1. SI/Title: Multidrizzle/Improved Distortion Corrections

2. INS Lead: A. Koekemoer

3. Description of Work:
   Update the current version of Multidrizzle to incorporate better distortion corrections. First, the accuracy of the current corrections needs to be assessed, along with potential sources of the inaccuracies. Then, if necessary, the software will be modified to correct the identified deficiencies. Any software changes, and their resulting improvements in the accuracy of the distortion correction, will be documented in the instruments’ Data handbooks.

4. Schedule Constraints and Dependencies:

5. Risks and Open Issues:

6. Priority: High

7. Priority Justification:
   Better distortion corrections will improve the photometry of objects based on drizzled data, as well as improving astrometry from those images.

8. Resources (including estimated calendar duration for each portion):
   a. Requirements
      Instrument Scientists

   b. Development
      STSDAS Developer

   c. Testing
      Instrument Scientists
      Data Analysts
      STSDAS Test Engineer

9. Documentation and Deliverables:
   STSDAS Code Deliveries
   OPUS Pipeline Code Deliveries
   Data Handbook Updates
   Regression test Updates