



17168 - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Cycle: 30, 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>
A0	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:00:52.0	yes
A1	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:00:57.0	yes
A2	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:01:02.0	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>
A3	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:01:06.0	yes
B0	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:01:10.0	yes
B1	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:01:15.0	yes
B2	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:01:19.0	yes
B3	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:01:24.0	yes
C0	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:01:28.0	yes
C1	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:01:33.0	yes
C2	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:01:37.0	yes
C3	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:01:42.0	yes
D0	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:01:46.0	yes
D1	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:01:50.0	yes
D2	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:01:55.0	yes
D3	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:01:59.0	yes
E0	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:02:03.0	yes
E1	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:02:08.0	yes
E2	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:02:12.0	yes
E3	(1) V-AB-AUR	WFC3/UVIS	1	06-Dec-2022 11:02:17.0	yes

20 Total Orbits Used

ABSTRACT

Giant planets generate accretion luminosity as they form. Much of this energy is radiated in the form of strong H α line emission, enabling direct constraints on accretion mechanisms in the planetary regime and the transport of material from circumplanetary disks onto young planets. However, compact disk features can mimic accreting planets by scattering H α emission generated by the host star; this can greatly complicate the interpretation of point sources detected within protoplanetary disks. Recently a protoplanet candidate was directly imaged in H α with HST inside the transition disk of the young Herbig Ae/Be star AB Aurigae. We propose a novel test of the protoplanet hypothesis in this system using accretion light echoes by assessing whether the emission line strength is correlated between the candidate planet and the host star---a measurement only

Proposal 17168 (STScI Edit Number: 1, Created: Tuesday, December 6, 2022 at 11:02:18 AM Eastern Standard Time) - Overview possible with HST. Strong positive correlation would point to scattering whereas no correlation would support the planet interpretation. If confirmed, this protoplanet would explain many substructures in the AB Aur disk and would join only two other uncontested accreting giant planets detected with direct imaging.

OBSERVING DESCRIPTION

Instrument setups:

We will take direct imaging observations of AB Aur using WFC3/UVIS in the F656N filter to observe its H-alpha emission line. A four-point box dithering pattern will be adopted for observations in each orbit. The dithering distance is one half pixel (20~mas) in either direction. A set of four images taken at the four dithering pointings will be combined using the Fourier interlacing algorithms, which guarantees the combined images to be Nyquist sampled and has been demonstrated to be successful in assisting high-contrast imaging observations. At each dithering pointing, a series of 2.7~s exposures will be taken using the WFC3 UVIS2 C512C subarray, resulting in a raw SNR of 450 per image.

This program requires roll constraints to avoid the host star's diffraction spikes falling on the companion. Different relative orientation angles are also required to facilitate ADI for each epoch using two telescope roll angles with a difference of 25 to 35 degrees.

The region of interest is 0.6 arcsec away from the stellar PSF center. This area contains a significant amount of flux from the stellar PSF halo. As a result, our exposure does not suffer severe charge transfer loss. We set the post-flash level to be 12 electron, lower than the 20 electron requirement. This is consistent with the Cycle 29 observations. The strategy has been proven to be successful.

Timing consideration:

The light travel time from the host out to the (deprojected) separation of the candidate at ~100~AU is approximately 13 hours. Therefore, any accretion variability that AB Aur undergoes will only be seen at the location of the point source 13 hours later. The "effective time resolution" of each 4-orbit set of observations is ~96 min/orbit x 4 orbits, or 6 hours if they are taken in a contiguous block. With this back-to-back scheduling, the main science observations of the companion will not perfectly sample the host star's behavior in the same dataset owing the large star-companion distance.

Each epoch will require four orbits of observations. To account for potential light-travel time effects, we require the first orbit separated by a gap of ~ 7 orbits (0.5--0.6~days) before the next three contiguous orbits are carried out. Each group (four orbits) observations requires a gap of at least two weeks to ensure each epoch is an independent measurement.

Proposal 17168 - AB Aur (A0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:18 GMT 2022

Visit	Proposal 17168, AB Aur (A0), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 190D TO 260 D; ORIENT 280D TO 350 D; ORIENT 10D TO 80 D; ORIENT 100D TO 170 D					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (A0))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern		Secondary Pattern	Exposures	
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

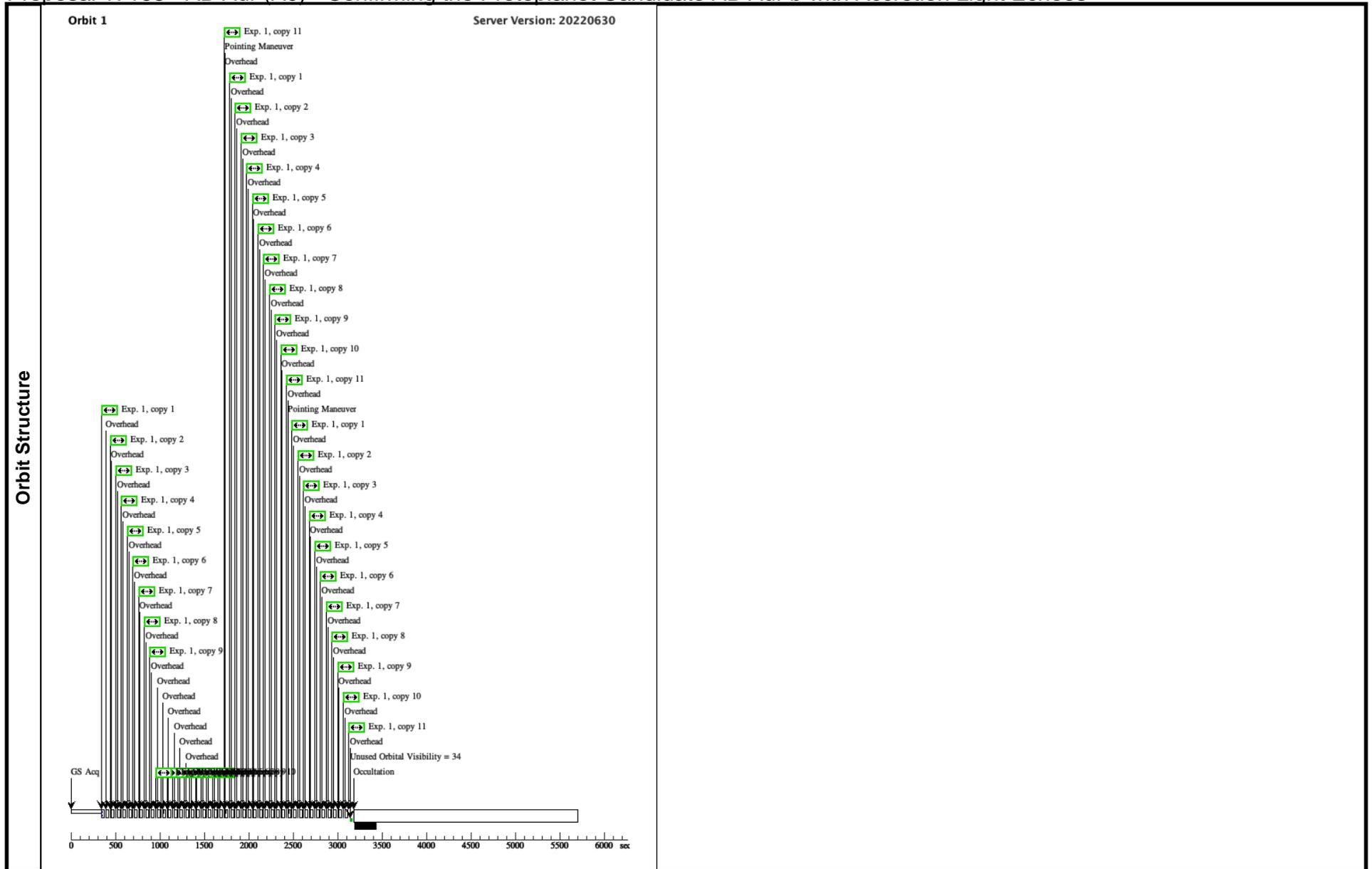
Proposal 17168 - AB Aur (A0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (A0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (A0) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (A0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (A1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:19 GMT 2022

Visit	Proposal 17168, AB Aur (A1), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 25D TO 35D FROM A0: AFTER A0 BY 6.5 Orbits TO 8.5 Orbits					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (A1))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

Proposal 17168 - AB Aur (A1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (A1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (A1) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (A2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:19 GMT 2022

Visit	Proposal 17168, AB Aur (A2), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS A0; AFTER A1 BY 0.5 Orbits TO 1.5 Orbits					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (A2))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

