

The solar wind's geomagnetic impact and its Sun–Earth evolution

Predictive models for space weather and for the Parker Solar Probe orbit

PhD defense
by Malte S. Venzmer

Thursday, 1 November 2018, 14:00
Seminarraum Astrophysik (SR 17, F 05.104)
Institute for Astrophysics
Georg-August-Universität Göttingen

Defense committee members

Dr. Volker Bothmer
Prof. Dr. Ansgar Reiners
Prof. Dr. Stefan Dreizler
Prof. Dr. Wolfram Kollatschny
Prof. Dr. Hardi Peter
Prof. Dr. Andreas Tilgner

The solar wind's geomagnetic impact and its Sun–Earth evolution

Predictive models for space weather
and for the Parker Solar Probe orbit

- two topics

The solar wind's geomagnetic impact

—

Predictive models for space weather

The solar wind's Sun–Earth evolution

—

Predictive models for the Parker Solar Probe orbit

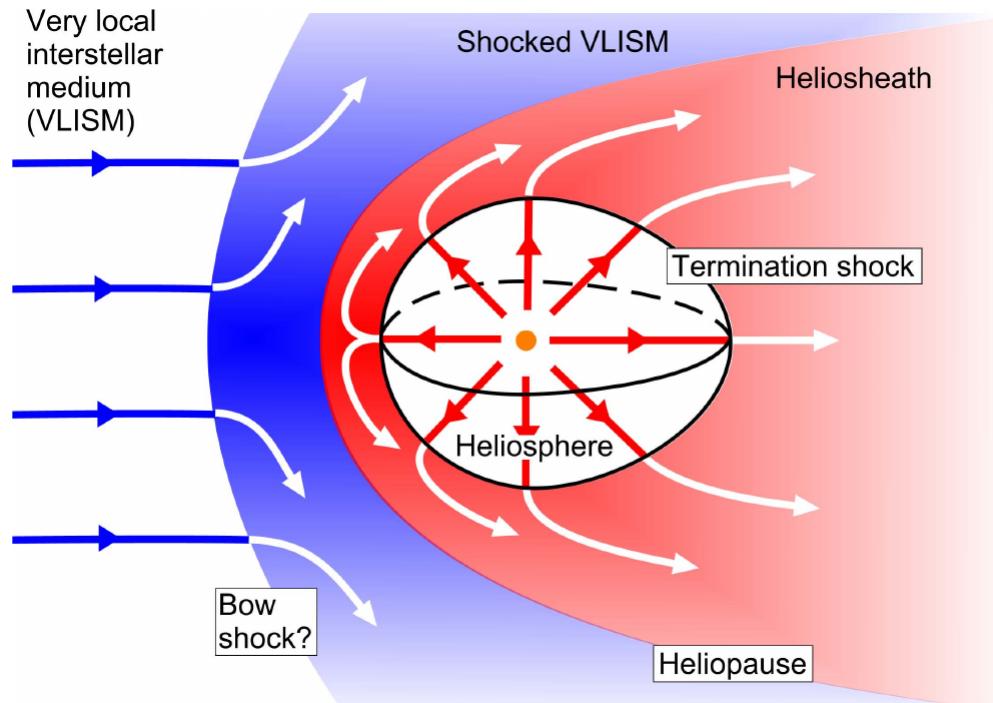
Contents

- Solar wind
- Study 1
- Study 2

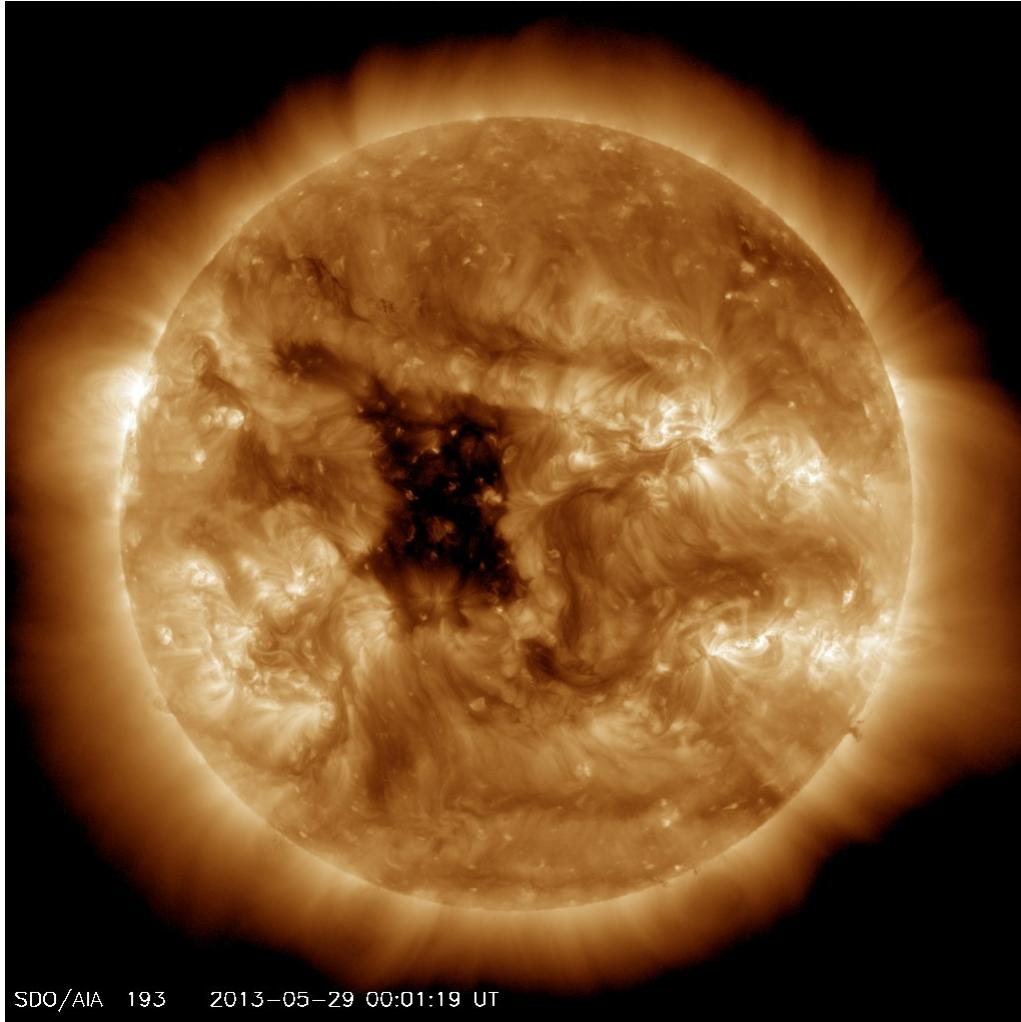
