



## 15318 - Detecting Isolated Black Holes through Astrometric Microlensing

Cycle: 25, Proposal Category: GO

(Availability Mode: SUPPORTED)

### 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	(2) OGLE-2017-BLG-0302	WFC3/UVIS	1	15-Jan-2019 17:02:01.0	yes
02	(2) OGLE-2017-BLG-0302	WFC3/UVIS	1	15-Jan-2019 17:02:03.0	yes
03	(2) OGLE-2017-BLG-0302	WFC3/UVIS	1	15-Jan-2019 17:02:06.0	yes
05	(2) OGLE-2017-BLG-0302	WFC3/UVIS	1	15-Jan-2019 17:02:08.0	yes
52	(2) OGLE-2017-BLG-0302	WFC3/UVIS	1	15-Jan-2019 17:02:10.0	yes
04	(1) OGLE-2017-BLG-328	WFC3/UVIS	1	15-Jan-2019 17:02:13.0	yes
06	(1) OGLE-2017-BLG-328	WFC3/UVIS	1	15-Jan-2019 17:02:15.0	yes

<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>
08	(1) OGLE-2017-BLG-328	WFC3/UVIS	1	15-Jan-2019 17:02:16.0	yes
07	(2) OGLE-2017-BLG-0302	WFC3/UVIS	1	15-Jan-2019 17:02:18.0	yes
09	(2) OGLE-2017-BLG-0302	WFC3/UVIS	1	15-Jan-2019 17:02:19.0	yes

10 Total Orbits Used

## **ABSTRACT**

A significant fraction of the mass of an old stellar population should be in the form of isolated black holes (BHs). Yet there has never been an unambiguous detection of a solitary BH. The only technique available to detect isolated BHs is astrometric microlensing--relativistic deflection of light from background stars.

We have carried out 2 HST programs aimed at the first detection of isolated BHs through astrometric microlensing. Our first program was a multi-year program where we monitored 5 microlensing events with  $T > 100$  days in the Galactic bulge. We detected astrometric deflections, but the inferred masses for all these events are  $< 0.5 M_{\text{sun}}$ , indicating that these lenses are low-mass stars with small relative proper motions. Our second program was a large multi-cycle program where we monitored  $\sim 3$  million stars in the Galactic bulge for 3 years to simultaneously detect microlensing events and determine their astrometric shifts. We have detected a large number of microlensing events. However, once again, none of them show appreciable astrometric deflections indicative of massive BHs.

Our results imply that either isolated BHs are more massive ( $> 10 M_{\text{sun}}$ ), or  $T \sim 100$  day events are dominated by low-mass stars moving more slowly, or BHs are much rarer. BHs with mass  $> 10 M_{\text{sun}}$  are expected to have  $T > 300$  days, and such very-long duration events are extremely unlikely to be caused by low-mass stars. Monitoring a few  $T > 300$ -day events thus offers the last but most promising opportunity to detect isolated BHs, and distinguish between the above possibilities. After the recent upgrades, OGLE detects six  $T > 300$  days events each year, here we propose to monitor 4 such events.

## **OBSERVING DESCRIPTION**

We will employ the same observational strategy we have followed earlier. Basically, we will image each field using WFC3, primarily with the F814W filter, but also with F606W. We will employ a 6-point dithering pattern, where we will observe the target star and the reference stars at a variety of pixel phases, thereby allowing us to construct an exquisite model of the PSF, and also randomize any remaining (small) systematic errors

Proposal 15318 (STScI Edit Number: 16, Created: Tuesday, January 15, 2019 at 5:02:19 PM Eastern Standard Time) - Overview related to pixelization. Our dithers will also involve offsets of  $\sim 100$  pixels, so that we will observe the target star at different places on the detector, so that any remaining distortion errors will average out. We expect such errors to be small ( $< 0.01$  pixel), but randomizing them will be worthwhile. The procedure described here does not require the observations at different epochs to be taken in the same ORIENT, which makes the scheduling easier.

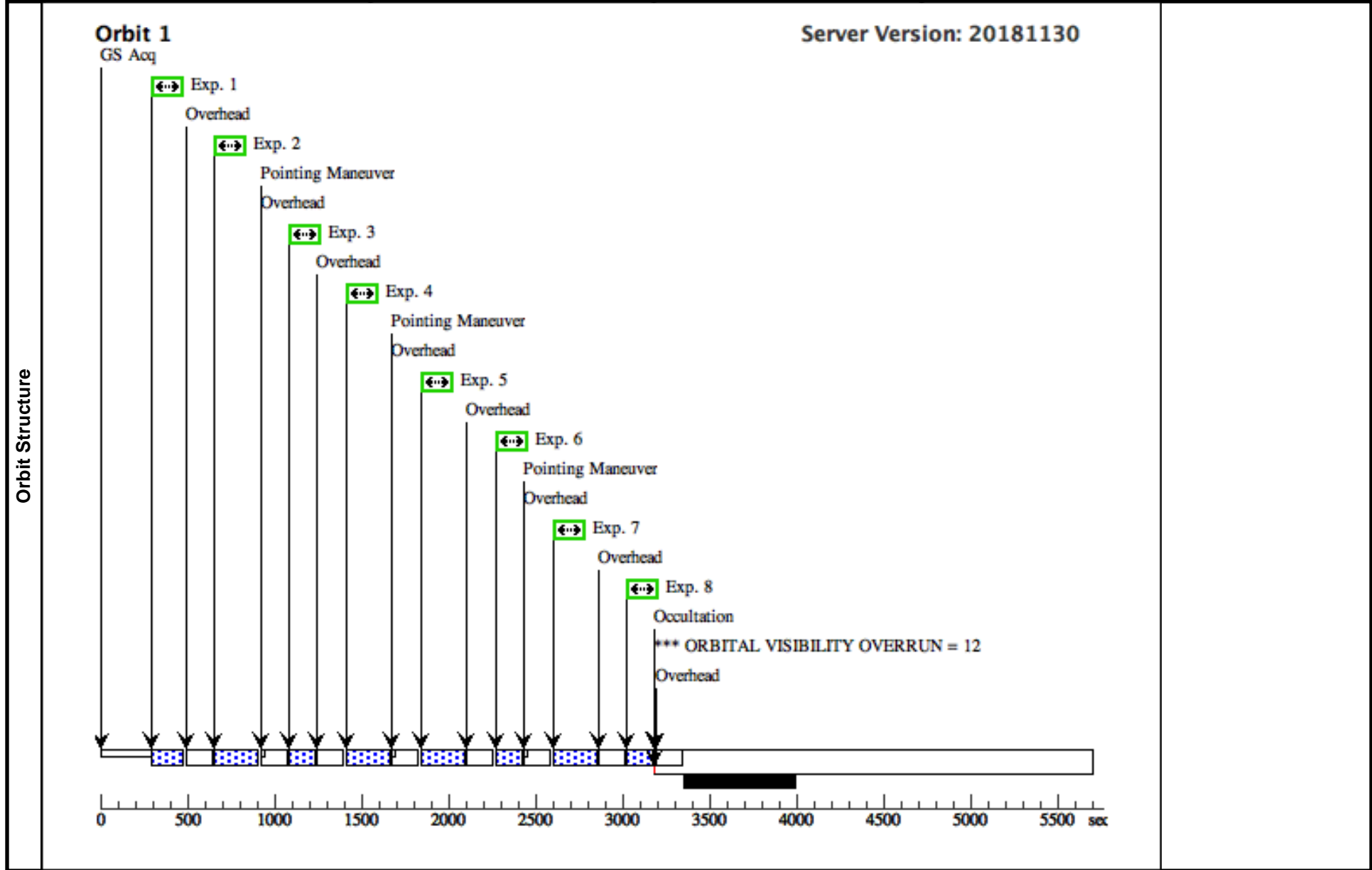
In a rich stellar field such as the Galactic bulge, there is always a large number of reference stars available in an WFC3 field, making it possible to achieve the highest possible astrometric accuracy. We will also image the field in the F606W and F814W filters. If there is blending, then the centroid shift is expected to be color dependent; V-band observations will provide additional help in evaluating the possible color-dependent blending contribution. The combined V and I-band observations will require one orbit per target at each epoch. We will observe at 5 different epochs which will be adequate to separate the proper motions from the deflections caused by lensing. For each event, we will obtain 2 observations in cycle 25, 2 observations in cycle 26, and 1 observation in cycle 27.