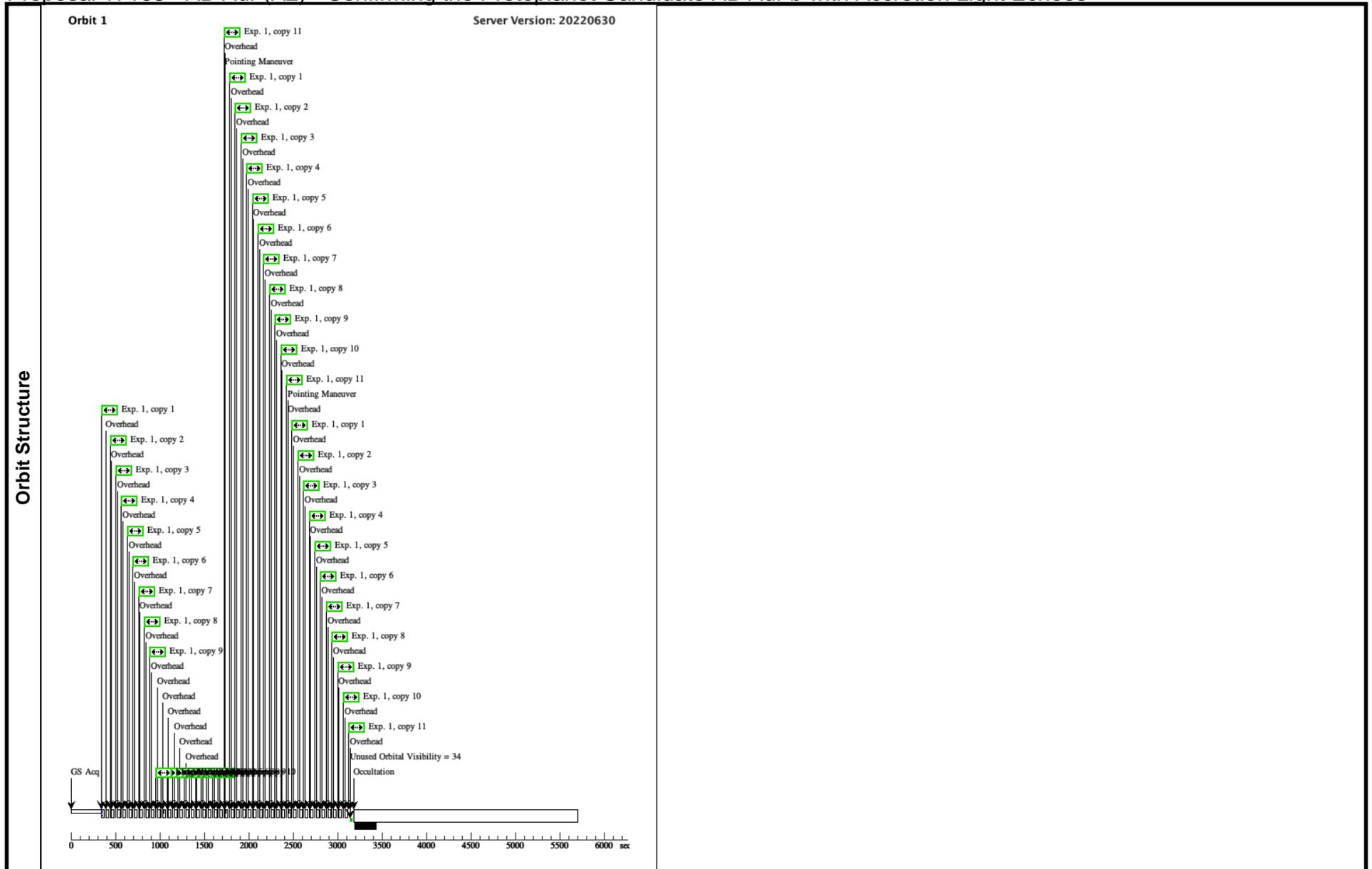
Proposal 17168 - AB Aur (A2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (A2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (A2) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (A2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (A3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:19 GMT 2022

Visit	Proposal 17168, AB Aur (A3), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS A1; AFTER A2 BY 0.5 Orbits TO 1.5 Orbits					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (A3))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern		Secondary Pattern	Exposures	
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

Proposal 17168 - AB Aur (A3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (A3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (A3) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (B0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:19 GMT 2022

Visit	Proposal 17168, AB Aur (B0), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 190D TO 260 D; ORIENT 280D TO 350 D; ORIENT 10D TO 80 D; ORIENT 100D TO 170 D					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (B0))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

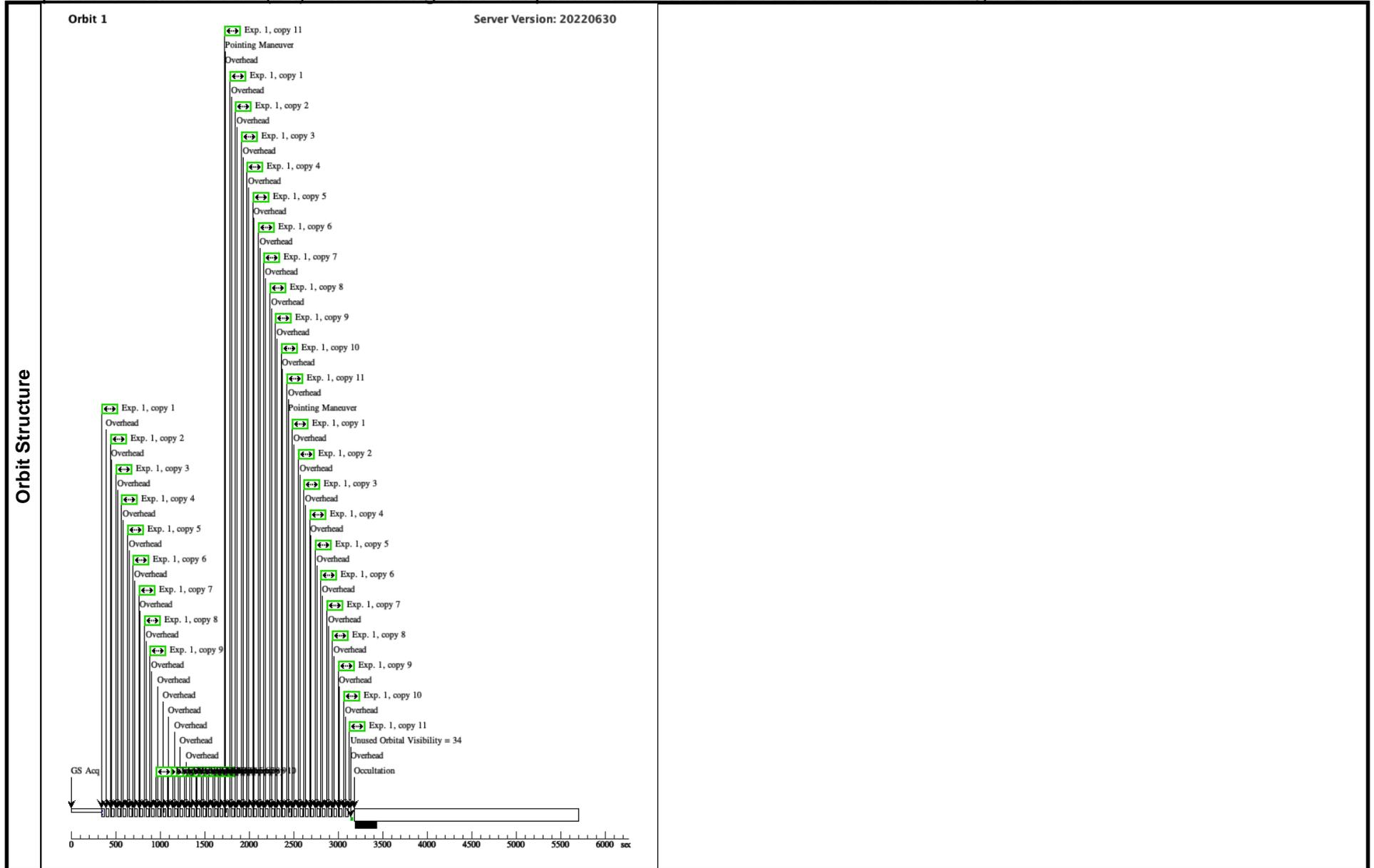
Proposal 17168 - AB Aur (B0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (B0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (B0) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (B0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (B1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:19 GMT 2022

Visit	Proposal 17168, AB Aur (B1), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 25D TO 35D FROM B0: AFTER B0 BY 6.5 Orbits TO 8.5 Orbits					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (B1))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

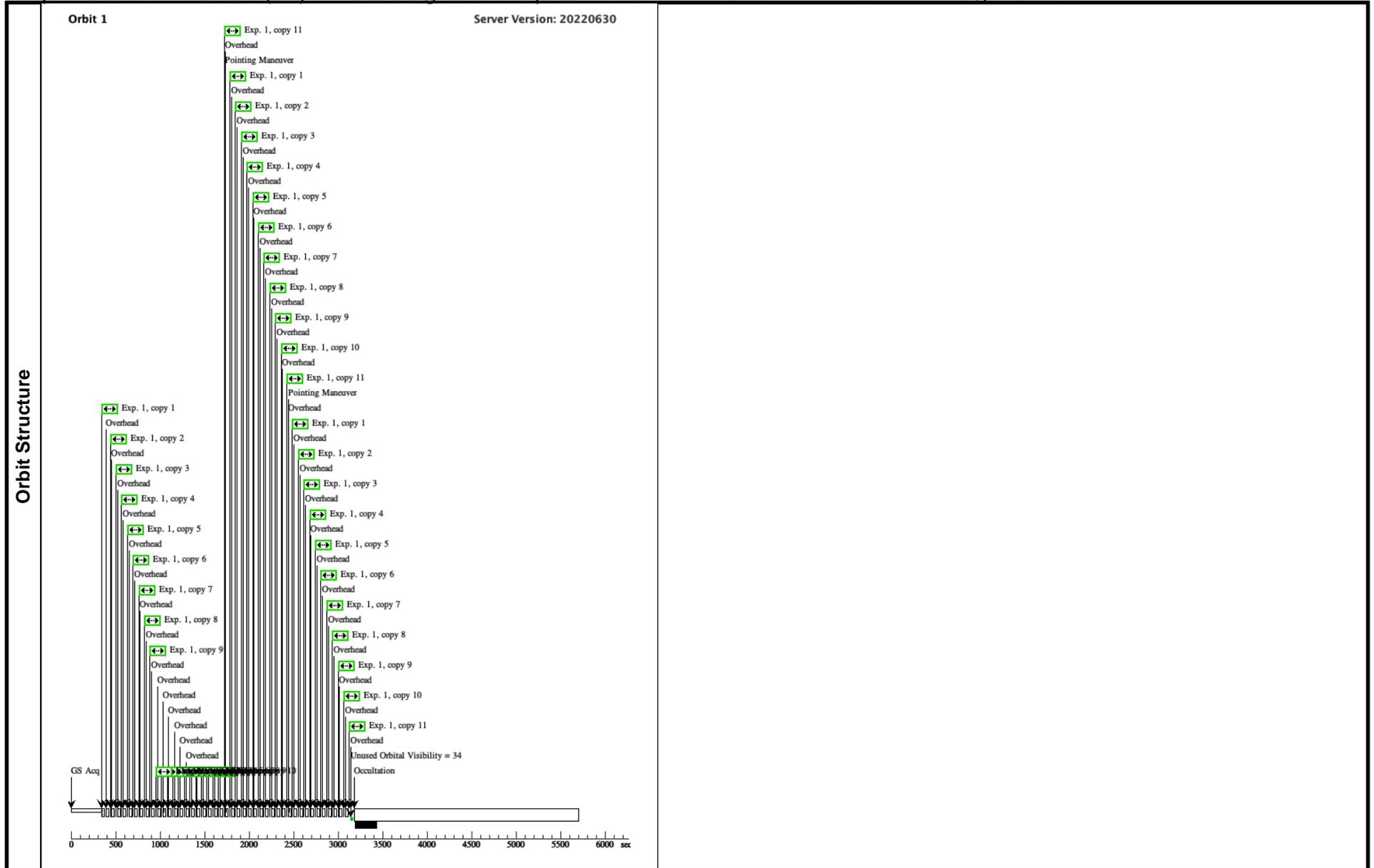
Proposal 17168 - AB Aur (B1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (B1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (B1) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (B1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (B2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:19 GMT 2022

