# HRC Imaging Calibration

**COMPLETED**
**http://asc.harvard.edu/cal/Links/HRC...**

- **Background Count Rate*** **.../CIP/bkgd.html**
- **Gain Maps*** **.../CIP/gain.html**
- **Hot/Bad Pixel Maps*** **.../CIP/badpix.html**
- **PHA Response*** **.../CIP/mcp_pha.html**
- **QE versus Angle of Incidence .../CIP/pore_resp.html**
- **Count Rate Linearity .../CIP/cnt_rate_lin.html**
- **UVIS with fine structure features .../CIP/uvis_trans.html**
- **Filtering and De-ringing software .../CIP/filter.html**
- **HRC-S MCP On-axis QE (uncertainty $< 15\%$)**
  **http://asc.harvard.edu/cal/Links/Letg/User/calstatus.html**
- **Upgrades to web site e.g. Issues Status page, Timing Measurements page**

*** Will be monitored and updated if necessary**

# HRC Imaging Calibration (cont.)

**ON GOING WORK**

**http://asc.harvard.edu/cal/Links/Hrc/hrc_stat.html**

- **QE Uniformity Maps: Format and details being finalized; next generation being outlined; current generation release summer.**
- **Degap Map for S: New and improved filtering and handling of data underway; release late summer.**
- **MCP Quantum Efficiency: Next version of HRC-I on-axis model nearly complete. Uncertainty above 0.277 keV $< 7\%$ . Continuing to work on data to reduce the uncertainty at lower energies.**
- **Point-Spread Function: Reprocessing of data with new degap maps recently completed. Analysis in process.**
- **Full HRC Effective Area: Dependent upon update of on-axis QE results and final QEU maps. Expected releases fall**