Solar wind



Solar wind

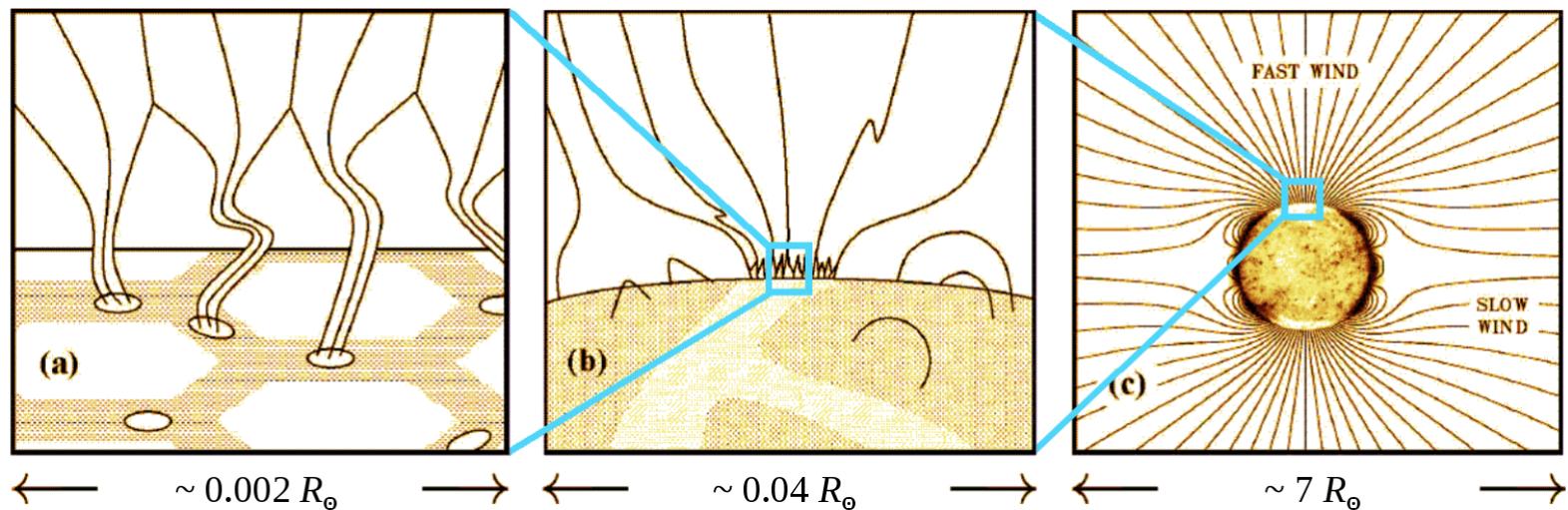


Solar wind



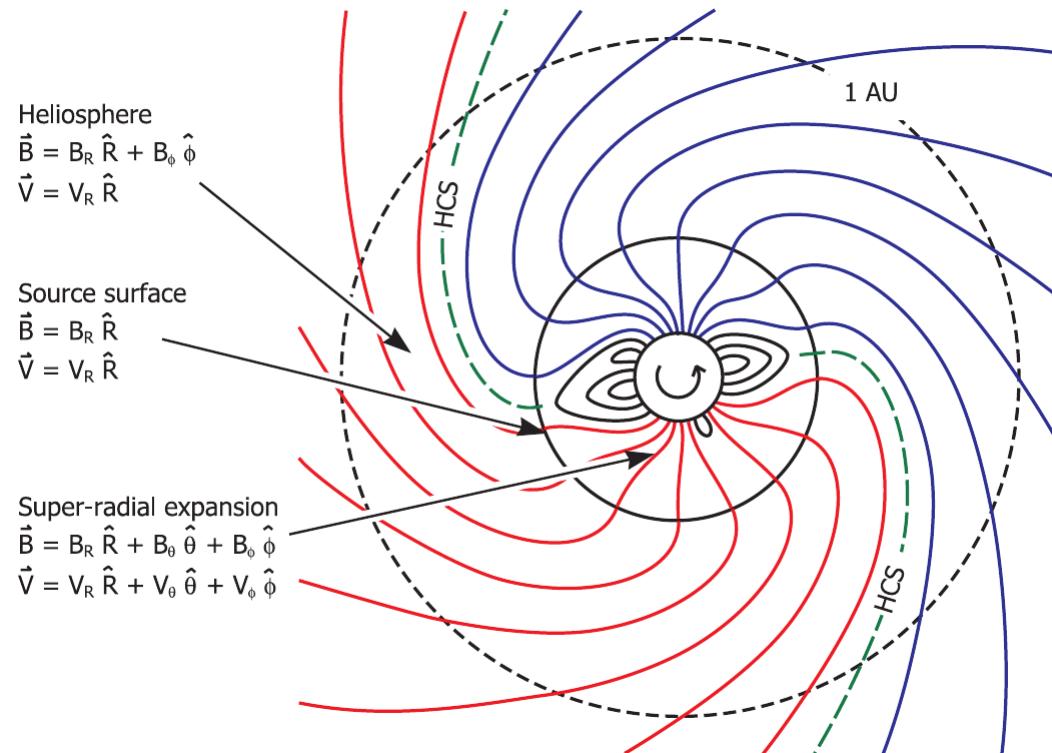
SDO/AIA 193 2013-05-29 00:01:19 UT

Solar wind

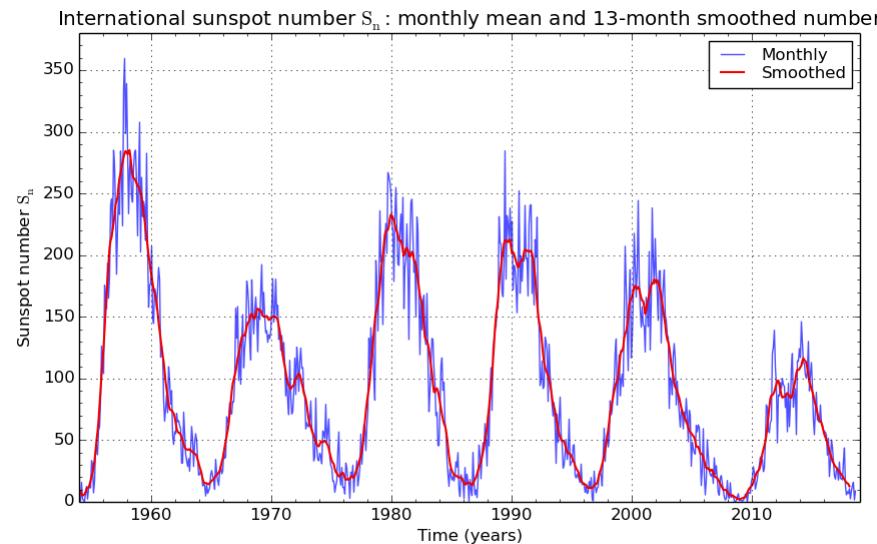


