



17068 - Young Stars and Gas Structure within the ALMA Coverage of Dwarf Irregular Galaxy WLM

Cycle: 30, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Haylee Nichole Archer (PI) (Contact)	Arizona State University
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Dr. Rolf A. Jansen (CoI) (Contact)	Arizona State University
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Dr. Monica Rubio (CoI)	Universidad de Chile
Dr. Phil Cigan (CoI)	United States Naval Observatory
Dr. Leslie Hunt (CoI) (ESA Member)	INAF - Osservatorio Astrofisico di Arcetri

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) WLM-ALMA1	WFC3/UVIS	3	18-Jun-2024 10:02:24.0	yes
02	(1) WLM-ALMA1	WFC3/IR WFC3/UVIS	2	18-Jun-2024 10:02:25.0	yes
Z2	(1) WLM-ALMA1	WFC3/IR WFC3/UVIS	2	18-Jun-2024 10:02:26.0	yes
03	(2) WLM-ALMA2	WFC3/UVIS	3	18-Jun-2024 10:02:27.0	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>
Z3	(2) WLM-ALMA2	WFC3/UVIS	2	18-Jun-2024 10:02:28.0	yes
04	(2) WLM-ALMA2	WFC3/IR WFC3/UVIS	2	18-Jun-2024 10:02:29.0	yes
Z4	(2) WLM-ALMA2	WFC3/UVIS	1	18-Jun-2024 10:02:30.0	yes

15 Total Orbits Used

ABSTRACT

We request HST WFC3/UVIS and WFC3/IR observations of the areas within local dwarf irregular galaxy WLM that have been surveyed with ALMA in CO(2-1) and CO(1-0) in order to dissect and understand the star forming regions in this low-metallicity environment. WLM has an oxygen abundance that is 13% of solar, and the structure of the molecular clouds at these low metallicities is fundamentally different from those found in higher metallicity spirals such as the Milky Way. Recent analysis of star forming regions with CO cores within WLM raised questions about the role of these cores in the overall star forming event in these regions. The proposed HST observations from 0.275 to 1.6 microns will allow (1) measurements of the age and extinction toward massive stars that have formed in the star-forming regions, (2) calculation of the ionized gas mass in the star-forming regions, (3) constraint of the cloud boundaries, (4) identification of YSOs that are forming in the CO cores and determination of their evolutionary stage, (5) mapping of the extinction as a tracer of the gas within the star-forming regions, and (6) placement of the CO cores in the context of the gas and dust. This is crucial for our understanding of the role of the small CO cores in low metallicity star-forming regions.

OBSERVING DESCRIPTION

Imaging in multiple UV--near-IR filters with WFC3/UVIS and WFC3/IR of two pointings, each of (3+2)-orbit duration, within local dwarf galaxy WLM to cover the area surveyed with both ALMA in CO(2-1) and Spitzer/IRAC. All visits should be executed at the same ORIENT of PA_V3 = 45.0 +/- 1.0 deg to ensure none of the ALMA-detected CO cores falls outside the combined WFC3/UVIS field of view.

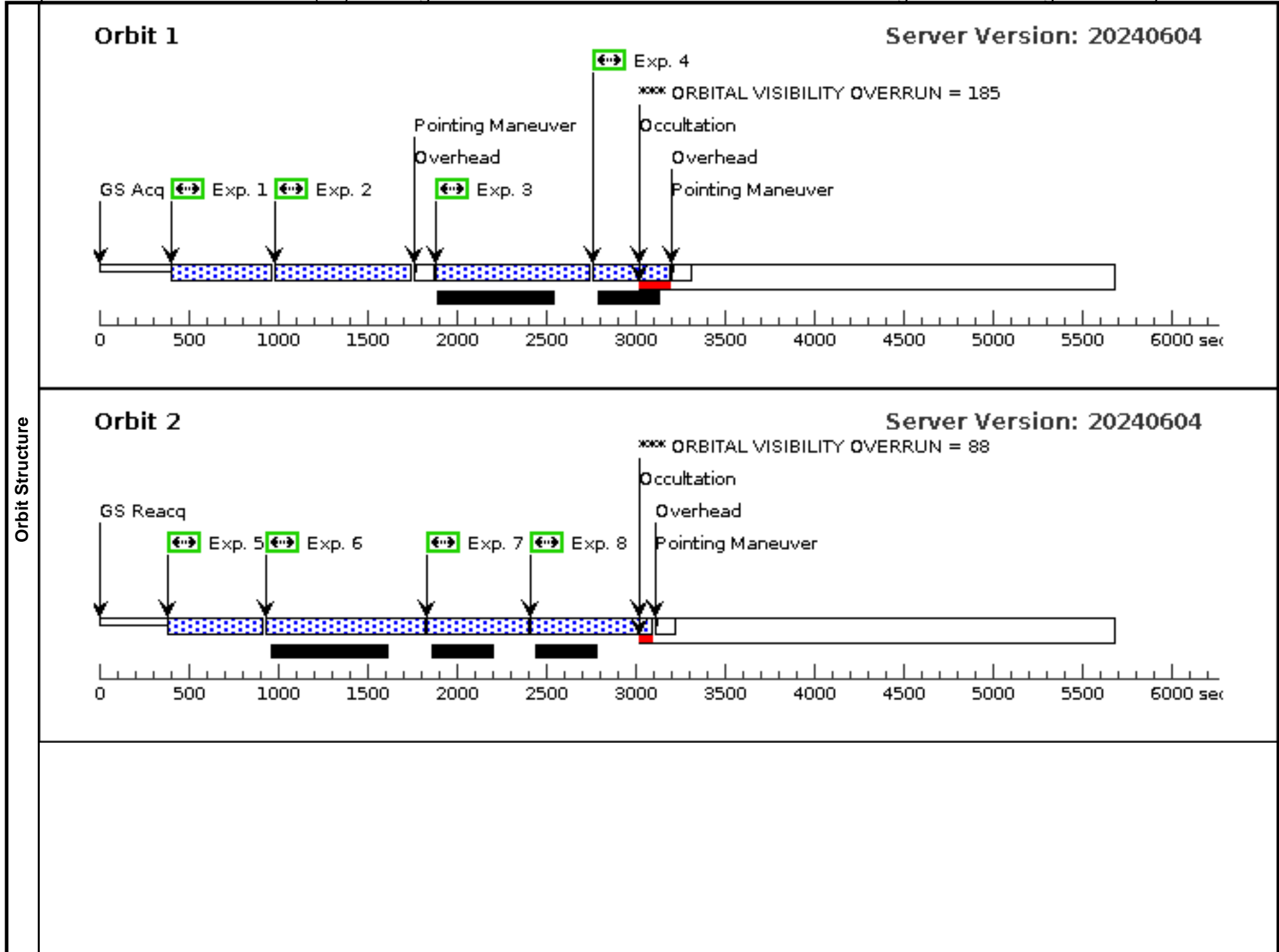
This program can be executed also in 2-gyro mode with minimal loss of image quality and science, since we split the 5 orbits of observations for each mosaic pointing over 3+2 orbits, and most of the individual exposures are shorter than 600 s (maximum exposure duration is 800 s).

