

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

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Prof. Dr. Ansgar Reiners
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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

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Predictive models for space weather

The solar wind's Sun–Earth evolution

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Predictive models for the Parker Solar Probe orbit

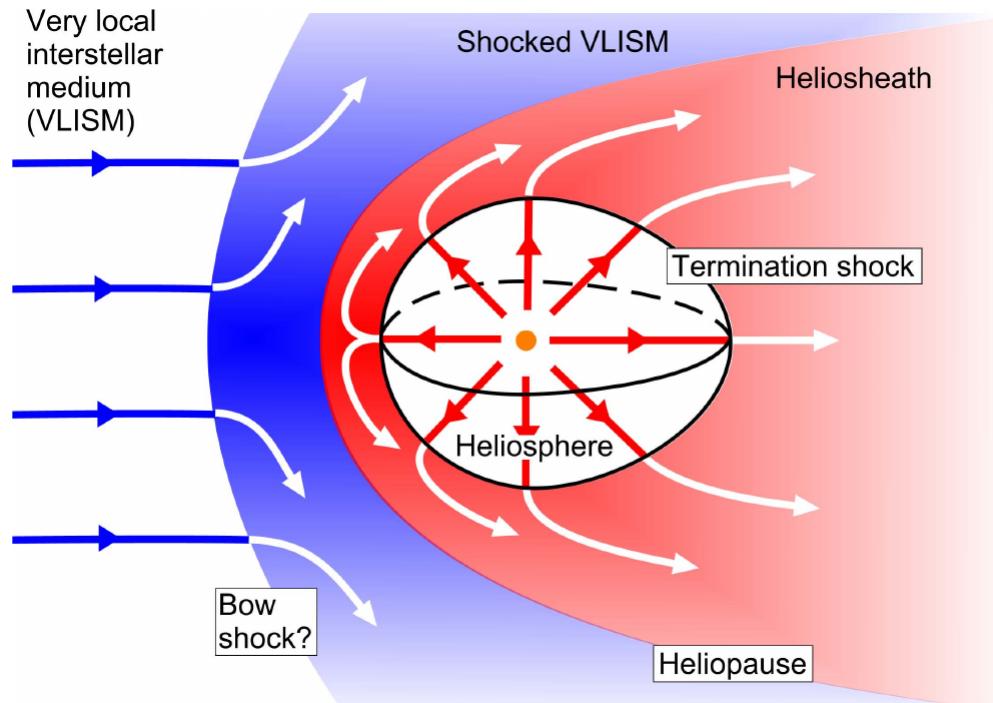
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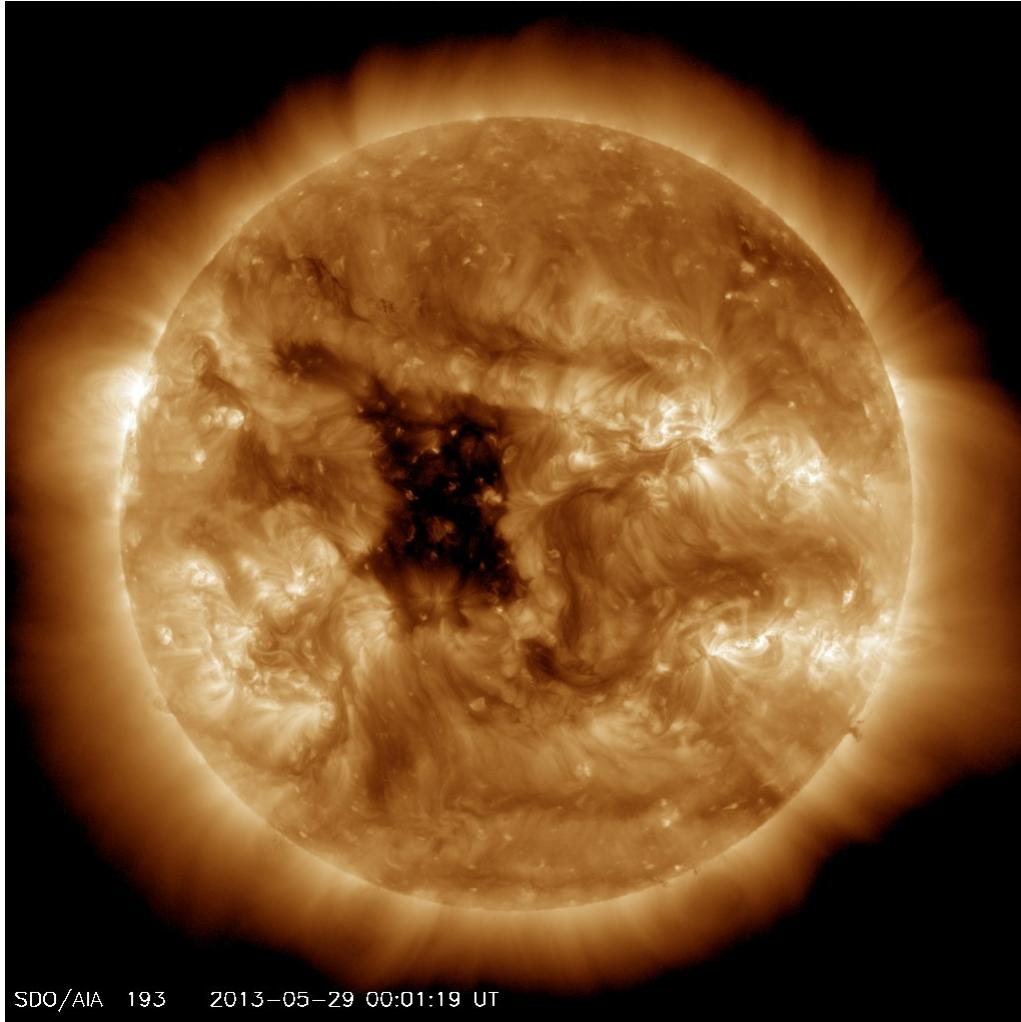
Solar wind