Credit: Cranmer

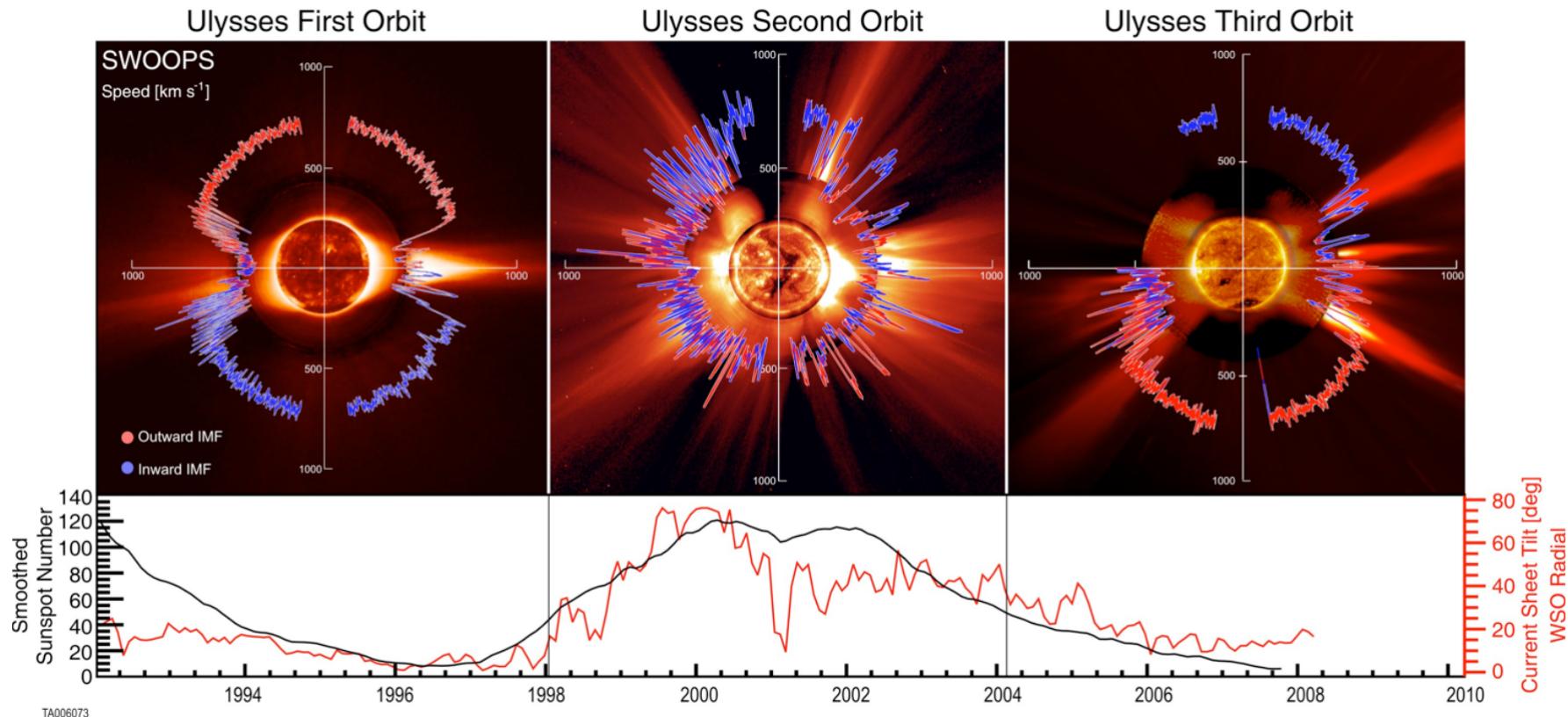
Solar wind



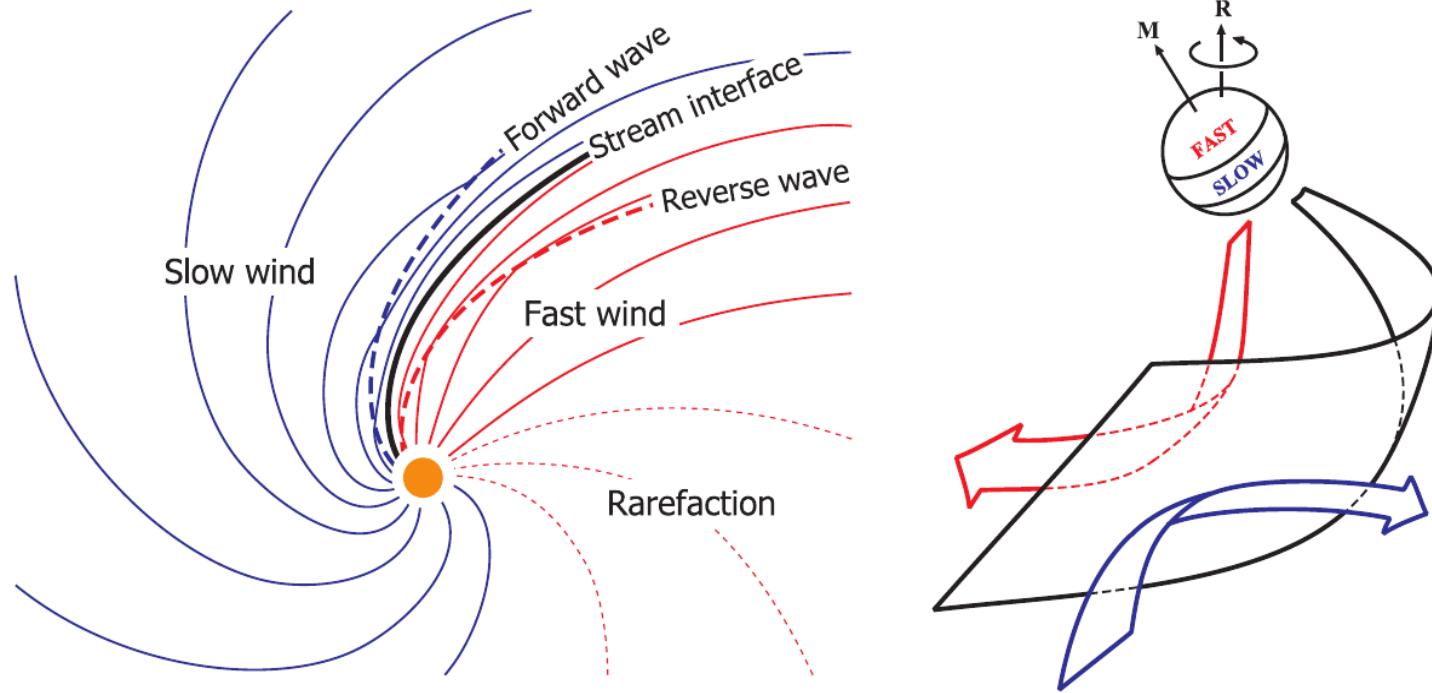
Solar wind



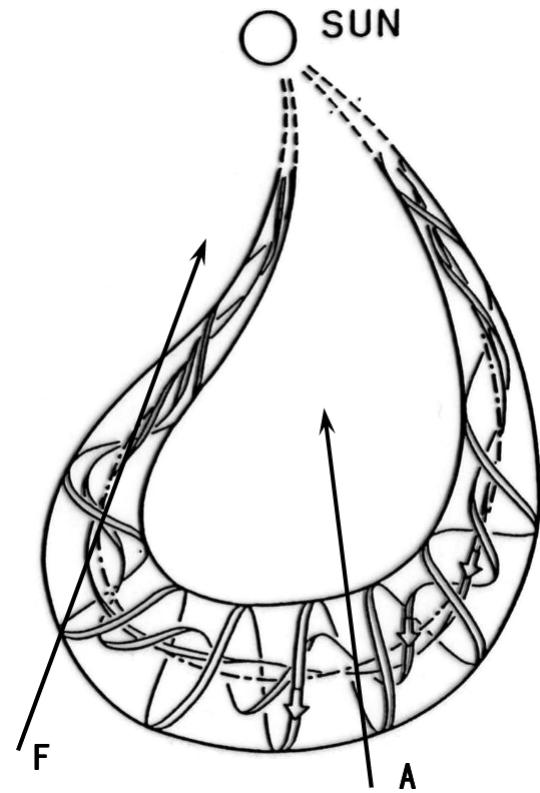
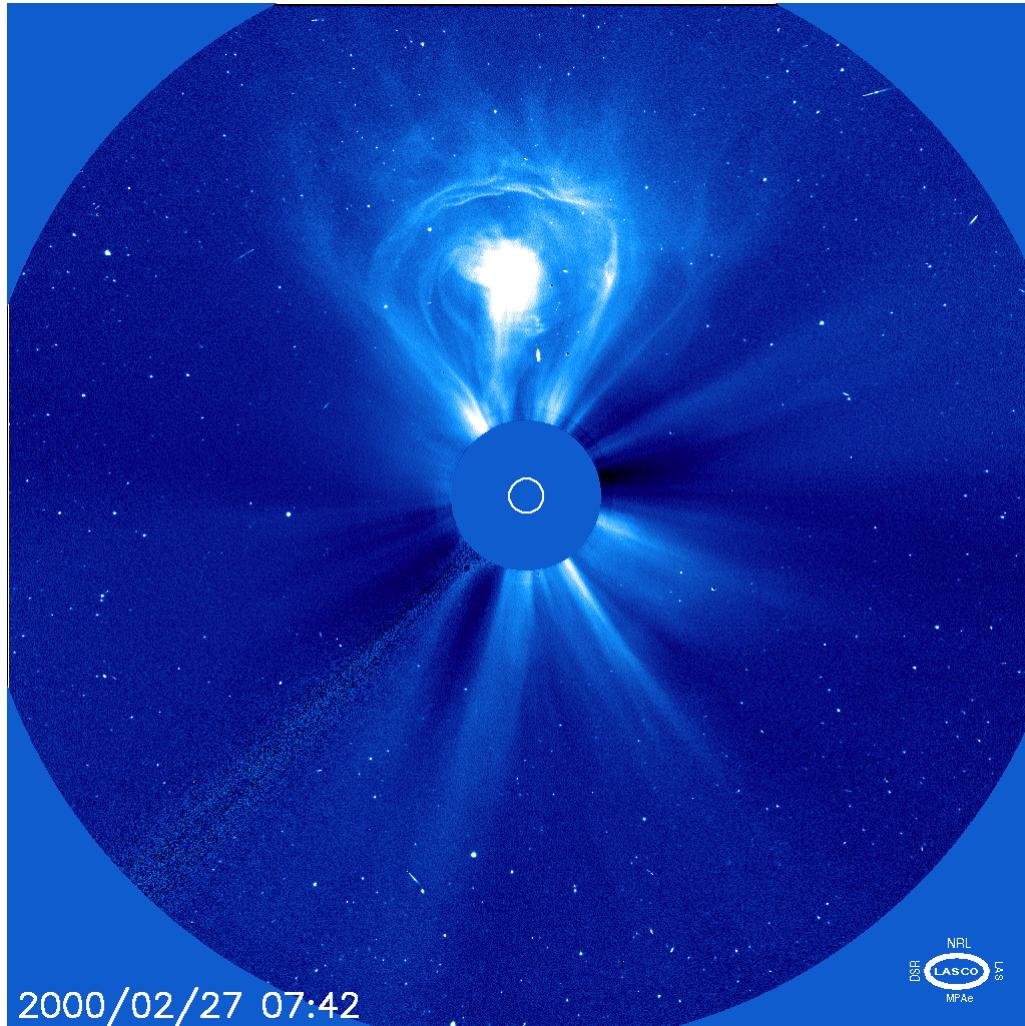
Solar wind



