

# STEREO WAVES Journal Publications

## 2010

1. Eastwood, J. P., M. S. Wheatland, H. S. Hudson, S. Krucker, S. D. Bale, M. Maksimovic, K. Goetz, and J.-L. Bougeret. On the brightness and waiting-time distributions of a type III radio storm observed by STEREO/WAVES. *Astrophysical Journal Letters*, in press.
2. Henri, P., Califano, F., Briand, C. & Mangeney, A. Vlasov-Poisson Simulations of electrostatic parametric instability for localized Langmuir wave packets in the solar wind. *Journal of Geophysical Research (Space Physics)*, in press.
3. Malaspina, D. M., I. H. Cairns, & R. E. Ergun. The 2fp radiation from localized Langmuir waves. *Journal of Geophysical Research (Space Physics)* **115**, A01101, doi:10.1029/2009JA014609 (2010).
4. Panchenko, M., H. O. Rucker, M. L. Kaiser, O. C. St. Cyr, J.-L. Bougeret, K. Goetz, & S. D. Bale, New periodicity in Jovian decametric radio emission. *Journal of Geophysical Research (Space Physics)*, in press.
5. Zouganelis, I., M. Maksimovic, N. Meyer-Vernet, S.D. Bale, J. Eastwood, A. Zaslavsky, M. Dekkali, K. Goetz, M.L. Kaiser. Measurements of stray antenna capacitance in the STEREO/WAVES instrument: comparison of the radio voltage spectrum with the modeled electron shot noise collected on the antennas. *Radio Science*, in press.

## 2009

1. Eastwood, J. P. *et al.* Measurements of stray antenna capacitance in the STEREO/WAVES instrument: Comparison of the radio frequency voltage spectrum with models of the galactic nonthermal continuum spectrum. *Radio Science* **44**, 4012 (2009).
2. Gopalswamy, N. *et al.* Relation Between Type II Bursts and CMEs Inferred from STEREO Observations. *Solar Physics*, **259**, 227 (2009).
3. Henri, P. *et al.* Evidence for wave coupling in type III emissions. *Journal of Geophysical Research (Space Physics)* **114**, 03103 (2009).
4. Kellogg, P. J. *et al.* Plasma wave measurements with STEREO S/WAVES: Calibration, potential model, and preliminary results. *Journal of Geophysical Research (Space Physics)* **114**, 02107 (2009).
5. Liu, Y., Luhmann, J. G., Bale, S. D. & Lin, R. P. Relationship Between a Coronal Mass Ejection-Driven Shock and a Coronal Metric Type II Burst. *Astrophysical Journal* **691**, L151-L155 (2009).
6. Meyer-Vernet, N. *et al.* Dust Detection by the Wave Instrument on STEREO: Nanoparticles Picked up by the Solar Wind? *Solar Physics* **256**, 463-474 (2009).
7. Malaspina, D. M., B. Li, I. H. Cairns, P. A. Robinson, Z. Kuncic, & R. E. Ergun, Terrestrial foreshock Langmuir waves: STEREO observations, theoretical

- modeling, and quasi-linear simulations. *Journal of Geophysical Research (Space Physics)* **114**, A12101, doi:10.1029/2009JA014493 (2009).
8. Oswald, T. H. *et al.* Various methods of calibration of the STEREO/WAVES antennas. *Advances in Space Research* **43**, 355-364 (2009).
  9. Panchenko, M. *et al.* Daily variations of auroral kilometric radiation observed by STEREO. *Geophysical Research Letters* **36**, 06102 (2009).
  10. Pick, M. *et al.* Coronal and Interplanetary Structures Associated with Type III Bursts. *Solar Physics* **256**, 101-110 (2009).
  11. Reiner, M. J. *et al.* Multipoint Observations of Solar Type III Radio Bursts from STEREO and Wind. *Solar Physics* **259**, 255 (2009).
  12. St. Cyr, O. C. *et al.* STEREO SECCHI and S/WAVES Observations of Spacecraft Debris Caused by Micron-Size Interplanetary Dust Impacts. *Solar Physics* **256**, 475-488 (2009).

## 2008

1. Bale, S. D. *et al.* The Electric Antennas for the STEREO/WAVES Experiment. *Space Science Reviews* **136**, 529-547 (2008).
2. Bougeret, J. L. *et al.* S/WAVES: The Radio and Plasma Wave Investigation on the STEREO Mission. *Space Science Reviews* **136**, 487-528 (2008).
3. Cattell, C. *et al.* Discovery of very large amplitude whistler-mode waves in Earth's radiation belts. *Geophysical Research Letters* **35**, 01105 (2008).
4. Cecconi, B. *et al.* STEREO/Waves Goniopolarimetry. *Space Science Reviews* **136**, 549-563 (2008).
5. Ergun, R. E., Malaspina, D. M., Cairns, I. H., Goldman, M. V., Newman, D. L., Robinson, P. A., *et al.* (2008). Eigenmode Structure in Solar-Wind Langmuir Waves. *Phys. Rev. Lett.*, **101**, 051101.
6. Kaiser, M. L. *et al.* The STEREO Mission: An Introduction. *Space Science Reviews* **136**, 5-16 (2008).
7. Kellogg, P. J. Measuring Electric Field and Density Turbulence in the Solar Wind. AIP Conference Proceedings (Particle Acceleration and Transport in the Heliosphere and Beyond), Volume 1039, 87-92 (2008).
8. Krucker, S. *et al.* Coronal Hard X-Ray Emission Associated with Radio Type III Bursts. *Astrophysical Journal* **681**, 644-649 (2008).
9. Liu, Y. *et al.* A Comprehensive View of the 2006 December 13 CME: From the Sun to Interplanetary Space. *Astrophysical Journal* **689**, 563-571 (2008).
10. Malaspina, D. M. & Ergun, R. E. Observations of three-dimensional Langmuir wave structure. *Journal of Geophysical Research (Space Physics)* **113**, 12108 (2008).

## 2007

1. Cecconi, B. Influence of an extended source on Goniopolarimetry (or Direction Finding) with Cassini and STEREO radio receivers. *Radio Science* **42**, 1-17 (2007).

2. Florens, M. S. L., Cairns, I. H., Knock, S. A. & Robinson, P. A. Data-driven solar wind model and prediction of type II bursts. *Geophysical Research Letters* **34**, 04104 (2007).
3. Macher, W., Oswald, T. H., Fischer, G. & Rucker, H. O. Rheometry of multi-port spaceborne antennas including mutual antenna capacitances and application to STEREO/WAVES. *Measurement Science and Technology* **18**, 3731-3742 (2007).

## 2005

1. Cecconi, B. & Zarka, P. Direction finding and antenna calibration through analytical inversion of radio measurements performed using a system of two or three electric dipole antennas on a three-axis stabilized spacecraft. *Radio Science* **40**, 3003 (2005).
2. Kaiser, M. L. The STEREO mission: an overview. *Advances in Space Research* **36**, 1483-1488 (2005).
3. Rucker, H. O. *et al.* Analysis of spacecraft antenna systems: Implications for STEREO/WAVES. *Advances in Space Research* **36**, 1530-1533 (2005).