Solar wind

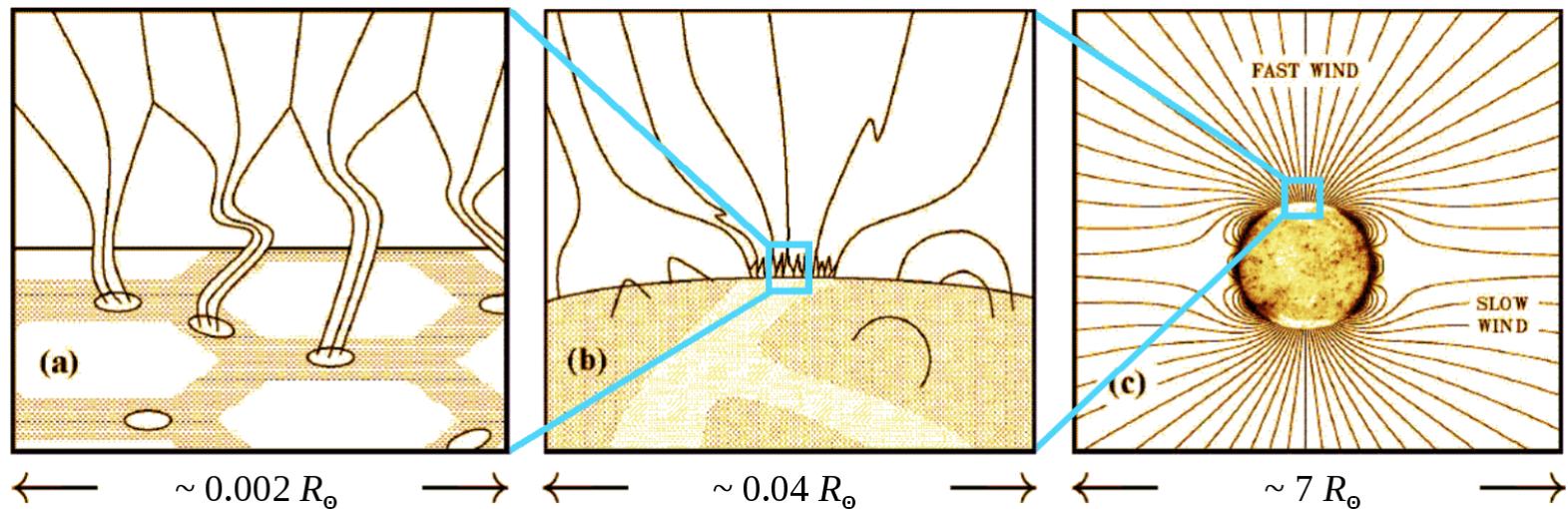


Solar wind



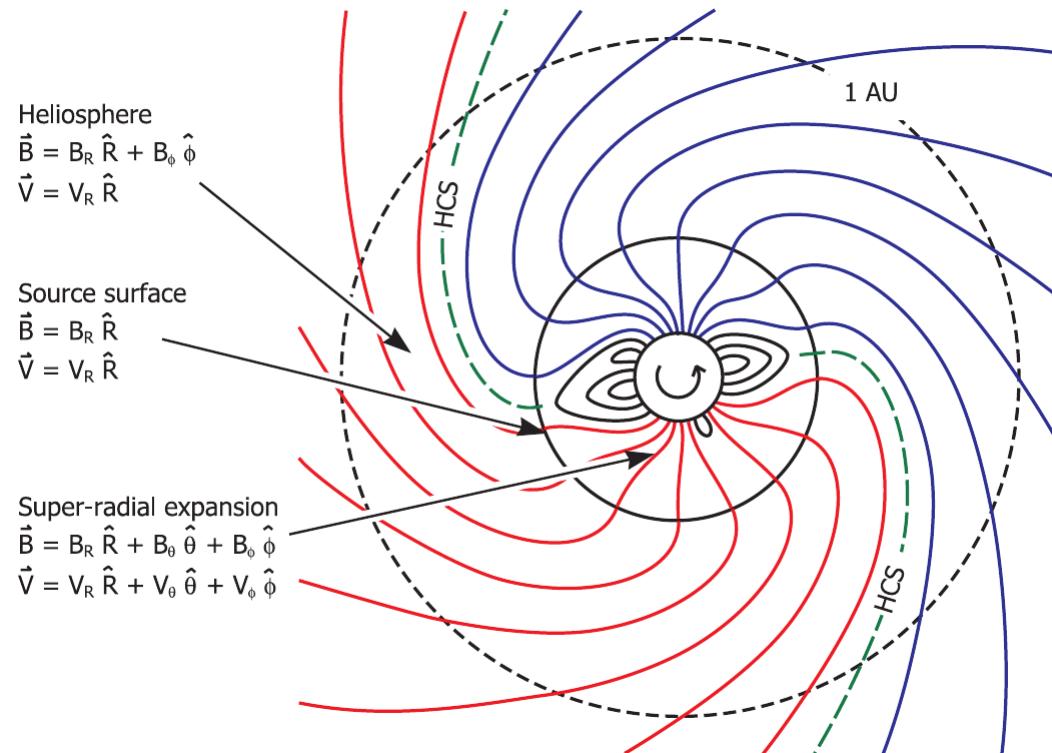
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Solar wind

