



18383 - Resolving the Most Massive Black Holes: Testing a Fundamental Break in Black Hole-Galaxy Scaling Relations

Cycle: 34, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Dieu Duc Nguyen (PI) (Contact)	University of Michigan
Mr. Hai Ngoc Ngo (CoI)	University of Michigan
Dr. Elena Gallo (CoI)	University of Michigan

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) 2MASXJ14080526+0525030	ACS/WFC	1	26-Aug-2026 15:01:03.0	yes
02	(2) 2MASXJ01154483+0014005	ACS/WFC	1	26-Aug-2026 15:01:03.0	yes
03	(3) 2MASXJ01384892+1849311	ACS/WFC	1	26-Aug-2026 15:01:03.0	yes
04	(4) 2MASX-J01555051-0724181	ACS/WFC	1	26-Aug-2026 15:01:04.0	yes
05	(5) Z-388-3	ACS/WFC	1	26-Aug-2026 15:01:04.0	yes
06	(6) 2MASX-J02211146-0926470	ACS/WFC	1	26-Aug-2026 15:01:04.0	yes
07	(7) LEDA-138546	ACS/WFC	1	26-Aug-2026 15:01:04.0	yes
08	(8) 2DFGRS-TGS106Z213	ACS/WFC	1	26-Aug-2026 15:01:05.0	yes
09	(9) 2MASX-J02593256+0013543	ACS/WFC	1	26-Aug-2026 15:01:05.0	yes
10	(10) 2MASX-J04132526+1027551	ACS/WFC	1	26-Aug-2026 15:01:05.0	yes
11	(11) 2MASX-J08192066+2016075	ACS/WFC	1	26-Aug-2026 15:01:05.0	yes

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
12	(12) LEDA-3515769	ACS/WFC	1	26-Aug-2026 15:01:06.0	yes
13	(13) FIRST-J094214.6+152251	ACS/WFC	1	26-Aug-2026 15:01:06.0	yes
14	(14) NVSS-J101944-003814	ACS/WFC	1	26-Aug-2026 15:01:06.0	yes
15	(15) 2MASX-J21515562-1542218	ACS/WFC	1	26-Aug-2026 15:01:06.0	yes
16	(16) 2MASX-J23541371-1025084	ACS/WFC	1	26-Aug-2026 15:01:07.0	yes
17	(17) 4C-00.05	ACS/WFC	1	26-Aug-2026 15:01:07.0	yes
18	(18) MCG-02-26-009	ACS/WFC	1	26-Aug-2026 15:01:07.0	yes
19	(19) Z-41-38	ACS/WFC	1	26-Aug-2026 15:01:07.0	yes
20	(20) LEDA-1384428	ACS/WFC	1	26-Aug-2026 15:01:08.0	yes

20 Total Orbits Used

ABSTRACT

The co-evolution of galaxies and their central black holes (BHs) is thought to follow tight scaling relations, yet their validity at the highest galaxy masses remains untested. Observations of a handful of brightest cluster galaxies suggest that BH masses may exceed predictions from the M-sigma relation by up to an order of magnitude, indicating a possible transition in BH growth from velocity dispersion-regulated to merger-driven, stellar-mass-dominated assembly. However, this result is based on only six systems and lacks statistical significance. We propose HST/ACS/WFC imaging of a carefully selected sample of 20 ultra-massive early-type galaxies (stellar mass $> 2.5 \times 10^{12} M_{\odot}$) spanning diverse environments. Combined with existing JWST/NIRSpec and wide-field IFS data (VLT/MUSE or Magellan/ROSIE), these observations will enable the first unbiased dynamical measurements of BH masses at the extreme high-mass end. The requested HST data are essential to construct accurate stellar mass models across all spatial scales, resolving galaxy cores while tracing extended halos, and breaking degeneracies between BH mass and dark matter halo. This program will provide the first systematic calibration of the high-mass end of BH-galaxy scaling relations and deliver a decisive test of whether a fundamental transition in BH growth occurs in the most massive galaxies.

OBSERVING DESCRIPTION

Each visit consists of one HST orbit targeting a single ETG in two ACS/WFC filters: F814W and F555W. The visit is structured to maximize science exposure time within the 50-minute orbital visibility window.

