

HST INS Work Item Data Sheet

1. SI/Title: ACS/ASCS Study
2. INS Lead: M. Sirianni
3. Description of Work:

Study temperature-dependencies of CTE, QE, dark current, bad pixel behavior to see if the ASCS is needed for the best operation of the ACS. Write one or more ISRs as the formal report of the study.

Calibration data to support this study will be obtained in November 2005.
4. Schedule Constraints and Dependencies:

An ASCS decision is needed from the HST Project by early Spring 2006.
5. Risks and Open Issues:

Risk – If the calibration observations do not correctly complete in November 2005, then the study will be delayed. Mitigation: repeat any failed observations in the Spring.
6. Priority: High
7. Priority Justification:

This study could have an impact on the SM4 manifest.
8. Resources (including estimated calendar duration for each portion):
 - a. Requirements
ACS Instrument Scientist (0.21 FTE)
 - b. Development
ACS Commanding Developer
 - c. Testing
ACS Commanding Developer
Instrument Engineer
9. Documentation and Deliverables:

Calibration ISR