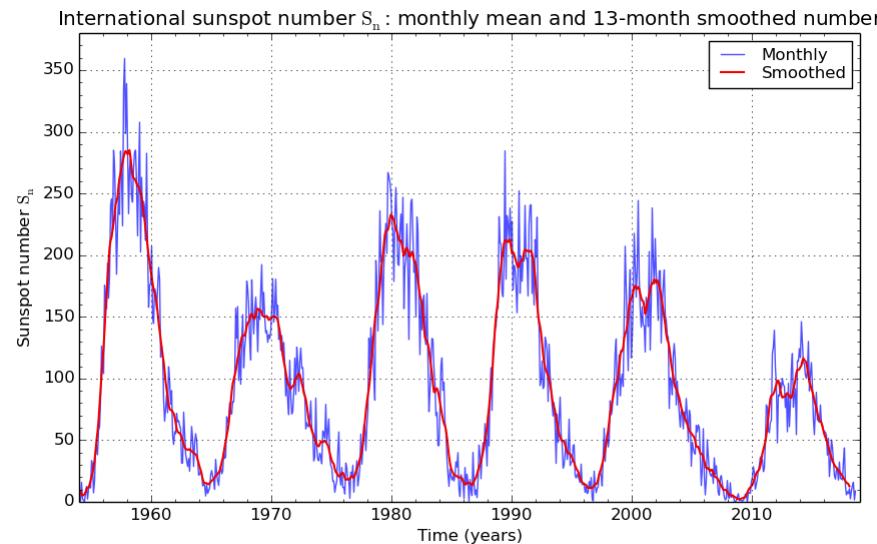


Credit: Cranmer

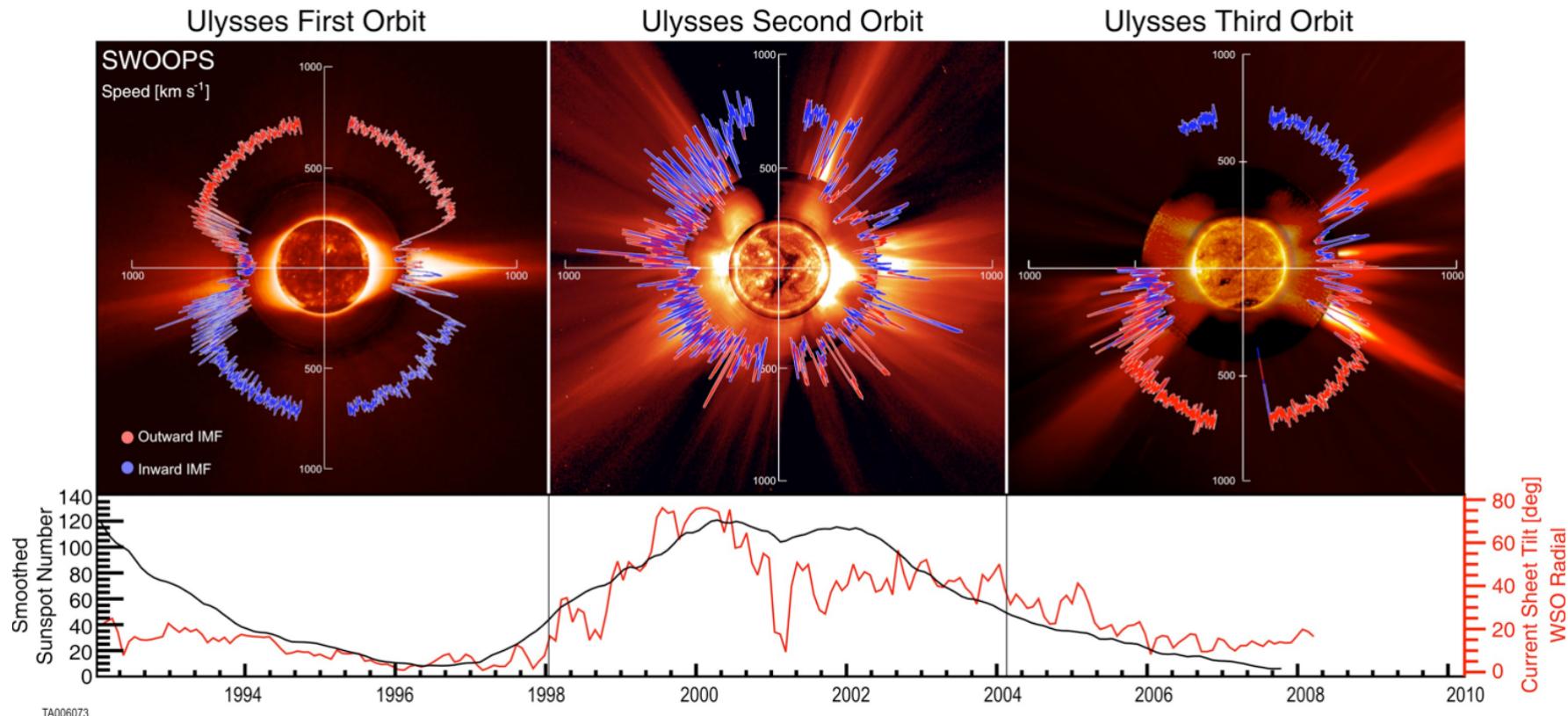
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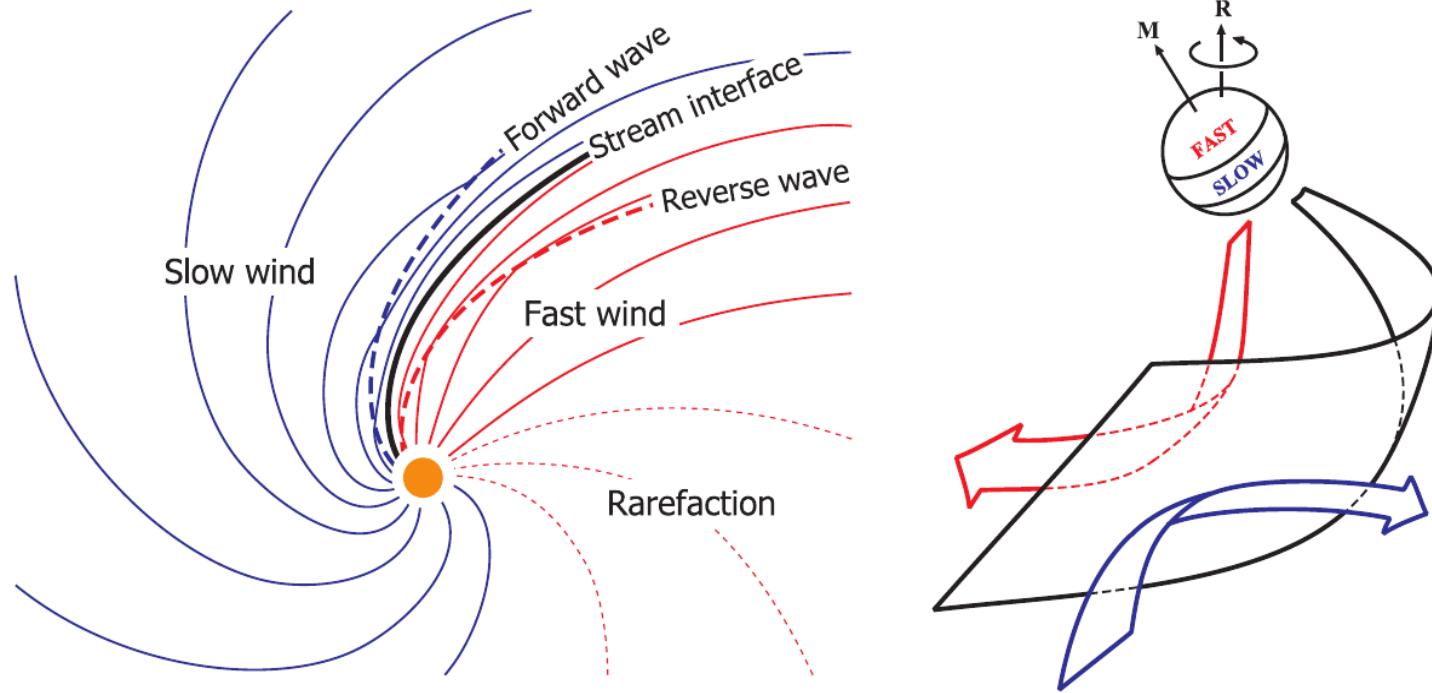