VISIT STRUCTURE (per target):

- Guide star acquisition: ~6 min
- F814W: 2 x 270s (total 540s), CR-SPLIT=2, GAIN=2
- Filter change: ~0.5 min
- F555W: 2 x 900s (total 1800s), CR-SPLIT=2, GAIN=2
- Total science + overhead: ~49.5 min

F814W is scheduled first to ensure the deeper F555W imaging is prioritized in the event of early orbit termination.

DITHER STRATEGY:

A 2-point dither pattern (ACS-WFC-DITHER-LINE or WFC-DITHER-BOX-MIN) is applied between the two sub-exposures in each filter to:

- (1) enable cosmic ray rejection between the CR-SPLIT pairs,
- (2) improve sub-pixel sampling of the PSF,
- (3) mitigate the effect of hot pixels and chip defects.

Dither step size: ~0.5 arcsec along the diagonal to ensure adequate pixel phase coverage.

APERTURE AND ORIENTATION:

Aperture: WFC (full frame, 202" x 202" field of view, 0.05"/pixel)

No ORIENT constraint required; any orientation is acceptable for photometric imaging.

BACKGROUND:

No special background constraints. Low background (shadow) is preferred but not required given the surface brightness of the targets ($\mu_i \sim 15.2$ mag/arcsec² at the core break radius).

SPECIAL REQUIREMENTS:

None. Standard ACS/WFC imaging mode. No coronagraph, no grism, no special readout pattern required.

- NO ORIENT constraint
- NO SAME ORIENT between visits required
- Scheduling: no time-critical constraints

Proposal 18383 (STScI Edit Number: 1, Created: Wednesday, August 26, 2026, 2:01:08PM Eastern Standard Time) - Overview

- Guide stars: standard two-gyro mode acceptable
- Availability: schedulable any time within Cycle 34

S/N JUSTIFICATION:

The 1:3 exposure ratio (F814W:F555W = 540s:1800s) is designed to deliver equal S/N ~ 30 per pixel at the core break radius in both filters, accounting for the intrinsic (V-I) ~ 1.25 mag color of the old stellar populations in these giant elliptical galaxies ($\mu_i \sim 15.2$ mag/arcsec² from Pan-STARRS photometry; D. D. Nguyen et al. 2023). This S/N is sufficient for accurate MGE surface brightness profile fitting and stellar mass model construction from the BH sphere of influence to the outer halo.

REFERENCES:

D. D. Nguyen, M. Cappellari, and M. Pereira-Santaella, 2023, MNRAS, 526, 3548.

Proposal 18383 - Visit 01 - Resolving the Most Massive Black Holes: Testing a Fundamental Break in Black Hole-Galaxy Scaling Rela...

Visit	Proposal 18383, Visit 01, implementation										Wed Aug 26 19:01:08 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: ACS/WFC										
	Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	2MASXJ14080526+0525030	RA: 14 08 5.2600 (212.0219167d) Dec: +05 25 3.00 (5.41750d) Equinox: J2000		Epoch of Position: 2000		V=17+/-0.5		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	Category=GALAXY Description=[ELLIPTICAL] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	2MASXJ14080526+0525030	(1) 2MASXJ14080526+0525030	ACS/WFC, ACCUM, WFC		F555W				800 Secs X 2 (1594 Secs)	
										[>=>797.0 Secs (Copy 1)]	[1]
										[>=>797.0 Secs (Copy 2)]	
	2	2MASXJ14080526+0525030	(1) 2MASXJ14080526+0525030	ACS/WFC, ACCUM, WFC		F814W				550 Secs (547 Secs)	
										[>=>547.0 Secs]	[1]
Orbit Structure	Orbit 1 GS Acq Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 Unused Orbital Visibility = 0 Occultation 050010001500200025003000350040004500500055006000 sec										

