessy, B.M., Mapson-Menard, H.C.A., Bewsher, D., Crothers, S.R., Davies, J.A., Rouillard, A.P., Howard, R.A., Socker, D.G., Moses, D.J., Newmark, J.S., Halain, J.-P., Defise, J.-M., Mazy, E., Rochus, P., Simnett, G.M.,
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31. Coronal mass ejection: Key issues
 Harrison, R.A.
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32. A journey through the L4/L5 gravity wells
 Harrison, R.A.
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33. Two years of the STEREO Heliospheric Imagers – A review
 Harrison, R.A., Davies, J.A., Rouillard, A.P., Davis, C.J., Eyles, C.J., Bewsher, D., Crothers, S.R., Howard, R.A., Sheeley, N.R., Vourlidas, A., Webb, D.F., Brown, D.S., Dorrian, G.
 2009, Solar Phys. 256, 219.
34. Pre-CME onset fuses – Do the STEREO Heliospheric Imagers hold the clues to the CME onset process?
 Harrison, R.A., Davis, C.J., Davies, J.A.
 2009, Solar Phys. 259, 277.
35. Three eyes on the Sun – multi-spacecraft studies of the corona and impacts on the heliosphere
 Harrison, R.A., Luhmann, J., Fleck, B., St Cyr, C., Forsyth, R., (Editors)
 2009, Annales Geophysicae 27, Special Issue

36. Interplanetary coronal mass ejections observed in the heliosphere: 1. Review of theory
Howard, T.A. and Tappin, S.J.
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37. Interplanetary coronal mass ejections observed in the heliosphere: 3. Physical implications
Howard, T.A. and Tappin, S.J.
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38. STEREO observations of interplanetary coronal mass ejections and prominence deflection during solar minimum period
Kilpua, E. K. J.; Pomoell, J.; Vourlidas, A.; Vainio, R.; Luhmann, J.; Li, Y.; Schroeder, P.; Galvin, A. B.; Simunac, K.
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Jackson, B.V., Hick, P.P., Buffington, A., Bisi, M.M., Clover, J.M.
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40. Study of the 2007 April 20 CME-Comet interaction event with an MHD model
Jia, Y.D., Russell, C.T., Jian, L.K., Manchester, W.B., Cohen, O., Vourlidas, A., Hansen, K.C., Combi, M.R. and Gombosi, T.I.,
2009, Astrophys. J. 696, L56.
41. Deriving the radial distances of wide coronal mass ejections from elongation measurements in the heliosphere – application to CME-CME interaction
Lugaz, N., Vourlidas, A., Roussev, I.I.
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43. Reconstructing the 3-D trajectories of CMEs in the inner heliosphere
Maloney, S.A., Gallagher, P.T., McAteer, R.T.J.
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Morrill, J.S., Howard, R.A., Vourlidas, A., Webb, D.F., Kunkel, V.
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Odstracil, D., Pizzo, V.J.

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Pick, M., Kerdraon, Auchere, F., Stenborg, G.

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48. A solar storm observed from the Sun to Venus using the STEREO, Venus Express, and MESSENGER spacecraft

Rouillard, A.P., Davies, J.A., Forsyth, R.J., Savani, N.P., Sheeley, N.R., Thernisien, A., Zhang, T.-L., Howard, R.A., Anderson, B., Carr, C.M., Tsang, S., Lockwood, M., Davis, C.J., Harrison, R.A., Bewsher, D., Franz, M., Crothers, S.R., Eyles, C.J., Brown, D.S., Whittaker, I., Hapgood, M., Coates, A.J., Jones, G.H., Grande, M., Frahm, R.A., Winningham, J.D.