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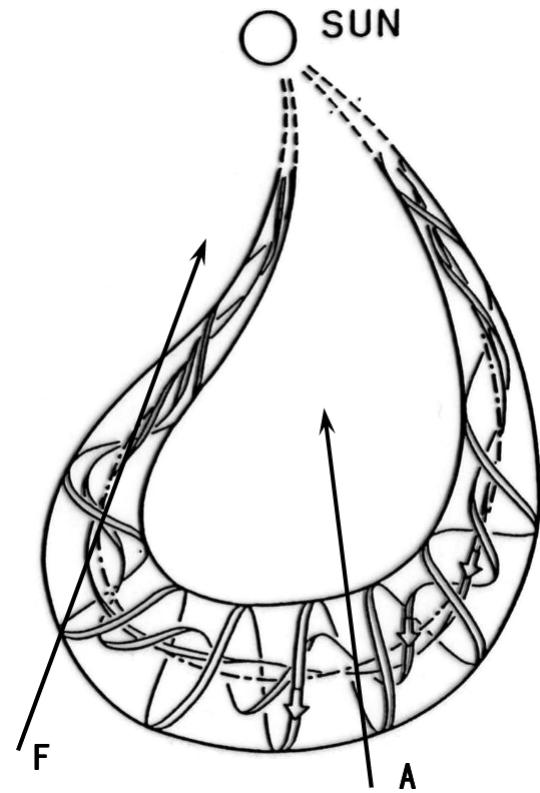
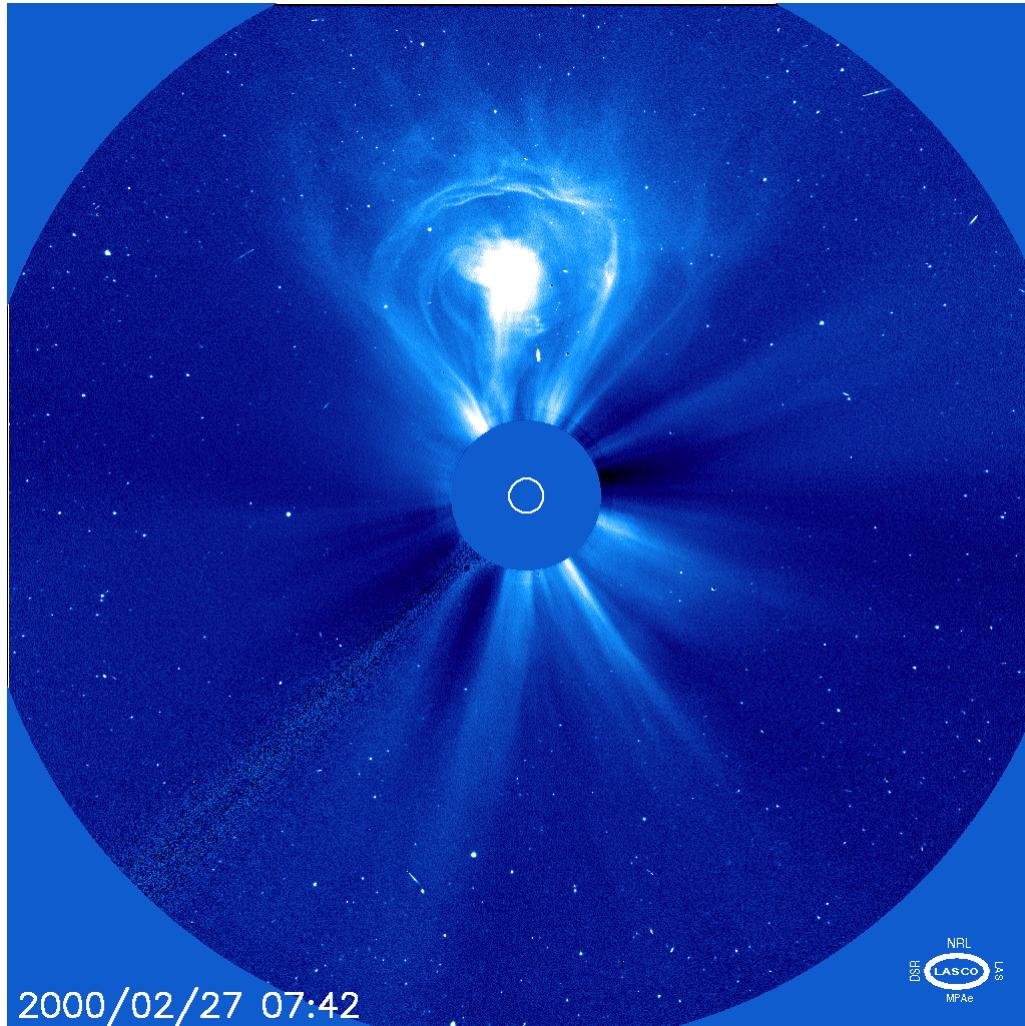
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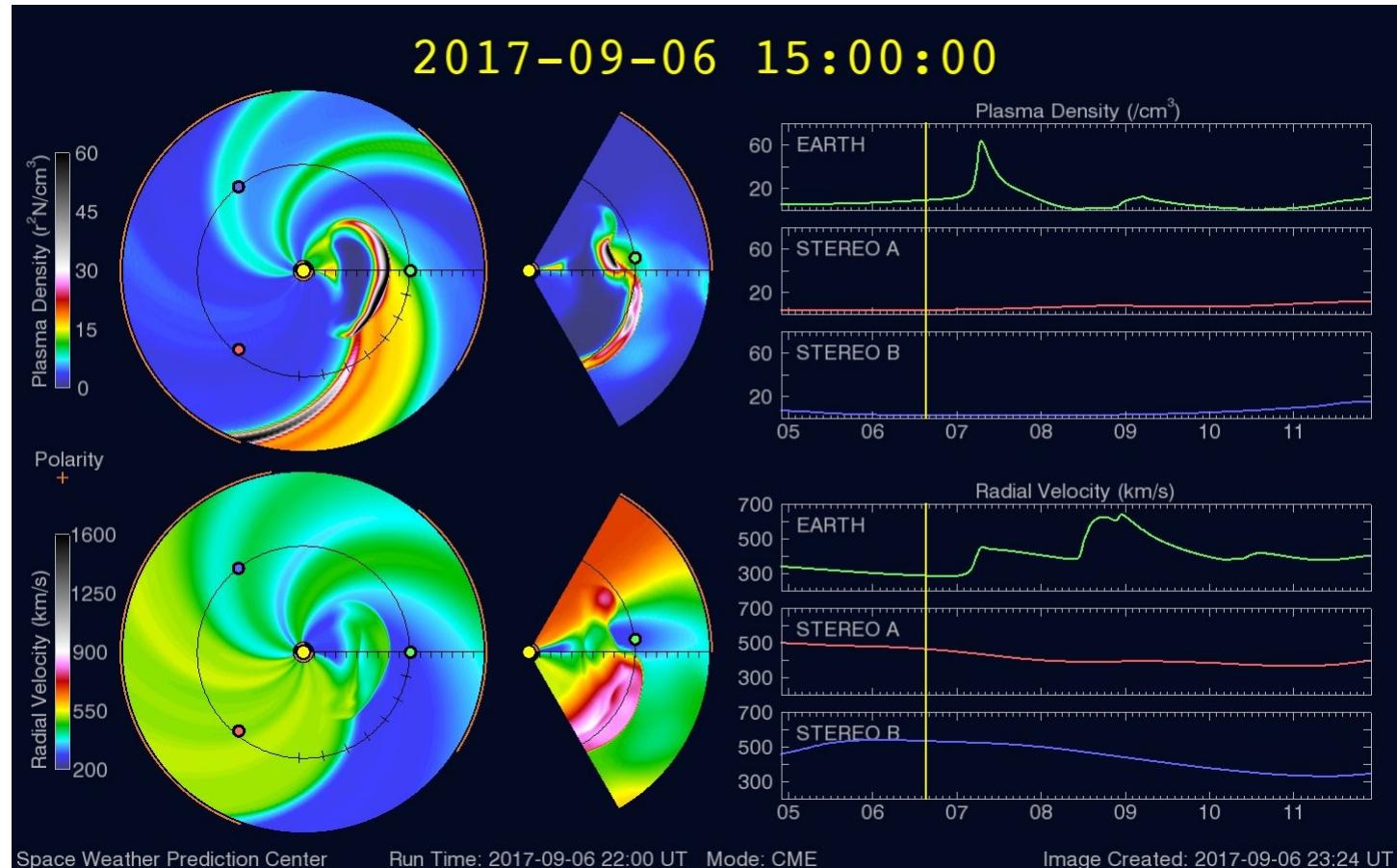
Solar wind



