

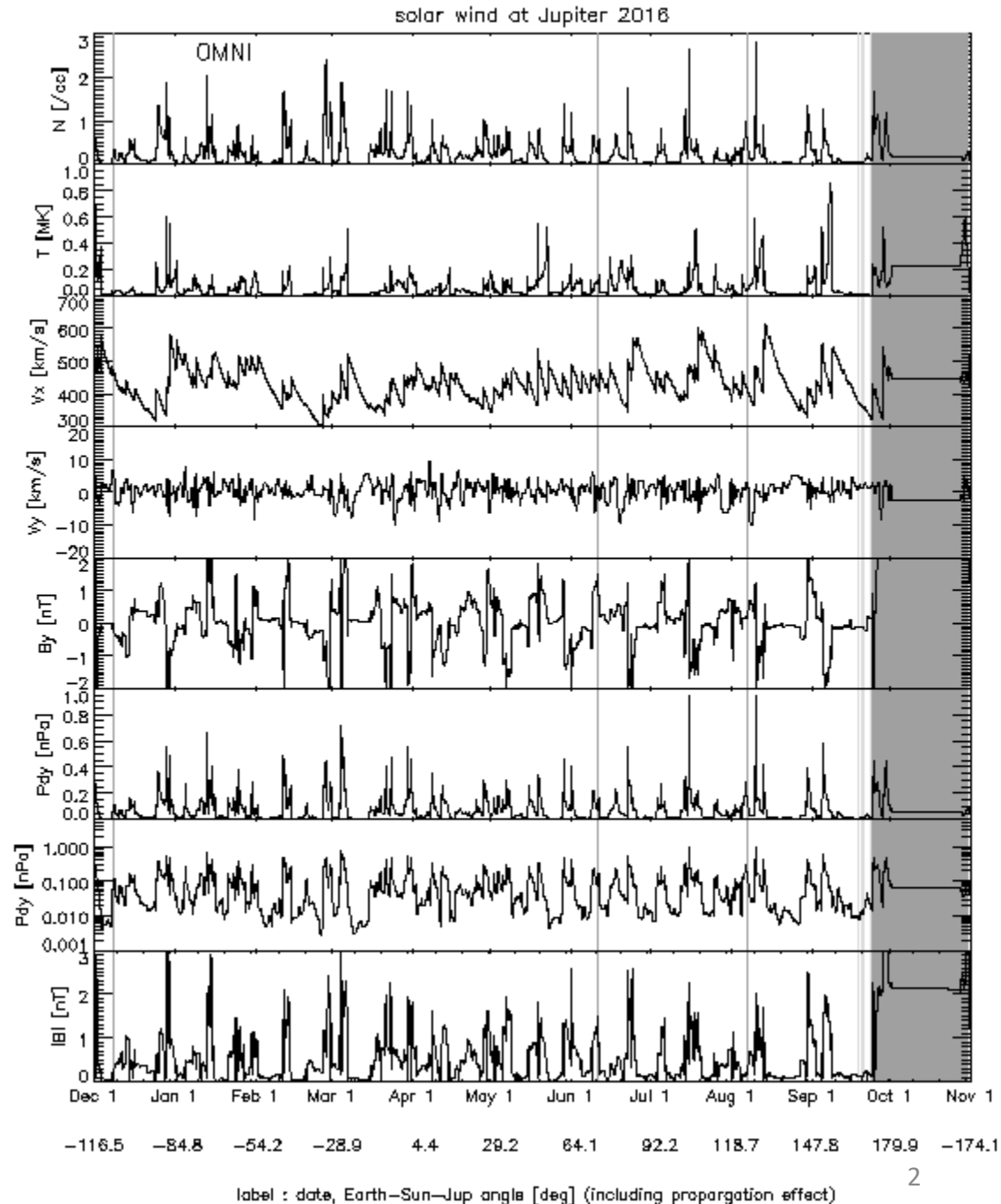
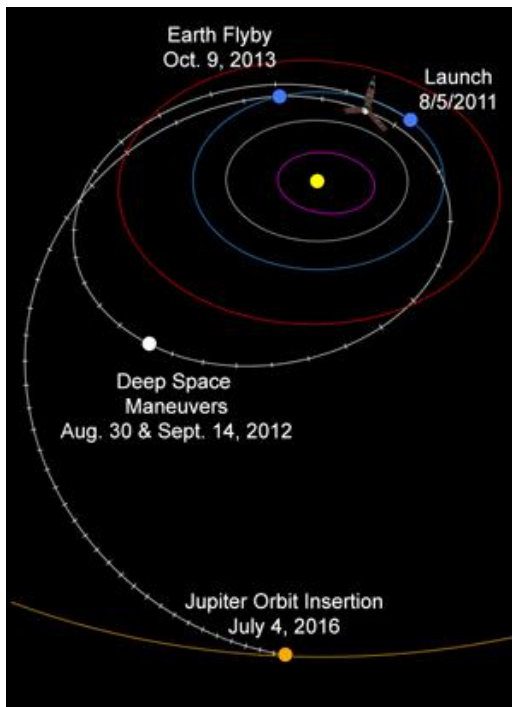
Solar wind updates

