STEREO/WAVES

Interplanetary Radio Burst Tracker

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as told by Keith Goetz

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Status

- Both A & B receivers continue to function nominally
  - No unexpected resets or anomalies
  - No trend changes in HK parameters

- Operations continue to go well
  - Commands go up
  - Telemetry comes down
  - Associated data products are produced and made available
  - Special situations are handled

- We recently did a flight software upload
  - Corrected a number of small issues
  - Added fully functional space weather data - at last!
Glitches - revisited

- We have been struggling to understand some transient events in the time domain
  - Often on A
  - Less often on B

  - Appeared in late January and well into February but then disappeared
  - Returned with a vengeance on 20 July on Ahead
A typical “glitch”
What is this?

- High voltage discharge?
- 1553 noise?
- Control system noise?
- Noise internal to S/WAVES?
- Conducted? Radiated?

- Never seen pre-launch
- Never seen in ground-based testing
  - Not in the lab, not on the spacecraft, not in TV nor in EMC

- So this is bothersome to S/WAVES
- More than that, one wonders what’s going on - something interesting?

- We may, in the past, have accused one or more STEREO subsystems of making this puzzling noise…
- …I apologize
- More later
Daily summary plots available (http://swaves.gsfc.nasa.gov)
French data center

- Many mission data sets are coming on-line at the CDPP
  - Centre de Donnees de la Physique des Plasmas
  - Sponsored by the French space agency - CNES
- This now includes STEREO/WAVES
- Access is not open to the public but is very easy to obtain

- Now open for business at
  - http://cdpp.cesr.fr/
CDPP