These observations need to be considered as ToO since the targets will be chosen after we find suitable candidates from OGLE alerts.

Proposal 15318 - Visit 01 - Detecting Isolated Black Holes through Astrometric Microlensing

Tue Jan 15 22:02:19 GMT 2019

<b>Visit</b>	<b>Proposal 15318, Visit 01, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 90D TO 90 D; BETWEEN 19-AUG-2017 AND 23-AUG-2017									
	(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 2 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 3 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 4 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 5 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 6 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 7 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 8 (Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(2)	OGLE-2017-BLG-0302	RA: 17 41 35.9300 (265.3997083d) Dec: -34 33 19.30 (-34.55536d) Equinox: J2000		V=19.25+/-2	Reference Frame: ICRS				
<i>Comments:</i> Category=EXT-STAR Description=[A0-A3 III-I]										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(2) OGLE-2017-BL G-0302	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	CR-SPLIT=NO	POS TARG 22.25,9		150 Secs (150 Secs) [==>]	[1]
	2	(2) OGLE-2017-BL G-0302	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	CR-SPLIT=NO	SAME POS AS 1		250 Secs (250 Secs) [==>]	[1]
	3	(2) OGLE-2017-BL G-0302	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	CR-SPLIT=NO	POS TARG 10.37,20 .85		150 Secs (150 Secs) [==>]	[1]
	4	(2) OGLE-2017-BL G-0302	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	CR-SPLIT=NO	POS TARG 10.37,20 .85		250 Secs (250 Secs) [==>]	[1]
	5	(2) OGLE-2017-BL G-0302	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	CR-SPLIT=NO	POS TARG -1.45,8.95		250 Secs (250 Secs) [==>]	[1]
	6	(2) OGLE-2017-BL G-0302	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	CR-SPLIT=NO	POS TARG -1.45,8.95		150 Secs (150 Secs) [==>]	[1]
	7	(2) OGLE-2017-BL G-0302	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	CR-SPLIT=NO	POS TARG 10.48,-2 .85		250 Secs (250 Secs) [==>]	[1]
	8	(2) OGLE-2017-BL G-0302	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	CR-SPLIT=NO	SAME POS AS 7		150 Secs (150 Secs) [==>]	[1]



# Proposal 15318 - Visit 02 - Detecting Isolated Black Holes through Astrometric Microlensing

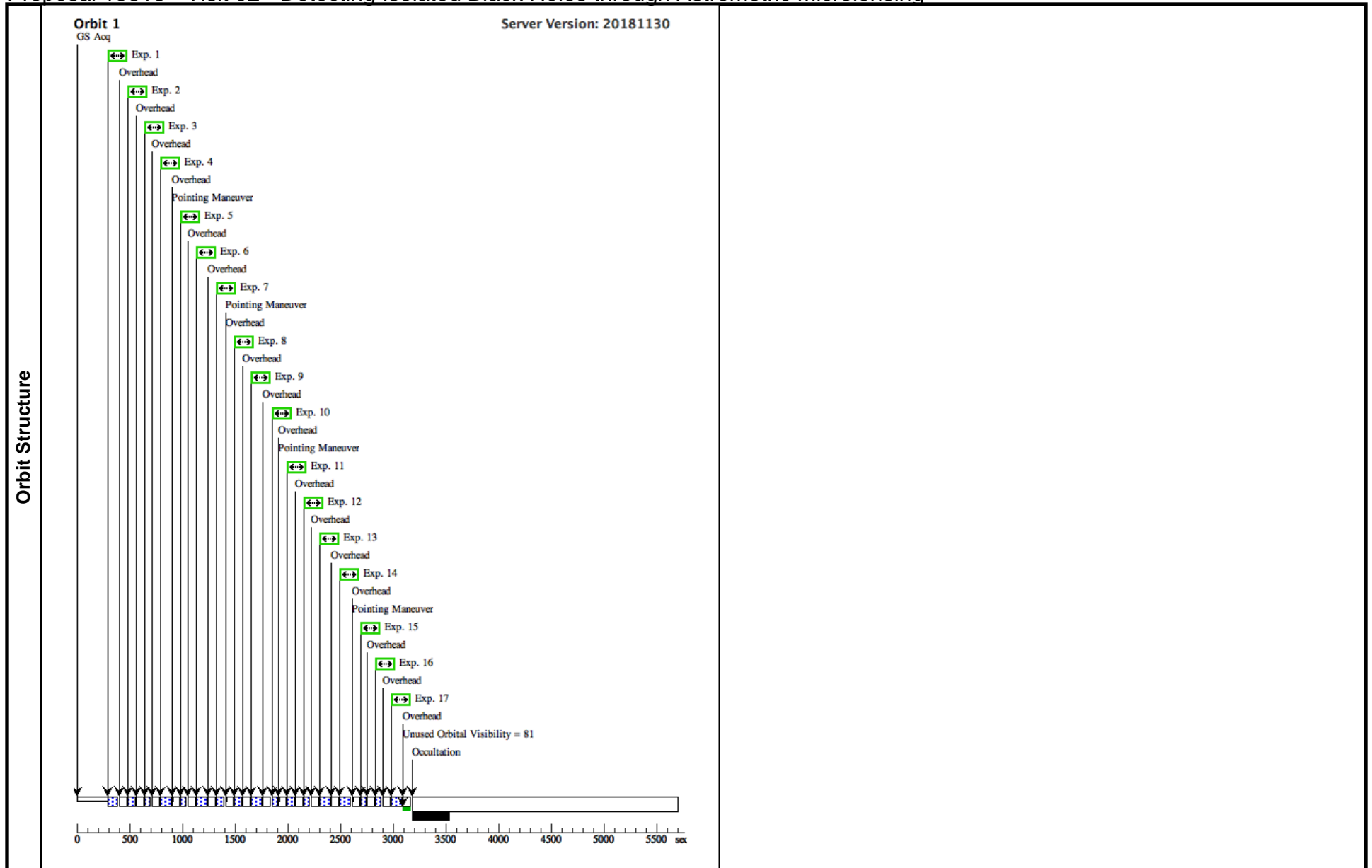
Tue Jan 15 22:02:19 GMT 2019

<b>Visit</b>	<b>Proposal 15318, Visit 02, failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 90D TO 90 D; BETWEEN 23-SEP-2017 AND 27-SEP-2017; ON HOLD <i>On Hold Comments: First visit data need to be analyzed before finalizing the date of observation.</i>						
	<b>Diagnostics</b>	(Exposure 2 (Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 3 (Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 4 (Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 5 (Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 6 (Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 8 (Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 9 (Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 11 (Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 12 (Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 13 (Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 14 (Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 15 (Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 16 (Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 17 (Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
<b>Fixed Targets</b>		<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
		(2)	OGLE-2017-BLG-0302	RA: 17 41 35.9300 (265.3997083d) Dec: -34 33 19.30 (-34.55536d) Equinox: J2000		V=19.25+/-2	Reference Frame: ICRS
<i>Comments:</i> Category=EXT-STAR Description=[A0-A3 III-I]							

