

SWG 2010 Spring, Dublin, Ireland

Exploitation of the combined IMPACT and PLASTIC data

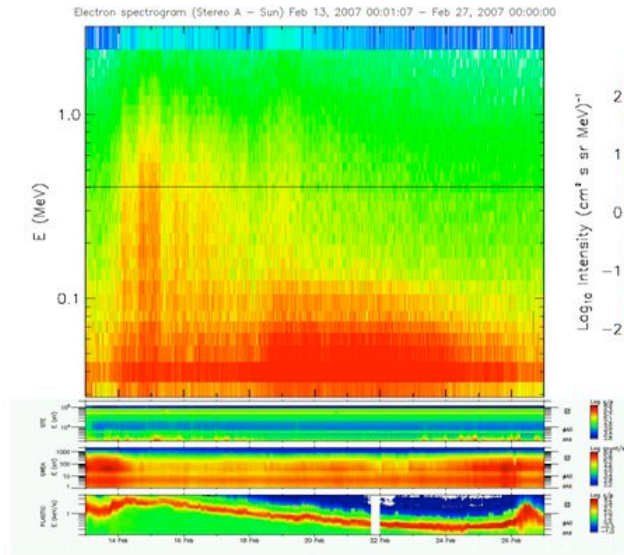
Andrea Opitz (*CESR, Toulouse, France*)

