

HST INS Work Item Data Sheet

1. SI/Title: NICMOS/Temperature from Bias
2. INS Lead: A. Koekemoer
3. Description of Work:

The purpose of this item is to determine how to measure the NICMOS detector temperature from the observed bias level, then incorporate the resulting algorithm into the PyRAF code and/or the CALNICA pipeline code. Develop a regression test suite of datasets and test the algorithm and its implementation for correctness.
4. Schedule Constraints and Dependencies:

The team is ready to start writing requirements for this (as of November 17, 2005).
5. Risks and Open Issues:

Open Issue – The study to determine how well the observed bias level tracks temperature is ongoing.
6. Priority: High
7. Priority Justification:

Completing this work will provide a higher precision measurement of the detector temperature than is obtained from the temperature sensors, making dark current and DQE calibrations more accurate.
8. Resources (including estimated calendar duration for each portion):
 - a. Requirements
NICMOS Instrument Scientist (Koekemoer)
 - b. Development
STSDAS Developer
CALNICA Developer
NICMOS Data Analyst
 - c. Testing
NICMOS Data Analyst
9. Documentation and Deliverables:

NICMOS ISR
STSDAS Code Delivery (PyRAF Code Delivery?)
CALNICA Code Delivery
CDBS Updates(?)
NICMOS Data Handbook Updates(?)