Proposal 15318 - Visit 02 - Detecting Isolated Black Holes through Astrometric Microlensing

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=10	POS TARG 0,0		60 Secs (60 Secs)	[1]	
	2	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	SAME POS AS 1		50 Secs (50 Secs)	[1]	
	3	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	SAME POS AS 1		50 Secs (50 Secs)	[1]	
	4	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=6	SAME POS AS 1		100 Secs (100 Secs)	[1]	
	5	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG 3.95,0		50 Secs (50 Secs)	[1]	
	6	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=6	SAME POS AS 5		100 Secs (100 Secs)	[1]	
	7	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=10	SAME POS AS 5		60 Secs (60 Secs)	[1]	
	8	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG 0,3.95		50 Secs (50 Secs)	[1]	
	9	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=6	POS TARG 0,3.95		100 Secs (100 Secs)	[1]	
	10	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=10	POS TARG 0,3.95		40 Secs (40 Secs)	[1]	
	11	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG -3.95,0		50 Secs (50 Secs)	[1]	
	12	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG -3.95,0		50 Secs (50 Secs)	[1]	
	13	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=6	SAME POS AS 11		100 Secs (100 Secs)	[1]	
	14	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=6	SAME POS AS 11		100 Secs (100 Secs)	[1]	
	15	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG null,-3.95		50 Secs (50 Secs)	[1]	
	16	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG null,-3.95		50 Secs (50 Secs)	[1]	
	17	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=6	POS TARG null,-3.95		100 Secs (100 Secs)	[1]	

Proposal 15318 - Visit O2 - Detecting Isolated Black Holes through Astrometric Microlensing



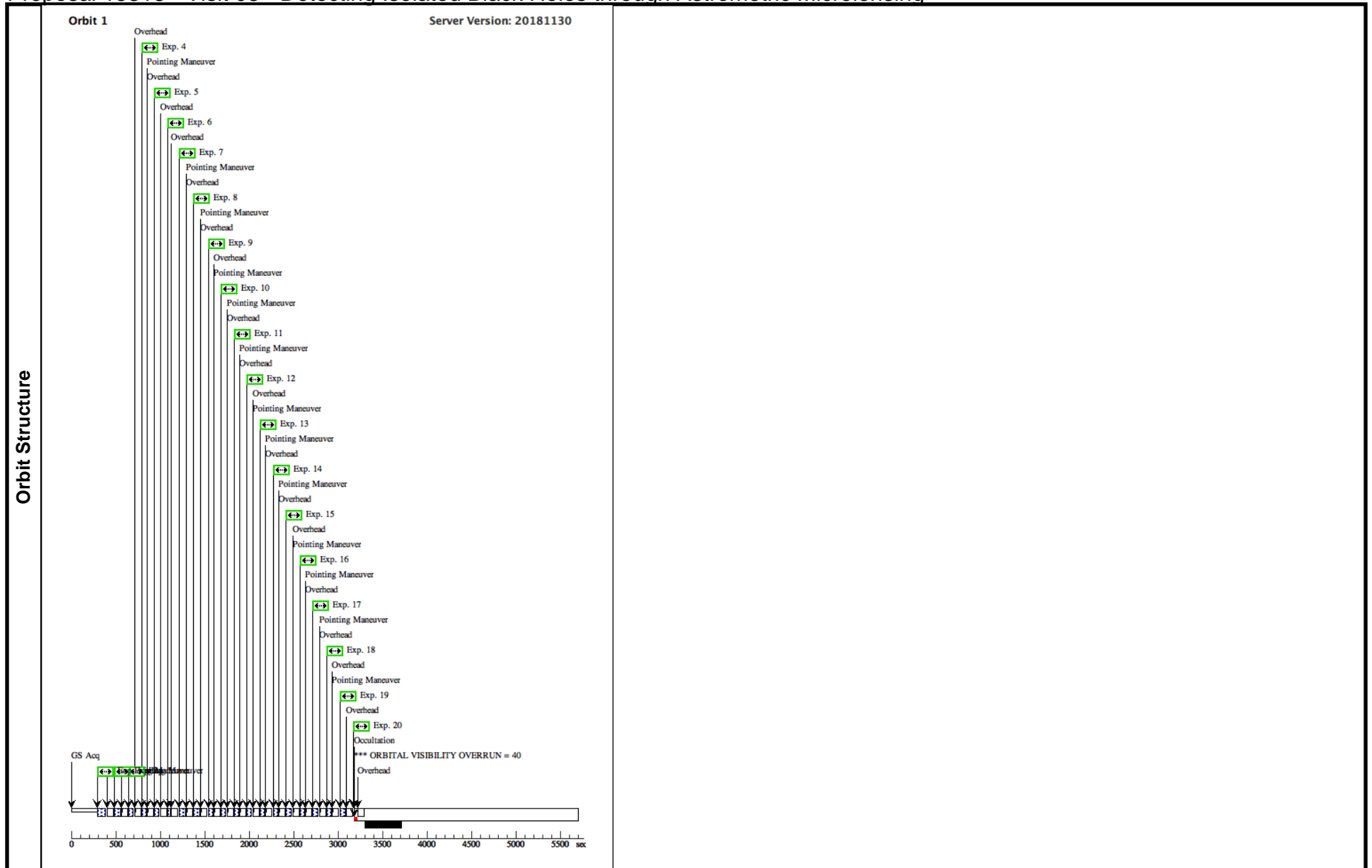
Proposal 15318 - Visit 03 - Detecting Isolated Black Holes through Astrometric Microlensing

Tue Jan 15 22:02:19 GMT 2019

<b>Visit</b>	<p>Proposal 15318, Visit 03, completed</p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 26-OCT-2017 AND 03-NOV-2017</p>					
<b>Diagnostics</b>	<p>(Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>					
<b>Fixed Targets</b>	<p>#</p> <p>(2)</p>	<p>Name</p> <p>OGLE-2017-BLG-0302</p>	<p>Target Coordinates</p> <p>RA: 17 41 35.9300 (265.3997083d)</p> <p>Dec: -34 33 19.30 (-34.55536d)</p> <p>Equinox: J2000</p> <p><i>Comments:</i>  <i>Category=EXT-STAR</i>  <i>Description=[A0-A3 III-I]</i></p>	<p>Targ. Coord. Corrections</p>	<p>Fluxes</p> <p>V=19.25+/-2</p>	<p>Miscellaneous</p> <p>Reference Frame: ICRS</p>

Proposal 15318 - Visit 03 - Detecting Isolated Black Holes through Astrometric Microlensing