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Solar wind at Jupiter 2016

- * Juno is approaching to Jupiter
- * Propagate using WIND data
→ ~a few to 20 days ahead
- * Validate solar wind by Juno data



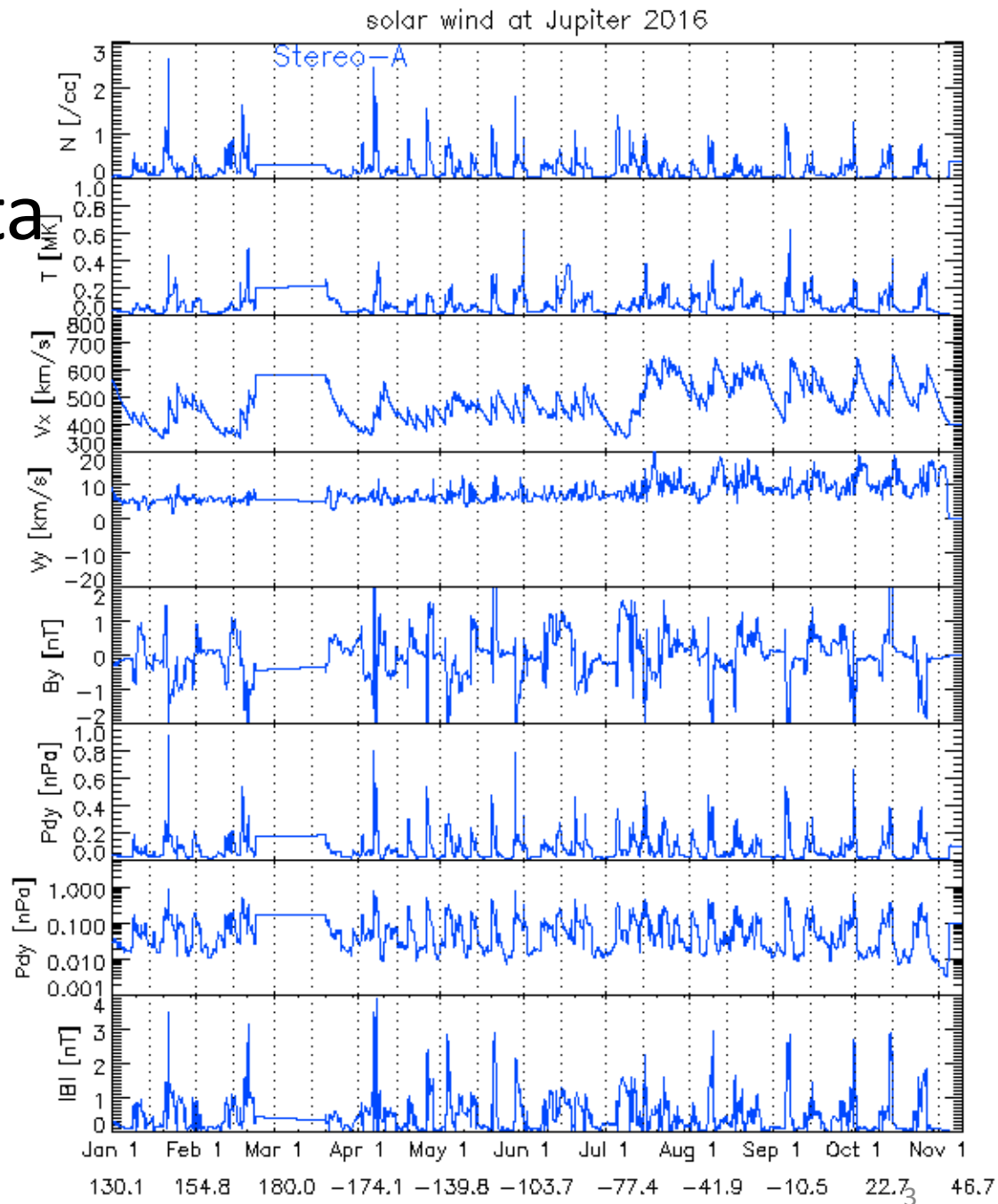
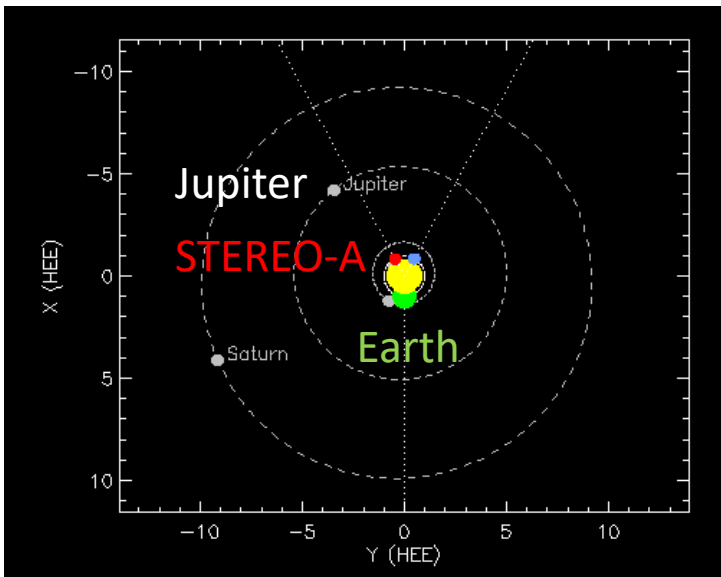
Recent Updates 1:

