

UNH

Reconstruction of magnetic clouds with two spacecraft: Examples from WIND-ACE and STEREO-WIND



¹Institute of Physics, University of Graz, Universitätsplatz 5, A-8010 Graz, Austria ³Space Science Center and Dept, of Physics, University of New Hampshire, Durham, NH 03824, USA (e-mail: moestlch@stud.uni-graz.at)

²Space Research Institute, Austrian Academy of Sciences, Schmiedlstr. 6, A-8042 Graz, Austria ⁴Space Sciences Laboratory, University of California, Berkeley, 7 Gauss Way, Berkeley, CA, USA ⁵NASA Goddard Space Flight Center, Greenbelt, MD 20771, USA





EGU General Assembly Vienna 2008



Magnetic fluxes, orientations etc. are more robust, important in relating magnetic clouds to their associated flares and CMEs (e.g. Leamon et al. 2004; Qiu et al., 2007; Longcope et al., 2007; Möstl et al., 2008).

motion - expected from

theory (Riley & Crooker,

2004).

numerical simulations and

(7) Magnetic field map arrows are s/c trajectories (6) WIND: Magnetic field and plasma data (upper WIND, lower ACE)

563, 1998. Hau, L.-N., Sonnerup, B.U.Ö., JGR., 104, 6899-Möstl, C., et al., Ann. Geophys., in press, 200 Qiu J et al ApJ 659 758 2007 Hu O Sepperup B U Ö IGR 107 10-1 2002 Riley, P. and Crooker, N.U., ApJ, 600, 103 Leamon, R. J., et al., JGR, 109, 5106, 2004.

J. F. is a Co-I on STEREO PLASTIC. This work is supported b NASA WIND/SWE and MFI gran NNG06GC75G, NNG06GD41G and Sonnerup, B.U.Ö. et al., GRL, 31, 11, 803 NNX08AD11G



6918, 1999

Lepping, R. P., et al., Space Sci. Rev., 71, 207, 1995

Liu, Y., Luhmann, J.G., et al. ApJL, 2008