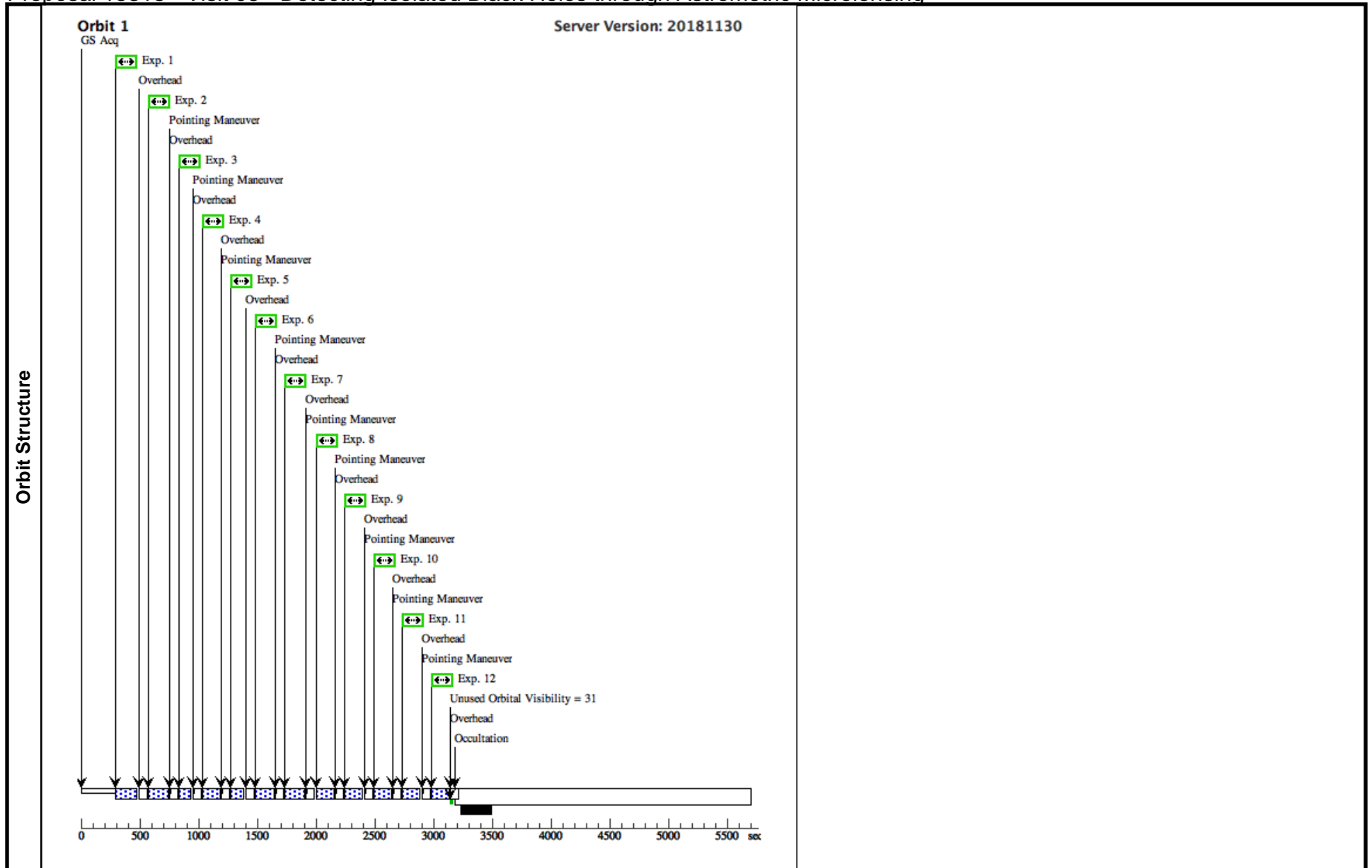
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=11	POS TARG 0,0		60 Secs (60 Secs) [==>]	[1]
	2		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	SAME POS AS 1		50 Secs (50 Secs) [==>]	[1]
	3		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 0.1,0.1		50 Secs (50 Secs) [==>]	[1]
	4		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -0.1,-0.1		50 Secs (50 Secs) [==>]	[1]
	5		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 3.95,0		50 Secs (50 Secs) [==>]	[1]
	6		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=11	SAME POS AS 5		30 Secs (30 Secs) [==>]	[1]
	7		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=11	SAME POS AS 5		60 Secs (60 Secs) [==>]	[1]
	8		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 1.97,3.4 2		50 Secs (50 Secs) [==>]	[1]
	9		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 1.87,3.3 2		50 Secs (50 Secs) [==>]	[1]
	10		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -1.98,3. 42		50 Secs (50 Secs) [==>]	[1]
	11		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -1.88,3. 32		50 Secs (50 Secs) [==>]	[1]
	12		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -3.95,0		50 Secs (50 Secs) [==>]	[1]
	13		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -3.85,0. 1		50 Secs (50 Secs) [==>]	[1]
	14		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -1.96,-3. 43		50 Secs (50 Secs) [==>]	[1]
	15		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -1.86,-3. 33		60 Secs (60 Secs) [==>]	[1]
	16		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -2.06,-3. 53		50 Secs (50 Secs) [==>]	[1]
	17		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 2.00,-3. 41		60 Secs (60 Secs) [==>]	[1]
	18		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 1.90,-3. 31		50 Secs (50 Secs) [==>]	[1]
	19		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 2.10,-3. 51		60 Secs (60 Secs) [==>]	[1]
20		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=12	POS TARG 2.10,-3. 51		30 Secs (30 Secs) [==>]	[1]	



Proposal 15318 - Visit 05 - Detecting Isolated Black Holes through Astrometric Microlensing

Tue Jan 15 22:02:20 GMT 2019

Visit	<b>Proposal 15318, Visit 05, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 17-MAR-2018 AND 26-MAR-2018									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	OGLE-2017-BLG-0302	RA: 17 41 35.9300 (265.3997083d) Dec: -34 33 19.30 (-34.55536d) Equinox: J2000		V=19.25+/-2	Reference Frame: ICRS				
	<i>Comments:</i> Category=EXT-STAR Description=[A0-A3 III-I]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=8	POS TARG 0,0; GSPAIR S8BA0000 47F2S8BA046551F1	150 Secs (150 Secs)	[==>]	[1]	
	2	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	SAME POS AS 1	150 Secs (150 Secs)	[==>]	[1]	
	3	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=9	POS TARG 0.1,0.1	100 Secs (100 Secs)	[==>]	[1]	
	4	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG 2.79,2.79	150 Secs (150 Secs)	[==>]	[1]	
	5	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=9	POS TARG 2.69,2.69	110 Secs (110 Secs)	[==>]	[1]	
	6	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=8	SAME POS AS 5	150 Secs (150 Secs)	[==>]	[1]	
	7	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG -2.79,2.79	150 Secs (150 Secs)	[==>]	[1]	
	8	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG -2.69,2.69	150 Secs (150 Secs)	[==>]	[1]	
	9	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG -2.79,-2.79	150 Secs (150 Secs)	[==>]	[1]	
	10	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG -2.69,-2.69	150 Secs (150 Secs)	[==>]	[1]	
	11	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG 2.79,-2.79	150 Secs (150 Secs)	[==>]	[1]	
	12	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG 2.69,-2.69	150 Secs (150 Secs)	[==>]	[1]	