Jupiter 2016 using STEREO beacon data

STEREO (in CDAwebsite, until Sep.2015)

STEREO beacon (until a few hours ago) as a preliminary outputs

Position on 2016/8/13



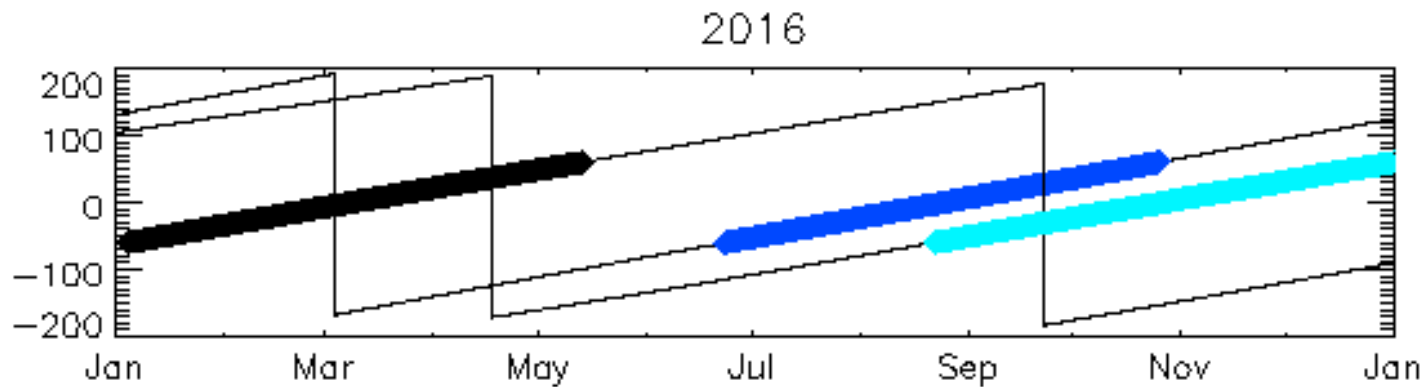
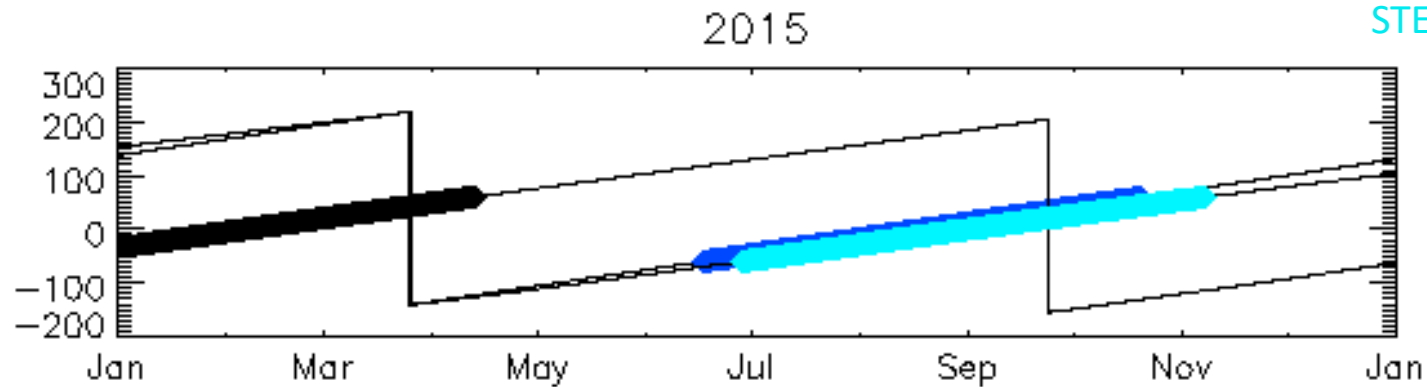
Jupiter-Sun-input angle 2015-2016

Thick line: $|\text{angle}| < 60$ deg.