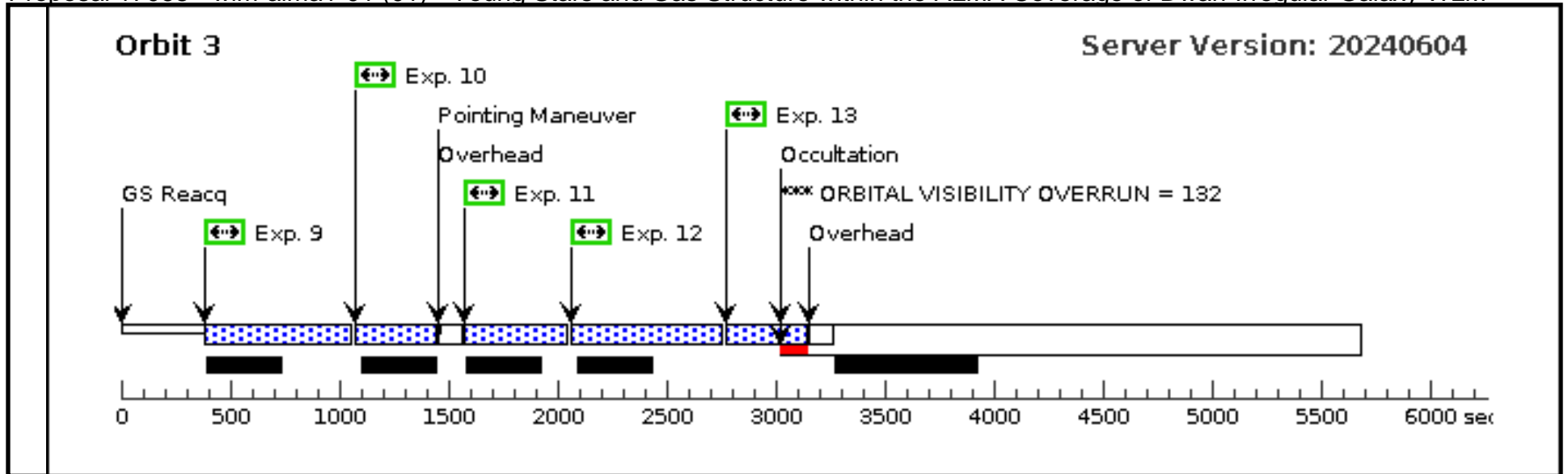
Proposal 17068 - wlm-alma1-01 (01) - Young Stars and Gas Structure within the ALMA Coverage of Dwarf Irregular Galaxy WLM

Visit	Proposal 17068, wlm-alma1-01 (01), completed Tue Jun 18 14:02:30 GMT 2024 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: PCS MODE FINE																
	Diagnostics	(wlm-alma1-01 (01)) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE (wlm-alma1-01 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (wlm-alma1-01 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (wlm-alma1-01 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Sequence 1-2 Non-Int in wlm-alma1-01 (01)) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.															
Fixed Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>WLM-ALMA1</td> <td>RA: 00 01 58.9356 (.4955650d) Dec: -15 27 3.29 (-15.45091d) Equinox: J2000</td> <td></td> <td>V=25.0+/-1.0</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	WLM-ALMA1	RA: 00 01 58.9356 (.4955650d) Dec: -15 27 3.29 (-15.45091d) Equinox: J2000		V=25.0+/-1.0
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(1)	WLM-ALMA1	RA: 00 01 58.9356 (.4955650d) Dec: -15 27 3.29 (-15.45091d) Equinox: J2000		V=25.0+/-1.0	Reference Frame: ICRS												
Comments: Category=GALAXY Description=[MAGELLANIC IRREGULAR, STAR FORMING REGION]																	

Proposal 17068 - wlm-alma1-01 (01) - Young Stars and Gas Structure within the ALMA Coverage of Dwarf Irregular Galaxy WLM

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=15	POS TARG 0.00,0.00;	GS ACQ SCENARIO BASE1BE	Sequence 1-2 Non-Int in wlm-alma1-01 (01)	410 Secs (410 Secs) [==>]	[1]
	2	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=15	POS TARG 0.00,0.00		Sequence 1-2 Non-Int in wlm-alma1-01 (01)	740 Secs (740 Secs) [==>]	[1]
	3	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=15	POS TARG 0.20,2.70		Sequence 3-4 Non-Int in wlm-alma1-01 (01)	740 Secs (740 Secs) [==>]	[1]
	4	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=15	POS TARG 0.20,2.70		Sequence 3-4 Non-Int in wlm-alma1-01 (01)	410 Secs (410 Secs) [==>]	[1]
	5	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=15	POS TARG -0.10,2.85		Sequence 5-8 Non-Int in wlm-alma1-01 (01)	410 Secs (410 Secs) [==>]	[2]
	6	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=15	POS TARG -0.10,2.85		Sequence 5-8 Non-Int in wlm-alma1-01 (01)	740 Secs (740 Secs) [==>]	[2]
	7	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	FLASH=6	POS TARG -0.10,2.85		Sequence 5-8 Non-Int in wlm-alma1-01 (01)	425 Secs (425 Secs) [==>]	[2]
	8	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F438W	FLASH=11	POS TARG -0.10,2.85		Sequence 5-8 Non-Int in wlm-alma1-01 (01)	660 Secs (660 Secs) [==>]	[2]
	9	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F438W	FLASH=12	POS TARG 0.00,0.00		Sequence 9-10 Non-Int in wlm-alma1-01 (01)	550 Secs (550 Secs) [==>]	[3]
	10	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	FLASH=7	POS TARG 0.00,0.00		Sequence 9-10 Non-Int in wlm-alma1-01 (01)	350 Secs (350 Secs) [==>]	[3]
	11	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	FLASH=7	POS TARG 0.20,2.70		Sequence 11-13 Non-Int in wlm-alma1-01 (01)	350 Secs (350 Secs) [==>]	[3]
	12	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F438W	FLASH=12	POS TARG 0.20,2.70		Sequence 11-13 Non-Int in wlm-alma1-01 (01)	550 Secs (550 Secs) [==>]	[3]
13	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F625W	FLASH=7	POS TARG 0.20,2.70		Sequence 11-13 Non-Int in wlm-alma1-01 (01)	350 Secs (350 Secs) [==>]	[3]	