Solar wind

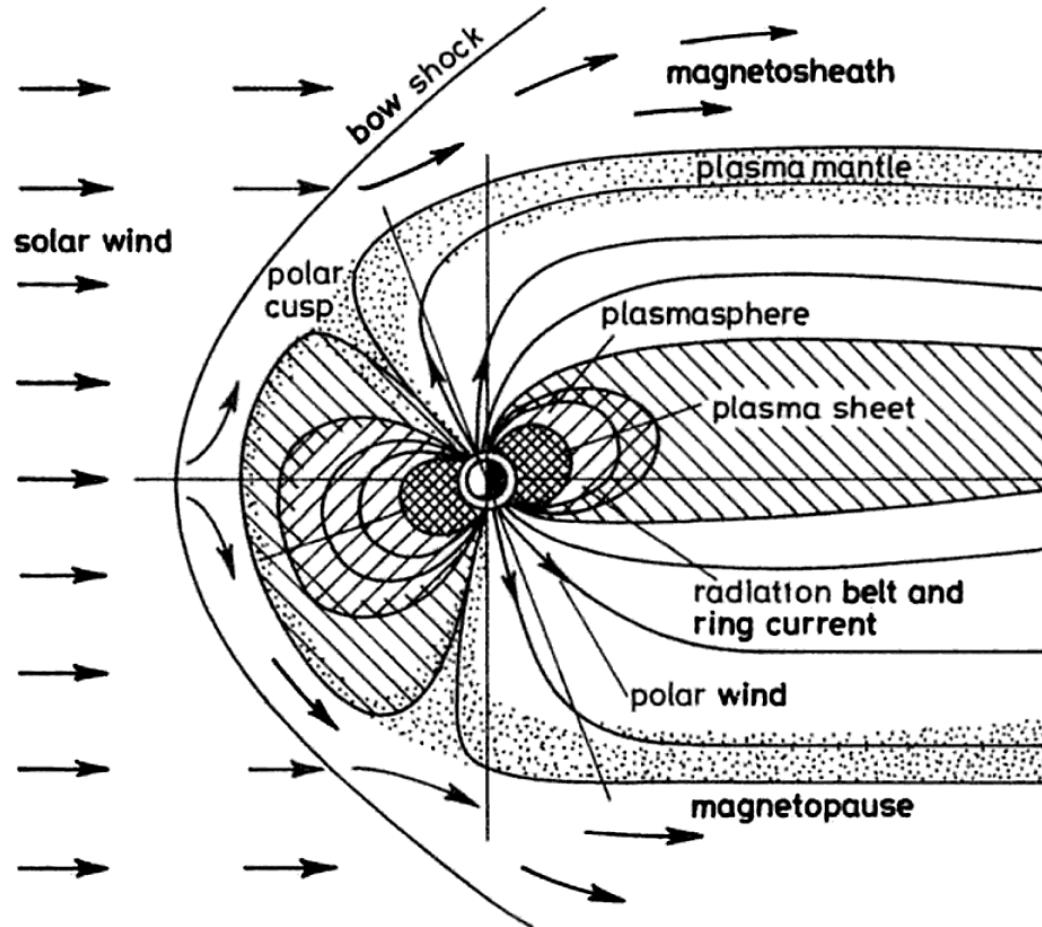


Solar wind

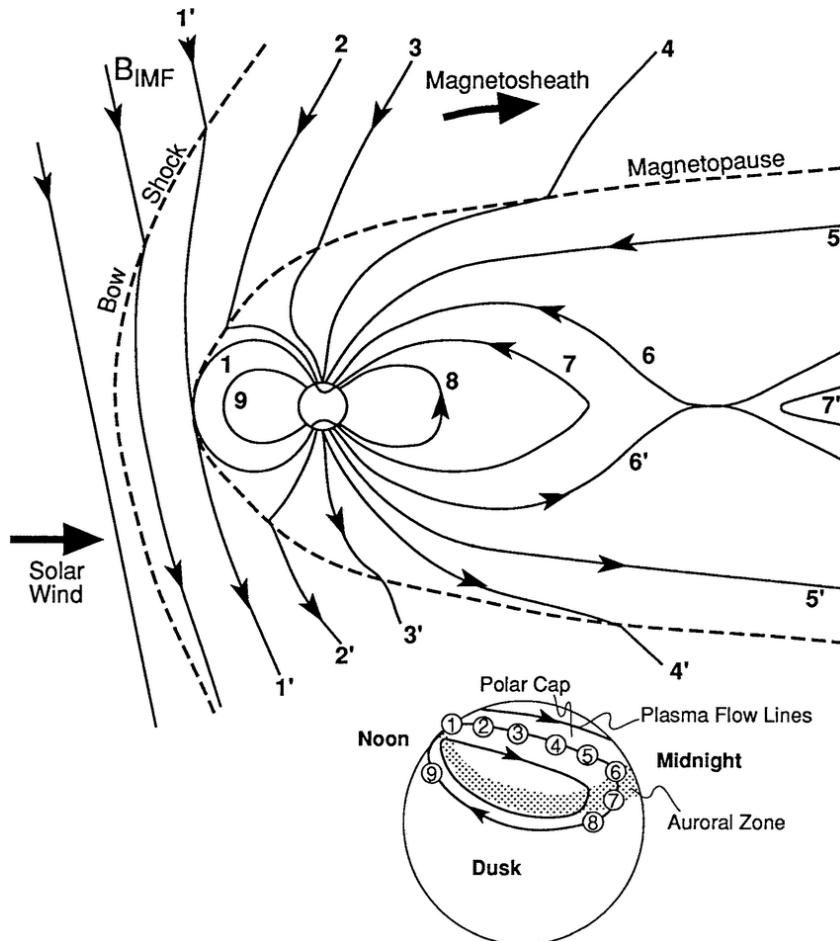


Study 1

