14510 - ACS UV Contamination Monitor

Cycle: 24, Proposal Category: CAL/ACS

(Availability Mode: RESTRICTED)

INVESTIGATORS

Name	*Institution*	*E-Mail*
Roberto Avila (PI) (Contact)	**Space Telescope Science Institute**	**avila@stsci.edu**

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(2) NGC6681 DARK	ACS/SBC	1	07-Sep-2016 17:28:11.0	yes
02	(2) NGC6681 DARK	ACS/SBC	1	07-Sep-2016 17:28:12.0	yes

2 Total Orbits Used

ABSTRACT

The observations consist of SBC imaging and spectroscopy of the cluster NGC 6681 in order to monitor the temporal evolution of the UV sensitivity. All six filters and the two prisms will be used. Two SBC dark frames will follow the orbits.

OBSERVING DESCRIPTION

The SBC observations will be through all six filters (F115LP, F122M, F125LP, F140LP, F150LP, F165LP) and the prisms PR110L and PR130L. These observations will be taken once during the cycle. Two SBC dark frames will follow the SBC orbits. The main objective is to monitor possible variations of UV throughput with time. The secondary objective is to monitor the behavior of the SBC darks.

Visit

Proposal 14510, Visit 01, implementation Wed Sep 07 21:28:13 GMT 2016

Diagnostic Status: Warning

Scientific Instruments: ACS/SBC

Special Requirements: ORIENT 230D TO 250 D

Diagnostics

(Exposure 1 (Pattern 1, Exps 1-1 in Visit 01)) Warning (Form): Sensitive exposures should have an ETC run number provided.

(Exposure 2 (Pattern 1, Exps 2-2 in Visit 01)) Warning (Form): Sensitive exposures should have an ETC run number provided.

(Exposure 3 (Pattern 1, Exps 3-3 in Visit 01)) Warning (Form): Sensitive exposures should have an ETC run number provided.

(Exposure 4 (Pattern 1, Exps 4-4 in Visit 01)) Warning (Form): Sensitive exposures should have an ETC run number provided.

(Exposure 5 (Pattern 1, Exps 5-5 in Visit 01)) Warning (Form): Sensitive exposures should have an ETC run number provided.

(Exposure 6 (Pattern 1, Exps 6-6 in Visit 01)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.472 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false		(1), (2), (3), (4), (5), (6)

Fixed Targets

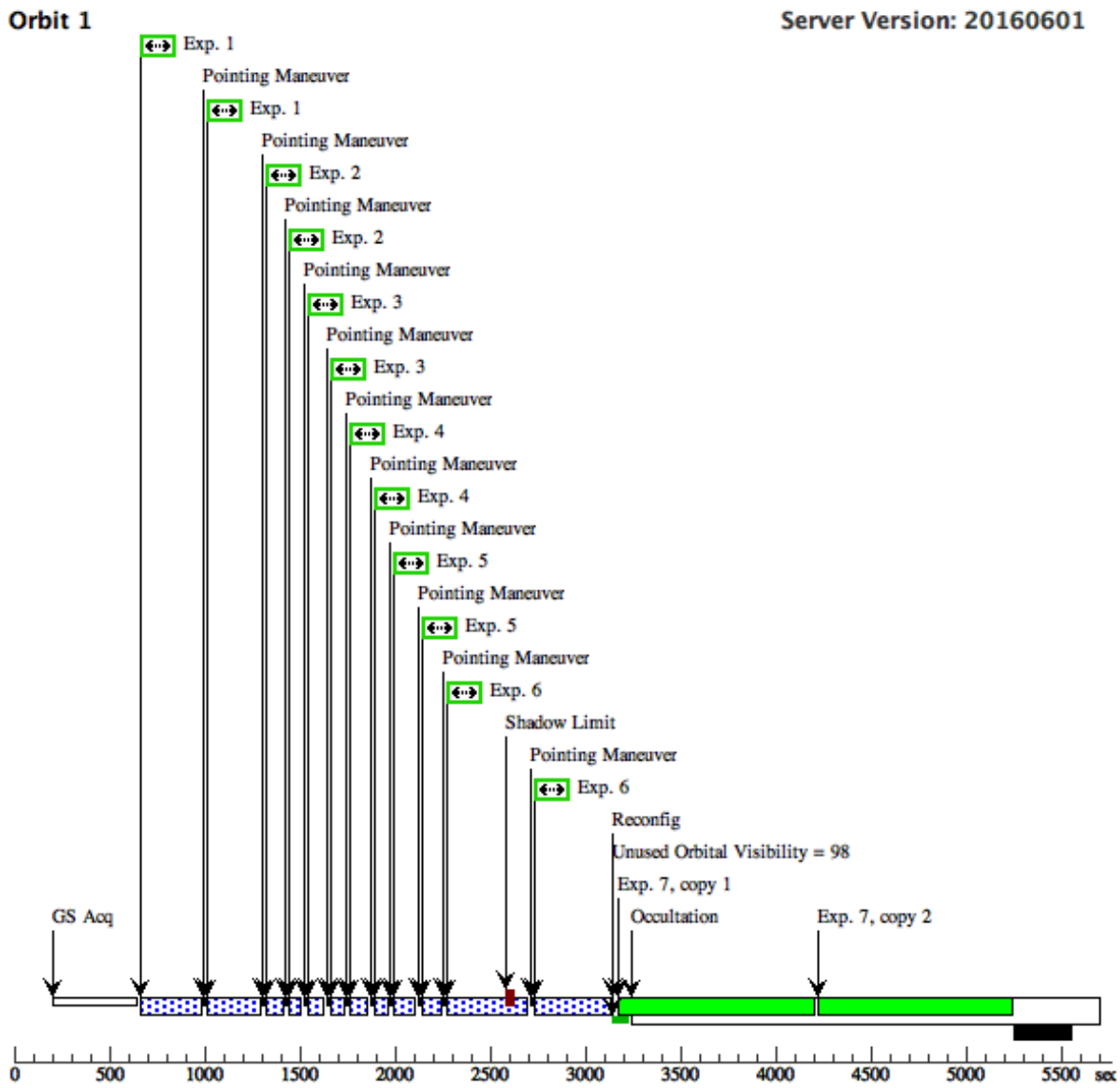
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	NGC6681 Alt Name1: M70	RA: 18 43 12.7500 (280.8031250d) Dec: -32 17 32.76 (-32.29243d) Equinox: J2000		V=15.+/-0 F-CONT(1600)=2.5e-15	Reference Frame: ICRS