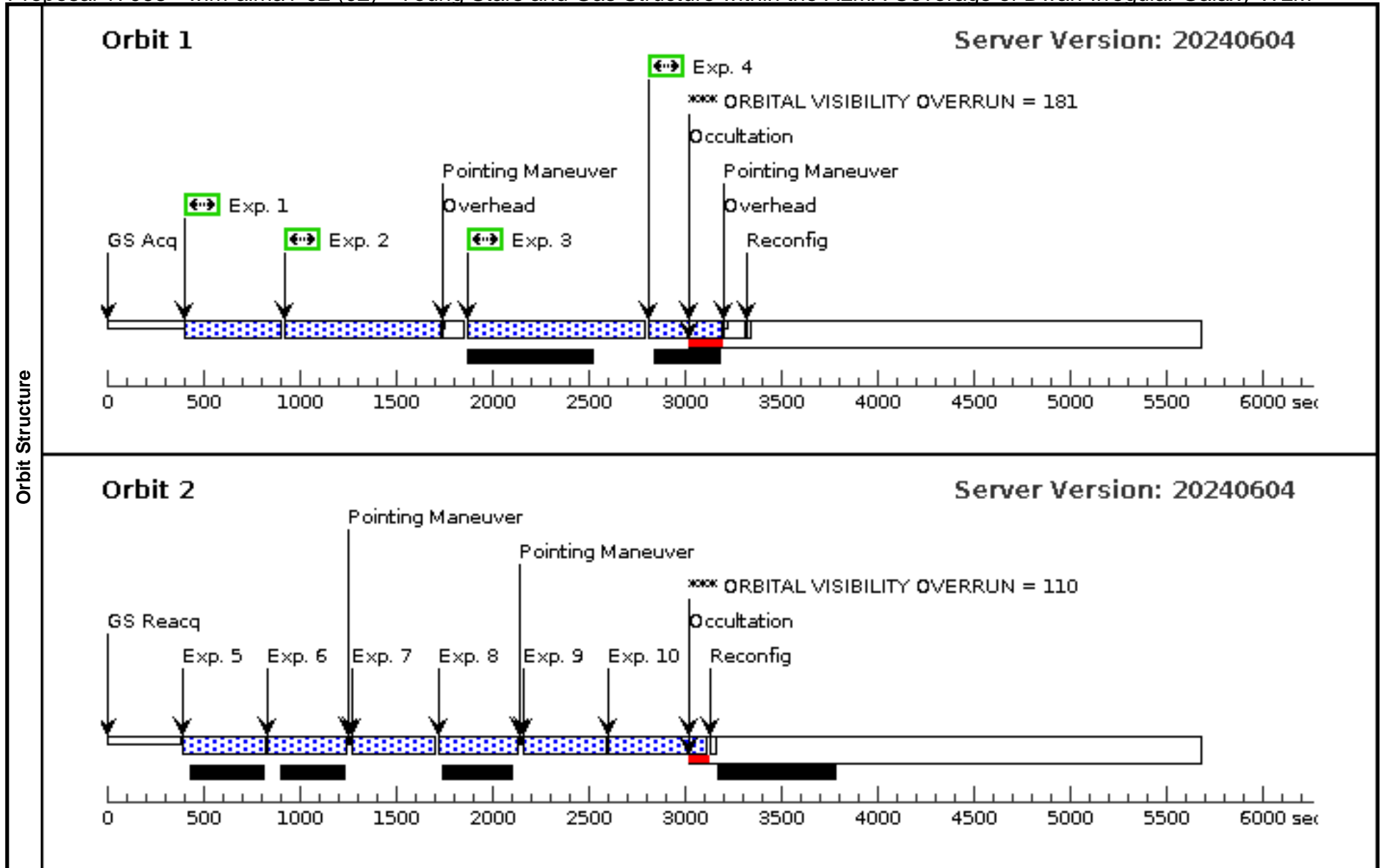




Proposal 17068 - wlm-alma1-02 (02) - Young Stars and Gas Structure within the ALMA Coverage of Dwarf Irregular Galaxy WLM

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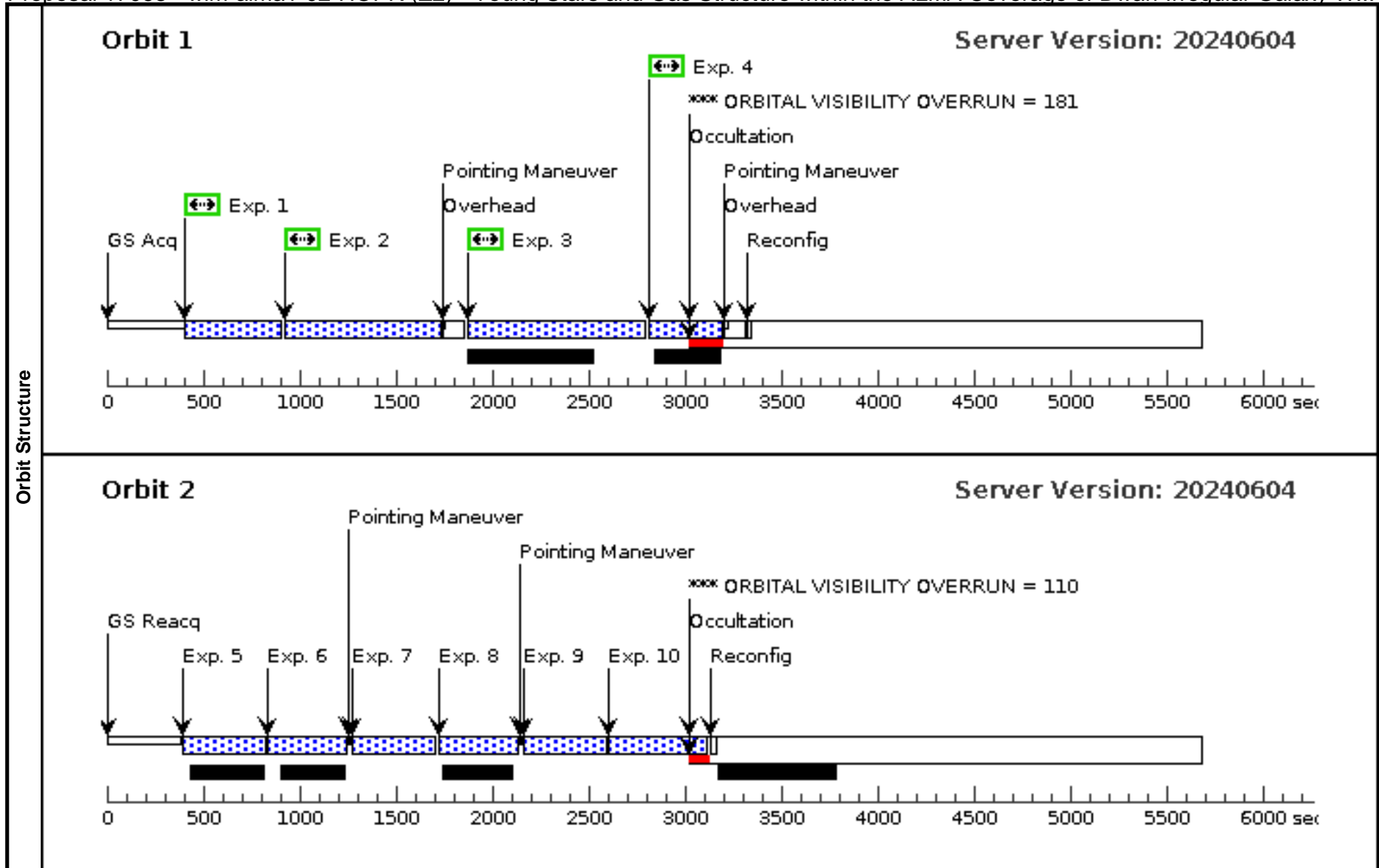
Visit	Proposal 17068, wlm-alma1-02 (02), failed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: PCS MODE FINE; SAME ORIENT AS 01									
	(wlm-alma1-02 (02)) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE (wlm-alma1-02 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (wlm-alma1-02 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Sequence 1-2 Non-Int in wlm-alma1-02 (02)) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	WLM-ALMA1	RA: 00 01 58.9356 (.4955650d) Dec: -15 27 3.29 (-15.45091d) Equinox: J2000		V=25.0+/-1.0	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[MAGELLANIC IRREGULAR, STAR FORMING REGION]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F625W	FLASH=7	POS TARG 0.00,0.00;	Sequence 1-2 Non-Int in wlm-alma1-02 (02)	350 Secs (350 Secs)	[==>]	[1]
	2	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F656N	FLASH=15	POS TARG 0.00,0.00	Sequence 1-2 Non-Int in wlm-alma1-02 (02)	800 Secs (800 Secs)	[==>]	[1]
	3	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F656N	FLASH=15	POS TARG -0.10,2.85	Sequence 3-4 Non-Int in wlm-alma1-02 (02)	800 Secs (800 Secs)	[==>]	[1]
	4	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F625W	FLASH=7	POS TARG -0.10,2.85	Sequence 3-4 Non-Int in wlm-alma1-02 (02)	350 Secs (350 Secs)	[==>]	[1]
	5	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG -11.00,16.00	Sequence 5-6 Non-Int in wlm-alma1-02 (02)	399.231646 Secs (399.232 Secs)	[==>]	[2]
	6	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG -11.00,16.00	Sequence 5-6 Non-Int in wlm-alma1-02 (02)	399.231646 Secs (399.232 Secs)	[==>]	[2]
	7	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG -11.40,16.40	Sequence 7-8 Non-Int in wlm-alma1-02 (02)	399.231646 Secs (399.232 Secs)	[==>]	[2]
	8	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG -11.40,16.40	Sequence 7-8 Non-Int in wlm-alma1-02 (02)	399.231646 Secs (399.232 Secs)	[==>]	[2]
	9	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG -10.85,16.30	Sequence 9-10 Non-Int in wlm-alma1-02 (02)	399.231646 Secs (399.232 Secs)	[==>]	[2]
10	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=11; SAMP-SEQ=STEP100	POS TARG -10.85,16.30	Sequence 9-10 Non-Int in wlm-alma1-02 (02)	499.231969 Secs (499.232 Secs)	[==>]	[2]	