Visit	Proposal 17168, AB Aur (B2), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS B0; AFTER B1 BY 0.5 Orbits TO 1.5 Orbits					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (B2))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

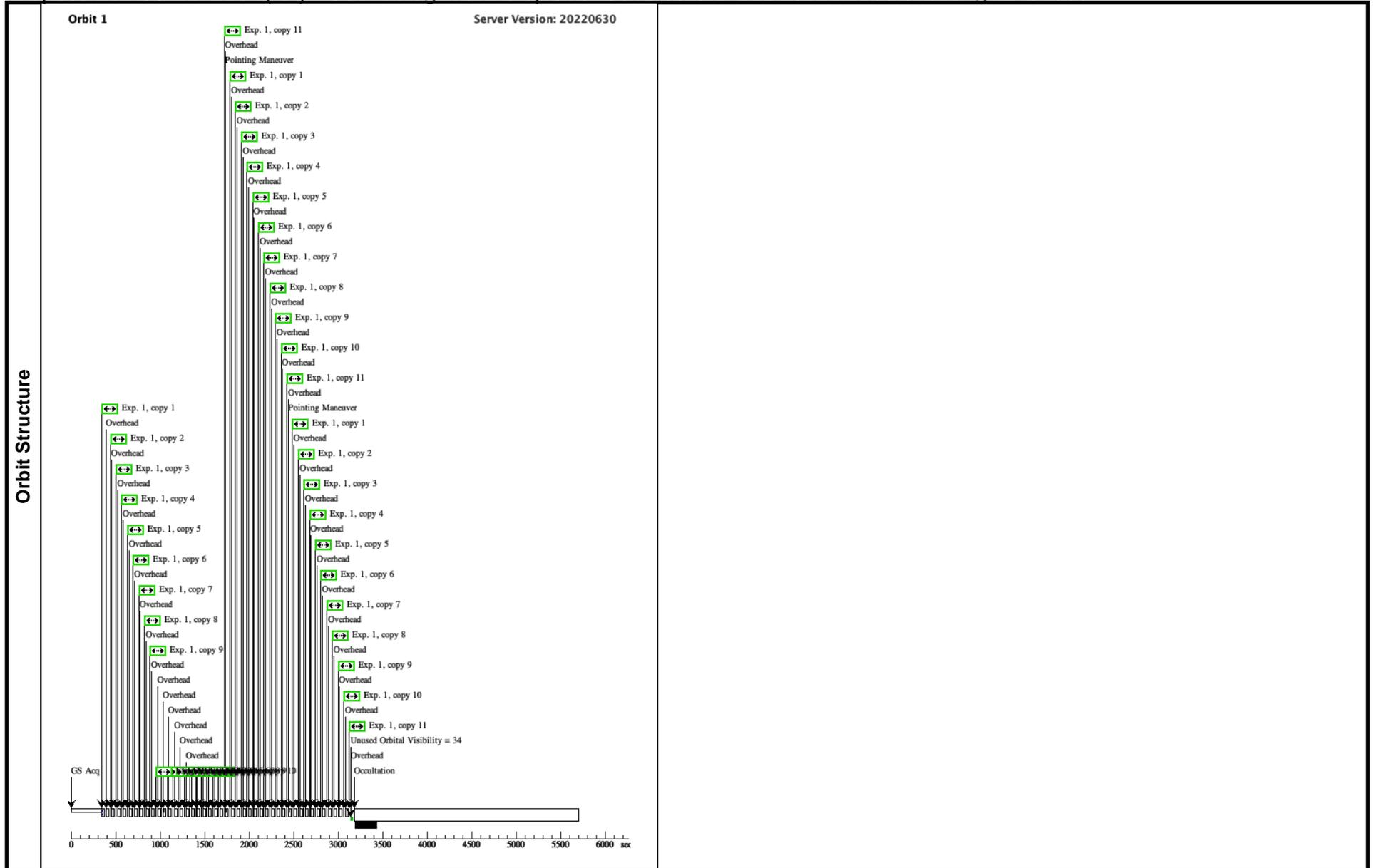
Proposal 17168 - AB Aur (B2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (B2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (B2) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (B2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (B3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:19 GMT 2022

Visit	Proposal 17168, AB Aur (B3), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS B1; AFTER B2 BY 0.5 Orbits TO 1.5 Orbits					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (B3))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

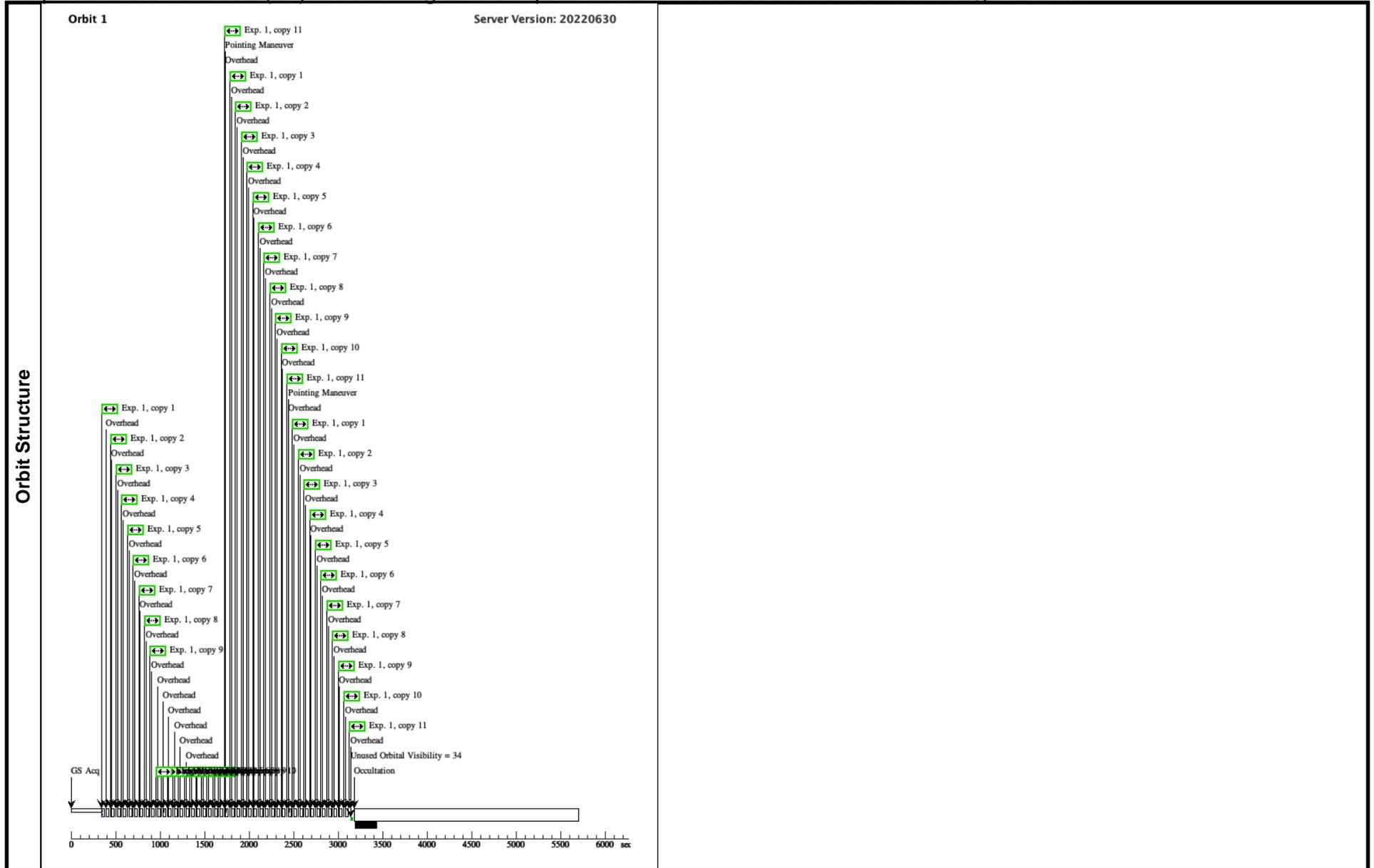
Proposal 17168 - AB Aur (B3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (B3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (B3) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (B3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (C0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:19 GMT 2022

