



SOUTHWEST RESEARCH INSTITUTE

QuickPUNCH: Observations for Space Weather Operations and Research

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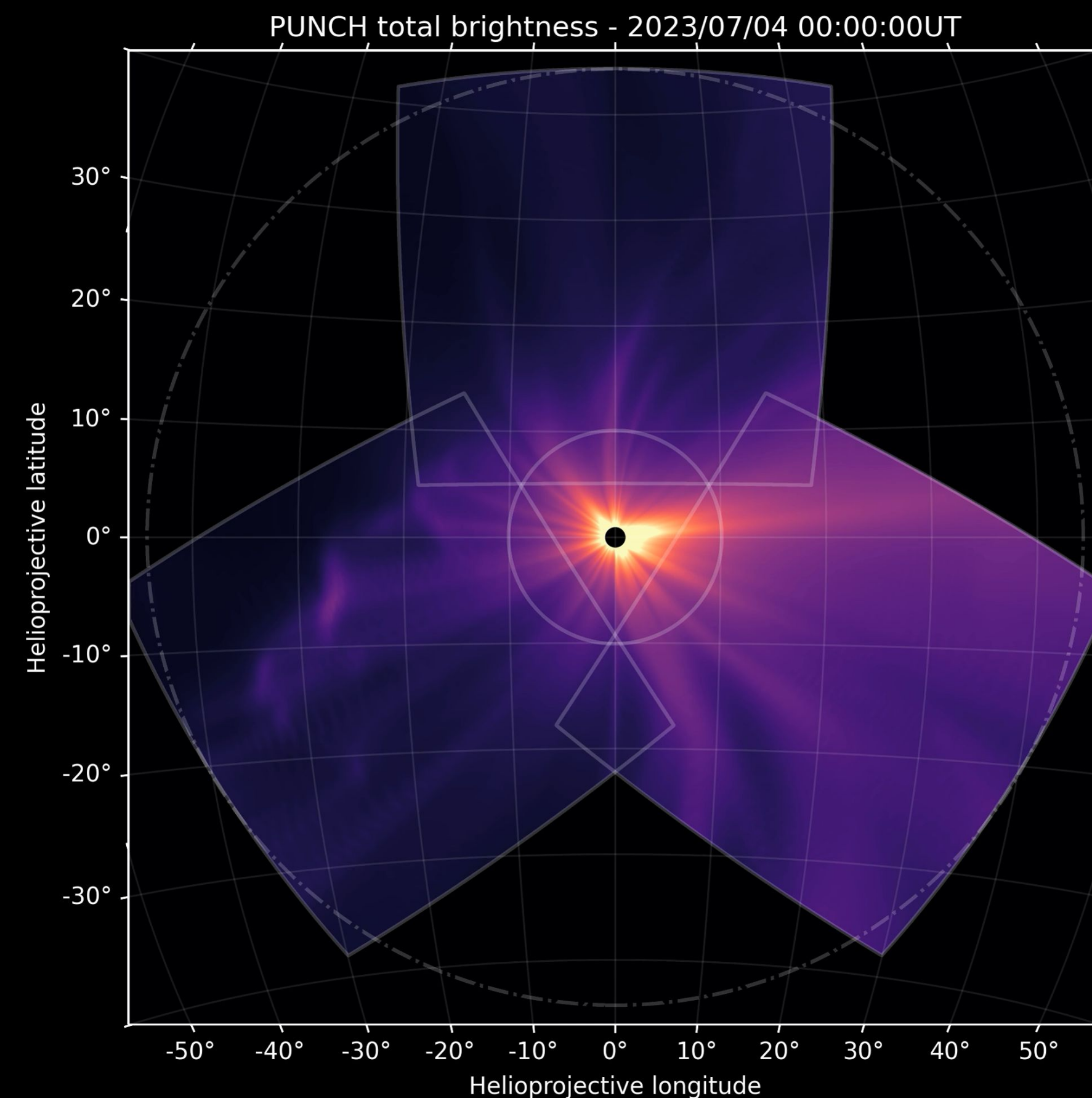
Four PUNCH
Spacecraft

Polarimeter to Unify the
Corona & Heliosphere:

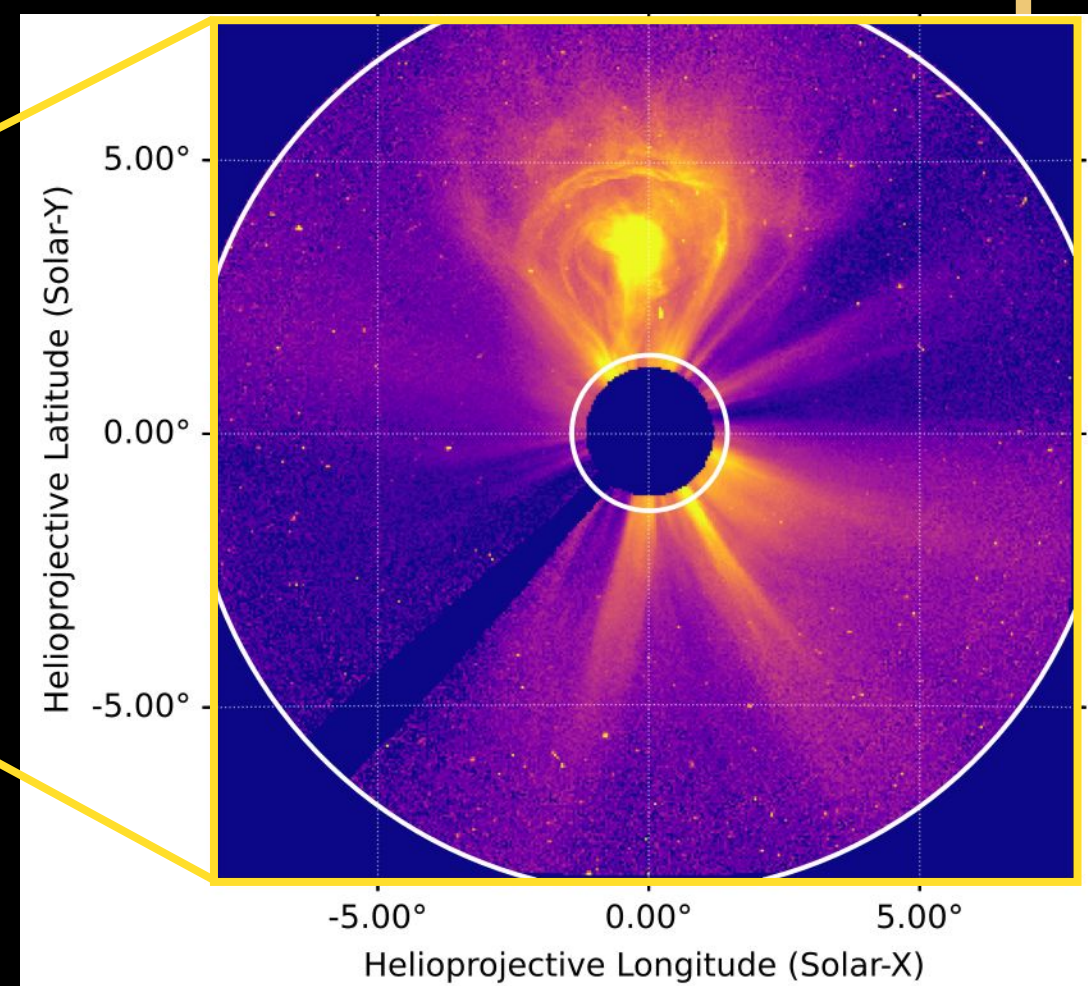
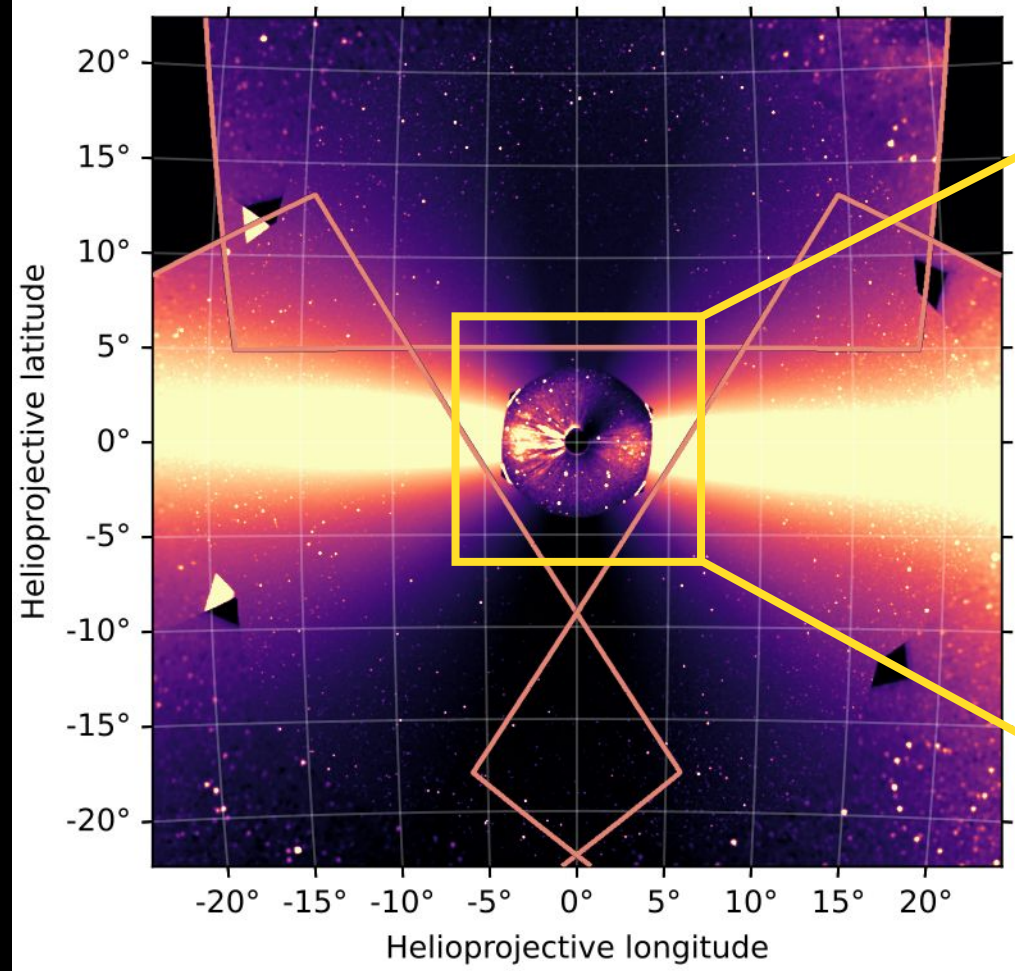
3×Wide-Field Imagers:
20–180 $R_{\odot}$