Proposal 17068 - wlm-almal-02-HOPR (Z2) - Young Stars and Gas Structure within the ALMA Coverage of Dwarf Irregular Galaxy W...

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Visit	Proposal 17068, wlm-almal-02-HOPR (Z2), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: PCS MODE FINE; SAME ORIENT AS 01 <i>Comments: This is a HOPR repeat for failed visit 02</i>																																																																																																																		
	Diagnosics (wlm-almal-02-HOPR (Z2)) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE (wlm-almal-02-HOPR (Z2)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (wlm-almal-02-HOPR (Z2)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Sequence 1-2 Non-Int in wlm-almal-02-HOPR (Z2)) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.																																																																																																																		
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																																																																													
(1)	WLM-ALMA1	RA: 00 01 58.9356 (.4955650d) Dec: -15 27 3.29 (-15.45091d) Equinox: J2000		V=25.0+/-1.0	Reference Frame: ICRS																																																																																																														
<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(1) WLM-ALMA1</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F625W</td> <td>FLASH=7</td> <td>POS TARG 0.00,0.00;</td> <td>GS ACQ SCENARIO BASE1BE</td> <td>Sequence 1-2 Non-Int in wlm-almal-02-HOPR (Z2)</td> <td>350 Secs (350 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(1) WLM-ALMA1</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F656N</td> <td>FLASH=15</td> <td>POS TARG 0.00,0.00</td> <td></td> <td>Sequence 1-2 Non-Int in wlm-almal-02-HOPR (Z2)</td> <td>800 Secs (800 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(1) WLM-ALMA1</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F656N</td> <td>FLASH=15</td> <td>POS TARG -0.10,2.85</td> <td></td> <td>Sequence 3-4 Non-Int in wlm-almal-02-HOPR (Z2)</td> <td>800 Secs (800 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>(1) WLM-ALMA1</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F625W</td> <td>FLASH=7</td> <td>POS TARG -0.10,2.85</td> <td></td> <td>Sequence 3-4 Non-Int in wlm-almal-02-HOPR (Z2)</td> <td>350 Secs (350 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>(1) WLM-ALMA1</td> <td>WFC3/IR, MULTIACCUM, IR-FIX</td> <td>F160W</td> <td>NSAMP=10; SAMP-SEQ=STEP100</td> <td>POS TARG -11.00,16.00</td> <td></td> <td>Sequence 5-6 Non-Int in wlm-almal-02-HOPR (Z2)</td> <td>399.231646 Secs (399.232 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>6</td> <td>(1) WLM-ALMA1</td> <td>WFC3/IR, MULTIACCUM, IR-FIX</td> <td>F125W</td> <td>NSAMP=10; SAMP-SEQ=STEP100</td> <td>POS TARG -11.00,16.00</td> <td></td> <td>Sequence 5-6 Non-Int in wlm-almal-02-HOPR (Z2)</td> <td>399.231646 Secs (399.232 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>7</td> <td>(1) WLM-ALMA1</td> <td>WFC3/IR, MULTIACCUM, IR-FIX</td> <td>F125W</td> <td>NSAMP=10; SAMP-SEQ=STEP100</td> <td>POS TARG -11.40,16.40</td> <td></td> <td>Sequence 7-8 Non-Int in wlm-almal-02-HOPR (Z2)</td> <td>399.231646 Secs (399.232 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>8</td> <td>(1) WLM-ALMA1</td> <td>WFC3/IR, MULTIACCUM, IR-FIX</td> <td>F160W</td> <td>NSAMP=10; SAMP-SEQ=STEP100</td> <td>POS TARG -11.40,16.40</td> <td></td> <td>Sequence 7-8 Non-Int in wlm-almal-02-HOPR (Z2)</td> <td>399.231646 Secs (399.232 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>9</td> <td>(1) WLM-ALMA1</td> <td>WFC3/IR, MULTIACCUM, IR-FIX</td> <td>F160W</td> <td>NSAMP=10; SAMP-SEQ=STEP100</td> <td>POS TARG -10.85,16.30</td> <td></td> <td>Sequence 9-10 Non-Int in wlm-almal-02-HOPR (Z2)</td> <td>399.231646 Secs (399.232 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>10</td> <td>(1) WLM-ALMA1</td> <td>WFC3/IR, MULTIACCUM, IR-FIX</td> <td>F125W</td> <td>NSAMP=11; SAMP-SEQ=STEP100</td> <td>POS TARG -10.85,16.30</td> <td></td> <td>Sequence 9-10 Non-Int in wlm-almal-02-HOPR (Z2)</td> <td>499.231969 Secs (499.232 Secs) [==>]</td> <td>[2]</td> </tr> </tbody> </table>						#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F625W	FLASH=7	POS TARG 0.00,0.00;	GS ACQ SCENARIO BASE1BE	Sequence 1-2 Non-Int in wlm-almal-02-HOPR (Z2)	350 Secs (350 Secs) [==>]	[1]	2	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F656N	FLASH=15	POS TARG 0.00,0.00		Sequence 1-2 Non-Int in wlm-almal-02-HOPR (Z2)	800 Secs (800 Secs) [==>]	[1]	3	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F656N	FLASH=15	POS TARG -0.10,2.85		Sequence 3-4 Non-Int in wlm-almal-02-HOPR (Z2)	800 Secs (800 Secs) [==>]	[1]	4	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F625W	FLASH=7	POS TARG -0.10,2.85		Sequence 3-4 Non-Int in wlm-almal-02-HOPR (Z2)	350 Secs (350 Secs) [==>]	[1]	5	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG -11.00,16.00		Sequence 5-6 Non-Int in wlm-almal-02-HOPR (Z2)	399.231646 Secs (399.232 Secs) [==>]	[2]	6	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG -11.00,16.00		Sequence 5-6 Non-Int in wlm-almal-02-HOPR (Z2)	399.231646 Secs (399.232 Secs) [==>]	[2]	7	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG -11.40,16.40		Sequence 7-8 Non-Int in wlm-almal-02-HOPR (Z2)	399.231646 Secs (399.232 Secs) [==>]	[2]	8	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG -11.40,16.40		Sequence 7-8 Non-Int in wlm-almal-02-HOPR (Z2)	399.231646 Secs (399.232 Secs) [==>]	[2]	9	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG -10.85,16.30		Sequence 9-10 Non-Int in wlm-almal-02-HOPR (Z2)	399.231646 Secs (399.232 Secs) [==>]	[2]	10	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=11; SAMP-SEQ=STEP100	POS TARG -10.85,16.30		Sequence 9-10 Non-Int in wlm-almal-02-HOPR (Z2)	499.231969 Secs (499.232 Secs) [==>]	[2]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																																																										
1	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F625W	FLASH=7	POS TARG 0.00,0.00;	GS ACQ SCENARIO BASE1BE	Sequence 1-2 Non-Int in wlm-almal-02-HOPR (Z2)	350 Secs (350 Secs) [==>]	[1]																																																																																																										
2	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F656N	FLASH=15	POS TARG 0.00,0.00		Sequence 1-2 Non-Int in wlm-almal-02-HOPR (Z2)	800 Secs (800 Secs) [==>]	[1]																																																																																																										
3	(1) WLM-ALMA1	WFC3/UVIS, ACCUM, UVIS-CENTER	F656N	FLASH=15	POS TARG -0.10,2.85		Sequence 3-4 Non-Int in wlm-almal-02-HOPR (Z2)	800 Secs (800 Secs) [==>]	[1]																																																																																																										
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5	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG -11.00,16.00		Sequence 5-6 Non-Int in wlm-almal-02-HOPR (Z2)	399.231646 Secs (399.232 Secs) [==>]	[2]																																																																																																										
6	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG -11.00,16.00		Sequence 5-6 Non-Int in wlm-almal-02-HOPR (Z2)	399.231646 Secs (399.232 Secs) [==>]	[2]																																																																																																										
7	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG -11.40,16.40		Sequence 7-8 Non-Int in wlm-almal-02-HOPR (Z2)	399.231646 Secs (399.232 Secs) [==>]	[2]																																																																																																										
8	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG -11.40,16.40		Sequence 7-8 Non-Int in wlm-almal-02-HOPR (Z2)	399.231646 Secs (399.232 Secs) [==>]	[2]																																																																																																										
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10	(1) WLM-ALMA1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=11; SAMP-SEQ=STEP100	POS TARG -10.85,16.30		Sequence 9-10 Non-Int in wlm-almal-02-HOPR (Z2)	499.231969 Secs (499.232 Secs) [==>]	[2]																																																																																																										