Visit	Proposal 17168, AB Aur (C0), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 190D TO 260 D; ORIENT 280D TO 350 D; ORIENT 10D TO 80 D; ORIENT 100D TO 170 D					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (C0))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

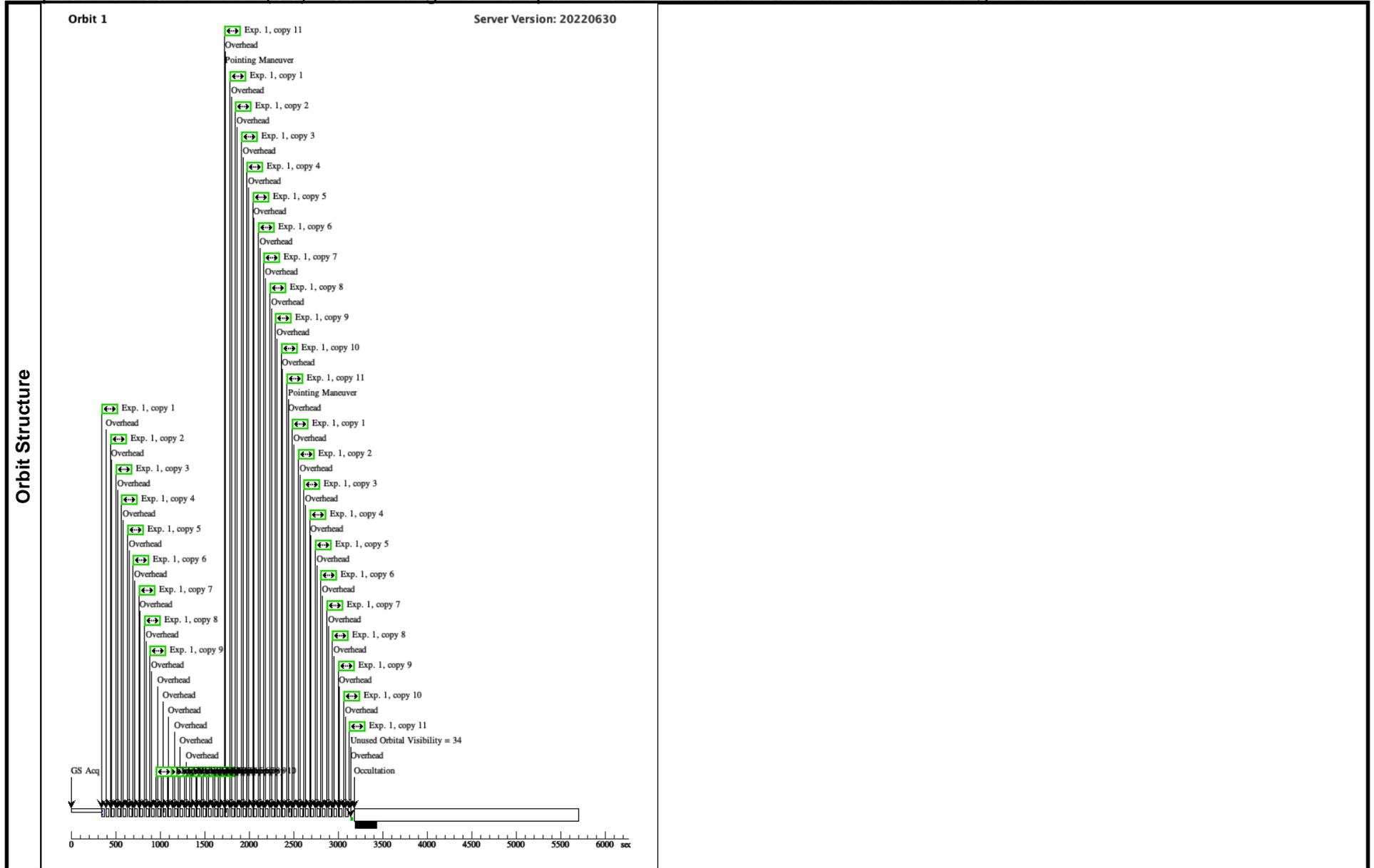
Proposal 17168 - AB Aur (C0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (C0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (C0) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (C0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (C1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:20 GMT 2022

Visit	Proposal 17168, AB Aur (C1), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: PCS MODE FINE; GUID TOL 0.05"; GYRO MODE 3GOBAD; ORIENT 25D TO 35D FROM C0; AFTER C0 BY 6.5 Orbits TO 8.5 Orbits					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (C1))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

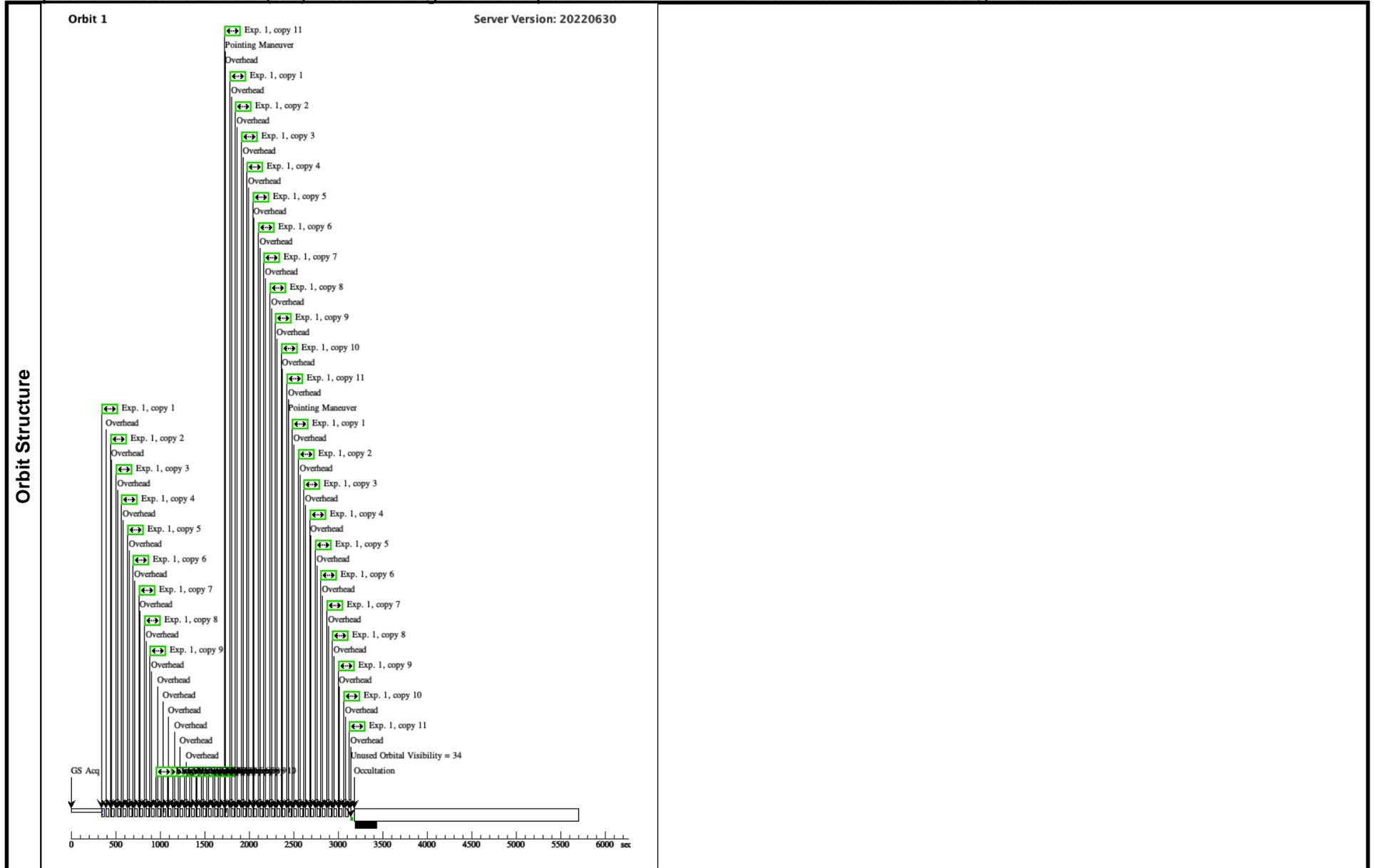
Proposal 17168 - AB Aur (C1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (C1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (C1) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (C1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (C2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:20 GMT 2022

Visit	Proposal 17168, AB Aur (C2), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS C0; AFTER C1 BY 0.5 Orbits TO 1.5 Orbits					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (C2))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

