WFC3 Science Status Summary

Parameter	UVIS Channel	IR Channel
Read Noise	3.1 – 3.2 e-	Up-the-ramp: 12.5 e- (16 samples) CDS = 22-23 e-
Dark Current	1.5 e-/pix/hour (0.3 expected)	0.05 e-/pix/second
Gain	1.6 - 1.63 e-/DN	2.3-2.45 e-/DN
Throughput	5 to 20% above ground tests	~10-15% above ground tests
Photometric Stability	<1%	<1% (wide and medium), 1-2% (narrow)
Image Quality	nominal	nominal
Background	TBD	between 100% - 140% above expectations
LOS stability over 2 orbits (milliarcseconds)	max excursion = 14 Specification = 10	max excursion = 25 Specification = 20
Pointing	Nominal (SIAF Update installed on Day 215)	
Geometric Distortion Accuracy	0.08 pix (3 milliarcseconds RMS)	0.08 pix (10 milliarcseconds RMS)
Current Flat Field Correction Accuracy	1-3% depending on filter	3%
Grisms	To be calibrated in Cycle 17	Throughput 10% above expectations Dispersion nominal

WFC3 Engineering Status Summary

Parameter	UVIS Channel	IR Channel
Lamps	Tungsten and D2 verified (slightly brighter than ground test)	Tungsten verified (slightly brighter than ground test)
QEH	Bowtie mitigation works to ~0.5%	< 1%
Thermal	Good margin on UVIS @ -83C	Expect to maintain IR @-128C for Cycle 17
Anneal	Done 3x under SMS control; Hot pixel removal >70%	N/A
SAA Passage	Contours nominal	Contours nominal 12% pixels hit per minute in SAA core.