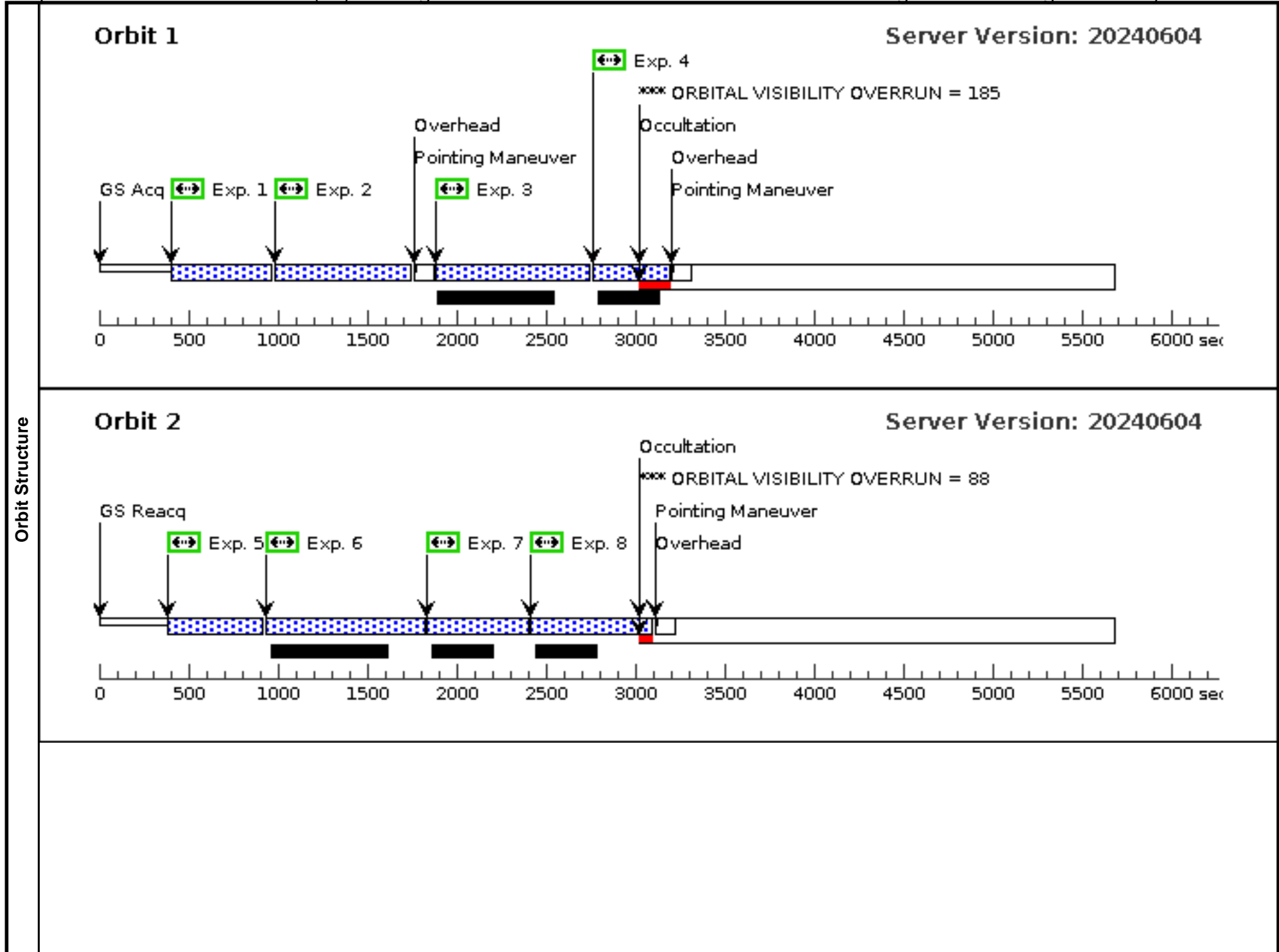


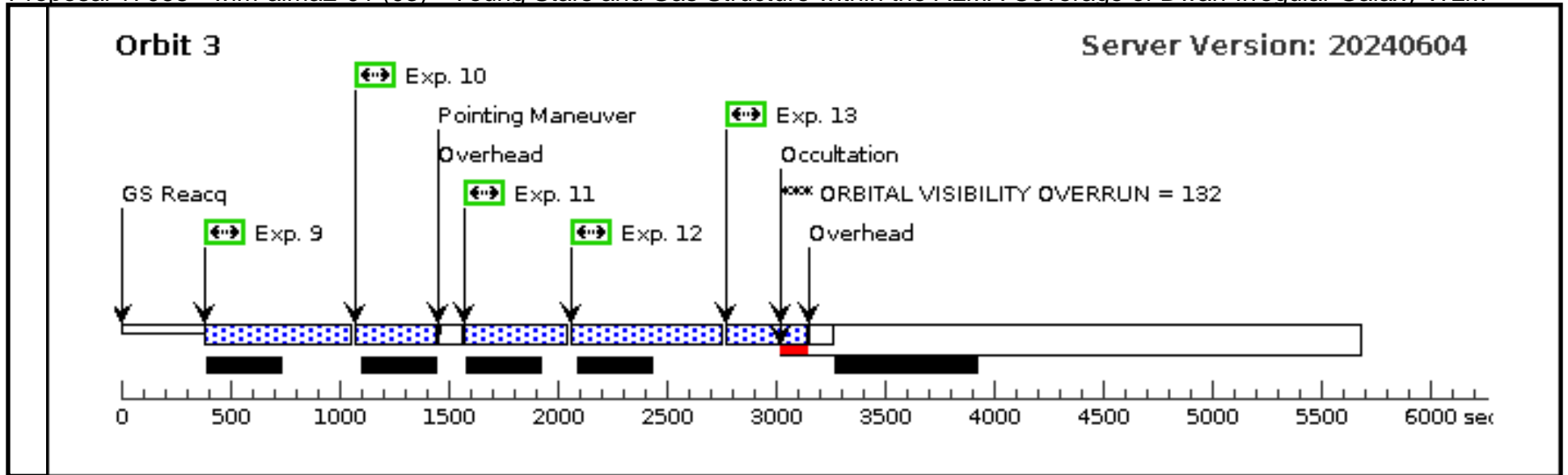
Proposal 17068 - wlm-alma2-01 (03) - Young Stars and Gas Structure within the ALMA Coverage of Dwarf Irregular Galaxy WLM

Visit	Proposal 17068, wlm-alma2-01 (03), failed Tue Jun 18 14:02:31 GMT 2024 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: PCS MODE FINE																
	Diagnostics	(wlm-alma2-01 (03)) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE (wlm-alma2-01 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (wlm-alma2-01 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (wlm-alma2-01 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Sequence 1-2 Non-Int in wlm-alma2-01 (03)) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.															
Fixed Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>WLM-ALMA2</td> <td>RA: 00 01 56.9132 (.4871383d) Dec: -15 29 18.06 (-15.48835d) Equinox: J2000</td> <td></td> <td>V=25.0+/-1.0</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	WLM-ALMA2	RA: 00 01 56.9132 (.4871383d) Dec: -15 29 18.06 (-15.48835d) Equinox: J2000		V=25.0+/-1.0
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(2)	WLM-ALMA2	RA: 00 01 56.9132 (.4871383d) Dec: -15 29 18.06 (-15.48835d) Equinox: J2000		V=25.0+/-1.0	Reference Frame: ICRS												
Comments: Category=GALAXY Description=[MAGELLANIC IRREGULAR, STAR FORMING REGION]																	

Proposal 17068 - wlm-alma2-01 (03) - Young Stars and Gas Structure within the ALMA Coverage of Dwarf Irregular Galaxy WLM

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=15	POS TARG 0.00,0.00;	GS ACQ SCENARIO BASE1BE	Sequence 1-2 Non-Int in wlm-alma2-01 (03)	410 Secs (410 Secs) [==>]	[1]
	2	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=15	POS TARG 0.00,0.00		Sequence 1-2 Non-Int in wlm-alma2-01 (03)	740 Secs (740 Secs) [==>]	[1]
	3	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=15	POS TARG 0.20,2.70		Sequence 3-4 Non-Int in wlm-alma2-01 (03)	740 Secs (740 Secs) [==>]	[1]
	4	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=15	POS TARG 0.20,2.70		Sequence 3-4 Non-Int in wlm-alma2-01 (03)	410 Secs (410 Secs) [==>]	[1]
	5	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=15	POS TARG -0.10,2.85		Sequence 5-8 Non-Int in wlm-alma2-01 (03)	410 Secs (410 Secs) [==>]	[2]
	6	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=15	POS TARG -0.10,2.85		Sequence 5-8 Non-Int in wlm-alma2-01 (03)	740 Secs (740 Secs) [==>]	[2]
	7	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	FLASH=6	POS TARG -0.10,2.85		Sequence 5-8 Non-Int in wlm-alma2-01 (03)	425 Secs (425 Secs) [==>]	[2]
	8	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F438W	FLASH=11	POS TARG -0.10,2.85		Sequence 5-8 Non-Int in wlm-alma2-01 (03)	660 Secs (660 Secs) [==>]	[2]
	9	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F438W	FLASH=12	POS TARG 0.00,0.00		Sequence 9-10 Non-Int in wlm-alma2-01 (03)	550 Secs (550 Secs) [==>]	[3]
	10	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	FLASH=7	POS TARG 0.00,0.00		Sequence 9-10 Non-Int in wlm-alma2-01 (03)	350 Secs (350 Secs) [==>]	[3]
	11	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	FLASH=7	POS TARG 0.20,2.70		Sequence 11-13 Non-Int in wlm-alma2-01 (03)	350 Secs (350 Secs) [==>]	[3]
	12	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F438W	FLASH=12	POS TARG 0.20,2.70		Sequence 11-13 Non-Int in wlm-alma2-01 (03)	550 Secs (550 Secs) [==>]	[3]
13	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F625W	FLASH=7	POS TARG 0.20,2.70		Sequence 11-13 Non-Int in wlm-alma2-01 (03)	350 Secs (350 Secs) [==>]	[3]	