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49. A multi-spacecraft analysis of a small scale transient entrained by solar wind streams

Rouillard, A.P., Savani, N., Davies, J.A., Lavraud, B., Forsyth, R.J., Morley, S.K., Opitz, A., Sheeley, N.R., Sauvaud, J.-A., Simunac, K.D.C., Luhmann, J.G., Galvin, A.B., Crothers, S.R., Davis, C.J., Harrison, R.A., Lockwood, M., Eyles, C.J., Bewsher, D., Brown, D.S.

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Savani, N.P., Rouillard, A.P., Davies, J.A., Owens, M.J., Forsyth, R.J., Davis, C.J., Harrison, R.A.

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51. The structure of streamer blobs

Sheeley, N.R., Lee, D.D.-H., Casto, K.P., Wang, Y.-M. and Rich, N.B.

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52. STEREO SECCHI and S/WAVES observations of spacecraft debris caused by micron-sized interplanetary dust impacts

St Cyr, O.C., Kaiser, M.L., Meyer-Vernet, N., Howard, R.A., Harrison, R.A., Bale, S., Thompson, W.T., Goetz, K., Wang, D., Crothers, S.,

2009, Solar Phys. 256, 475.

53. Direct observation of a corotating interaction region by three spacecraft

Tappin, S.J. and Howard, T.A.

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54. Interplanetary coronal mass ejections observed in the heliosphere: 2. Model and data comparison

Tappin, S.J. and Howard, T.A.

2009, Space Sci. Rev. 147, 55.

55. An analytical model probing the internal state of coronal mass ejections based on observations of their expansions and propagations

Wang, Y., Zhang, J., Shen, C.

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56. Study of CME propagation in the inner heliosphere: SOHO LASCO, SMEI and STEREO HI observations of the January 2007 events

Webb, D.F., Howard, T.A., Fry, C.D., Kuchar, T.A., Odstrcil, D., Jackson, B.V., Bisi, M.M., Harrison, R.A., Morrill, J.S., Howard, R.A., Johnston, J.C.

2009, Solar Phys. 256, 239.

57. Deriving solar transient characteristics from single spacecraft STEREO/HI elongation variations: a theoretical assessment of the technique

Williams, A.O., Davies, J.A., Milan, S.E., Rouillard, A.P., Davis, C.J., Perry, C.H., Harrison, R.A.

2009, Annales Geophysicae 27, 4359.

58. An empirical reconstruction of the 2008 April 26 coronal mass ejection

Wood, B.E., Howard, R.A.

2009, Astrophys. J. 702, 901.

59. Comprehensive observations of a solar minimum solar coronal mass ejection with the Solar terrestrial Relations Observatory

Wood, B.E., Howard, R.A., Plunkett, S.P., Socker, D.G.

2009, Astrophys. J. 694, 707.

60. Reconstructing the 3D morphology of the 17 May 2008 CME

Wood, B.E., Howard, R.A., Thernisien, A., Plunkett, S.P., Socker, D.G.

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2010

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Bewsher, D., Brown, D.S., Eyles, C.J., Kellett, B.J., White, G.J., Swinyard, B.M.

2010, Solar Physics, 264, 433

62. Interplanetary Scintillation Observations of Stream Interaction Regions in the Solar Wind

Bisi, M.M., Fallows, R.A., Breen, A.R., O'Neill, I.J.

2010, Solar Physics 261, 149

63. Propagation of an Earth-directed coronal mass ejection in three dimensions

Byrne, J.P., Maloney, S.A., McAteer, R.T.J., Refojo, J.M., Gallagher, P.T.

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Clover, John M., Jackson, Bernard V., Buffington, Andrew, Hick, P. Paul, Bisi, Mario M.