OMNI@Earth

STEREO-A

STEREO-B





Solar wind at Uranus/Neptune

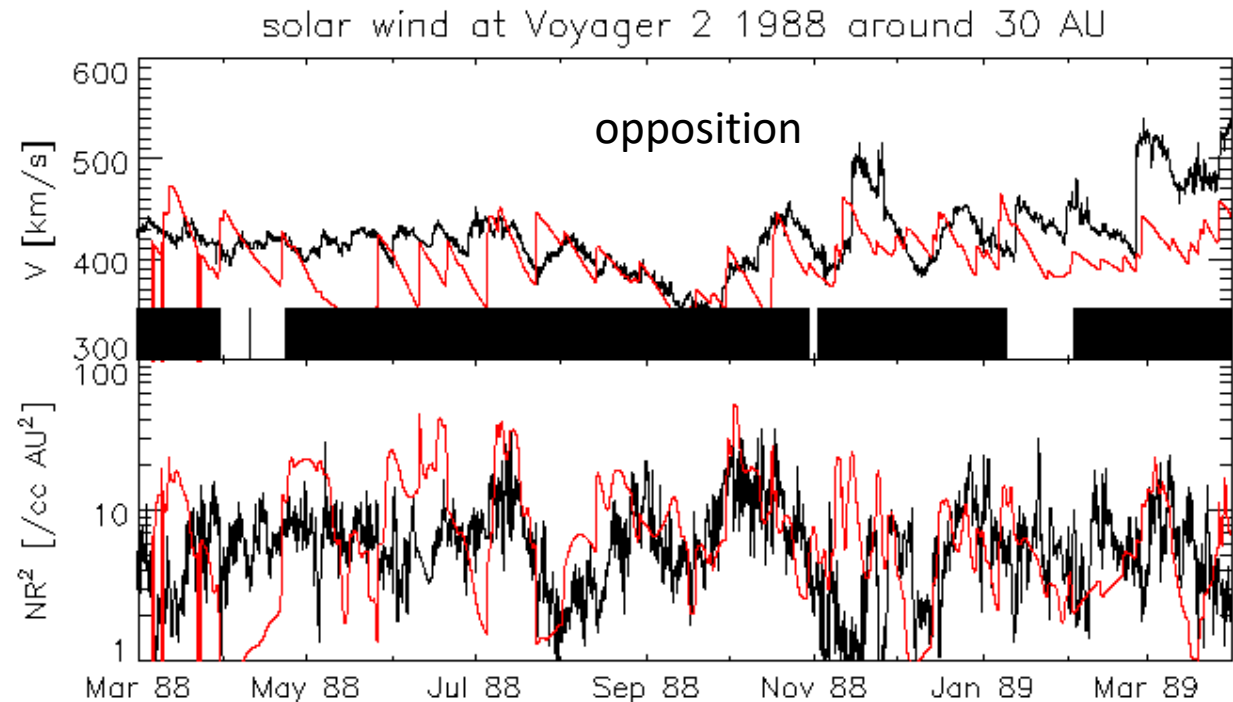
Earth :
OMNI

>10AU
Interstellar H

Uranus: ~20AU
Neptune: ~30 AU