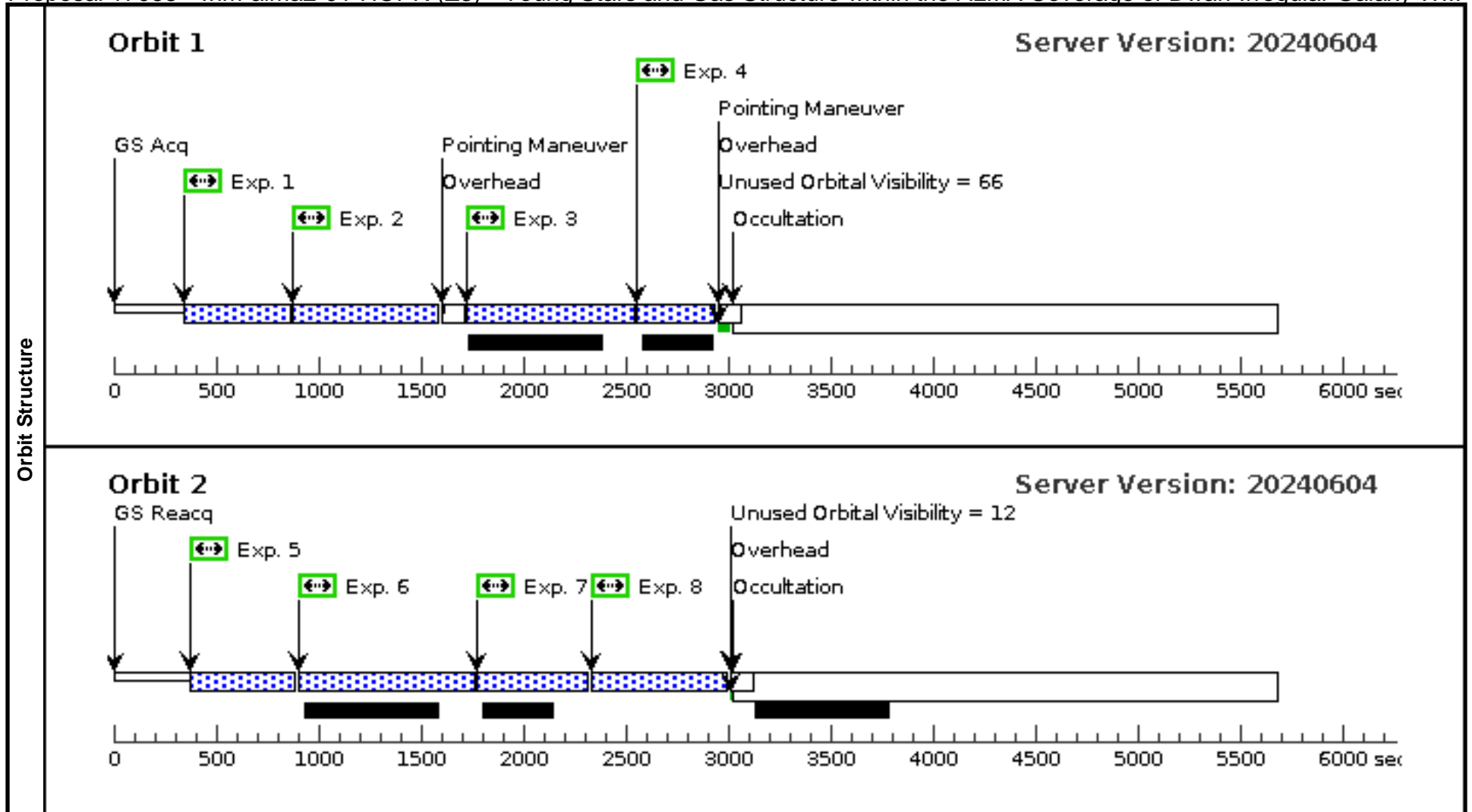




Proposal 17068 - wlm-alma2-01-HOPR (Z3) - Young Stars and Gas Structure within the ALMA Coverage of Dwarf Irregular Galaxy W...

Tue Jun 18 14:02:31 GMT 2024

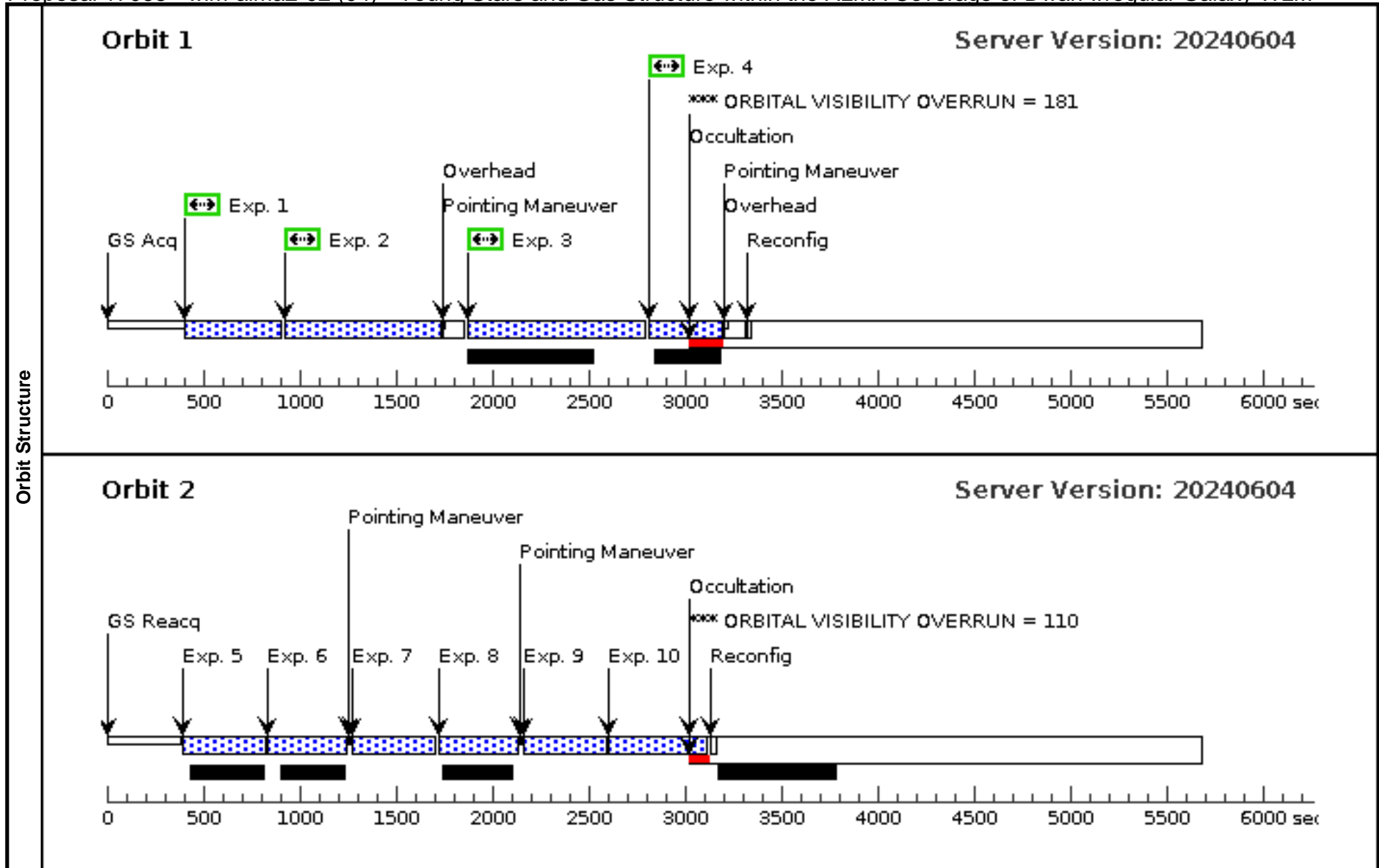
Visit	Proposal 17068, wlm-alma2-01-HOPR (Z3), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: PCS MODE FINE Comments: This is a partial HOPR repeat of failed visit 03									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	WLM-ALMA2	RA: 00 01 56.9132 (.4871383d) Dec: -15 29 18.06 (-15.48835d) Equinox: J2000			V=25.0+/-1.0	Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[MAGELLANIC IRREGULAR, STAR FORMING REGION]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) WLM-ALMA2		WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=15	POS TARG 0.00,0.00; GS ACQ SCENARIO BASE103	Sequence 1-2 Non-Int in wlm-alma2-01-HOPR (Z3)	410 Secs (363 Secs) [==>363.0 Secs]	[1]
	2	(2) WLM-ALMA2		WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=15	POS TARG 0.00,0.00	Sequence 1-2 Non-Int in wlm-alma2-01-HOPR (Z3)	740 Secs (693 Secs) [==>693.0 Secs]	[1]