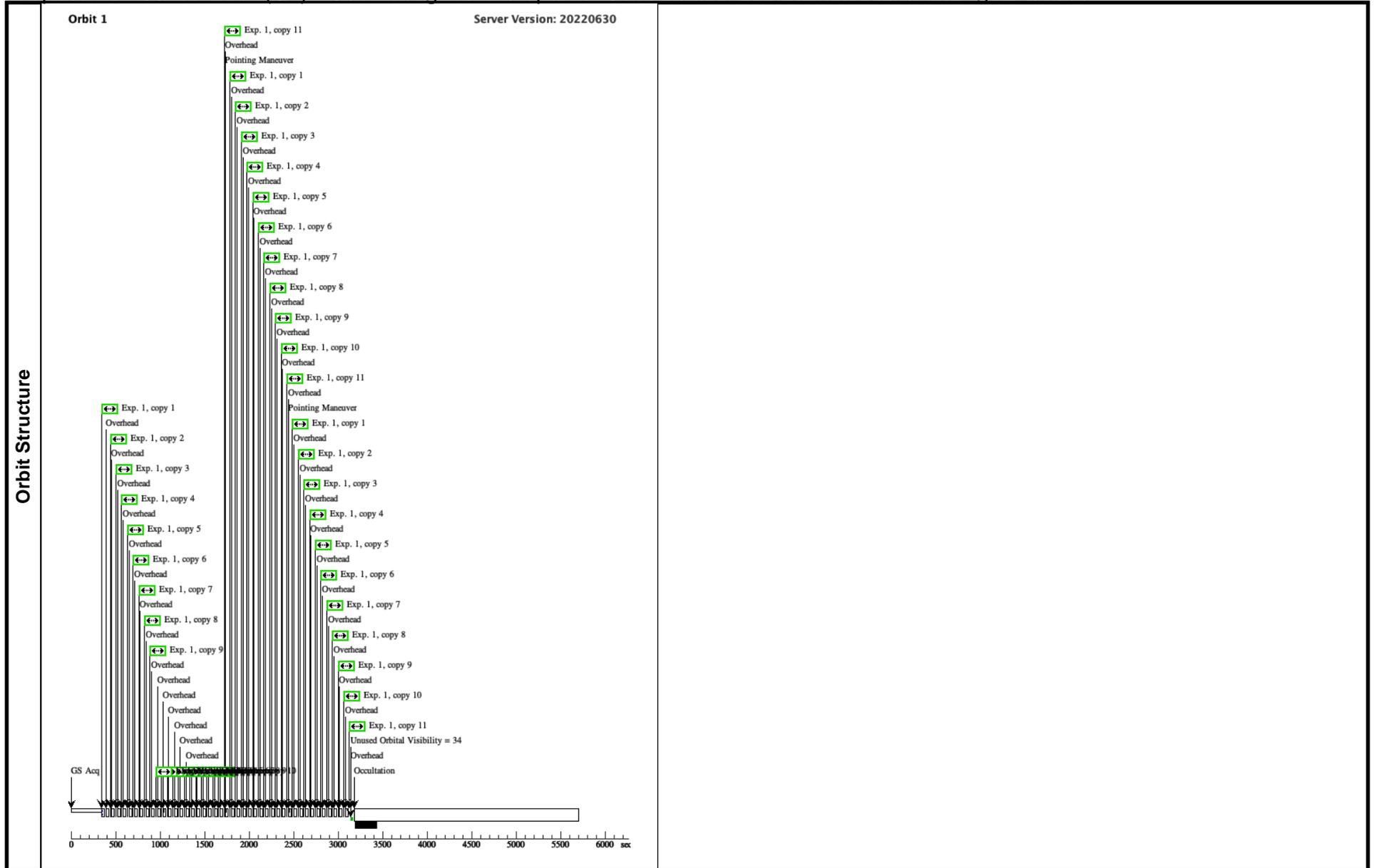
Proposal 17168 - AB Aur (C2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (C2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (C2) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (C2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (C3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:20 GMT 2022

Visit	Proposal 17168, AB Aur (C3), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS C1; AFTER C2 BY 0.5 Orbits TO 1.5 Orbits					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (C3))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

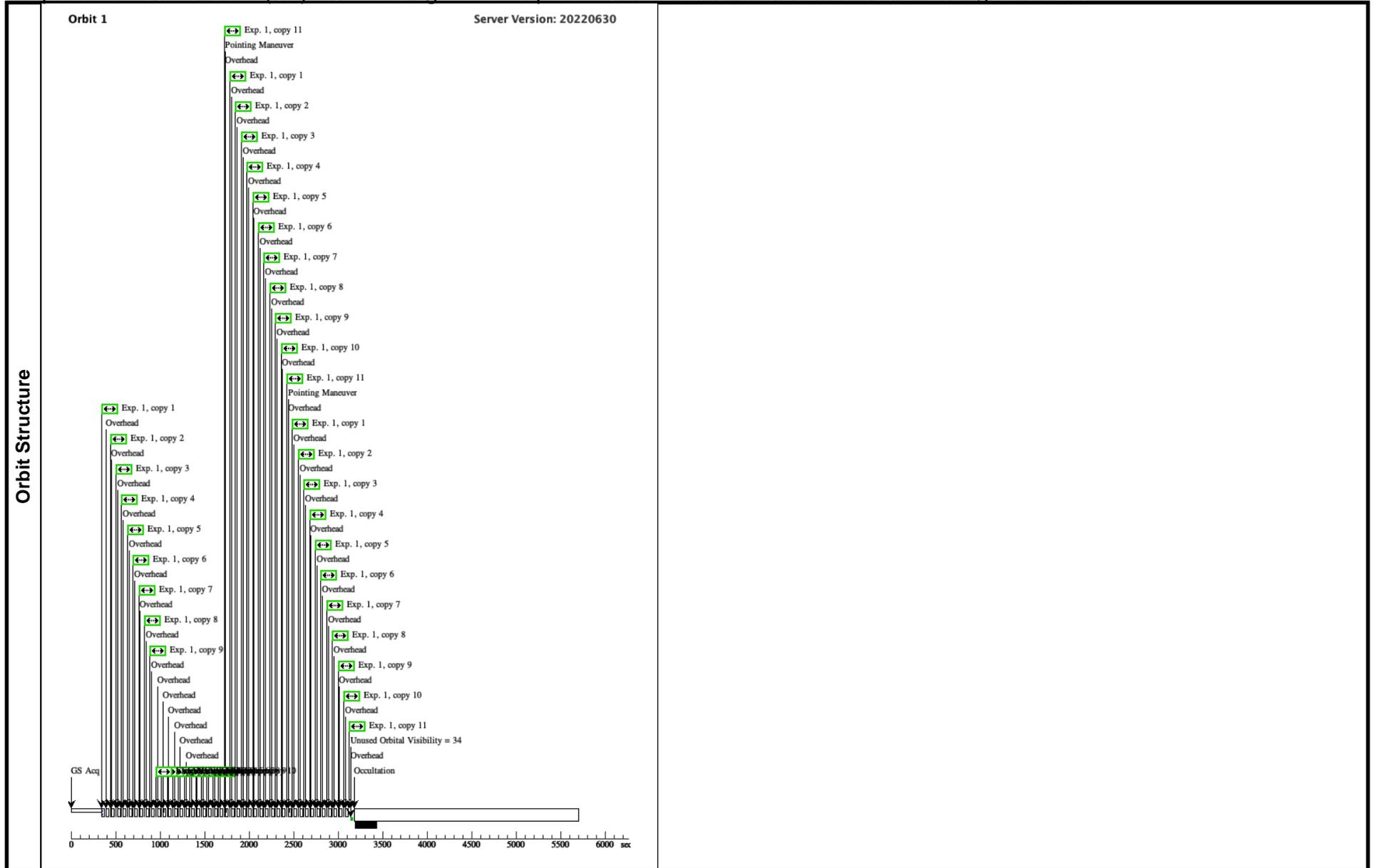
Proposal 17168 - AB Aur (C3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (C3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (C3) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (C3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (D0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:20 GMT 2022

Visit	Proposal 17168, AB Aur (D0), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 190D TO 260 D; ORIENT 280D TO 350 D; ORIENT 10D TO 80 D; ORIENT 100D TO 170 D					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (D0))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

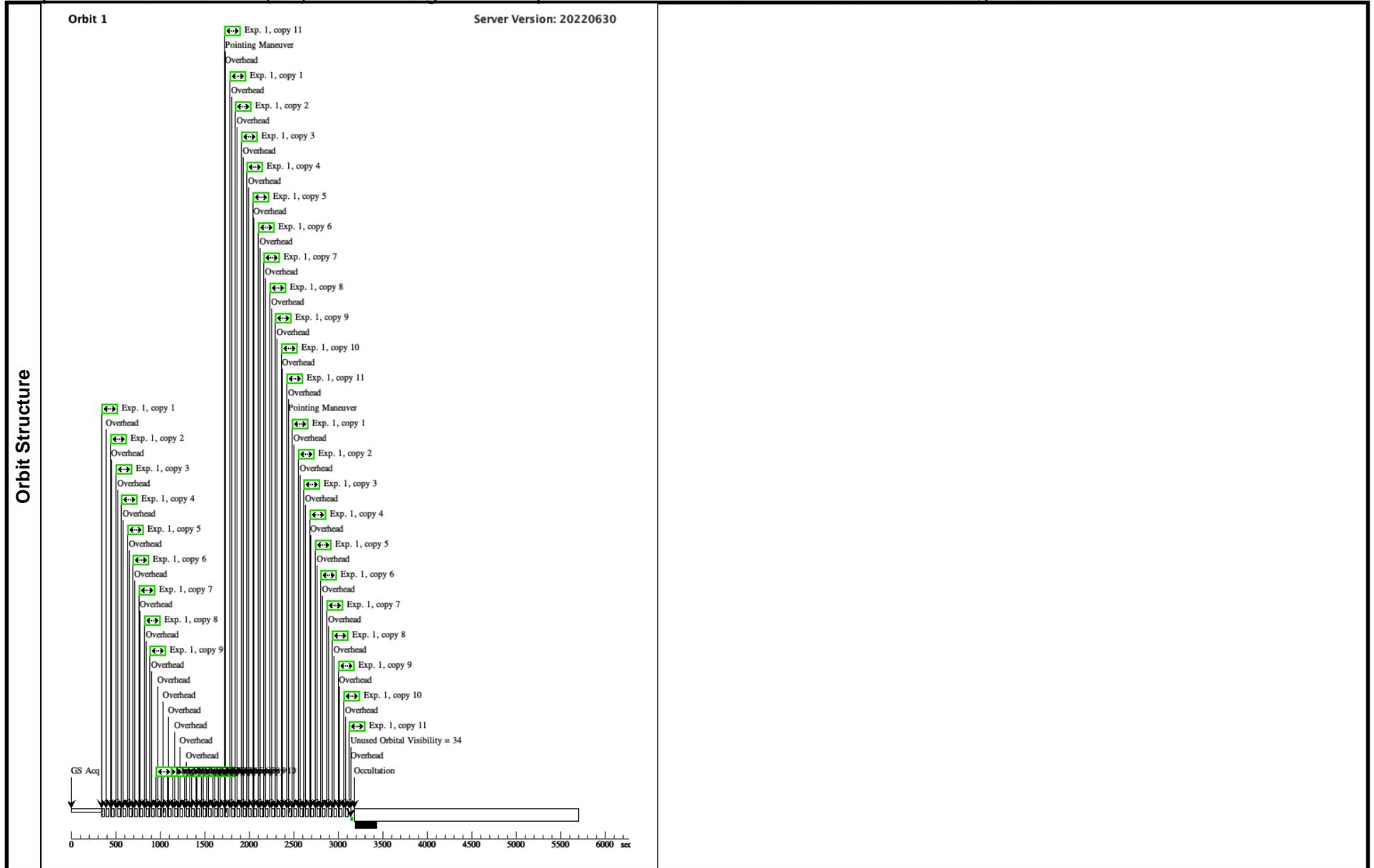
Proposal 17168 - AB Aur (D0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (D0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (D0) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (D0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (D1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:20 GMT 2022