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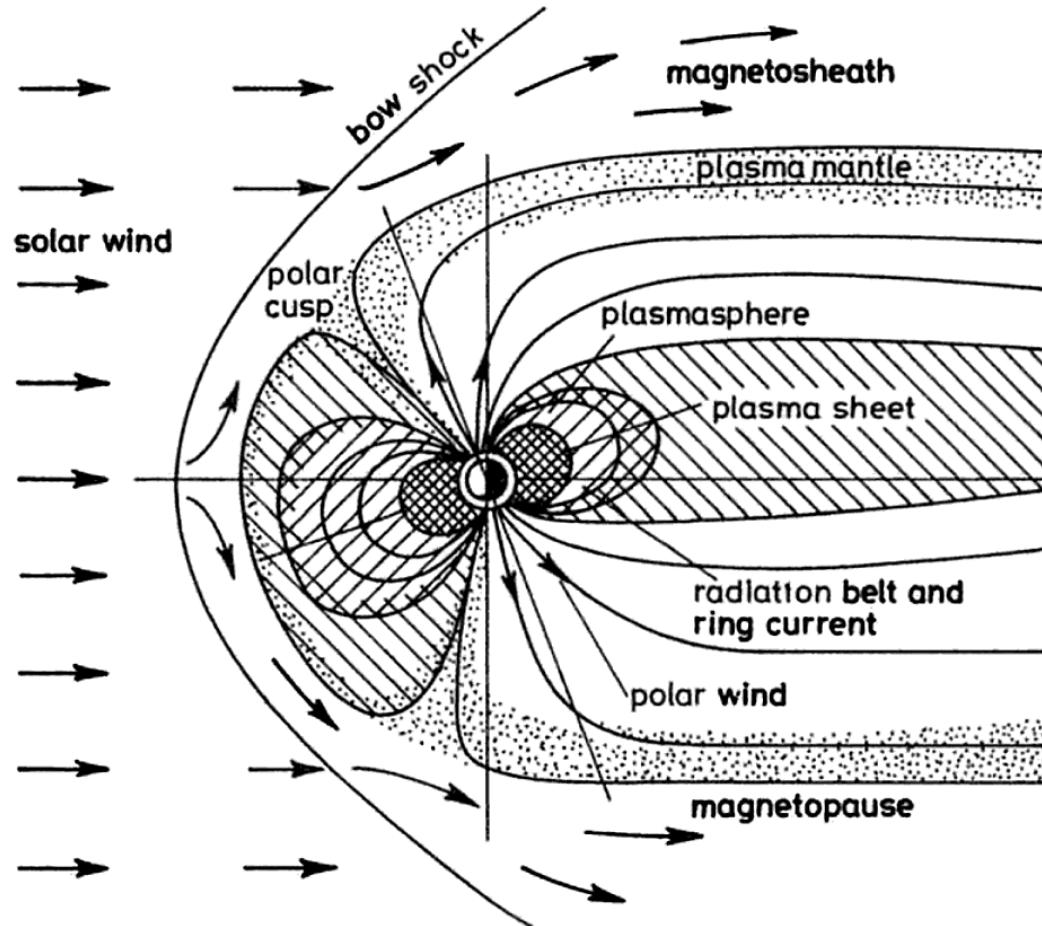