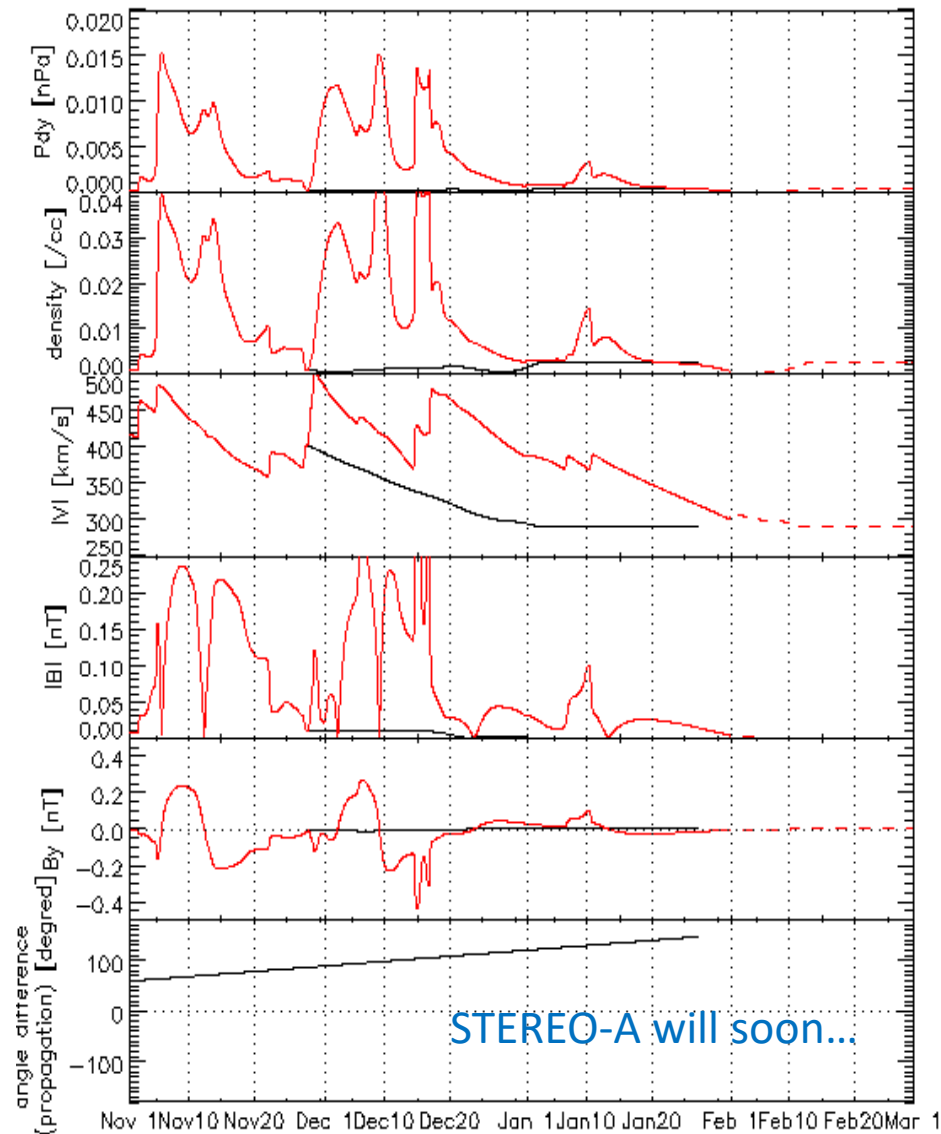
HST ToO program proposal to observe Uranus/Neptune aurora when the solar wind shock arrival is predicted by the model (PI: Lamy, program 14036)

