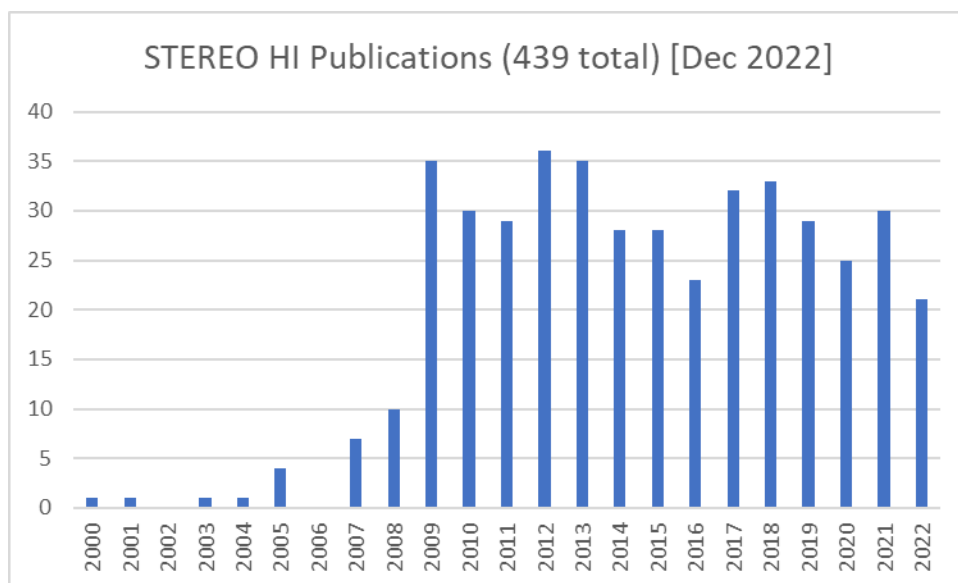


STEREO HI – Publications (December 2022)

Analysis of publications – All publications are full papers which include aspects of STEREO/HI observations/analysis or instrumentation: To date, this includes 439 papers. Also, some 19 PhD theses from the UK and Ireland are known to the PI team. *Note that not all users are 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	25
2021	30
2022*	21
TOTAL	439



- The HI instrument paper (no 30), HI first-light paper (no. 18) and the STEREO SECCHI instrument paper (no 19) have been cited 289, 80 and 1342 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 8 November 2022]

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.

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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.
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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.
2008, *Astrophys. J. Lett.* 684, L111.

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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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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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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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., Vourlidis, A., Webb, D.F., Brown, D.S., Dorrian, G.
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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)
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36. Interplanetary coronal mass ejections observed in the heliosphere: 1. Review of theory
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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.
2009, Ann. Geophys. 27, 4491
39. SMEI direct, 3D-reconstruction sky maps and volumetric analyses, and their comparison with SOHO and STEREO observations
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.,
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Möstl, C., Farrugia, C.J., Temmer, M., Miklenic, C., Veronig, A.M., Galvin, A.B., Leitner, M., Biernat, H.K.
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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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47. Coronal and interplanetary structures associated with Type III bursts

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

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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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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.,

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

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

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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

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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.

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

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

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

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

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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
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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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