STEREO HI – Publications (September 2017)

Analysis of publications – All publications are full papers which include aspects of STEREO/HI observations/analysis or instrumentation: To date, this includes 298 papers, and 15 PhD theses from the UK and Ireland, known to the PI group.

Year	No. Papers (UK/Irish PhDs)
2000	1
2001	1
2002	0
2003	1
2004	1
2005	4
2006	0
2007	7
2008	10
2009	35 (1)
2010	30 (4)
2011	30 (1)
2012	38 (2)
2013	35 (4)
2014	31
2015	27 (3)
2016	21
2017*	26
TOTAL	298 (15)

- UK and Irish author institutes involved in publications in the last 5 years include: RAL, the universities of Aberystwyth, Birmingham, Central Lancashire, Leicester, Liverpool John Moores, 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.

- The 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; D. Oyuzar, Birmingham, 2015.

- The HI first-light paper (no. 16), the HI instrument paper (no 28) and the STEREO SECCHI instrument paper (no 20) have been cited 70, 186 and 807 times, respectively.

** Including in press*

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. 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.

6. STEREO/HI – from near-Earth objects to 3D comets
Davis, C.J. and Harrison, R.A.
2005, Adv. Space Research 36, 1524.

7. Solar Encounter, Solar-B and STEREO
Harra, L.K., Culhane, J.L and Harrison, R.A. (Editors)
2005, Adv. Space Research volume 36.

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. 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]

10. Magnetic coupling of the Sun-Earth system: The view from STEREO
Matthews, S.A., Culhane, J.S.
2007, Adv. Space Research 39, 1791.

11. 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.

12. 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]

13. 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.

14. Design, development and performance of the STEREO SECCHI CCD Cameras
Waltham, N.R., Eyles, C.J.,
2007, Proc. SPIE 6689, 6689.

15. 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.

2008

16. 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]

17. 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.
2008, Astrophys. J. 674, L109.

18. 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.
2008, Astrophys. J. 675, 853.

19. 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.
2008, Geophys. Res. Lett. 35, L10110.

20. 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.

21. STEREO Space Weather and the Space Weather Beacon
Biesecker, D.A., Webb, D.F., St Cyr, O.C.,
2008, Space Sci. Rev. 136, 45.

22. 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.
2008, J. Atmosph. And Solar Terr. Phys. 70, 598.

23. 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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Howard, T.A. and Tappin, S.J.
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26. Calibrating the pointing and optical parameters of the STEREO Heliospheric Imagers
Brown, D.S., Bewsher, D., Eyles, C.J.
2009, Solar Phys. 254, 185.

27. 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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30. STEREO SECCHI and S/WAVES observations of spacecraft debris caused by micron-sized interplanetary dust impacts
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31. 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.

32. 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.
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33. 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.
2009, Solar Phys. 256, 307.

34. Coronal mass ejection: Key issues
Harrison, R.A.
2009, Proc. IAU Symp. 257, 'Universal Heliophysical Processes', eds N. Gopalswamy, D. Webb, Cambridge Univ. Press. ISSN 1743-9213, 191. *[invited review]*

35. A journey through the L4/L5 gravity wells
Harrison, R.A.
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38. Solar-terrestrial simulation in the STEREO era: The 24-25 January 2007 eruptions
Lugaz, N., Vourlidas, A., Roussev, I.I., Morgan, H.
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39. 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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40. Coronal and interplanetary structures associated with Type III bursts
Pick, M., Kerdraon, Auchere, F., Stenborg, G.
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41. The structure of streamer blobs
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43. 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.
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44. 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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45. Direct observation of a corotating interaction region by three spacecraft
Tappin, S.J. and Howard, T.A.
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46 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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Lugaz, N., Vourlidas, A., Roussev, I.I.
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48. An empirical reconstruction of the 2008 April 26 coronal mass ejection
Wood, B.E., Howard, R.A.
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49. 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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50. Interplanetary coronal mass ejections observed in the heliosphere: 1. Review of theory
Howard, T.A. and Tappin, S.J.
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51. Interplanetary coronal mass ejections observed in the heliosphere: 2. Model and data comparison
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52. Signatures of interchange reconnection: STEREO, ACE and Hinode observations combined
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55. The radial width of a Coronal Mass Ejection between 0.1 and 0.4 AU estimated from the Heliospheric Imager on STEREO
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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