Now searching big events for Uranus and/or Neptune

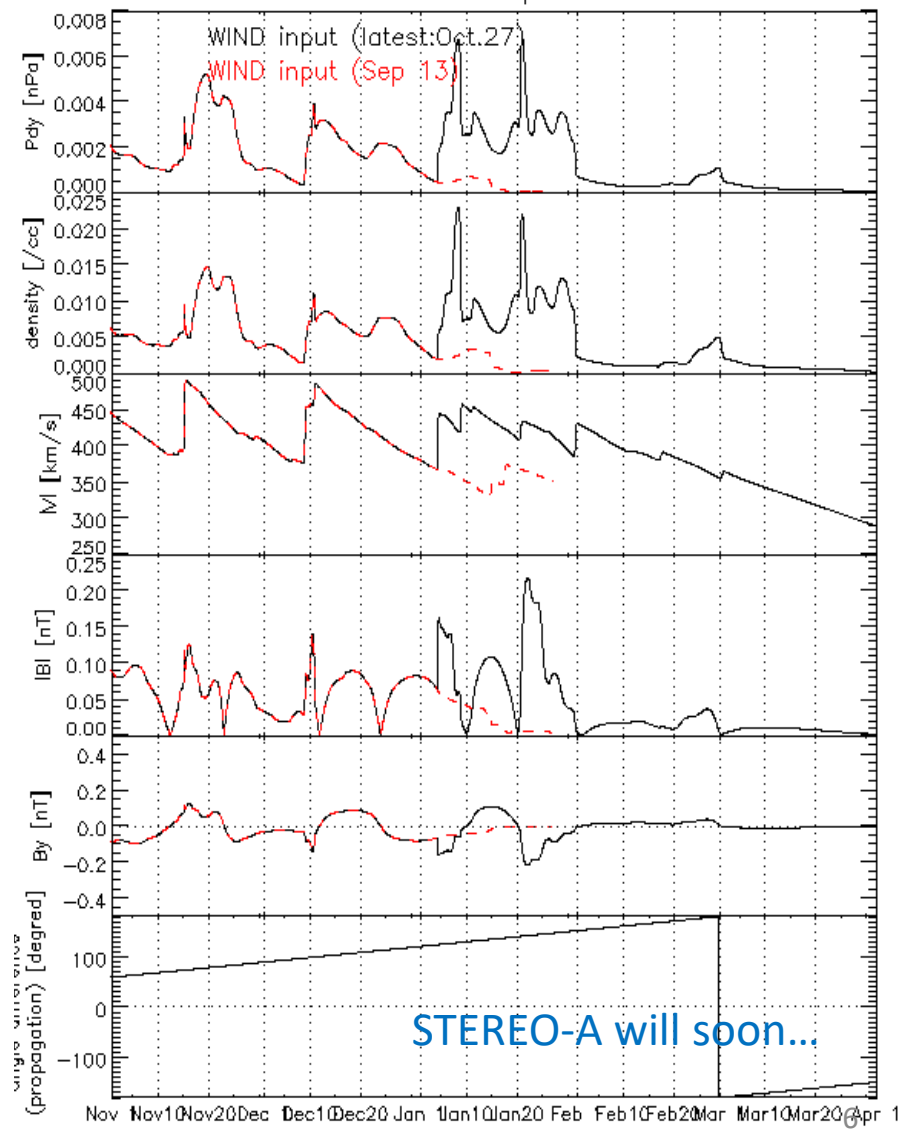


Latest Update

solar wind at Uranus 2016



solar wind at Neptune 2016