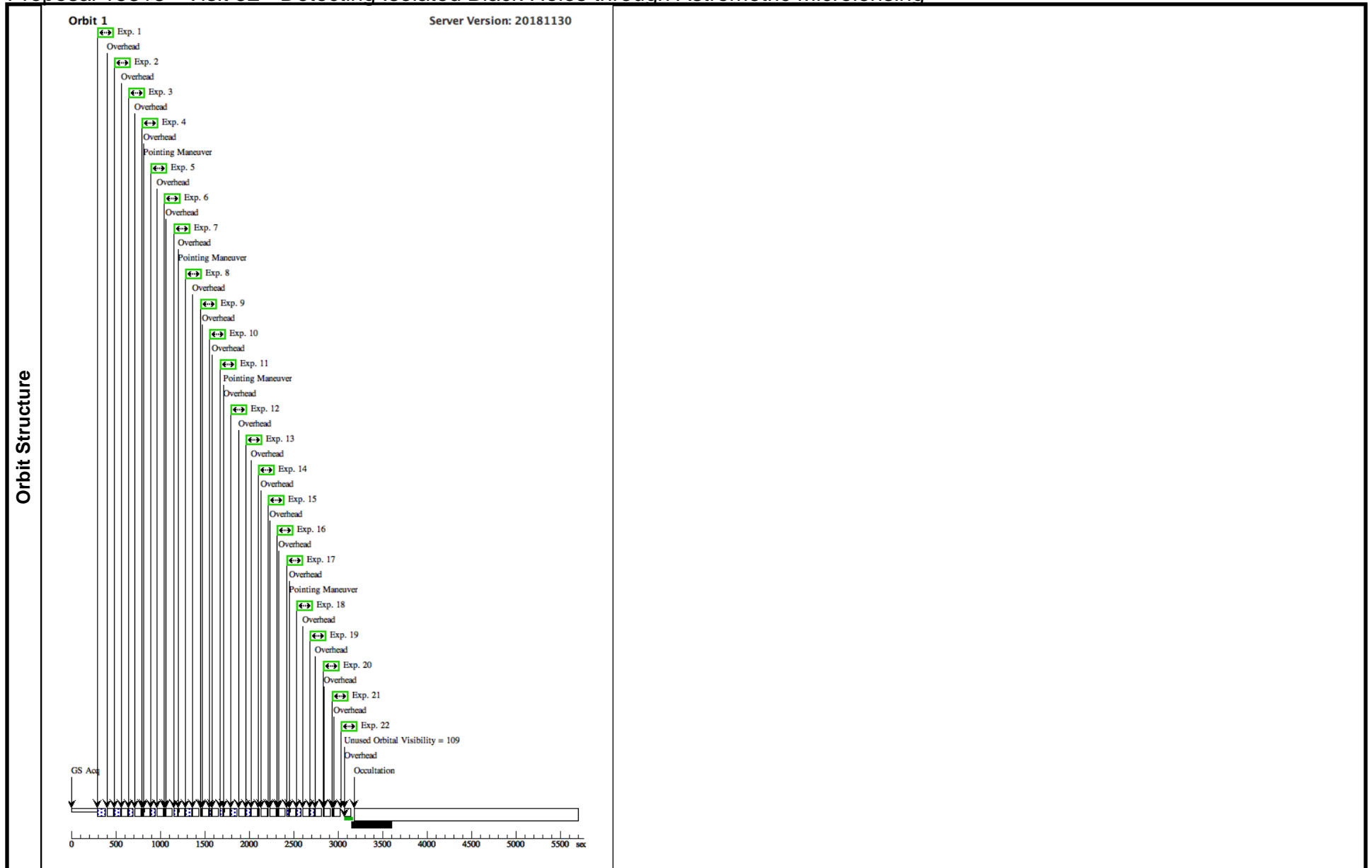
# Proposal 15318 - Visit 52 - Detecting Isolated Black Holes through Astrometric Microlensing

Tue Jan 15 22:02:20 GMT 2019

<b>Visit</b>	<p><b>Proposal 15318, Visit 52, failed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: (none)</p> <p><i>Comments: repeat of visit 2</i></p>					
<b>Diagnostics</b>	<p>(Exposure 2 (Visit 52)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 3 (Visit 52)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 5 (Visit 52)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Visit 52)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 12 (Visit 52)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 13 (Visit 52)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 17 (Visit 52)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 18 (Visit 52)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 19 (Visit 52)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 22 (Visit 52)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(2)	OGLE-2017-BLG-0302	RA: 17 41 35.9300 (265.3997083d) Dec: -34 33 19.30 (-34.55536d) Equinox: J2000		V=19.25+/-2	Reference Frame: ICRS
	<p><i>Comments:</i> Category=EXT-STAR Description=[A0-A3 III-I]</p>					

Proposal 15318 - Visit 52 - Detecting Isolated Black Holes through Astrometric Microlensing

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=10	POS TARG 0,0		60 Secs (60 Secs)	[1]	
	2	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	SAME POS AS 1		50 Secs (50 Secs)	[1]	
	3	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	SAME POS AS 1		50 Secs (50 Secs)	[1]	
	4	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=11	SAME POS AS 1		10 Secs (10 Secs)	[1]	
	5	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG 3.95,0		50 Secs (50 Secs)	[1]	
	6	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=11	SAME POS AS 5		10 Secs (10 Secs)	[1]	
	7	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=11	SAME POS AS 5		30 Secs (30 Secs)	[1]	
	8	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG 0,3.95		50 Secs (50 Secs)	[1]	
	9	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=11	POS TARG 0,3.95		10 Secs (10 Secs)	[1]	
	10	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=12	POS TARG 0,3.95		10 Secs (10 Secs)	[1]	
	11	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=11	POS TARG 0,3.95		30 Secs (30 Secs)	[1]	
	12	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG -3.95,0		50 Secs (50 Secs)	[1]	
	13	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG -3.95,0		50 Secs (50 Secs)	[1]	
	14	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=11	SAME POS AS 12		10 Secs (10 Secs)	[1]	
	15	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=12	SAME POS AS 12		3 Secs (3 Secs)	[1]	
	16	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=11	SAME POS AS 12		10 Secs (10 Secs)	[1]	
	17	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	SAME POS AS 12		20 Secs (20 Secs)	[1]	
	18	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG null,-3.95		50 Secs (50 Secs)	[1]	
	19	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG null,-3.95		50 Secs (50 Secs)	[1]	
	20	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=12	POS TARG null,-3.95		3 Secs (3 Secs)	[1]	
	21	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=11	POS TARG null,-3.95		10 Secs (10 Secs)	[1]	
	22	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG null,-3.95		20 Secs (20 Secs)	[1]	



Proposal 15318 - Visit 04 - Detecting Isolated Black Holes through Astrometric Microlensing

