ID: ERO-01

APPLICABLE REQUIREMENTS: L.10.4.6

DESCRIPTION: The Early Release Observations (EROs) are intended to demonstrate that the newly installed science instruments, along with the repaired existing ones, enable HST to produce superb astronomical images and premier science at of unprecedented quality. WFC3, COS, ACS, STIS, and NICMOS will all be used to produce EROs.

BEST IMPLEMENTED AS: SMS Proposals.

DEPENDENCIES: The EROs will be performed as each of the relevant instruments are commissioned for science operations.

- WFC3 UVIS EROs after WF21 UVIS Fine Alignment
- WFC3 IR EROs after WF22 IR Fine Alignment
- COS NUV EROs after COS15 NUV Internal Wavelength Verification
- COS FUV EROs after COS15 FUV Internal Wavelength Verification
- ACS EROs after ACS11 CCD Sensitivity, Geometric Distortion, and Flat-Field Stability
- STIS CCD EROs after STIS11 CCD Focus check
- STIS MAMA EROs after STIS23/24FUV/NUV Image Quality
- NICMOS EROs after NIC07 Aperture Location

DURATION: TBD orbits.

RESULTS: Images of astronomical objects, and a description of the contents of the images; the latter will discuss how the images show that WFC3 and COS greatly enhance HST’s scientific capabilities and that the repaired science instruments provide restored capabilities for advancement our knowledge of the universe.
ANALYSIS: The images will be obtained and released through the coordination of the STScI/GSFC, NASA Headquarters, and the science teams.

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