SW prediction on October 27

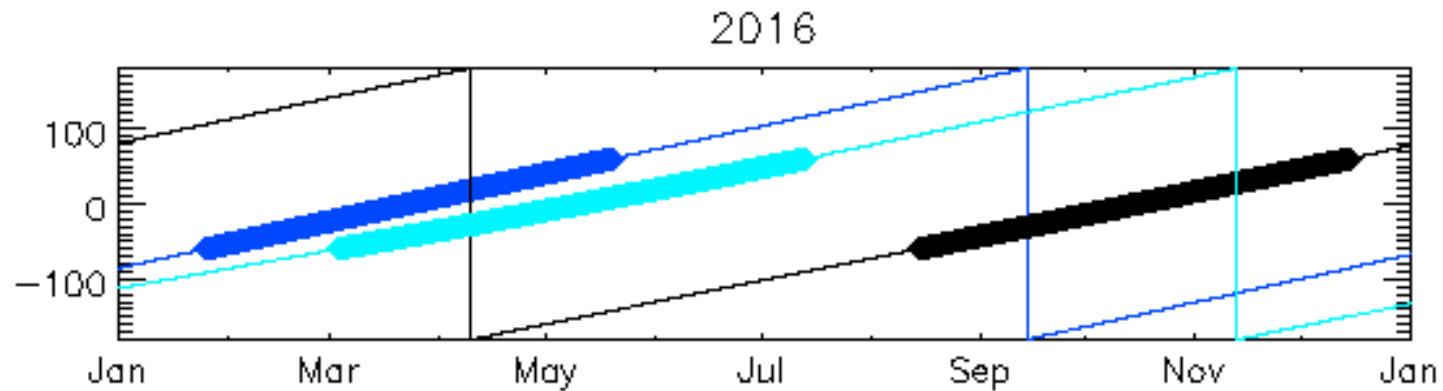
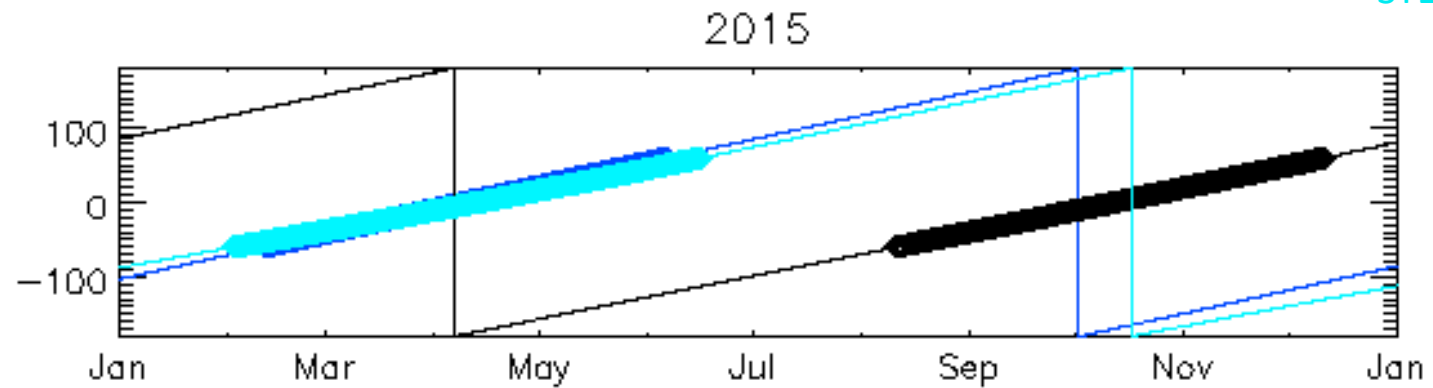
Uranus-Sun-input angle 2015-2016

Thick line: $|\text{angle}| < 60$ deg.

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STEREO-A

STEREO-B



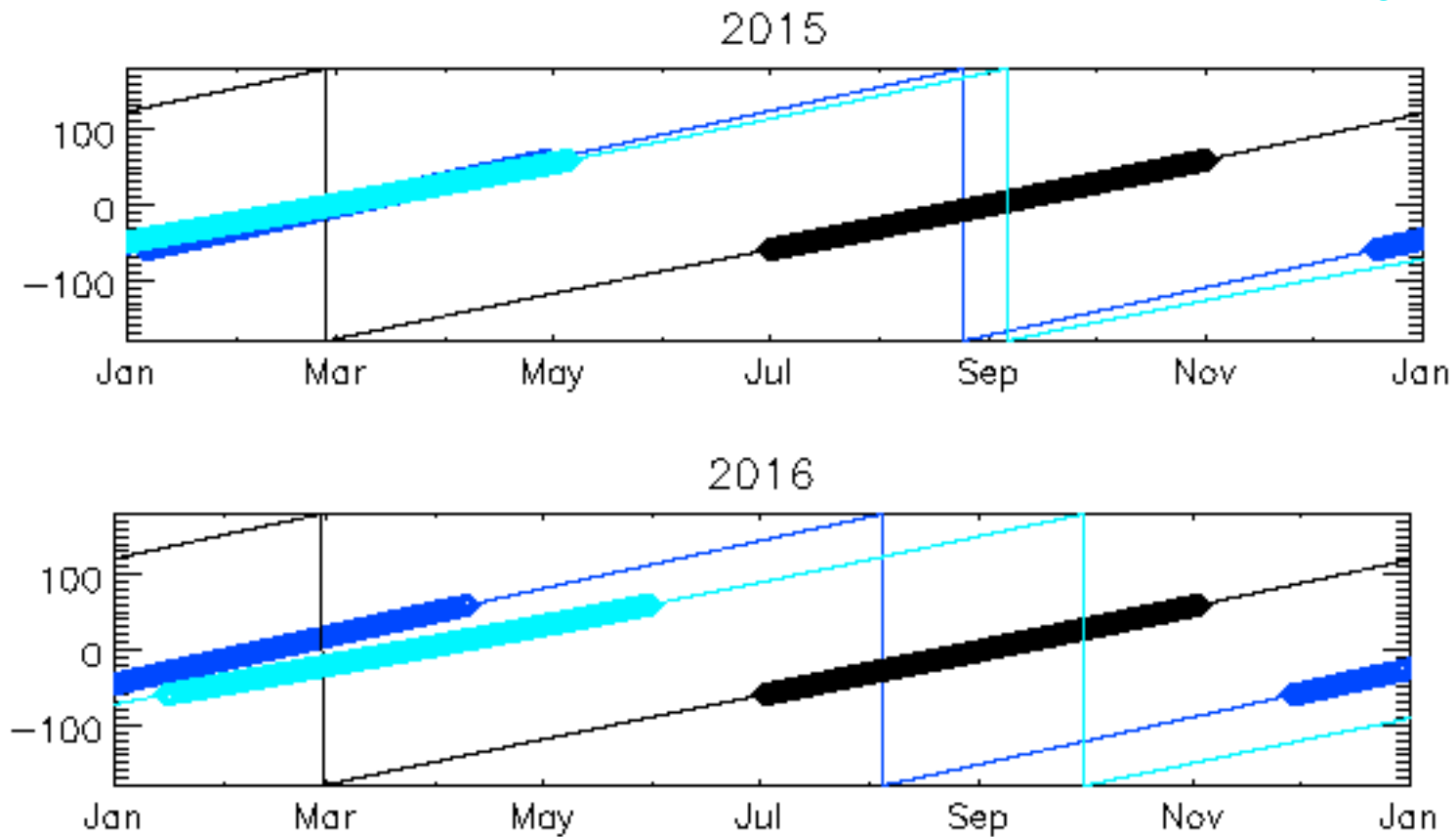
Neptune-Sun-input angle 2015-2016

Thick line: $|\text{angle}| < 60$ deg.

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STEREO-A

STEREO-B



Work to do

- 1) Model validation
- 2) Histogram of the solar wind dynamic pressure & velocity etc. as information how big these are