	3	(2) WLM-ALMA2		WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=15	POS TARG 0.20,2.70	Sequence 3-4 Non-Int in wlm-alma2-01-HOPR (Z3)	740 Secs (693 Secs) [==>693.0 Secs]	[1]
	4	(2) WLM-ALMA2		WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=15	POS TARG 0.20,2.70	Sequence 3-4 Non-Int in wlm-alma2-01-HOPR (Z3)	410 Secs (363 Secs) [==>363.0 Secs]	[1]
	5	(2) WLM-ALMA2		WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=15	POS TARG -0.10,2.85	Sequence 5-8 Non-Int in wlm-alma2-01-HOPR (Z3)	410 Secs (388 Secs) [==>388.0 Secs]	[2]
	6	(2) WLM-ALMA2		WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=15	POS TARG -0.10,2.85	Sequence 5-8 Non-Int in wlm-alma2-01-HOPR (Z3)	740 Secs (718 Secs) [==>718.0 Secs]	[2]
	7	(2) WLM-ALMA2		WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	FLASH=6	POS TARG -0.10,2.85	Sequence 5-8 Non-Int in wlm-alma2-01-HOPR (Z3)	425 Secs (403 Secs) [==>403.0 Secs]	[2]
	8	(2) WLM-ALMA2		WFC3/UVIS, ACCUM, UVIS-CENTER	F438W	FLASH=11	POS TARG -0.10,2.85	Sequence 5-8 Non-Int in wlm-alma2-01-HOPR (Z3)	660 Secs (638 Secs) [==>638.0 Secs]	[2]