1×Narrow-Field Imager:
5.4–32 $R_{\odot}$

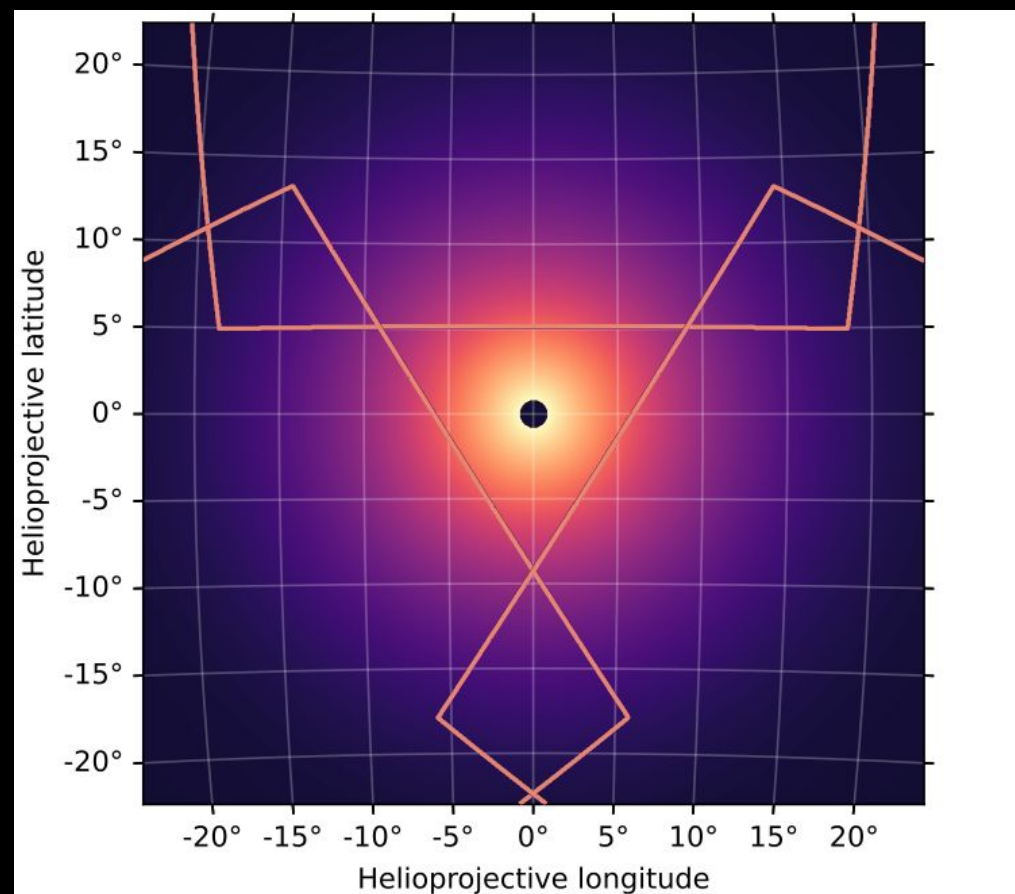
4-minute observation
cadence



Planned QuickPUNCH Low-Latency Data Products



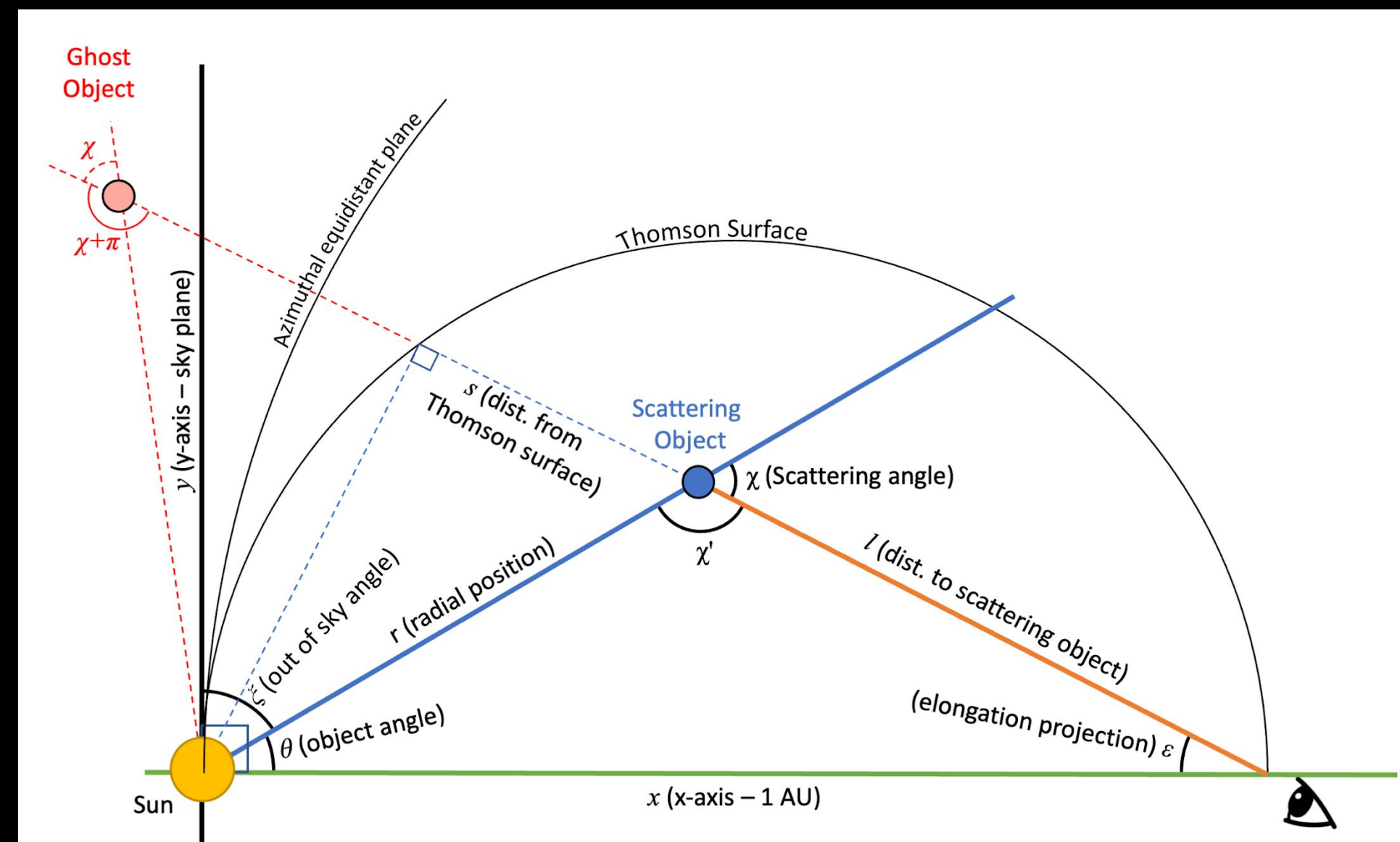
- Dedicated Python software generates running difference & F-corona-subtracted images on the fly.
- Analysis products are FITS format. Quicklook in JPEG & Helioviewer-compatible JPEG2000.
- Data available to NOAA and via VSO as soon as generated



WFI & NFI F-Corona Background
Every 12 Hours

Running-difference movies for real-time analysis

R2O BONUS: CME Distance & Speed



PUNCH's polarimetric measurements will localize CMEs as they propagate through the heliosphere towards Earth.