Visit	Proposal 17168, AB Aur (D1), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 25D TO 35D FROM D0: AFTER D0 BY 6.5 Orbits TO 8.5 Orbits					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (D1))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

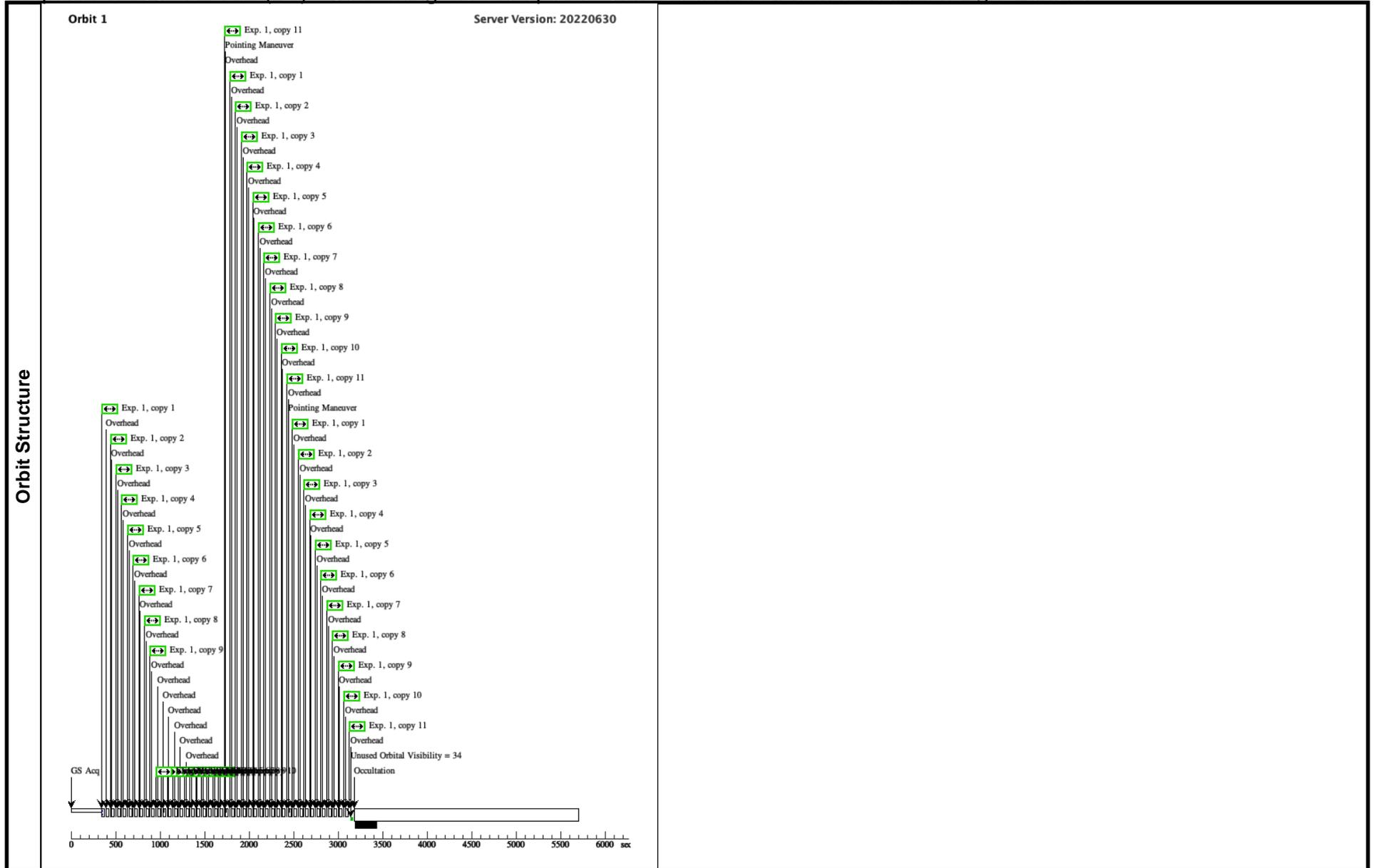
Proposal 17168 - AB Aur (D1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (D1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (D1) (1)	2.7 Secs X 11 (118.8 Secs)	[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (D1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (D2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:20 GMT 2022

Visit	Proposal 17168, AB Aur (D2), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS D0; AFTER D1 BY 0.5 Orbits TO 1.5 Orbits					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (D2))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

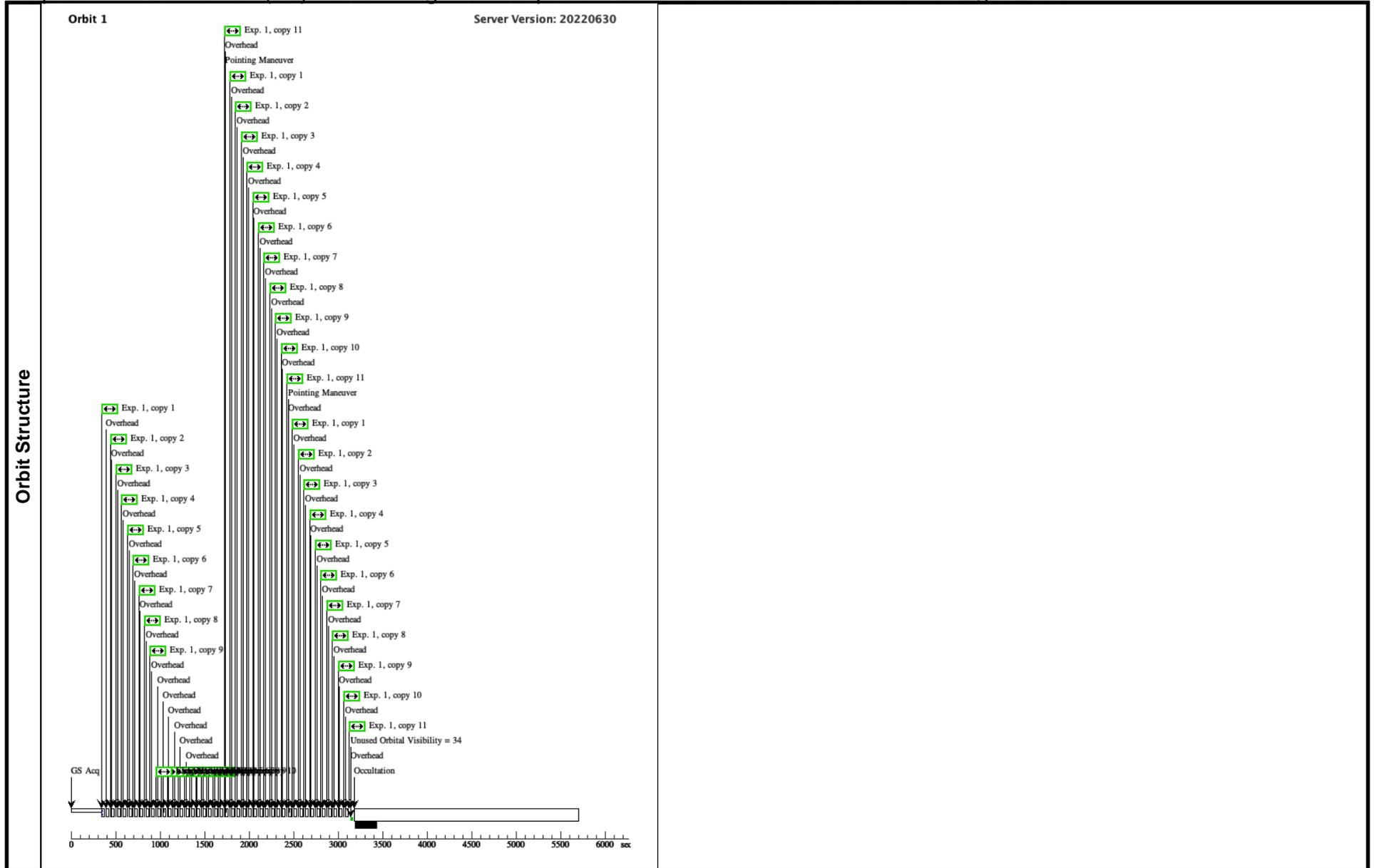
Proposal 17168 - AB Aur (D2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (D2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (D2) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (D2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (D3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:20 GMT 2022