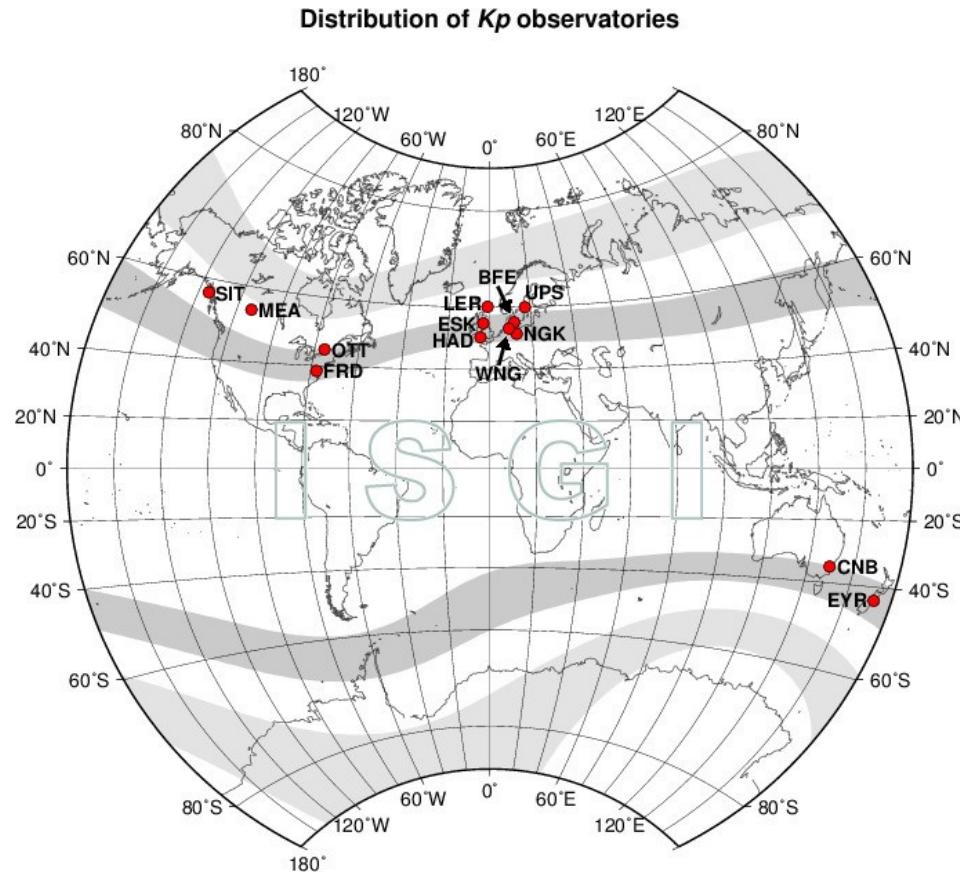
Study 1



Study 1



Study 1



Study 2

Summary

Thank you!

Backup slides