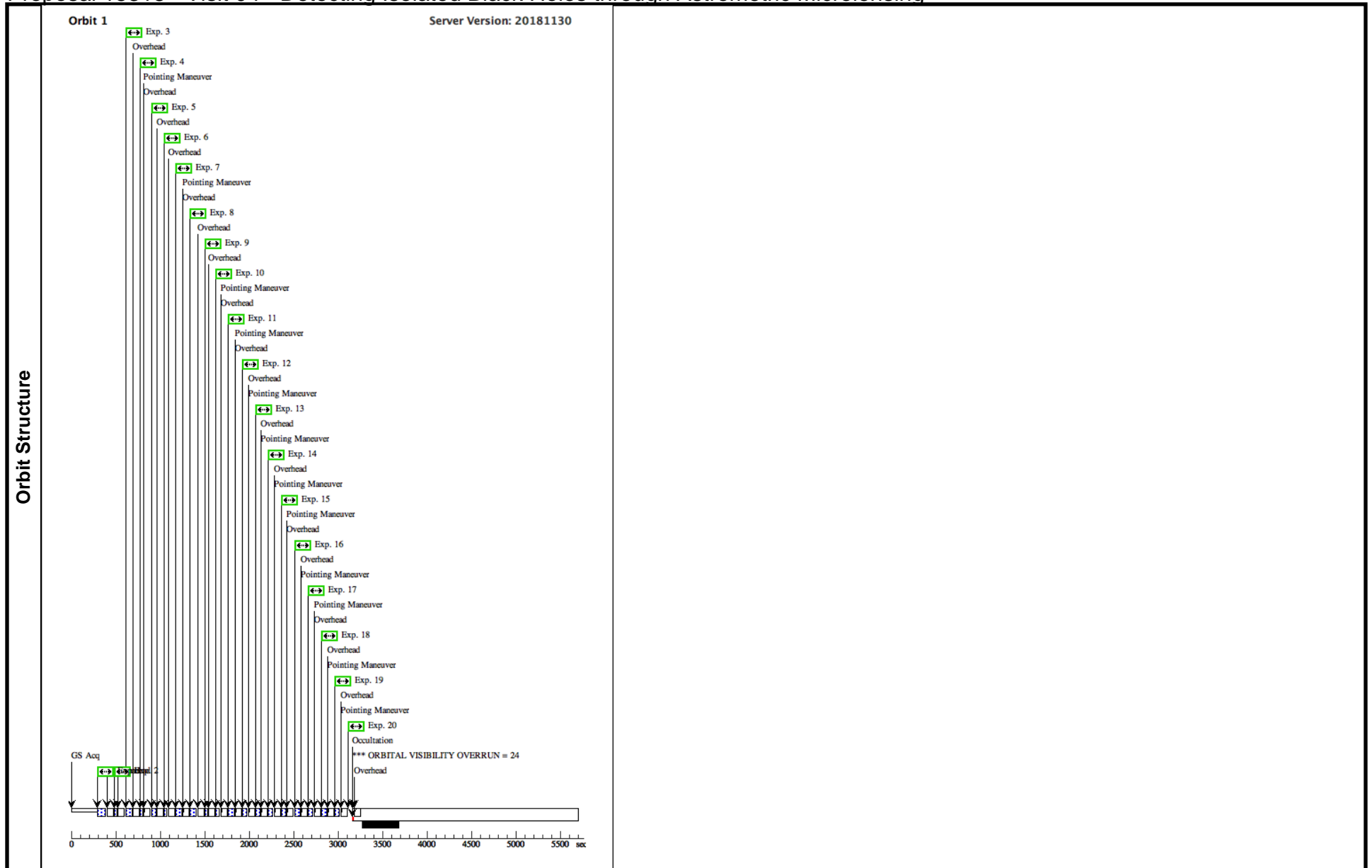
Tue Jan 15 22:02:20 GMT 2019

<b>Visit</b>	<p><b>Proposal 15318, Visit 04, completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 22-OCT-2017 AND 29-OCT-2017</p>					
<b>Diagnostics</b>	(Visit 04) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	OGLE-2017-BLG-328	RA: 17 54 9.5600 (268.5398333d) Dec: -28 44 52.60 (-28.74794d) Equinox: J2000		V=19+/-2	Reference Frame: ICRS
	<p><i>Comments:</i>  <i>Category=EXT-STAR</i>  <i>Description=[A0-A3 III-I]</i></p>					

Proposal 15318 - Visit 04 - Detecting Isolated Black Holes through Astrometric Microlensing

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
Exposures	1	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=11	POS TARG 0,0		60 Secs (60 Secs)	[1]	
	2	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=12	SAME POS AS 1		30 Secs (30 Secs)	[1]	
	3	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	SAME POS AS 1		50 Secs (50 Secs)	[1]	
	4	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=11	SAME POS AS 1		30 Secs (30 Secs)	[1]	
	5	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 3.95,0		50 Secs (50 Secs)	[1]	
	6	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=11	SAME POS AS 5		30 Secs (30 Secs)	[1]	
	7	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=11	SAME POS AS 5		60 Secs (60 Secs)	[1]	
	8	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 1.97,3.4 2		50 Secs (50 Secs)	[1]	
	9	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=11	SAME POS AS 8		30 Secs (30 Secs)	[1]	
	10	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=11	SAME POS AS 8		30 Secs (30 Secs)	[1]	
	11	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -1.98,3. 42		50 Secs (50 Secs)	[1]	
	12	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -1.88,3. 32		50 Secs (50 Secs)	[1]	
	13	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -3.95,0		50 Secs (50 Secs)	[1]	
	14	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -3.85,0. 1		50 Secs (50 Secs)	[1]	
	15	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -1.96,-3. 43		50 Secs (50 Secs)	[1]	
	16	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -1.86,-3. 33		60 Secs (60 Secs)	[1]	
	17	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -2.06,-3. 53		50 Secs (50 Secs)	[1]	
	18	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 2.00,-3. 41		60 Secs (60 Secs)	[1]	
	19	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 1.90,-3. 31		50 Secs (50 Secs)	[1]	
	20	(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 2.10,-3. 51		60 Secs (60 Secs)	[1]	

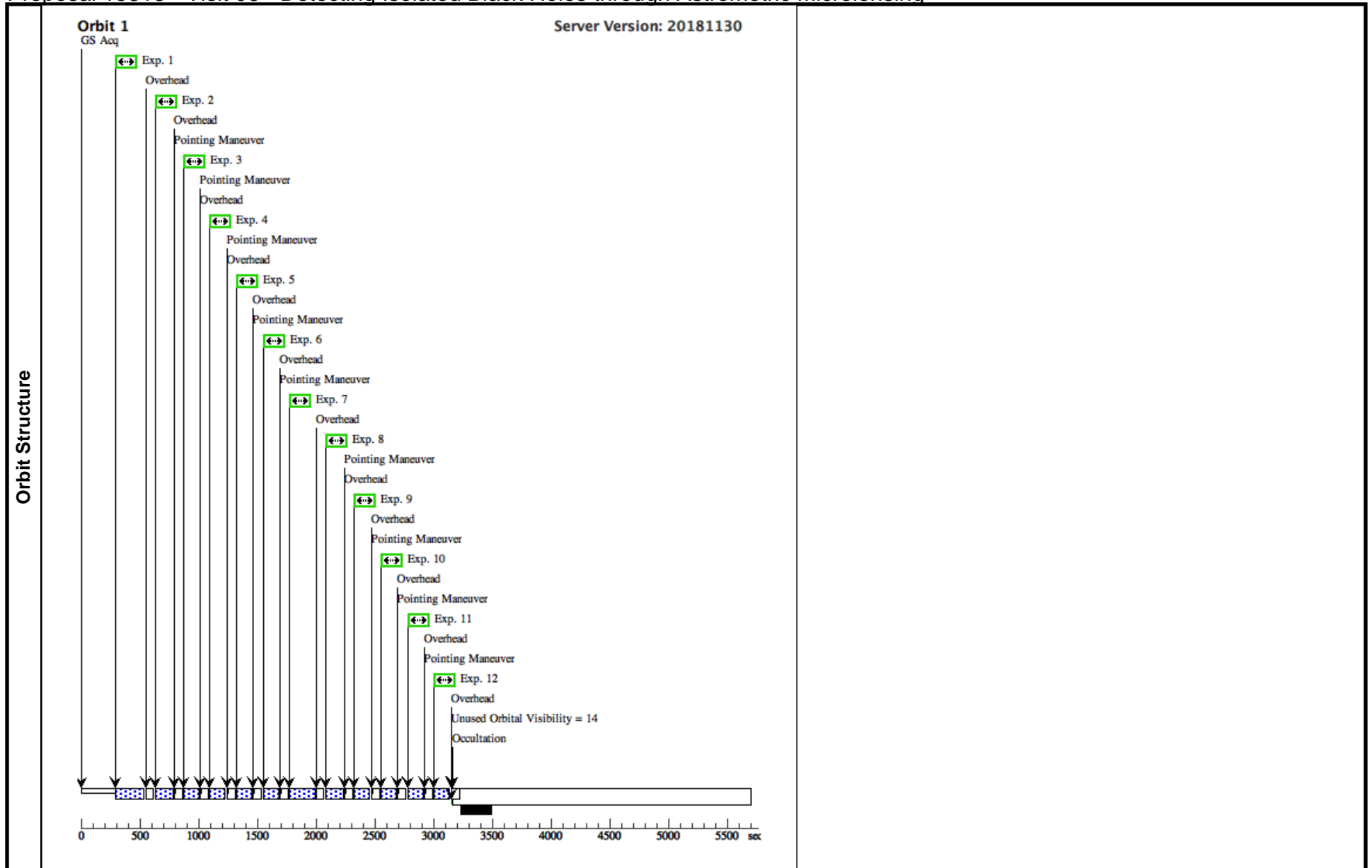
# Proposal 15318 - Visit 04 - Detecting Isolated Black Holes through Astrometric Microlensing