Visit	Proposal 17168, AB Aur (D3), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS D1; AFTER D2 BY 0.5 Orbits TO 1.5 Orbits					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (D3))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

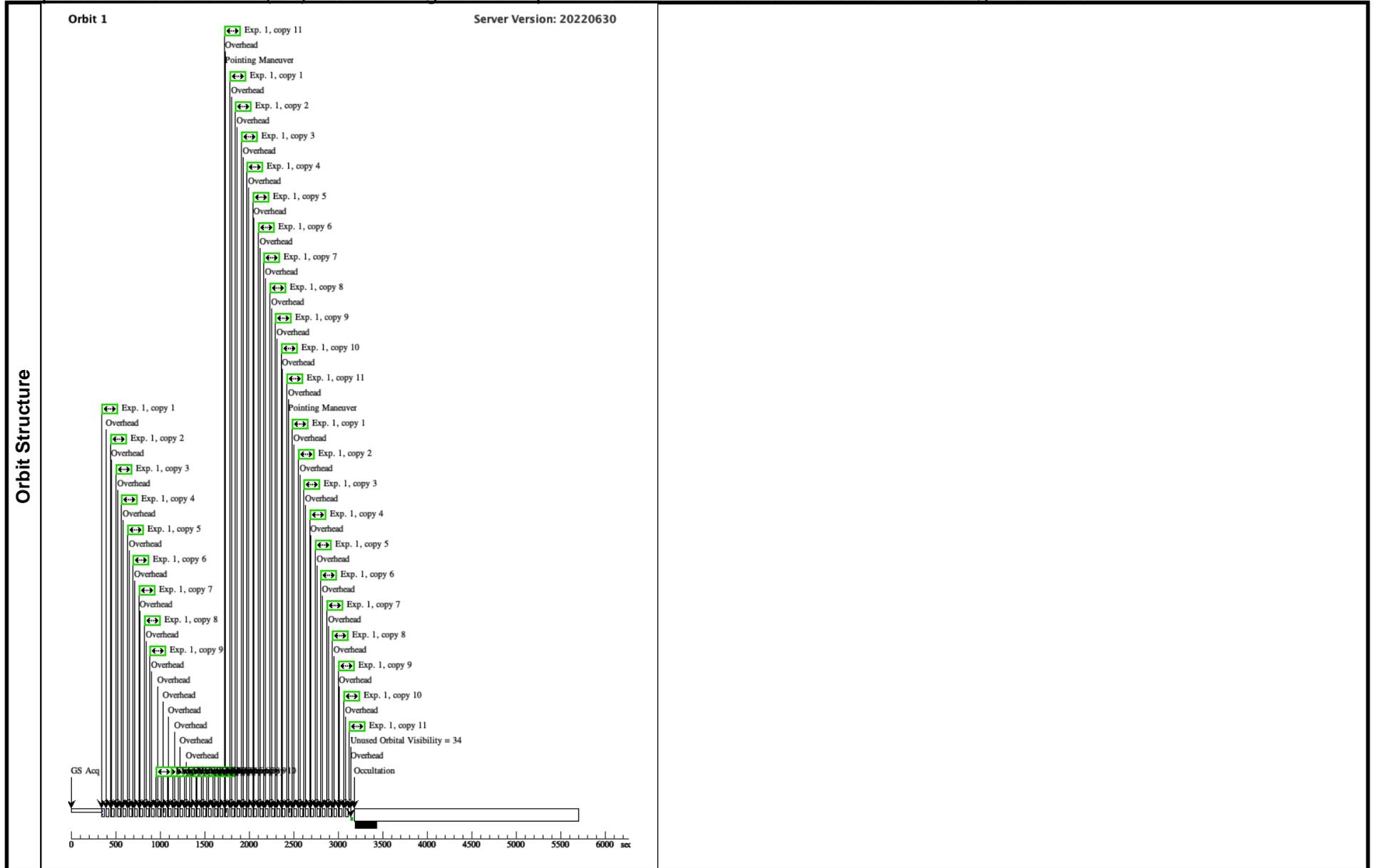
Proposal 17168 - AB Aur (D3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (D3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (D3) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (D3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (E0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:20 GMT 2022

Visit	Proposal 17168, AB Aur (E0), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 190D TO 260 D; ORIENT 280D TO 350 D; ORIENT 10D TO 80 D; ORIENT 100D TO 170 D					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (E0))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

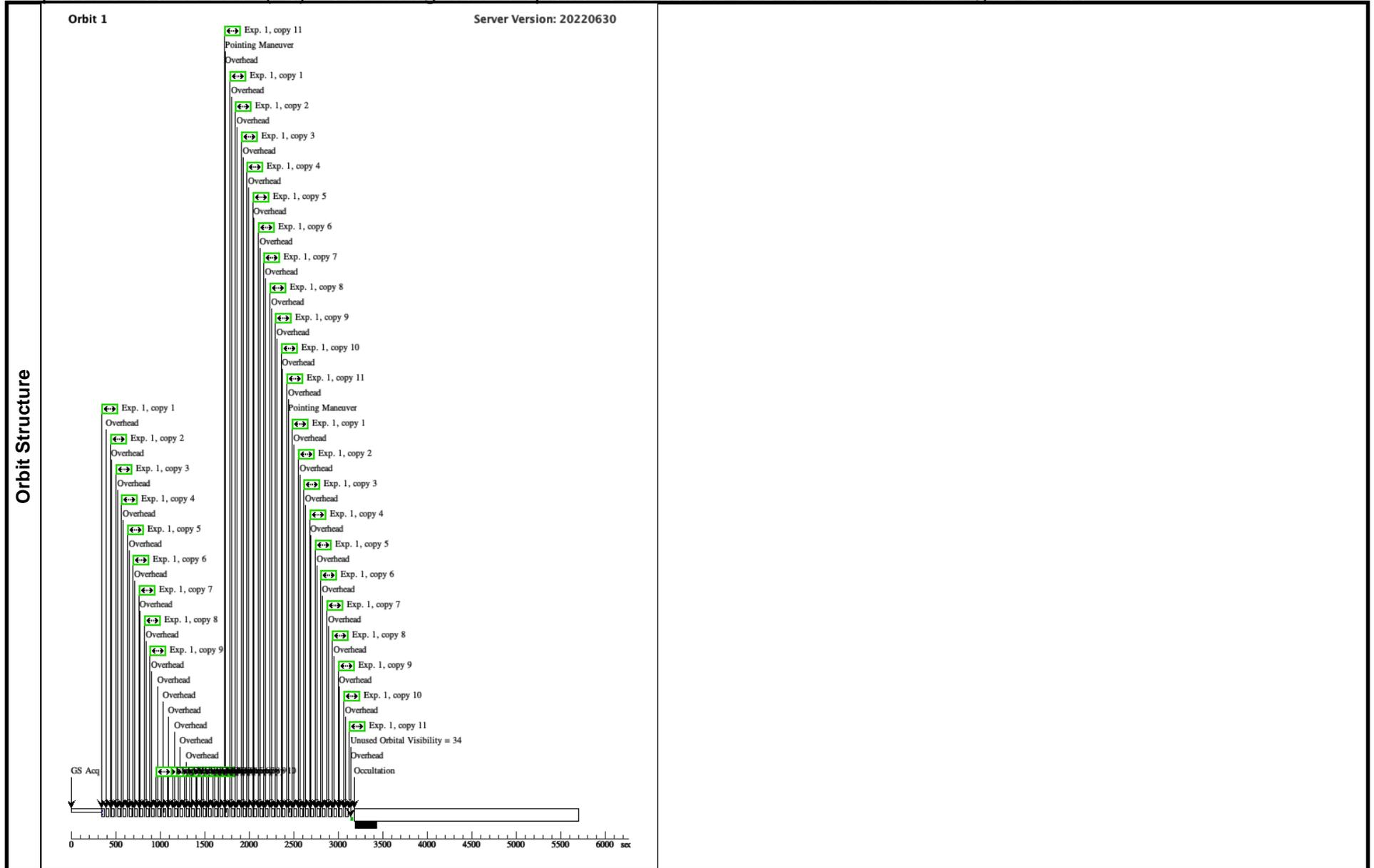
Proposal 17168 - AB Aur (E0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (E0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (E0) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (E0) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (E1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:20 GMT 2022

Visit	Proposal 17168, AB Aur (E1), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 25D TO 35D FROM E0; AFTER E0 BY 6.5 Orbits TO 8.5 Orbits					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (E1))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