Comments: Fluxes are for brightest star from Watson et al (1994 Ap.J., 435, L55)

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) NGC6681	ACS/SBC, ACCUM, SBC	PR130L		SHADOW	Pattern 1, Exps 1-1 in Visit 01 (1)	250 Secs (500 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
2		(2) NGC6681	ACS/SBC, ACCUM, SBC	F115LP			Pattern 1, Exps 2-2 in Visit 01 (1)	35 Secs (70 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
3		(2) NGC6681	ACS/SBC, ACCUM, SBC	F125LP			Pattern 1, Exps 3-3 in Visit 01 (1)	40 Secs (80 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
4		(2) NGC6681	ACS/SBC, ACCUM, SBC	F140LP			Pattern 1, Exps 4-4 in Visit 01 (1)	47 Secs (94 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
5		(2) NGC6681	ACS/SBC, ACCUM, SBC	F150LP			Pattern 1, Exps 5-5 in Visit 01 (1)	70 Secs (140 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
6		(2) NGC6681	ACS/SBC, ACCUM, SBC	F165LP			Pattern 1, Exps 6-6 in Visit 01 (1)	375 Secs (750 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
7		DARK	ACS/SBC, ACCUM, SBC	DEF				1020 Secs X 2 (2040 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***

Orbit Structure



Visit

Proposal 14510, Visit 02, implementation Wed Sep 07 21:28:13 GMT 2016

Diagnostic Status: Warning

Scientific Instruments: ACS/SBC

Special Requirements: SAME ORIENT AS 01

Diagnostics

(Exposure 1 (Pattern 1, Exps 1-1 in Visit 02)) Warning (Form): Sensitive exposures should have an ETC run number provided.

(Exposure 2 (Pattern 2, Exps 2-2 in Visit 02)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.472 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false		(1)
(2)	Pattern Type=ACS-SBC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.179 Line Spacing=0.116	Coordinate Frame=POS-TARG Pattern Orientation=20.02 Angle Between Sides=63.65 Center Pattern=false		(2)