Visit	Proposal 18383, Visit 02, implementation										Wed Aug 26 19:01:08 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: ACS/WFC										
	Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	2MASXJ01154483+0014005	RA: 01 15 44.8488 (18.9368700d) Dec: +00 13 59.70 (.23325d) Equinox: J2000				V=17+/-0.5		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[ELLIPTICAL] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	2MASXJ01154483+0014005	(2) 2MASXJ01154483+0014005	ACS/WFC, ACCUM, WFC		F555W				800 Secs X 2 (1594 Secs)	
										[==>797.0 Secs (Copy 1)] [==>797.0 Secs (Copy 2)]	[1]
	2	2MASXJ01154483+0014005	(2) 2MASXJ01154483+0014005	ACS/WFC, ACCUM, WFC		F814W				550 Secs (547 Secs) [==>547.0 Secs]	[1]
Orbit Structure	Orbit 1 GS Acq Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 Occultation Unused Orbital Visibility = 2 Server Version: 20260618 050010001500200025003000350040004500500055006000 sec										

Visit	Proposal 18383, Visit 03, implementation										Wed Aug 26 19:01:08 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: ACS/WFC										
	Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	2MASXJ01384892+1849311	RA: 01 38 48.9702 (24.7040425d) Dec: +18 49 31.51 (18.82542d) Equinox: J2000				V=17+/-0.5		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[ELLIPTICAL] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	2MASXJ01384892+1849311	(3) 2MASXJ01384892+1849311	ACS/WFC, ACCUM, WFC		F555W				800 Secs X 2 (1592 Secs)	
										[==>796.0 Secs (Copy 1)] [==>796.0 Secs (Copy 2)]	[1]
	2	2MASXJ01384892+1849311	(3) 2MASXJ01384892+1849311	ACS/WFC, ACCUM, WFC		F814W				550 Secs (546 Secs)	
										[==>546.0 Secs]	[1]
Orbit Structure	Orbit 1 GS Acq Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 Unused Orbital Visibility = 2 Occultation Server Version: 20260618										

Visit	Proposal 18383, Visit 04, implementation										Wed Aug 26 19:01:08 GMT 2026																		
	Diagnostic Status: No Diagnostics																												
	Scientific Instruments: ACS/WFC																												
	Special Requirements: (none)																												
Fixed Targets	#	Name		Target Coordinates				Targ. Coord. Corrections				Fluxes				Miscellaneous													
	(4)	2MASX-J01555051-0724181		RA: 01 55 50.5110 (28.9604625d) Dec: -07 24 18.17 (-7.40505d) Equinox: J2000				Epoch of Position: 2000				V=17+/-0.5				Reference Frame: ICRS													
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.																												
	Category=GALAXY Description=[ELLIPTICAL] Extended=YES																												
Exposures	#	Label	Target	Config,Mode,Aperture				Spectral Els.		Opt. Params.		Special Reqs.		Groups		Exp. Time (Total)/[Actual Dur.]				Orbit									
	1	2MASX-J01555051-0724181	(4) 2MASX-J01555051-0724181	ACS/WFC, ACCUM, WFC				F555W								800 Secs X 2 (1594 Secs)													
															[==>797.0 Secs (Copy 1)]				[1]										
															[==>797.0 Secs (Copy 2)]														
														2		2MASX-J01555051-0724181	(4) 2MASX-J01555051-0724181	ACS/WFC, ACCUM, WFC				F814W				550 Secs (547 Secs)			
																[==>547.0 Secs]				[1]									
Orbit Structure	Orbit 1 GS Acq Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 Occultation Unused Orbital Visibility = 0 Server Version: 20260618																												

Visit	Proposal 18383, Visit 05, implementation Wed Aug 26 19:01:08 GMT 2026 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	Z-388-3	RA: 02 20 26.5410 (35.1105875d) Dec: -00 18 46.25 (-.31285d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[ELLIPTICAL] Extended=YES	Epoch of Position: 2000	V=17+/-0.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Z-388-3	(5) Z-388-3	ACS/WFC, ACCUM, WFC	F555W				800 Secs X 2 (1594 Secs) [=>797.0 Secs (Copy 1)] [=>797.0 Secs (Copy 2)]	[1]
	2	Z-388-3	(5) Z-388-3	ACS/WFC, ACCUM, WFC	F814W				550 Secs (547 Secs) [=>547.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20260618 GS Acq 									

