



11443 - WFC3 FGS-IR Alignment

Cycle: 17, Proposal Category: SM4/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) NGC-188-58	WFC3/IR	1	02-Sep-2008 21:02:43.0	yes

1 Total Orbits Used

ABSTRACT

Mapping of the WFC3 IR detector coordinate frame to the FGS frame will be determined from observations of an astrometric field with the WFC3 IR channel. Image quality over the field will also be assessed to verify the final adjustments to the corrector mechanisms from program 11435.

OBSERVING DESCRIPTION

Images of an area near the center of the open cluster NGC-188, an astrometric field, will be obtained with the IR detector using astrometric guidestars. The target, previously used for the analogous ACS calibration, will be observed with POS-TARGs (0,0), (0,15), and (0,-25). The FGS (V2-V3) positions of the astrometric stars in each field will be computed by HST Flight Operations at GSFC. The POS-TARG offsets will be used to corroborate the plate scales and orientations of the images in the FGS frame. Measurement of stellar positions on the detector will be used to map the IR detector coordinate frame to the FGS frame. Image quality over the field will also be assessed to verify the final adjustments to the corrector

mechanisms from program 11435 (WFC3 IR Fine Alignment). Filter F128N will be used to avoid saturation of the brightest stars near the beginning of the RAPID sequence.

CALIBRATION JUSTIFICATION

WFC3/IR target acquisition and astrometric calibration are dependent on the successful implementation of this proposal.

ADDITIONAL COMMENTS

This proposal must follow successful implementation of proposal 11435 (WFC3 IR Fine Alignment). We will expect to see a SIAF update as a result of this proposal.

Proposal 11443 - Visit 01 - WFC3 FGS-IR Alignment

Wed Sep 03 01:02:47 GMT 2008

Visit	Proposal 11443, Visit 01 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NGC-188-58	RA: 00 47 4.4540 (11.7685583d) Dec: +85 16 32.70 (85.27575d) Equinox: J2000 Plate Id: ZZZZ	Proper Motion RA: -0.00257s/yr Proper Motion Dec: -0.0112"/yr Epoch of Position: 2000	V=14.65+/-0.05	Reference Frame: GSC1				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NGC-188-58	WFC3/IR, MULTIACCUM, IR-FIX	F128N	SAMP-SEQ=RAPID ;	GS ACQ SCENARI O BASE1B3		[==>]	[1]
	2		(1) NGC-188-58	WFC3/IR, MULTIACCUM, IR-FIX	F128N	SAMP-SEQ=RAPID ;	POS TARG -15,0		[==>]	[1]
	3		(1) NGC-188-58	WFC3/IR, MULTIACCUM, IR-FIX	F128N	SAMP-SEQ=RAPID ;	POS TARG 0,-25		[==>]	[1]