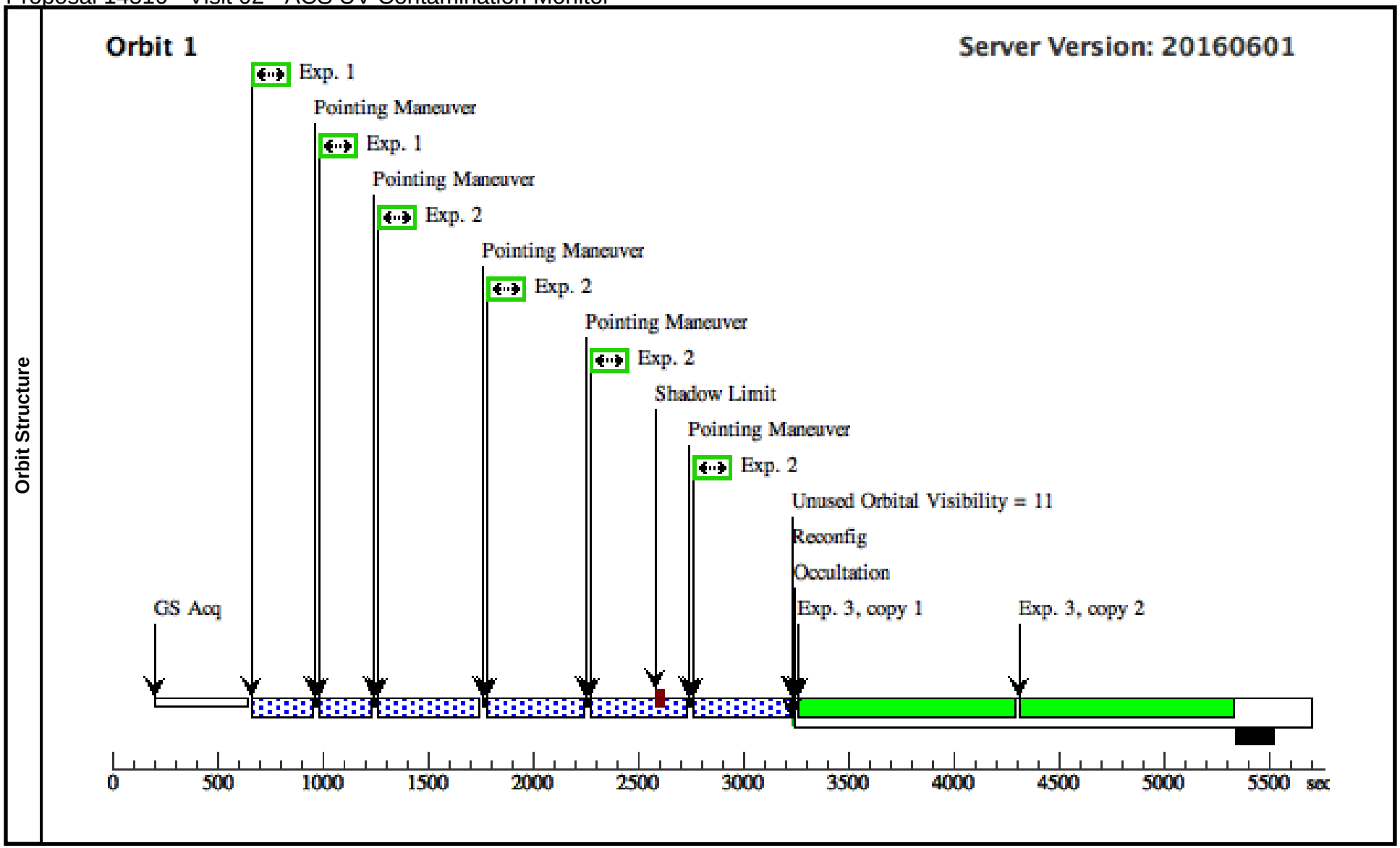
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	NGC6681 Alt Name1: M70	RA: 18 43 12.7500 (280.8031250d) Dec: -32 17 32.76 (-32.29243d) Equinox: J2000		V=15.+/-0 F-CONT(1600)=2.5e-15	Reference Frame: ICRS

Comments: Fluxes are for brightest star from Watson et al (1994 Ap.J., 435, L55)

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) NGC6681	ACS/SBC, ACCUM, SBC	PR110L		SHADOW	Pattern 1, Exps 1-1 in Visit 02 (1)	220 Secs (440 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]*	***[1]***
2		(2) NGC6681	ACS/SBC, ACCUM, SBC	F122M			Pattern 2, Exps 2-2 in Visit 02 (2)	430 Secs (1720 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3		DARK	ACS/SBC, ACCUM, SBC	DEF				1020 Secs X 2 (2040 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***


Orbit 1
Server Version: 20160601
Orbit Structure
Exp. 1
Pointing Maneuver
Exp. 1
Pointing Maneuver
Exp. 2
Pointing Maneuver
Exp. 2
Pointing Maneuver
Exp. 2
Shadow Limit
Pointing Maneuver
Exp. 2
Unused Orbital Visibility = 11
Reconfig
Occultation
GS Acq
Exp. 3, copy 1
Exp. 3, copy 2
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec