SORE Mission Status

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SORCE

A Mission of Solar Irradiance for Climate Research

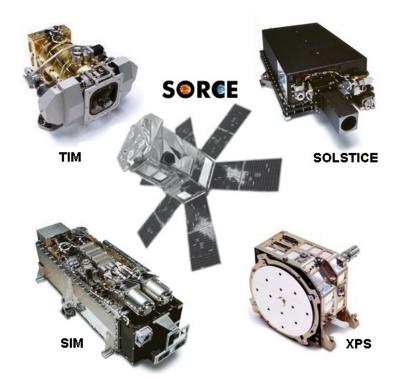
SORCE Measurements

- Total Solar Irradiance (TSI)
- Solar Spectral Irradiance (SSI)
 - 0.1-27 nm and 115-2400 nm
- Important Earth science measurements for studying radiative forcing, dynamics, and photochemistry in atmosphere

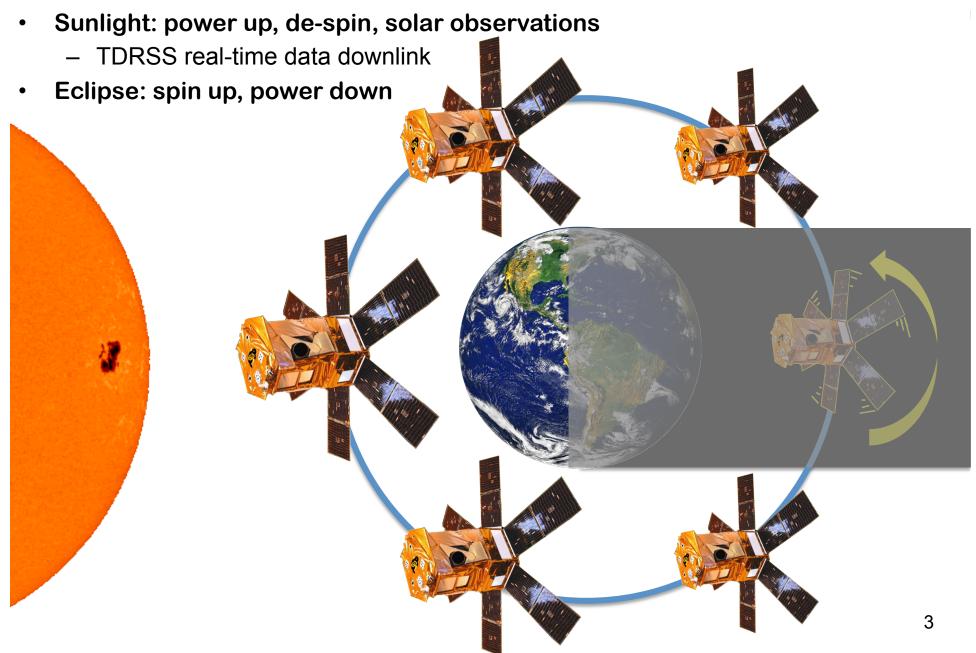
SORCE Mission

- Launched in 2003
- Its mission has been extended to overlap with ISS-TSIS in 2017-2018
- Spacecraft and instruments are making routine daily measurements in its Day-Only Operations (DO-Op) mode

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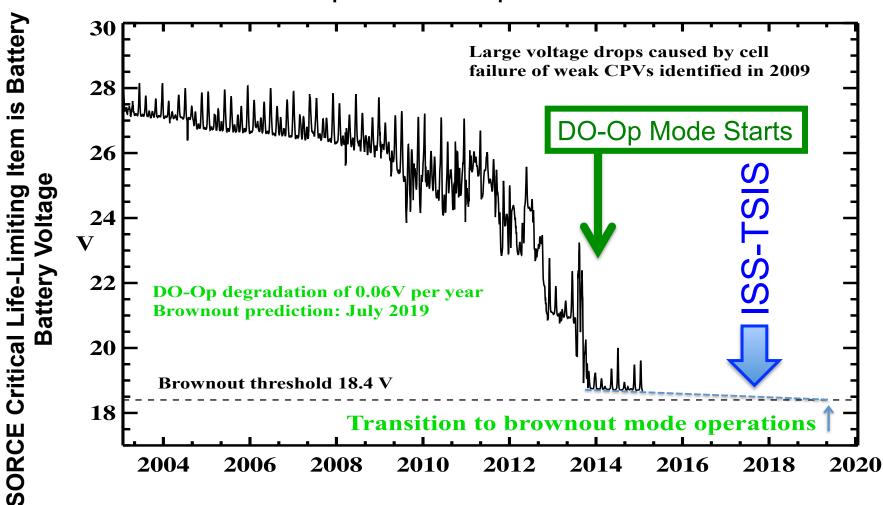


SORCE Day Only Operations (DO-Op)



SORCE Spacecraft is Stable in its DO-Op Mode

 SORCE operations are planned through 2018 so that SORCE has adequate overlap with ISS-TSIS



Solar Irradiance Measurements after SORCE

- TSI and SSI 200-2400 nm measurements will continue on ISS-TSIS
 - ISS-TSIS launch is planned for July 2017
 - Goal is to have 12-month overlap of SORCE & TSIS
- SSI 0.1-300 nm in select bands will continue on with GOES-R EXIS
 - Bands include H I Lyman-alpha (121.6 nm) and Mg II index (280 nm)
 - GOES-R (GOES-16) launch is October 2016