Visit	Proposal 18383, Visit 06, implementation										Wed Aug 26 19:01:08 GMT 2026				
	Diagnostic Status: No Diagnostics														
	Scientific Instruments: ACS/WFC														
	Special Requirements: (none)														
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous						
	(6)	2MASX-J02211146-0926470	RA: 02 21 11.5004 (35.2979183d) Dec: -09 26 47.44 (-9.44651d) Equinox: J2000		Epoch of Position: 2000		V=17+/-0.5		Reference Frame: ICRS						
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.														
	Category=GALAXY Description=[ELLIPTICAL] Extended=YES														
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.		Opt. Params.		Special Reqs.		Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	2MASX-J02 211146-092 6470	(6) 2MASX-J022111 46-0926470	ACS/WFC, ACCUM, WFC		F555W							800 Secs X 2 (1594 Secs)		
													[==>797.0 Secs (Copy 1)]		[1]
													[==>797.0 Secs (Copy 2)]		
2	2MASX-J02 211146-092 6470	(6) 2MASX-J022111 46-0926470	ACS/WFC, ACCUM, WFC		F814W							550 Secs (547 Secs)			
												[==>547.0 Secs]		[1]	
Orbit Structure	Orbit 1 GS Acq Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 Unused Orbital Visibility = 0 Occultation 050010001500200025003000350040004500500055006000 sec														

Visit	Proposal 18383, Visit 07, implementation Wed Aug 26 19:01:08 GMT 2026 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	LEDA-138546	RA: 02 51 24.8000 (42.8533333d) Dec: -24 56 39.37 (-24.94427d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[ELLIPTICAL] Extended=YES	Epoch of Position: 2000	V=17+/-0.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	LEDA-1385 46	(7) LEDA-138546	ACS/WFC, ACCUM, WFC	F555W				800 Secs X 2 (1594 Secs)	
									[=>797.0 Secs (Copy 1)]	[1]
									[=>797.0 Secs (Copy 2)]	
	2	LEDA-1385 46	(7) LEDA-138546	ACS/WFC, ACCUM, WFC	F814W				550 Secs (547 Secs)	
									[=>547.0 Secs]	[1]
Orbit Structure	Server Version: 20260618 GS Acq Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 Occultation Unused Orbital Visibility = 2									

Visit	Proposal 18383, Visit 08, implementation										Wed Aug 26 19:01:08 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: ACS/WFC											
	Special Requirements: (none)											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(8)	2DFGRS-TGS106Z213	RA: 02 51 32.6848 (42.8861867d)		Epoch of Position: 2000		V=17+/-0.5		Reference Frame: ICRS			
			Dec: -25 04 23.23 (-25.07312d)									
			Equinox: J2000									
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	Category=GALAXY											
	Description=[ELLIPTICAL]											
	Extended=YES											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	2DFGRS-TGS106Z213	(8) 2DFGRS-TGS106Z213	ACS/WFC, ACCUM, WFC		F555W					800 Secs X 2 (1598 Secs)	
											[==>799.0 Secs (Copy 1)]	
											[==>799.0 Secs (Copy 2)]	[1]
	2	2DFGRS-TGS106Z213	(8) 2DFGRS-TGS106Z213	ACS/WFC, ACCUM, WFC		F814W					550 Secs (549 Secs)	
											[==>549.0 Secs]	[1]
Orbit Structure	Orbit 1 GS Acq Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 Unused Orbital Visibility = 0 Occultation 050010001500200025003000350040004500500055006000 sec											

