

Introduction to Solar Wind at 1 AU

SWFO-L1

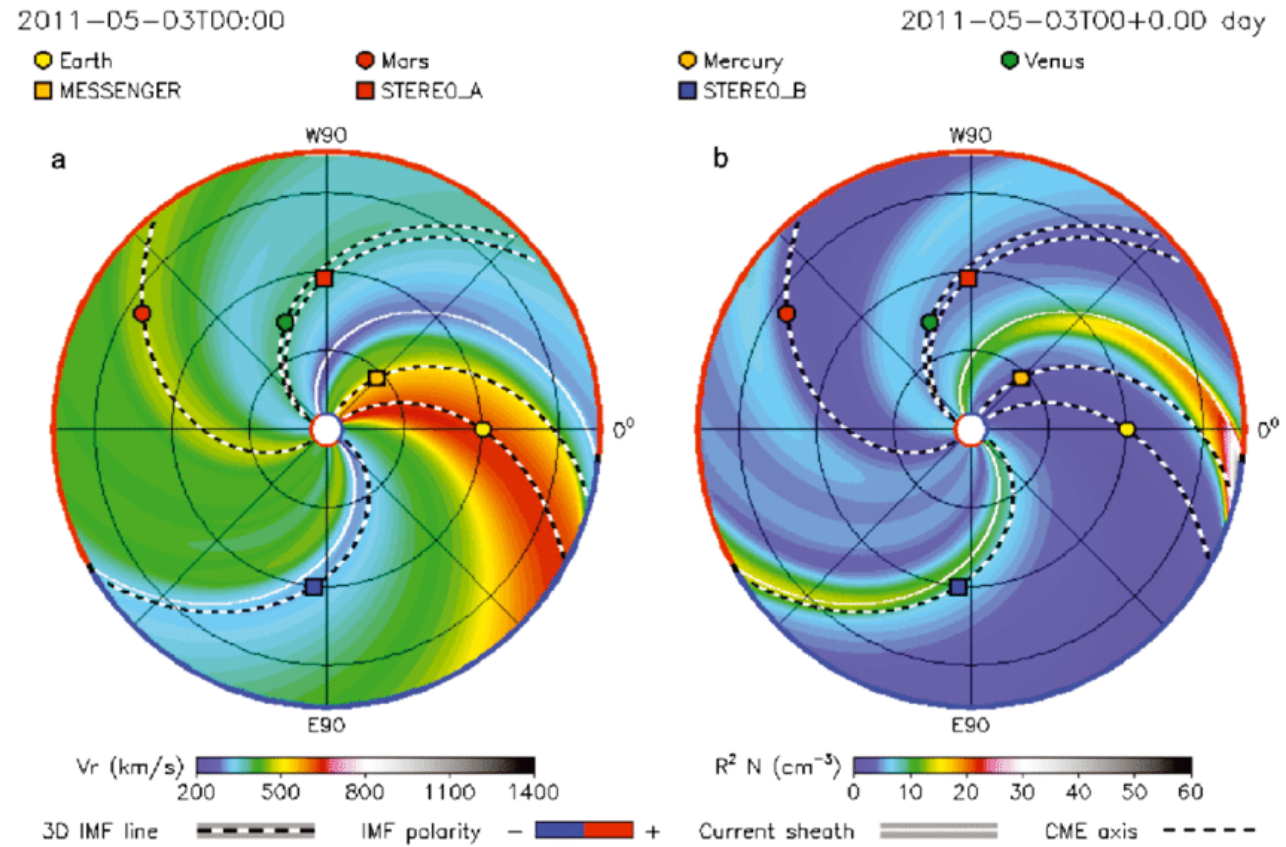
Adam Szabo
NASA GSFC

Pre-Launch Science Meeting
Sept 21, 2025

Large-Scale Structure of the Solar Wind

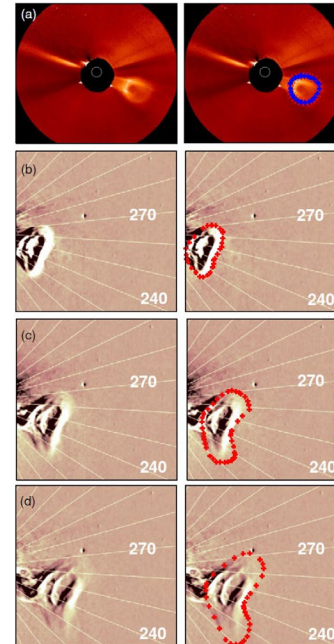
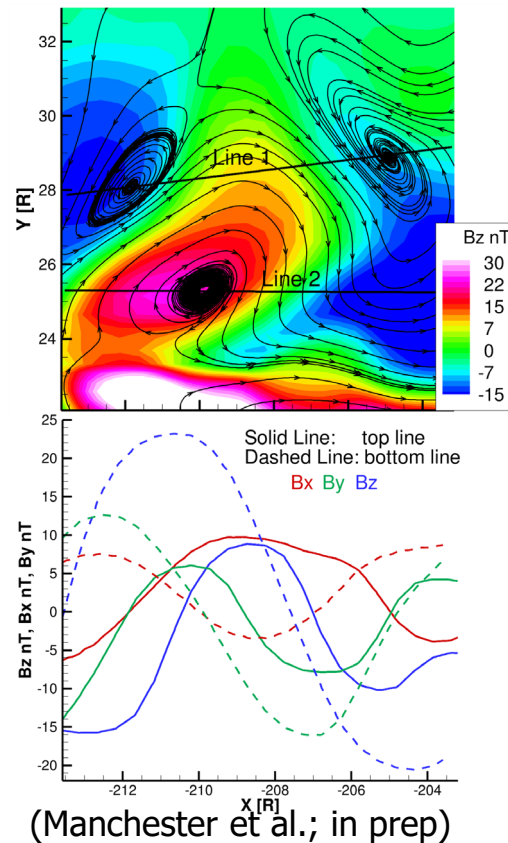
SWFO-L1 will be monitoring the solar wind impinging on the Earth system.