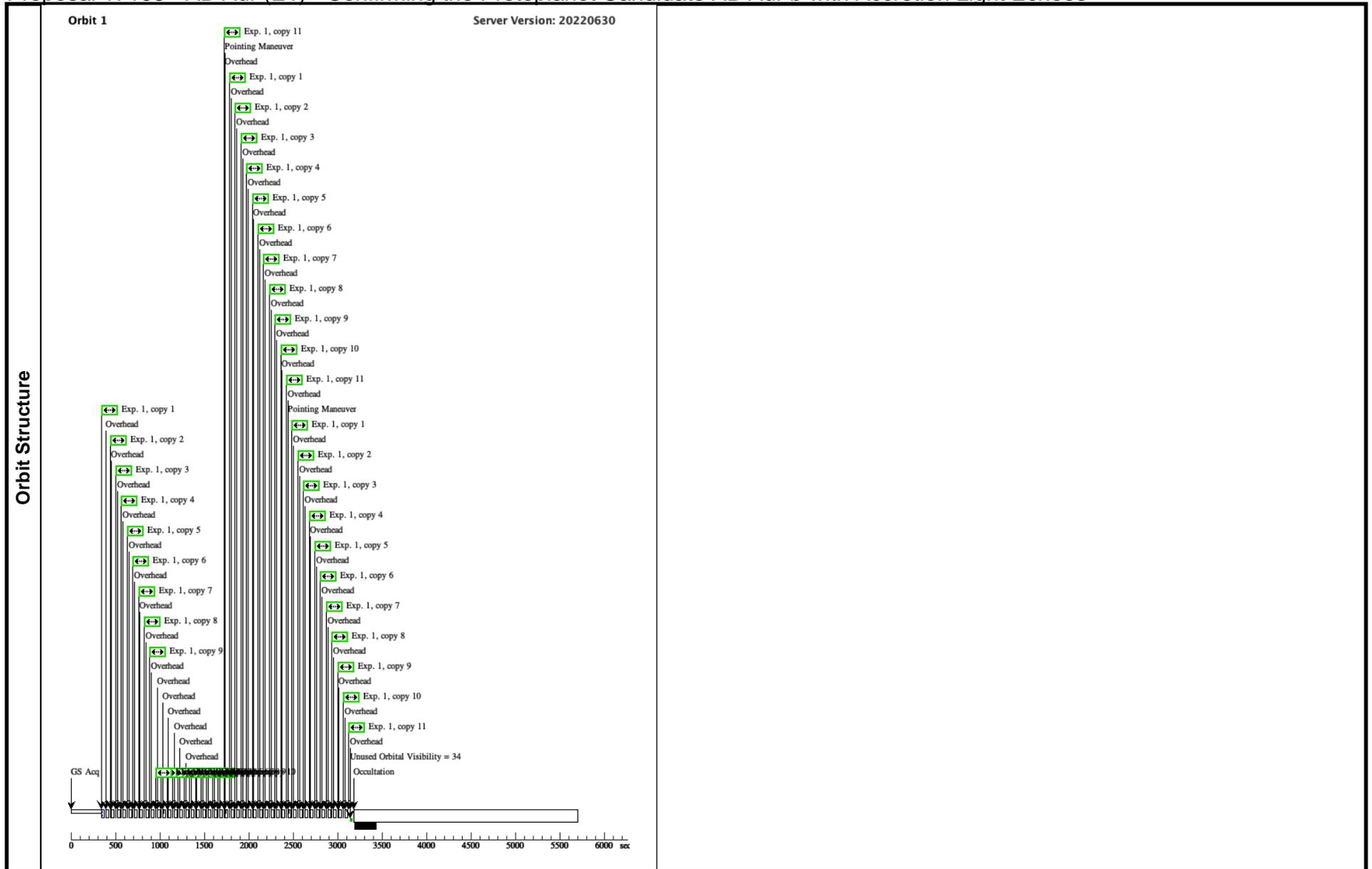
Proposal 17168 - AB Aur (E1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (E1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (E1) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (E1) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (E2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:20 GMT 2022

Visit	Proposal 17168, AB Aur (E2), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS E0; AFTER E1 BY 0.5 Orbits TO 1.5 Orbits					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (E2))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

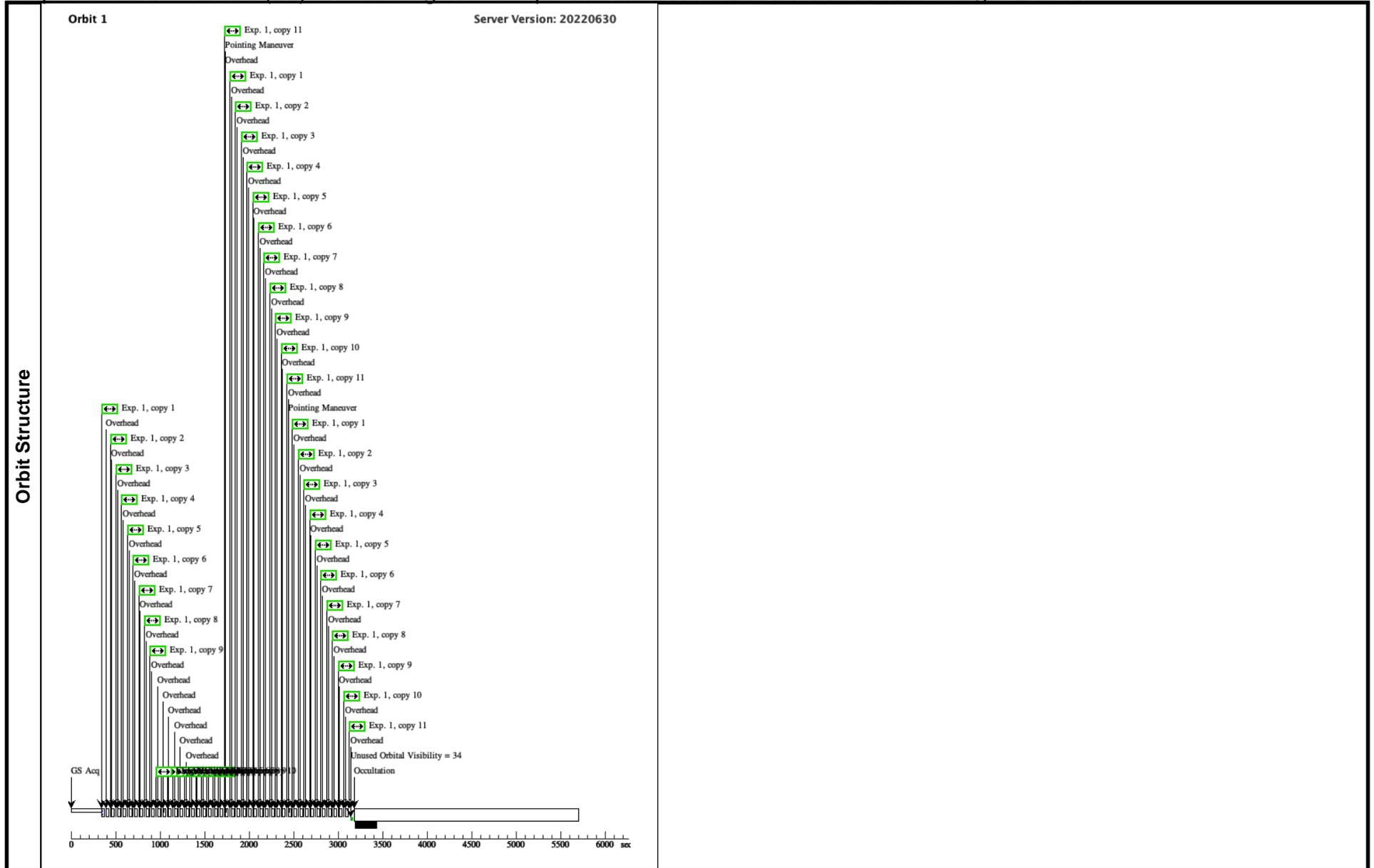
Proposal 17168 - AB Aur (E2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (E2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (E2) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (E2) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes



Proposal 17168 - AB Aur (E3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

Tue Dec 06 16:02:20 GMT 2022

Visit	Proposal 17168, AB Aur (E3), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS E1; AFTER E2 BY 0.5 Orbits TO 1.5 Orbits					
	(Exposure 1 (Pattern 1, Exps 1-1 in AB Aur (E3))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Diagnosics						
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.02 Line Spacing=0.02	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false		(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-AB-AUR	RA: 04 55 45.8507 (73.9410446d) Dec: +30 33 3.92 (30.55109d) Equinox: J2000	Proper Motion RA: 3.1104743402068534E-4 sec of time/yr Proper Motion Dec: -0.024027000063142623 arcsec/yr Epoch of Position: 2015.5	V=7.05	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[EXTRA-SOLAR PLANETARY SYSTEM, HERBIG AE/BE]						

Proposal 17168 - AB Aur (E3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures									

Proposal 17168 - AB Aur (E3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

1	(WFC3UVI (1) V-AB-AUR S.im.152459 0)	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F656N	FLASH=12	Pattern 1, Exps 1-1 i n AB Aur (E3) (1)	2.7 Secs X 11 (118.8 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 1, Copy 5)] [==>(Pattern 1, Copy 6)] [==>(Pattern 1, Copy 7)] [==>(Pattern 1, Copy 8)] [==>(Pattern 1, Copy 9)] [==>(Pattern 1, Copy 10)] [==>(Pattern 1, Copy 11)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 2, Copy 5)] [==>(Pattern 2, Copy 6)] [==>(Pattern 2, Copy 7)] [==>(Pattern 2, Copy 8)] [==>(Pattern 2, Copy 9)] [==>(Pattern 2, Copy 10)] [==>(Pattern 2, Copy 11)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)] [==>(Pattern 3, Copy 5)] [==>(Pattern 3, Copy 6)] [==>(Pattern 3, Copy 7)] [==>(Pattern 3, Copy 8)] [==>(Pattern 3, Copy 9)] [==>(Pattern 3, Copy 10)] [==>(Pattern 3, Copy 11)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)] [==>(Pattern 4, Copy 4)] [==>(Pattern 4, Copy 5)] [==>(Pattern 4, Copy 6)] [==>(Pattern 4, Copy 7)] [==>(Pattern 4, Copy 8)] [==>(Pattern 4, Copy 9)] [==>(Pattern 4, Copy 10)] [==>(Pattern 4, Copy 11)]	[1]
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Proposal 17168 - AB Aur (E3) - Confirming the Protoplanet Candidate AB Aur b with Accretion Light Echoes