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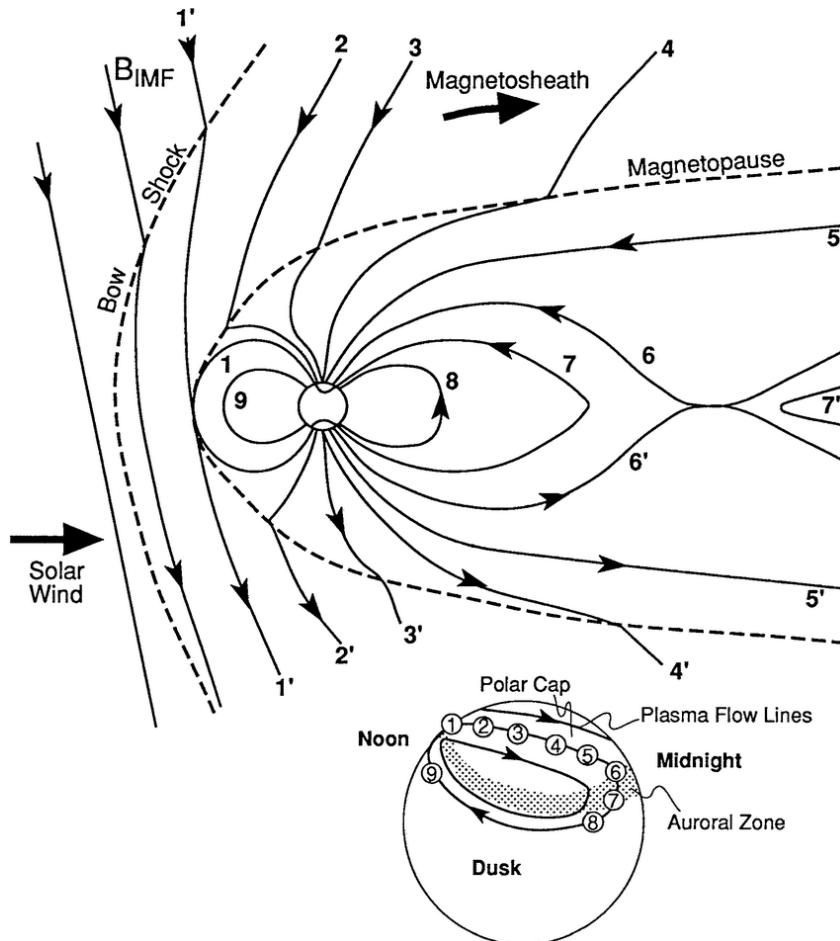