It will observe high speed streams and embedded CMEs.



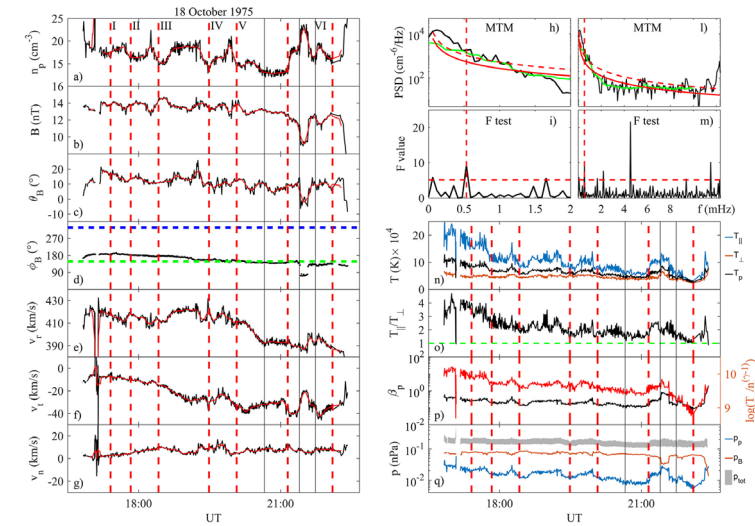
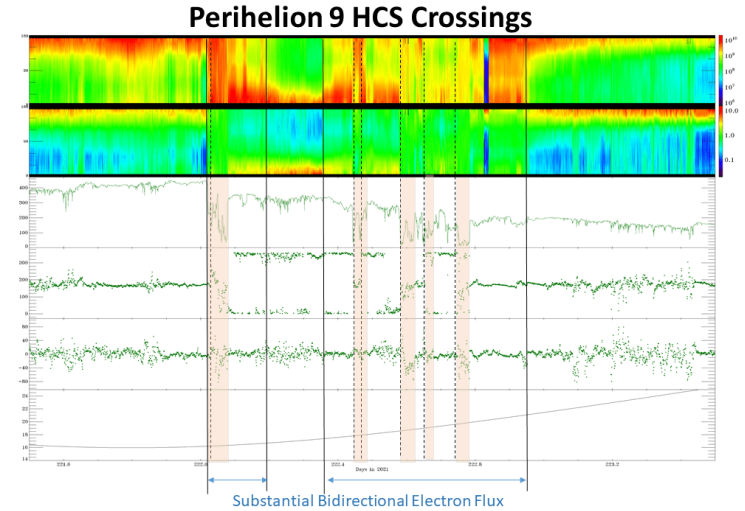
Solar Wind Small-Scale Structures

SWFO-L1, IMAP, ACE, Wind, and DSCOVR observations will provide a unique combined view.



CME Distortion
STEREO observations
2007 Nov 15
Savani et al., 2010

PSP



Periodic Density Structures
Helios, Di Mateo, JGR 2018