IMPACT and PLASTIC team

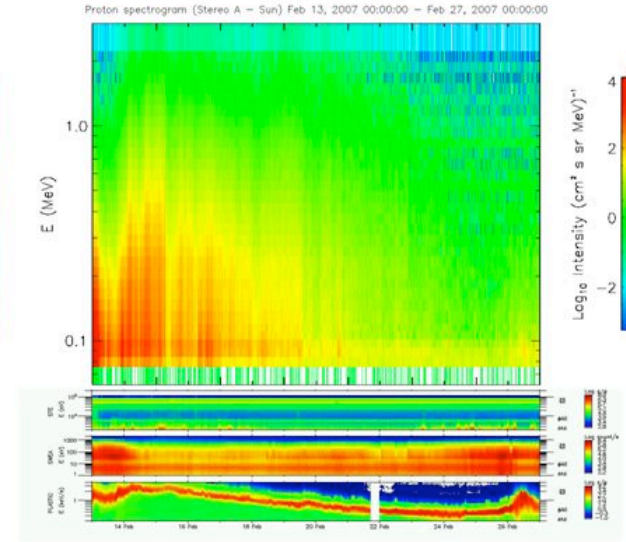
Opitz & Gomez

SEPT
STE
SWEA
PLASTIC

Electrons

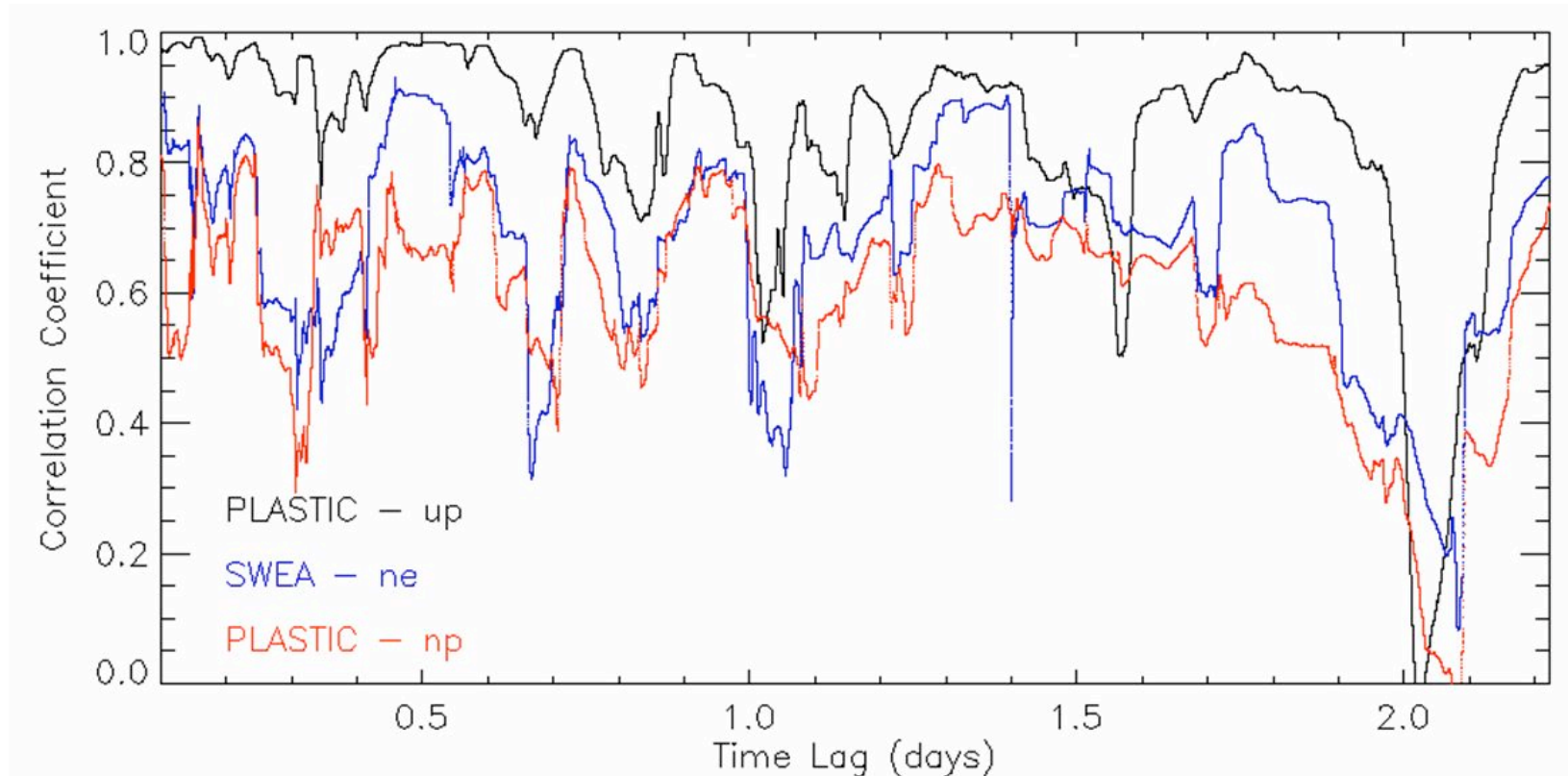


Protons



- terrestrial magnetosphere
- SEP events

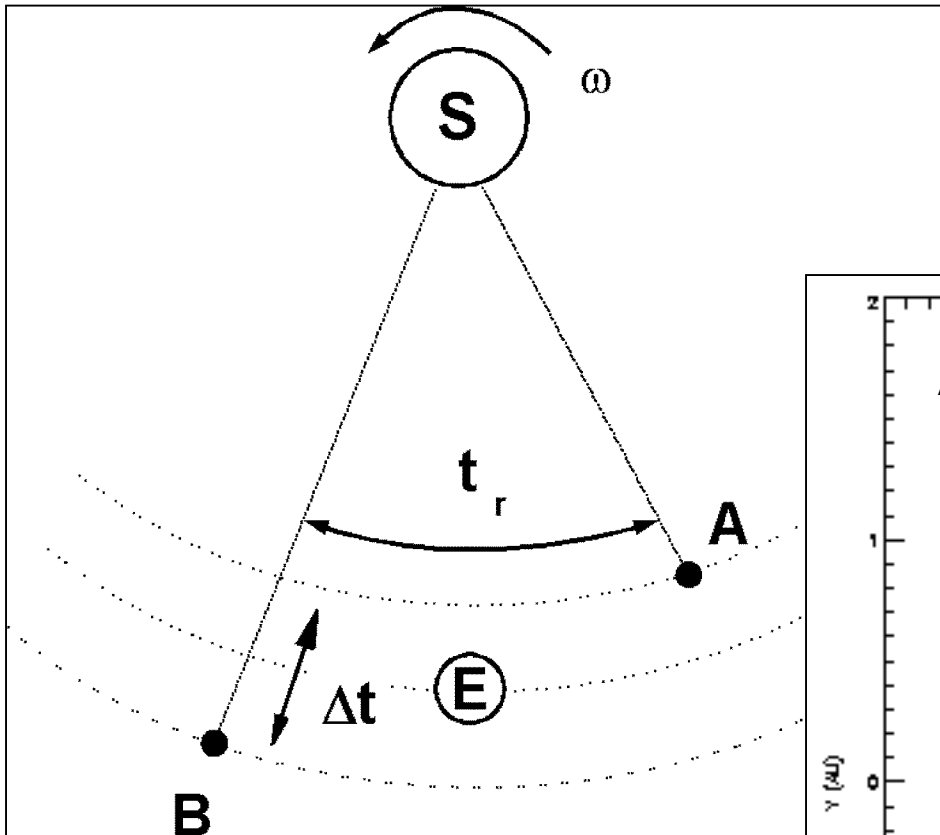
SW temporal evolution



Up: PLASTIC by UoBe, Ne: SWEA by CESR, Np: PLASTIC by UNH

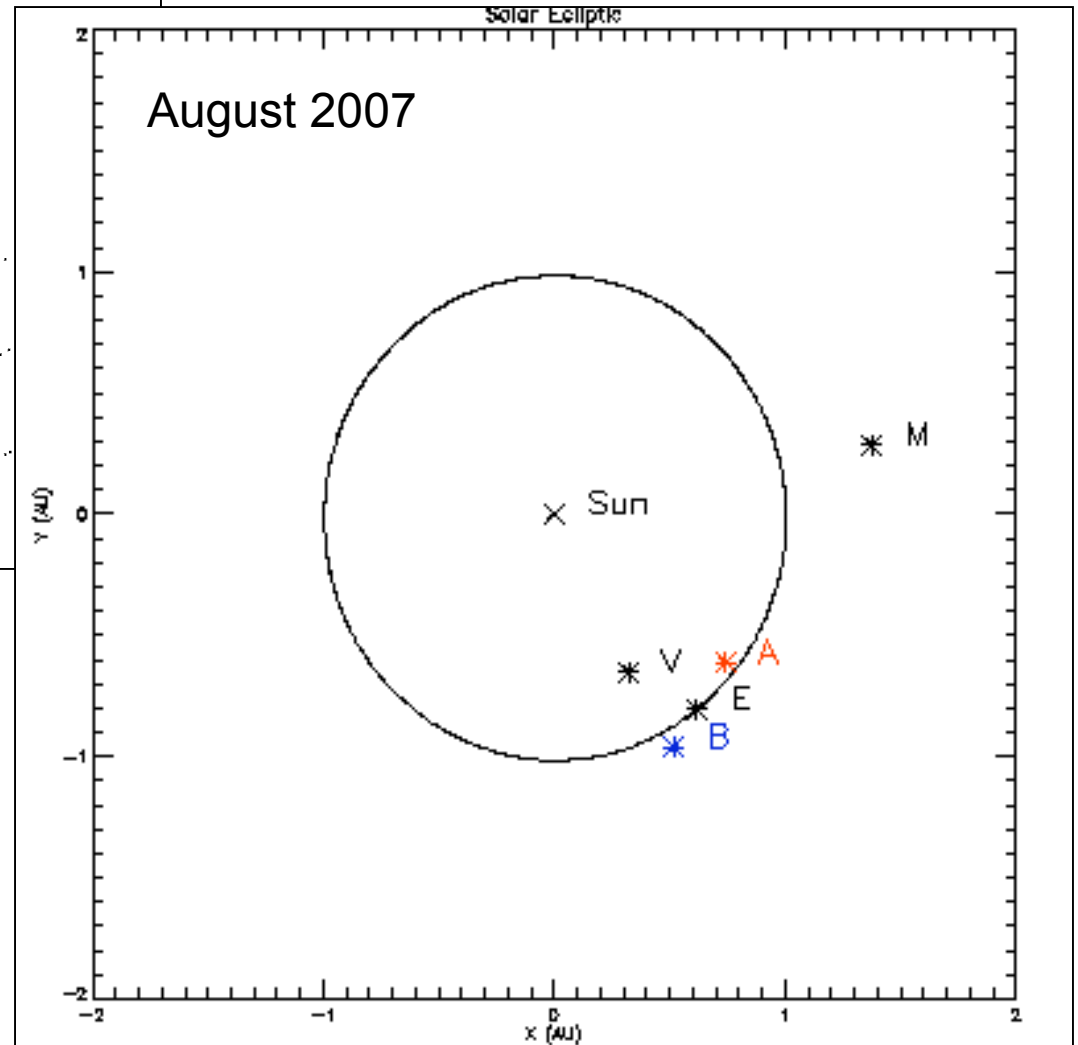
from results by Opitz et al. 2009 SolPhys and Opitz et al. 2010a, submitted at SolPhys

SW prediction for heliosphere



Opitz et al. 2009, SolPhys

Opitz et al. 2010b,
submitted at SolPhys



References

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- **Galvin A. B., et al.** *The Plasma and Suprathermal Ion Composition (PLASTIC) investigation on the STEREO observatories* Space Science Reviews, vol. 136 (1-4), p437-486, **2008**
- **Opitz A., Karrer R., Wurz P., Galvin A. B., Bochsler P., et al.** *Temporal evolution of the solar wind bulk velocity at solar minimum by correlating the STEREO A and B PLASTIC measurements* Solar Physics, vol. 256, p365 , **2009**
- **Opitz A., Sauvaud J-A., Fedorov A., Wurz P., Luhmann J. G., Lavraud B., Russell C. T., Kellogg P., Briand C., Henri P., Malaspina D. M., Louarn P., Curtis D. W., Penou E., Karrer R., Galvin A. B., Larson D. E., Dandouras I., and Schroeder P.** *Temporal evolution of the solar wind electron core density at solar minimum by correlating the STEREO A and B SWEA measurements* Solar Physics, submitted, **2010a**
- **Opitz A., Fedorov A., Wurz P., Szego K., Sauvaud J-A., Karrer R., Galvin A. B., Barabash S., and Ipavich F.** *Solar wind bulk velocity throughout the inner heliosphere from multi-spaceraft measurements* Solar Physics, submitted, **2010b**