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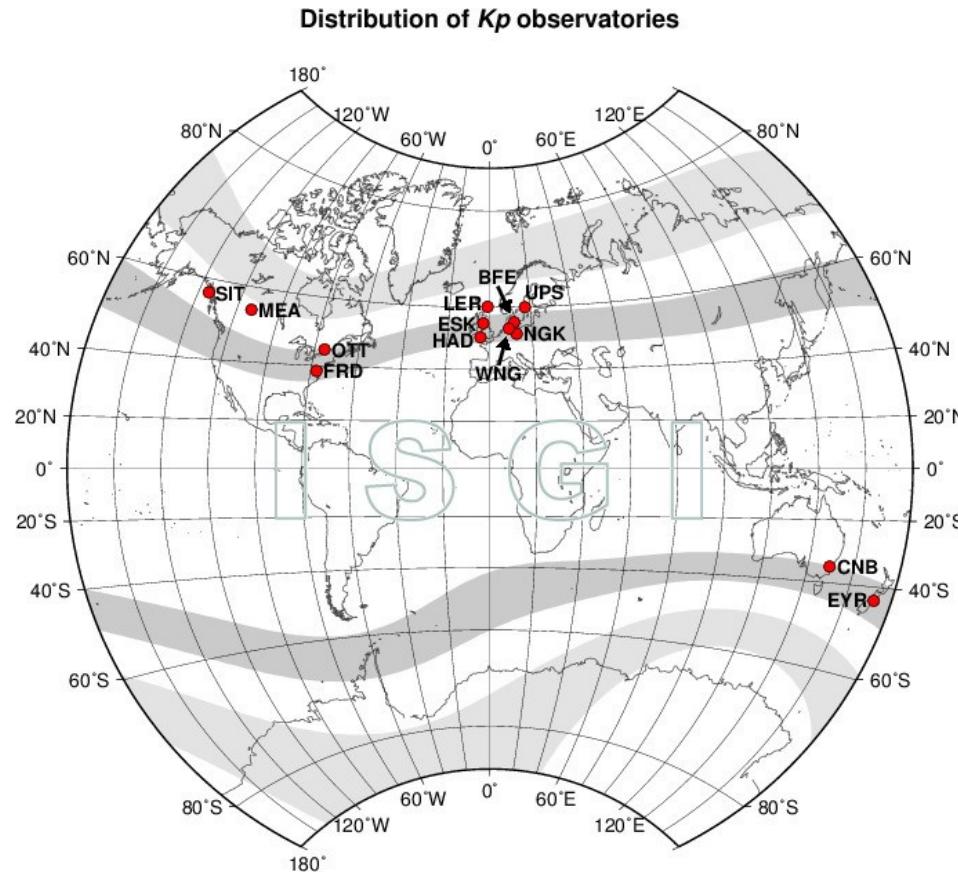
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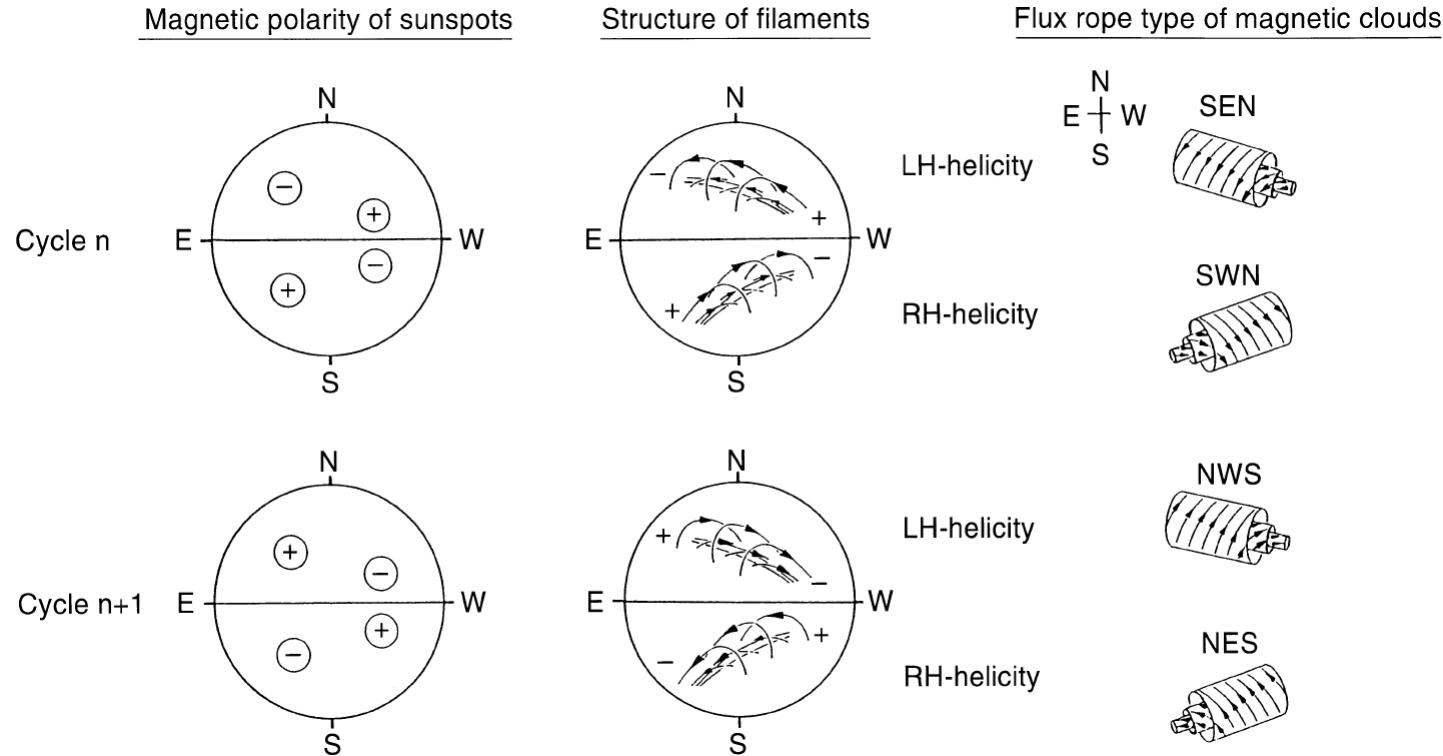
Study 1



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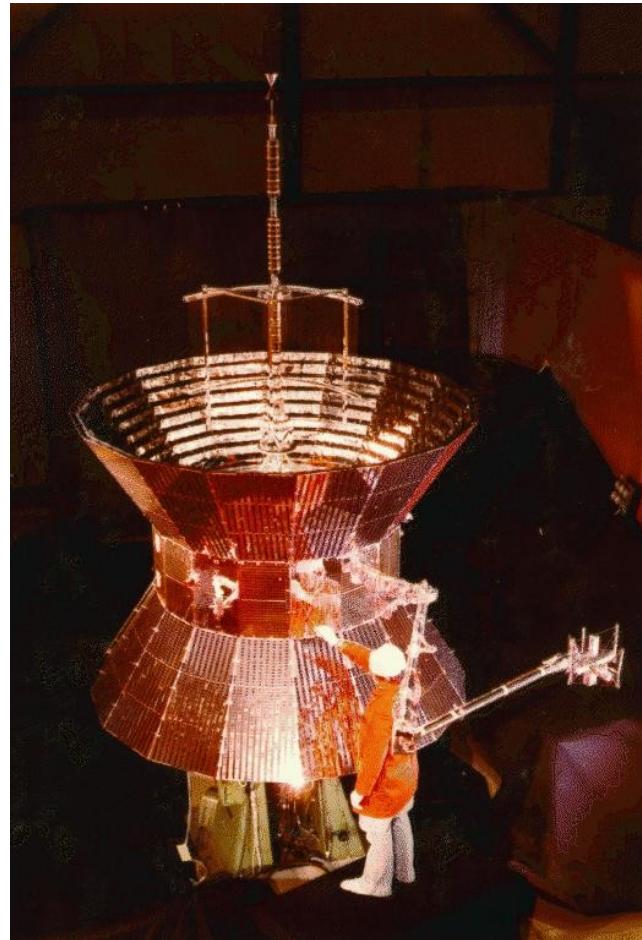


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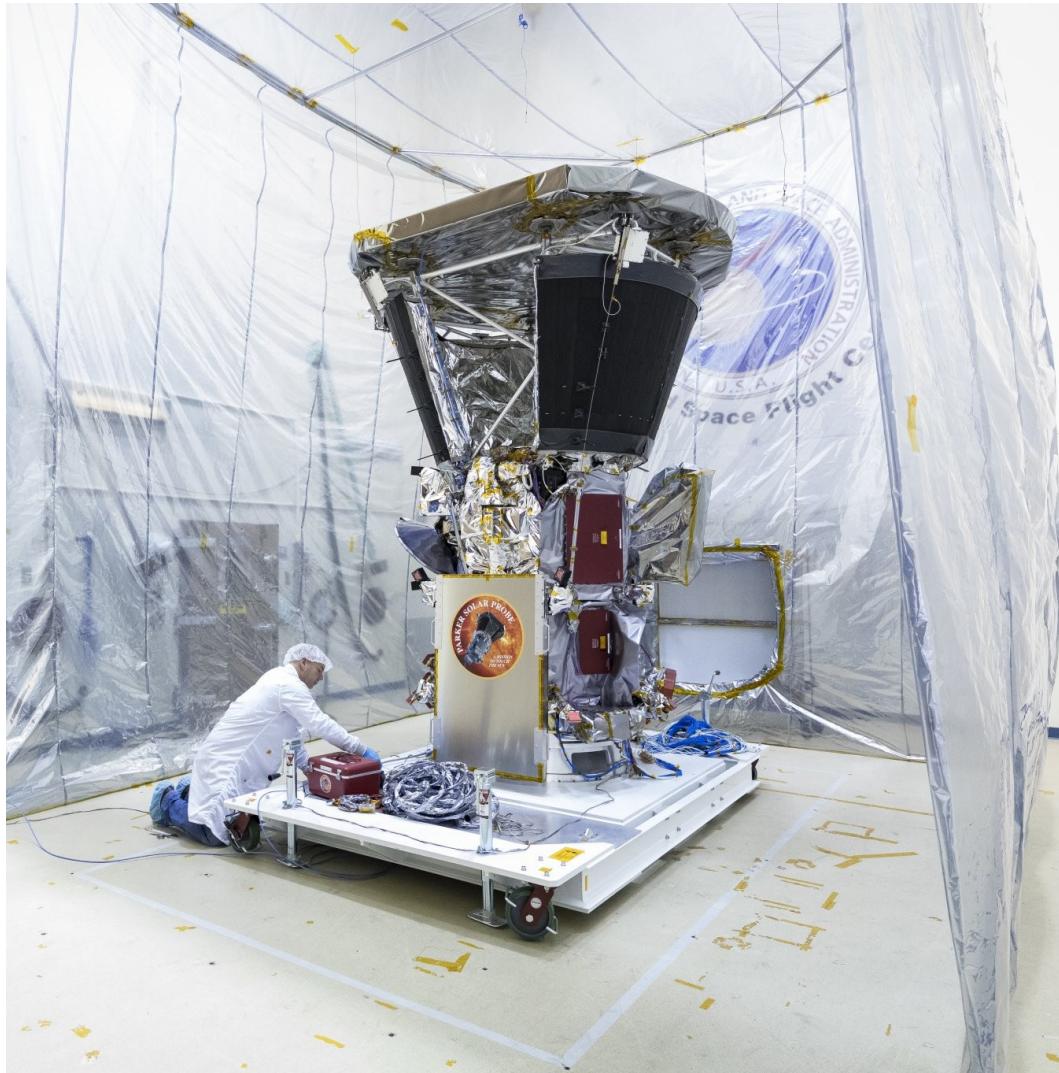