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65. Assessing the accuracy of CME Speed and Trajectory Estimates from STEREO Observations Through a Comparison of Independent Methods

Davis, C. J., Kennedy, J., Davies, J. A.,
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66. Transient Structures and Stream Interaction Regions in the SolarWind: Results from EISCAT Interplanetary Scintillation, STEREO HI and *Venus Express* ASPERA-4 Measurements
Dorrian, G.D., Breen, A.R., Davies, J.A., Rouillard, A.P., Fallows, R.A., Whittaker, I.C., Brown, D.S., Harrison, R.A., Davis, C.J., Grande, M.
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Harrison, R.A., Davis, C.J., Bewsher, D., Davies, J.A., Eyles, C.J., Crothers, S.R.
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68. A Heliospheric Imager for deep space: Lessons learned from Helios, SMEI, and STEREO
Jackson, B.V., Buffington, A., Hick, P.P., Bisi, M.M., Clover, J.M.
2010, Solar Physics 265, 257

69. SMEI 3-D reconstruction of a Coronal Mass Ejection interacting with a corotating solar wind density enhancement: The 2008 April 26 CME
Jackson, B.V., Buffington, A., Hick, P.P., Clover, J.M., Bisi, M.M., Webb, D.F.
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Jewitt, David, Li, Jing
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Kunkel, V., Chen, J.
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Liu, Y., Davies, J.A., Luhmann, J.G., Bale, S.D., Lin, R.P., Vourlidas, A.
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Liu, Y.; Thernisien, A.; Luhmann, J.G.; Vourlidas, A.; Davies, J.A.; Lin, R.P.; Bale, S.D.
2010, Astrophys. J. 722, 1762

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Lynch, B. J.; Li, Y.; Thernisien, A. F. R.; Robbrecht, E.; Fisher, G. H.; Luhmann, J. G.; Vourlidas, A.
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75. Accuracy and Limitations of Fitting and Stereoscopic Methods to Determine the Direction of Coronal Mass Ejections from Heliospheric Imagers Observations
Lugaz, N.

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76. Determining the azimuthal properties of coronal mass ejections from Multi-spacecraft remote-sensing observations with STEREO SECCHI

Lugaz, N., Hernandez-Charpak, J.N., Roussev, I.I., Davis, C.J., Vourlidas, A., Davies, J.A.

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77. Solar Wind Drag and the Kinematics of Interplanetary Coronal Mass Ejections

Maloney, Shane A., Gallagher, Peter T.

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78. STEREO direct imaging of a Coronal Mass Ejection-driven shock to 0.5 AU

Maloney, Shane A., Gallagher, Peter T.

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Poomvise, W., Zhang, J., Olmedo, O.

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80. Intermittent release of small-scale transients in the slow solar wind: I, Remote sensing observations

Rouillard, A.P., Davies, J.A., Lavraud, B., Forsyth, R.J., Savani, N.P., Bewsher, D., Brown, D., Sheeley, N.R.,

Davis, C.J., Harrison, R.A., Howard, R.A., Vourlidas, A., Lockwood, M., Crothers, S.R., Eyles, C.J.,

2010, J. Geophys. Res. 115, A04103

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Rouillard, A.P., Lavraud, B., Davies, J.A., Savani, N.P., Burlaga, L.F., Forsyth, R.J., Sauvaud, J.-A., Opitz, A.,

Lockwood, M., Luhmann, J.G., Simunac, C., Galvin, A.B., Davis, C.J., Harrison, R.A.,

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Rouillard, A.P., Lavraud, B., Sheeley, N.R., Davies, J.A., Burlaga, L.F., Savani, N.P., Jacquey, C., Forsyth, R.J.

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83. STRESS: STEREO transiting exoplanet and stellar survey

Sangaralingam, V., Stevens, I.R., Spreckley, S., Debosscher, J.

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84. Observational evidence of a CME distortion directly attributable to a structured solar wind

Savani, N., Owens, M., Rouillard, A.P., Forsyth, R., Davies, J.A.

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85. Tracking Streamer Blobs into the Heliosphere

Sheeley, N. R., Jr.; Rouillard, A. P.

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86. Examining periodic Solar-Wind density structures observed in the SECCHI *Heliospheric Imagers*

Viall, N., Spence, H.E., Vourlidas, A., Howard, R.

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