Visit	Proposal 18383, Visit 09, implementation										Wed Aug 26 19:01:08 GMT 2026										
	Diagnostic Status: No Diagnostics																				
	Scientific Instruments: ACS/WFC																				
	Special Requirements: (none)																				
Fixed Targets	#	Name		Target Coordinates				Targ. Coord. Corrections				Fluxes				Miscellaneous					
	(9)	2MASX-J02593256+0013543		RA: 02 59 32.5384 (44.8855767d) Dec: +00 13 54.38 (.23177d) Equinox: J2000				Epoch of Position: 2000				V=17+/-0.5				Reference Frame: ICRS					
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.																				
	Category=GALAXY Description=[ELLIPTICAL] Extended=YES																				
Exposures	#	Label	Target	Config,Mode,Aperture				Spectral Els.		Opt. Params.		Special Reqs.		Groups		Exp. Time (Total)/[Actual Dur.]				Orbit	
	1	2MASX-J02 593256+001 3543	(9) 2MASX-J025932 56+0013543	ACS/WFC, ACCUM, WFC				F555W								800 Secs X 2 (1594 Secs)					
															[==>797.0 Secs (Copy 1)]				[1]		
															[==>797.0 Secs (Copy 2)]						
	2	2MASX-J02 593256+001 3543	(9) 2MASX-J025932 56+0013543	ACS/WFC, ACCUM, WFC				F814W								550 Secs (547 Secs)					
															[==>547.0 Secs]				[1]		
	Orbit Structure	Orbit 1 GS Acq Unused Orbital Visibility = 2 Occultation Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 050010001500200025003000350040004500500055006000 sec																			

Proposal 18383 - Visit 10 - Resolving the Most Massive Black Holes: Testing a Fundamental Break in Black Hole-Galaxy Scaling Rela...

Visit	Proposal 18383, Visit 10, implementation									Wed Aug 26 19:01:08 GMT 2026	
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: ACS/WFC										
	Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(10)	2MASX-J04132526+1027551	RA: 04 13 25.2660 (63.3552750d) Dec: +10 27 55.14 (10.46532d) Equinox: J2000		Epoch of Position: 2000		V=17+/-0.5		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	Category=GALAXY Description=[ELLIPTICAL] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	2MASX-J04 132526+102 7551	(10) 2MASX-J04132 526+1027551	ACS/WFC, ACCUM, WFC		F555W				800 Secs X 2 (1592 Secs)	
										[>=>796.0 Secs (Copy 1)]	[1]
										[>=>796.0 Secs (Copy 2)]	
	2	2MASX-J04 132526+102 7551	(10) 2MASX-J04132 526+1027551	ACS/WFC, ACCUM, WFC		F814W				550 Secs (546 Secs)	
										[>=>546.0 Secs]	[1]
Orbit Structure	Orbit 1 GS Acq Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 Occultation Unused Orbital Visibility = 0 Server Version: 20260618 050010001500200025003000350040004500500055006000 sec										

Visit	Proposal 18383, Visit 11, implementation										Wed Aug 26 19:01:08 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: ACS/WFC										
	Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(11)	2MASX-J08192066+2016075	RA: 08 19 20.6955 (124.8362312d) Dec: +20 16 7.32 (20.26870d) Equinox: J2000		Epoch of Position: 2000		V=17+/-0.5		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	Category=GALAXY Description=[ELLIPTICAL] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	2MASX-J08192066+2016075	(11) 2MASX-J08192066+2016075	ACS/WFC, ACCUM, WFC		F555W				800 Secs X 2 (1594 Secs)	
										[==>797.0 Secs (Copy 1)]	[1]
										[==>797.0 Secs (Copy 2)]	
	2	2MASX-J08192066+2016075	(11) 2MASX-J08192066+2016075	ACS/WFC, ACCUM, WFC		F814W				550 Secs (547 Secs)	
										[==>547.0 Secs]	[1]
Orbit Structure	Orbit 1 GS Acq Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 Occultation Unused Orbital Visibility = 2 Server Version: 20260618 050010001500200025003000350040004500500055006000 sec										

Visit	Proposal 18383, Visit 12, implementation										Wed Aug 26 19:01:08 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: ACS/WFC											
	Special Requirements: (none)											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(12)	LEDA-3515769	RA: 08 37 34.3387 (129.3930779d) Dec: +15 49 7.60 (15.81878d) Equinox: J2000		Epoch of Position: 2000		V=17+/-0.5		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	Category=GALAXY Description=[ELLIPTICAL] Extended=YES											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	LEDA-3515 769	(12) LEDA-3515769	ACS/WFC, ACCUM, WFC		F555W				800 Secs X 2 (1600 Secs)		
										[==>(Copy 1)]		[1]
										[==>(Copy 2)]		
2	LEDA-3515 769	(12) LEDA-3515769	ACS/WFC, ACCUM, WFC		F814W				550 Secs (540 Secs)			
									[==>540.0 Secs]		[1]	
Orbit Structure	Orbit 1 GS Acq Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 Occultation Unused Orbital Visibility = 0											
	Server Version: 20260618											