Study 2

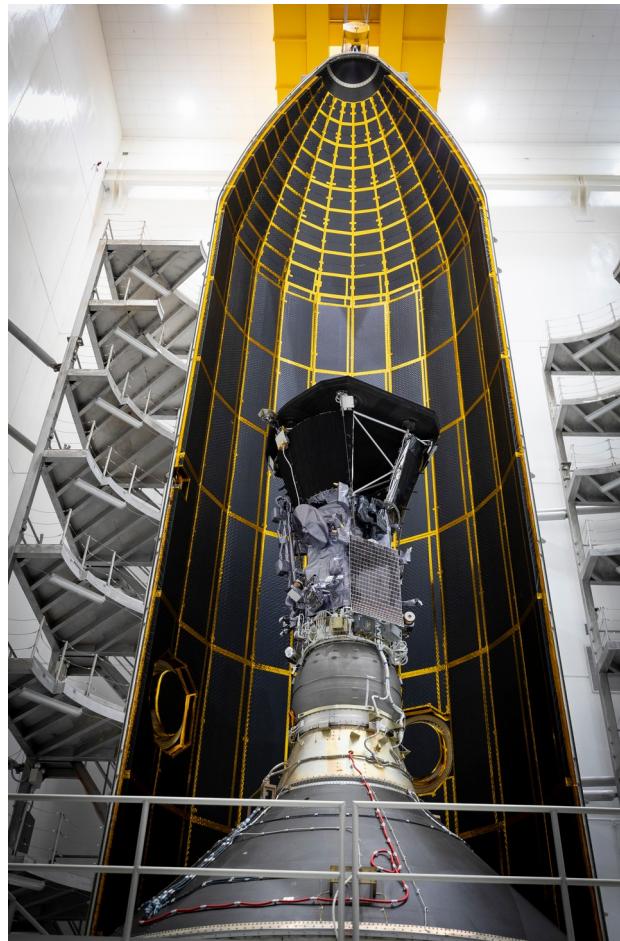
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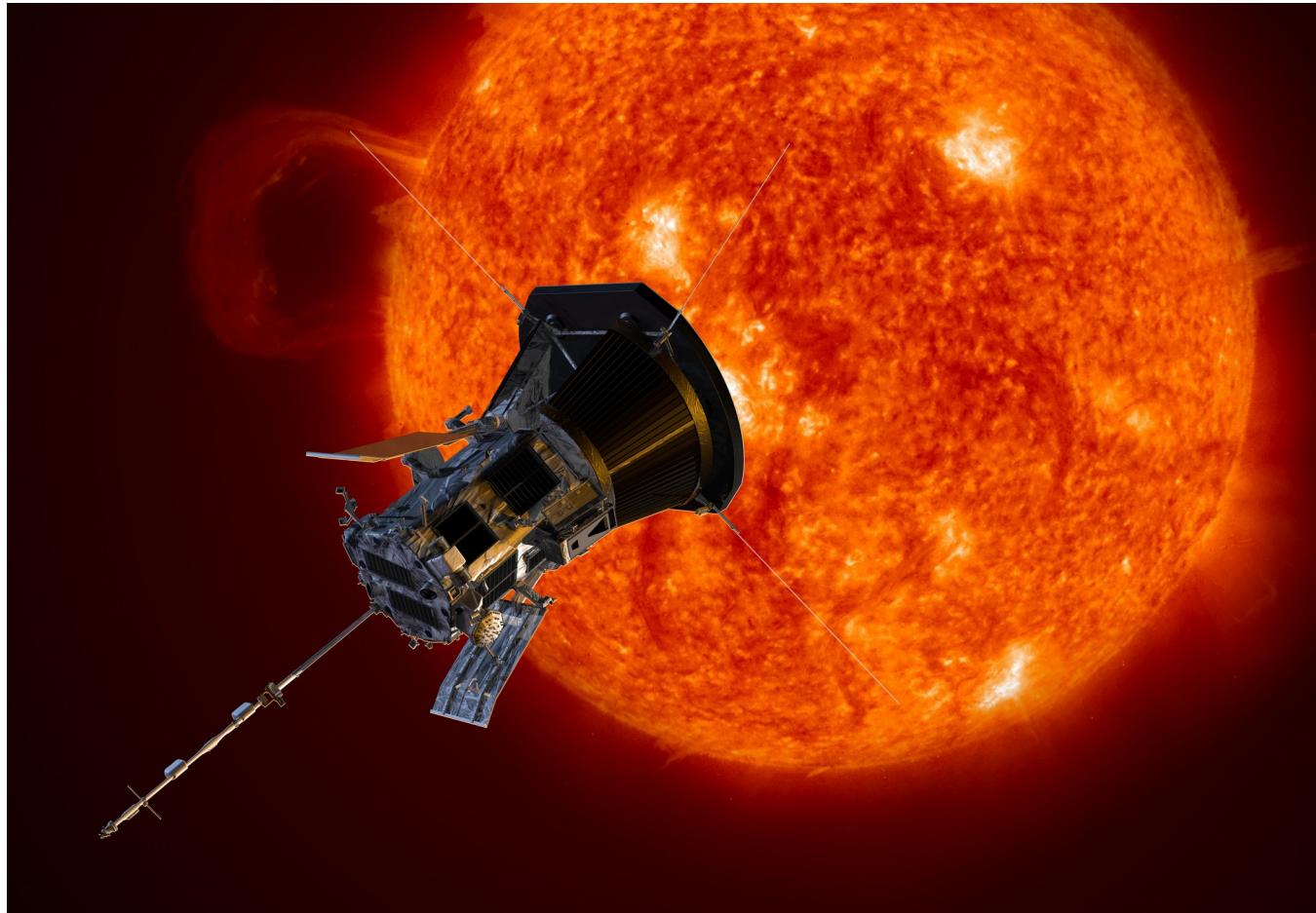
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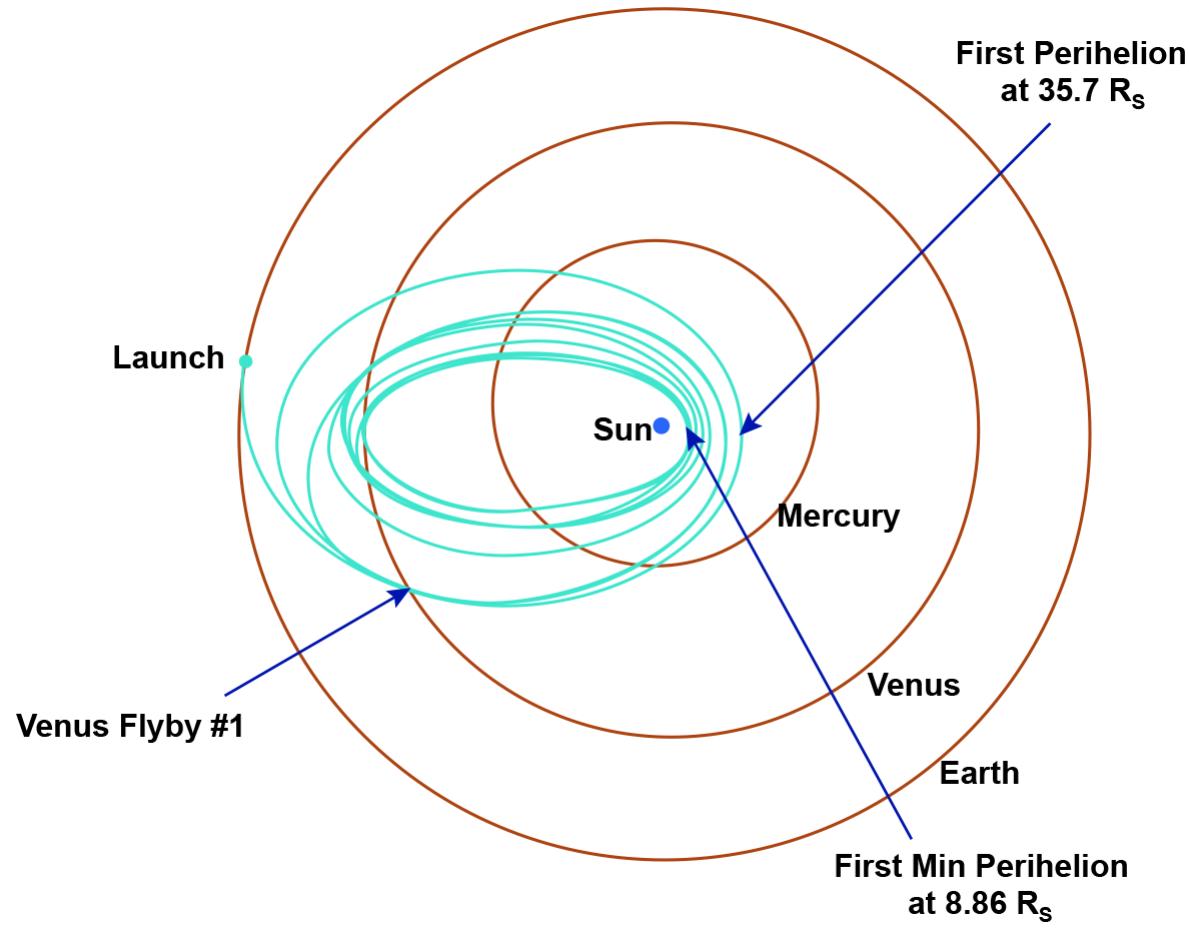
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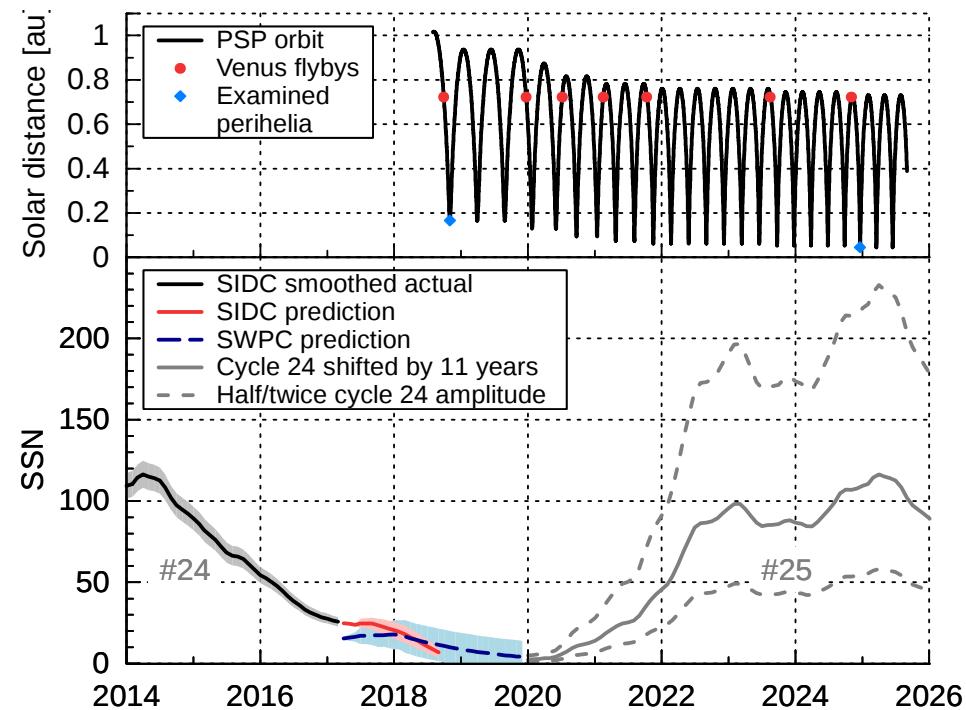
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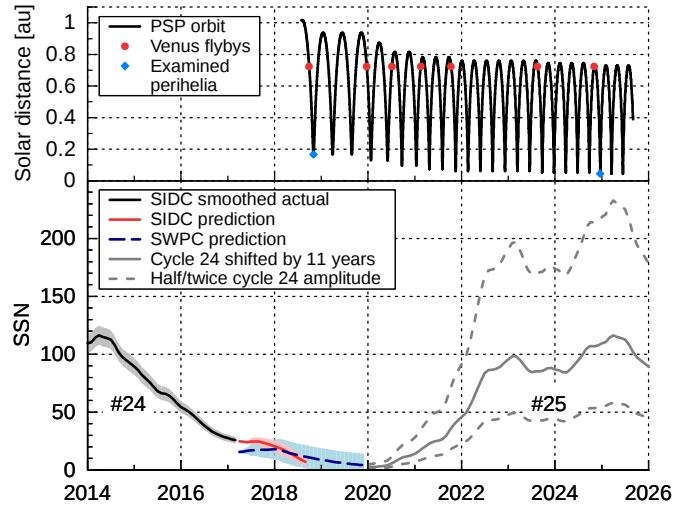
Study 2



Study 2



Study 2



Summary

Thank you!

Backup slides