Proposal 15318 - Visit 06 - Detecting Isolated Black Holes through Astrometric Microlensing

Tue Jan 15 22:02:20 GMT 2019

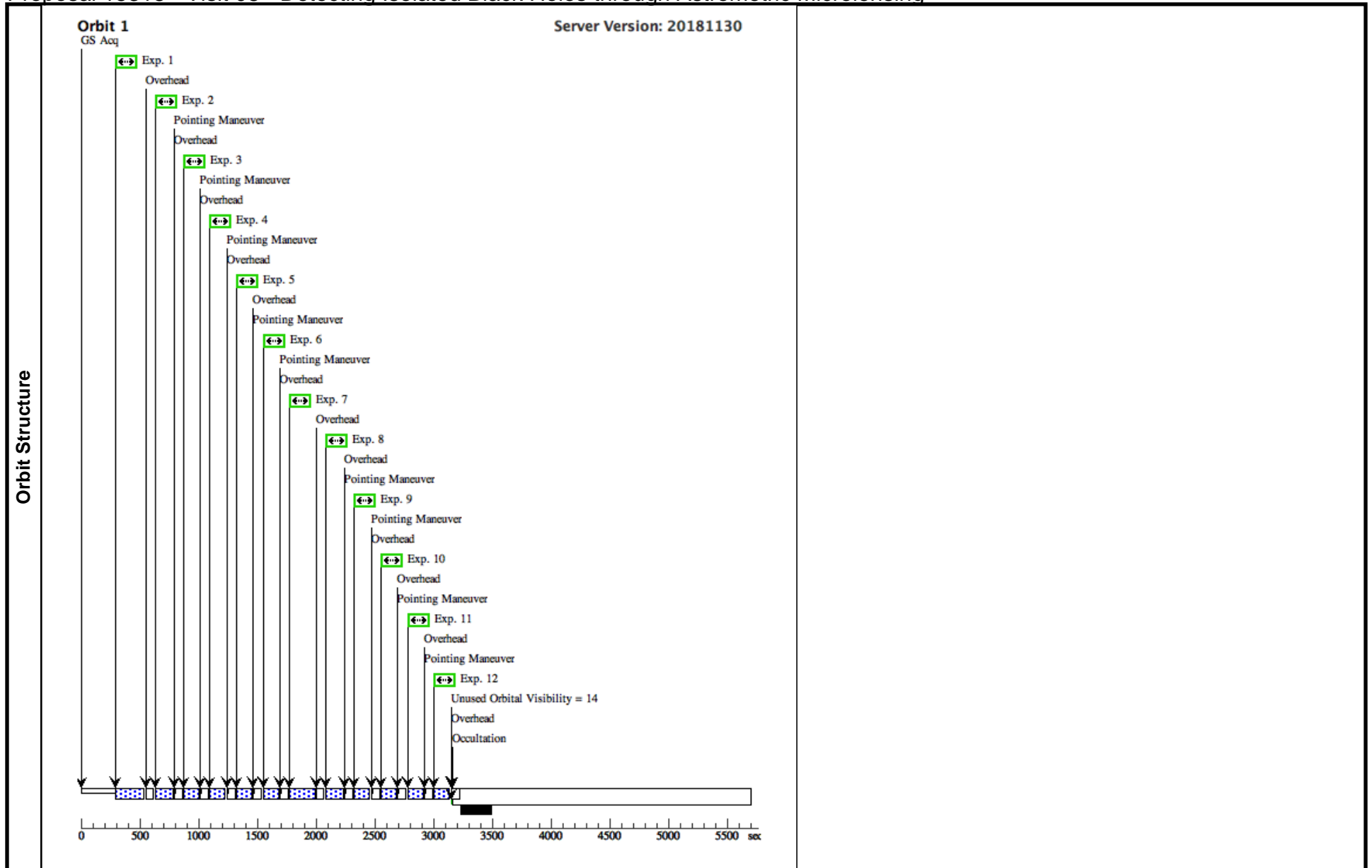
Visit	<b>Proposal 15318, Visit 06, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 03-APR-2018 AND 10-APR-2018									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	OGLE-2017-BLG-328	RA: 17 54 9.5600 (268.5398333d) Dec: -28 44 52.60 (-28.74794d) Equinox: J2000		V=19+/-2	Reference Frame: ICRS				
	<i>Comments:</i> Category=EXT-STAR Description=[A0-A3 III-I]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=6	POS TARG 0,0		210 Secs (210 Secs) [==>]	[1]
	2		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	SAME POS AS 1		130 Secs (130 Secs) [==>]	[1]
	3		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 0.1,0.1		130 Secs (130 Secs) [==>]	[1]
	4		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 2.79,2.79		130 Secs (130 Secs) [==>]	[1]
	5		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 2.69,2.69		130 Secs (130 Secs) [==>]	[1]
	6		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -2.79,2.59		130 Secs (130 Secs) [==>]	[1]
	7		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=6	POS TARG -2.69,2.49		210 Secs (210 Secs) [==>]	[1]
	8		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -2.69,2.49		130 Secs (130 Secs) [==>]	[1]
	9		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -2.59,-2.79		130 Secs (130 Secs) [==>]	[1]
	10		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -2.49,-2.69		130 Secs (130 Secs) [==>]	[1]
	11		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 2.59,-2.59		130 Secs (130 Secs) [==>]	[1]
	12		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 2.49,-2.49		130 Secs (130 Secs) [==>]	[1]



Proposal 15318 - Visit 08 - Detecting Isolated Black Holes through Astrometric Microlensing

