All trends stable, except NUV dark elevated due to 3 week safing. Monitoring.

- Programs currently on upcoming schedule: 5
- Programs potentially impacted put on hold until Dark monitor shows only 10-20% elevated rate: 2
- Working with schedulers to screen upcoming programs as dark declines
Recently Completed Work

Documentation:
• STAN Published
  • New technical feasibility policies, Refresher on ACQ recommendations, and report on jitter impact on coronagraphy
• ISR 2018-03 *Investigating the Binary Offset Effect in the STIS CCD*
  • Binary offset effect present as in Boone et al., 2018. Negligible effect
• ISR 2018-04 *Monitoring the STIS Wavelength Calibration: MAMA and CCD First-Order Modes*
  • Wavelength dispersion solution with improved monitor shows it’s constant and within spec post-SM4.
• ISR 2018-05 *Performance of the STIS CCD Dark Rate Temperature Correction*
  • Investigation of how dark scales with CCD temperature over time. Current correction good
• ISR 2018-06 *Impacts of Focus on aspects of STIS UV Spectroscopy*
  • Qualitative impacts to spatial profile of 1st order and Echelle spectra; investigation of EE evolution

Other Work:
• Jitter investigations, New TDF Monitor, Verification of empirical CTECORR for CCD spectra
Coronagraphic Response to Jitter

- **RMS Counts @0.35″**
  - **High Jitter RMS Counts**
  - **Low Jitter RMS Counts**

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High Priority Future Work

- E140M Full Recalibration—fix blaze function shape changes and assess need for full legacy flux calibration
- Echelle Dispersion Monitor Revamp—assess need for legacy wavelength dispersion solutions
- New Fringe Flat Tool—experiment with creating more user friendly tool, study the utility of a generic fringe correction
- Revisit SI Monitoring strategies, including focus

Special Calibration Programs

- 15602: White Dwarf Cross-calibration Program—continue bi-annual monitoring of HST primary standards
- 15603: Coronagraphic Jitter Monitor-Pulled forward to Cycle 25 (Executed on Sep. 23; 1 week prior to G2 failure)