Visit	Proposal 18383, Visit 13, implementation										Wed Aug 26 19:01:08 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: ACS/WFC										
	Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(13)	FIRST-J094214.6+152251	RA: 09 42 14.7860 (145.5616083d) Dec: +15 22 51.21 (15.38089d) Equinox: J2000		Epoch of Position: 2000		V=17+/-0.5		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	Category=GALAXY Description=[ELLIPTICAL] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	FIRST-J094 214.6+1522 51	(13) FIRST-J094214. 6+152251	ACS/WFC, ACCUM, WFC		F555W				800 Secs X 2 (1592 Secs)	
										[==>796.0 Secs (Copy 1)]	[1]
										[==>796.0 Secs (Copy 2)]	
	2	FIRST-J094 214.6+1522 51	(13) FIRST-J094214. 6+152251	ACS/WFC, ACCUM, WFC		F814W				550 Secs (546 Secs)	
										[==>546.0 Secs]	[1]
Orbit Structure	Orbit 1 GS Acq Unused Orbital Visibility = 2 Occultation Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 050010001500200025003000350040004500500055006000 sec										
	Server Version: 20260618										

Visit	Proposal 18383, Visit 14, implementation Wed Aug 26 19:01:08 GMT 2026 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	NVSS-J101944-003814	RA: 10 19 44.2732 (154.9344717d) Dec: -00 38 17.89 (-.63830d) Equinox: J2000 Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[ELLIPTICAL] Extended=YES	Epoch of Position: 2000	V=17+/-0.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	NVSS-J101 944-003814	(14) NVSS-J101944- 003814	ACS/WFC, ACCUM, WFC	F555W				800 Secs X 2 (1594 Secs) [=>797.0 Secs (Copy 1)] [=>797.0 Secs (Copy 2)]	[1]
	2	NVSS-J101 944-003814	(14) NVSS-J101944- 003814	ACS/WFC, ACCUM, WFC	F814W				550 Secs (547 Secs) [=>547.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20260618 GS Acq Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 Occultation Unused Orbital Visibility = 2									

Visit	Proposal 18383, Visit 15, implementation										Wed Aug 26 19:01:08 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: ACS/WFC										
	Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(15)	2MASX-J21515562-1542218	RA: 21 51 55.6190 (327.9817458d) Dec: -15 42 21.51 (-15.70598d) Equinox: J2000		Epoch of Position: 2000		V=15.4039793+/-0.5		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	Category=GALAXY Description=[ELLIPTICAL] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	2MASX-J21 515562-154 2218	(15) 2MASX-J21515 562-1542218	ACS/WFC, ACCUM, WFC		F555W				800 Secs X 2 (1592 Secs)	
										[==>796.0 Secs (Copy 1)]	[1]
										[==>796.0 Secs (Copy 2)]	
	2	2MASX-J21 515562-154 2218	(15) 2MASX-J21515 562-1542218	ACS/WFC, ACCUM, WFC		F814W				550 Secs (546 Secs)	
										[==>546.0 Secs]	[1]
Orbit Structure	Orbit 1 GS Acq Unused Orbital Visibility = 2 Occultation Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 050010001500200025003000350040004500500055006000 sec										
	Server Version: 20260618										

Visit	Proposal 18383, Visit 16, implementation										Wed Aug 26 19:01:08 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: ACS/WFC										
	Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(16)	2MASX-J23541371-1025084	RA: 23 54 13.6827 (358.5570112d) Dec: -10 25 8.48 (-10.41902d) Equinox: J2000		Epoch of Position: 2000		V=17+/-0.5		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	Category=GALAXY Description=[ELLIPTICAL] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	2MASX-J23 541371-102 5084	(16) 2MASX-J23541 371-1025084	ACS/WFC, ACCUM, WFC		F555W				800 Secs X 2 (1592 Secs)	
										[==>796.0 Secs (Copy 1)]	[1]
										[==>796.0 Secs (Copy 2)]	
	2	2MASX-J23 541371-102 5084	(16) 2MASX-J23541 371-1025084	ACS/WFC, ACCUM, WFC		F814W				550 Secs (544 Secs)	
										[==>544.0 Secs]	[1]
Orbit Structure	Orbit 1 GS Acq Unused Orbital Visibility = 2 Occultation Server Version: 20260618										