Tue Jan 15 22:02:20 GMT 2019

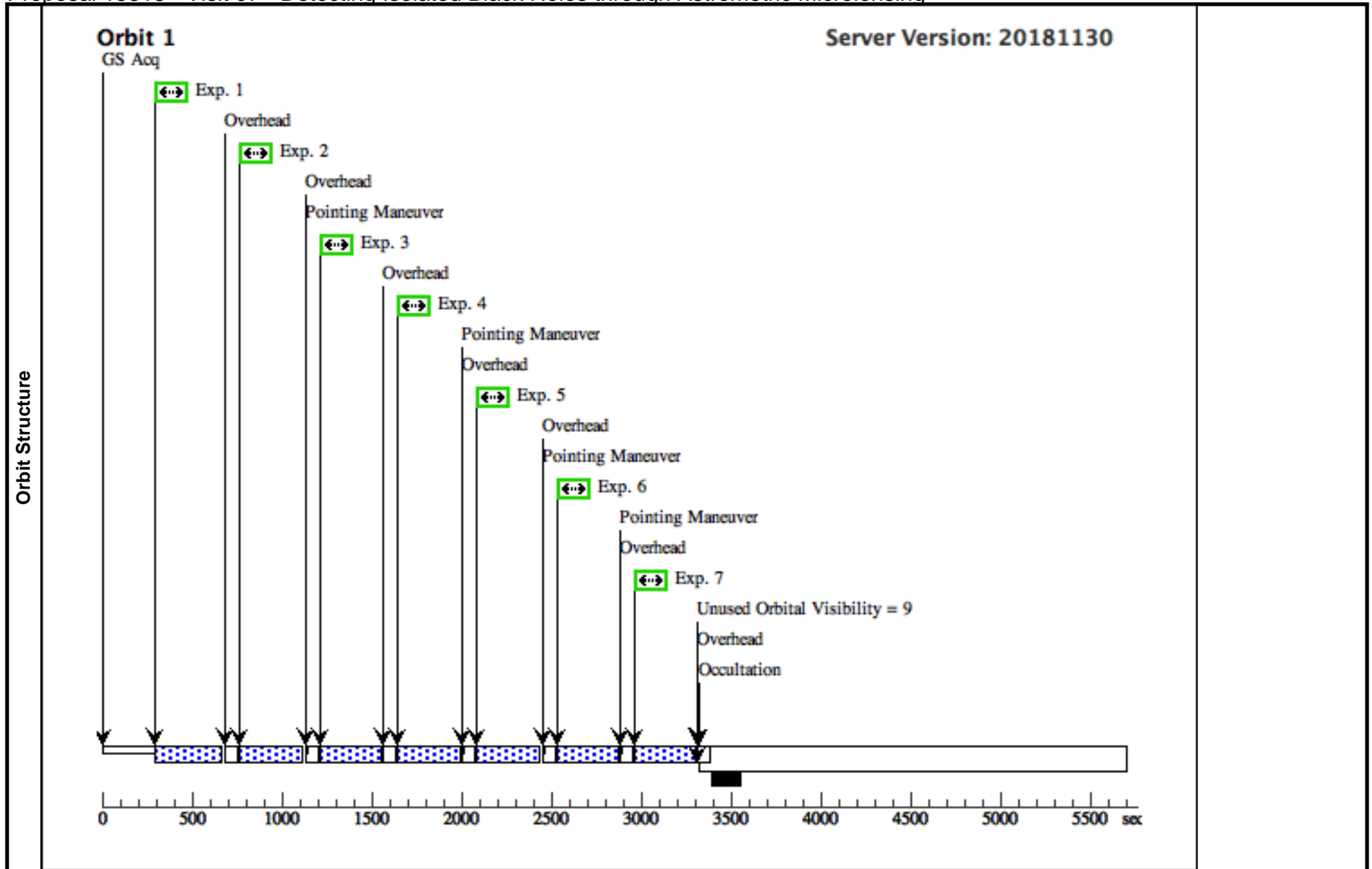
Visit	<b>Proposal 15318, Visit 08, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 31-JAN-2019 AND 18-FEB-2019									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	OGLE-2017-BLG-328	RA: 17 54 9.5600 (268.5398333d) Dec: -28 44 52.60 (-28.74794d) Equinox: J2000		V=19+/-2	Reference Frame: ICRS				
	<i>Comments:</i> Category=EXT-STAR Description=[A0-A3 III-I]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=6	POS TARG 0,0; GS ACQ SCENARI O BASE1B3		210 Secs (210 Secs) [==>]	[1]
	2		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	SAME POS AS 1		130 Secs (130 Secs) [==>]	[1]
	3		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 0.1,0.1		130 Secs (130 Secs) [==>]	[1]
	4		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 2.79,2.7 9		130 Secs (130 Secs) [==>]	[1]
	5		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 2.69,2.6 9		130 Secs (130 Secs) [==>]	[1]
	6		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -2.79,2. 59		130 Secs (130 Secs) [==>]	[1]
	7		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=6	POS TARG -2.69,2. 49		210 Secs (210 Secs) [==>]	[1]
	8		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -2.69,2. 49		130 Secs (130 Secs) [==>]	[1]
	9		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -2.59,-2. 79		130 Secs (130 Secs) [==>]	[1]
	10		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG -2.49,-2. 69		130 Secs (130 Secs) [==>]	[1]
	11		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 2.59,-2. 59		130 Secs (130 Secs) [==>]	[1]
	12		(1) OGLE-2017-BL G-328	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=10	POS TARG 2.49,-2. 49		130 Secs (130 Secs) [==>]	[1]



Proposal 15318 - Visit 07 - Detecting Isolated Black Holes through Astrometric Microlensing

Tue Jan 15 22:02:20 GMT 2019

<b>Visit</b>	<b>Proposal 15318, Visit 07, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 30-JUL-2018 AND 15-AUG-2018; VISIBILITY INTERVAL 55.4 M									
	(Exposure 1 (Visit 07)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (Exposure 2 (Visit 07)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (Exposure 3 (Visit 07)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (Exposure 4 (Visit 07)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (Exposure 5 (Visit 07)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (Exposure 6 (Visit 07)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (Exposure 7 (Visit 07)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(2)	OGLE-2017-BLG-0302	RA: 17 41 35.9300 (265.3997083d) Dec: -34 33 19.30 (-34.55536d) Equinox: J2000		V=19.25+/-2	Reference Frame: ICRS				
	Comments: Category=EXT-STAR Description=[A0-A3 III-I]									
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(2) OGLE-2017-BL G-0302	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=8	POS TARG 0,0		340 Secs (340 Secs)	[1]
	2	(2) OGLE-2017-BL G-0302	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	SAME POS AS 1		340 Secs (340 Secs)	[1]
	3	(2) OGLE-2017-BL G-0302	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG 2.79,2.57		340 Secs (340 Secs)	[1]
	4	(2) OGLE-2017-BL G-0302	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=8	SAME POS AS 3		340 Secs (340 Secs)	[1]
	5	(2) OGLE-2017-BL G-0302	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG -2.79,2.79		340 Secs (340 Secs)	[1]
	6	(2) OGLE-2017-BL G-0302	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG -2.57,-2.57		340 Secs (340 Secs)	[1]
	7	(2) OGLE-2017-BL G-0302	(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG 2.57,-2.57		340 Secs (340 Secs)	[1]



Proposal 15318 - Visit 09 - Detecting Isolated Black Holes through Astrometric Microlensing

Tue Jan 15 22:02:20 GMT 2019

<b>Visit</b>	<b>Proposal 15318, Visit 09, implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 31-JAN-2019 AND 15-FEB-2019; VISIBILITY INTERVAL 55.4 M									
	(Exposure 1 (Visit 09)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (Exposure 2 (Visit 09)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (Exposure 3 (Visit 09)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (Exposure 5 (Visit 09)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (Exposure 6 (Visit 09)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (Exposure 7 (Visit 09)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(2)	OGLE-2017-BLG-0302	RA: 17 41 35.9300 (265.3997083d) Dec: -34 33 19.30 (-34.55536d) Equinox: J2000		V=19.25+/-2	Reference Frame: ICRS				
Comments: Category=EXT-STAR Description=[A0-A3 III-I]										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=8	POS TARG 0,0; GS ACQ SCENARI O BASE1B3		300 Secs (300 Secs) [==>]	[1]
	2		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	SAME POS AS 1		350 Secs (350 Secs) [==>]	[1]
	3		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG 2.79,2.5 7		350 Secs (350 Secs) [==>]	[1]
	4		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F555W	CR-SPLIT=NO; FLASH=10	SAME POS AS 3		100 Secs (100 Secs) [==>]	[1]
	5		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG -2.79,2. 79		350 Secs (350 Secs) [==>]	[1]
	6		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG -2.57,-2. 79		350 Secs (350 Secs) [==>]	[1]
	7		(2) OGLE-2017-BL G-0302	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F814W	CR-SPLIT=NO; FLASH=8	POS TARG 2.57,-2. 57		350 Secs (350 Secs) [==>]	[1]