Visit	Proposal 18383, Visit 17, implementation Wed Aug 26 19:01:08 GMT 2026 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(17)	4C-00.05	RA: 01 31 32.9154 (22.8871475d) Dec: +00 33 21.53 (.55598d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=GALAXY</i> <i>Description=[ELLIPTICAL]</i> <i>Extended=YES</i>	Epoch of Position: 2000	V=16.1+/-0.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	4C-00.05	(17) 4C-00.05	ACS/WFC, ACCUM, WFC	F555W		GS ACQ SCENARI O ONEB10		800 Secs X 2 (1594 Secs) [=>797.0 Secs (Copy 1)] [=>797.0 Secs (Copy 2)]	[1]
	2	4C-00.05	(17) 4C-00.05	ACS/WFC, ACCUM, WFC	F814W				550 Secs (547 Secs) [=>547.0 Secs]	[1]
Orbit Structure	Orbit 1 GS Acq Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 Occultation Unused Orbital Visibility = 2 Server Version: 20260618									

Visit	Proposal 18383, Visit 18, implementation Wed Aug 26 19:01:08 GMT 2026 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(18)	MCG-02-26-009	RA: 09 57 48.5420 (149.4522583d) Dec: -13 35 34.53 (-13.59292d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=GALAXY</i> <i>Description=[ELLIPTICAL]</i> <i>Extended=YES</i>	Epoch of Position: 2000	V=17+/-0.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	MCG-02-26-009	(18) MCG-02-26-009	ACS/WFC, ACCUM, WFC	F555W				800 Secs X 2 (1592 Secs)	
									[=>796.0 Secs (Copy 1)]	[1]
									[=>796.0 Secs (Copy 2)]	
	2	MCG-02-26-009	(18) MCG-02-26-009	ACS/WFC, ACCUM, WFC	F814W				550 Secs (544 Secs)	
									[=>544.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20260618 GS Acq 									

Visit	Proposal 18383, Visit 19, implementation Wed Aug 26 19:01:08 GMT 2026 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(19)	Z-41-38	RA: 12 04 58.7343 (181.2447263d) Dec: +06 18 10.60 (6.30294d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=GALAXY</i> <i>Description=[ELLIPTICAL]</i> <i>Extended=YES</i>	Epoch of Position: 2000	V=17+/-0.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Z-41-38	(19) Z-41-38	ACS/WFC, ACCUM, WFC	F555W				800 Secs X 2 (1594 Secs) [=>797.0 Secs (Copy 1)] [=>797.0 Secs (Copy 2)]	[1]
	2	Z-41-38	(19) Z-41-38	ACS/WFC, ACCUM, WFC	F814W				550 Secs (547 Secs) [=>547.0 Secs]	[1]
Orbit Structure	Orbit 1 GS Acq Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 Occultation Unused Orbital Visibility = 0									
	Server Version: 20260618									

Visit	Proposal 18383, Visit 20, implementation Wed Aug 26 19:01:08 GMT 2026 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(20)	LEDA-1384428	RA: 11 06 22.7120 (166.5946333d) Dec: +10 47 7.59 (10.78544d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Category=GALAXY</i> <i>Description=[ELLIPTICAL]</i> <i>Extended=YES</i>	Epoch of Position: 2000	V=17+/-0.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	LEDA-1384 428	(20) LEDA-1384428	ACS/WFC, ACCUM, WFC	F555W				800 Secs X 2 (1592 Secs) [=>796.0 Secs (Copy 1)] [=>796.0 Secs (Copy 2)]	[1]
	2	LEDA-1384 428	(20) LEDA-1384428	ACS/WFC, ACCUM, WFC	F814W				550 Secs (544 Secs) [=>544.0 Secs]	[1]
Orbit Structure	Orbit 1 GS Acq Exp. 1, copy 1 Exp. 1, copy 2 Exp. 2 Occultation Unused Orbital Visibility = 2 Server Version: 20260618									