Proposal 17068 - wlm-alma2-02 (04) - Young Stars and Gas Structure within the ALMA Coverage of Dwarf Irregular Galaxy WLM

Tue Jun 18 14:02:31 GMT 2024

Visit	Proposal 17068, wlm-alma2-02 (04), failed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: PCS MODE FINE; SAME ORIENT AS 03									
	(wlm-alma2-02 (04)) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE (wlm-alma2-02 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (wlm-alma2-02 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Sequence 1-2 Non-Int in wlm-alma2-02 (04)) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	WLM-ALMA2	RA: 00 01 56.9132 (.4871383d) Dec: -15 29 18.06 (-15.48835d) Equinox: J2000		V=25.0+/-1.0	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[MAGELLANIC IRREGULAR, STAR FORMING REGION]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F625W	FLASH=7	POS TARG 0.00,0.00; GS ACQ SCENARIO BASE1BE	Sequence 1-2 Non-Int in wlm-alma2-02 (04)	350 Secs (350 Secs) [==>]	[1]	
	2	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F656N	FLASH=15	POS TARG 0.00,0.00	Sequence 1-2 Non-Int in wlm-alma2-02 (04)	800 Secs (800 Secs) [==>]	[1]	
	3	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F656N	FLASH=15	POS TARG -0.10,2.85	Sequence 3-4 Non-Int in wlm-alma2-02 (04)	800 Secs (800 Secs) [==>]	[1]	
	4	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F625W	FLASH=7	POS TARG -0.10,2.85	Sequence 3-4 Non-Int in wlm-alma2-02 (04)	350 Secs (350 Secs) [==>]	[1]	
	5	(2) WLM-ALMA2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG 9.00,17.00	Sequence 5-6 Non-Int in wlm-alma2-02 (04)	399.231646 Secs (399.232 Secs) [==>]	[2]	
	6	(2) WLM-ALMA2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG 9.00,17.00	Sequence 5-6 Non-Int in wlm-alma2-02 (04)	399.231646 Secs (399.232 Secs) [==>]	[2]	
	7	(2) WLM-ALMA2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG 9.40,17.40	Sequence 7-8 Non-Int in wlm-alma2-02 (04)	399.231646 Secs (399.232 Secs) [==>]	[2]	
	8	(2) WLM-ALMA2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG 9.40,17.40	Sequence 7-8 Non-Int in wlm-alma2-02 (04)	399.231646 Secs (399.232 Secs) [==>]	[2]	
	9	(2) WLM-ALMA2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=STEP100	POS TARG 8.85,17.30	Sequence 9-10 Non-Int in wlm-alma2-02 (04)	399.231646 Secs (399.232 Secs) [==>]	[2]	
10	(2) WLM-ALMA2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=11; SAMP-SEQ=STEP100	POS TARG 8.85,17.30	Sequence 9-10 Non-Int in wlm-alma2-02 (04)	499.231969 Secs (499.232 Secs) [==>]	[2]		



Visit	Proposal 17068, wlm-alma2-02-HOPR (Z4), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: PCS MODE FINE; SAME ORIENT AS 03 <i>Comments: This is a HOPR repeat for the first orbit of failed visit 04.</i>
	(wlm-alma2-02-HOPR (Z4)) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE (wlm-alma2-02-HOPR (Z4)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Sequence 1-2 Non-Int in wlm-alma2-02-HOPR (Z4)) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.

Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>WLM-ALMA2</td> <td>RA: 00 01 56.9132 (.4871383d) Dec: -15 29 18.06 (-15.48835d) Equinox: J2000</td> <td></td> <td>V=25.0+/-1.0</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	WLM-ALMA2	RA: 00 01 56.9132 (.4871383d) Dec: -15 29 18.06 (-15.48835d) Equinox: J2000		V=25.0+/-1.0	Reference Frame: ICRS
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<i>Comments:</i> Category=GALAXY Description=[MAGELLANIC IRREGULAR, STAR FORMING REGION]													

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F625W	FLASH=7	POS TARG 0.00,0.00;	GS ACQ SCENARIO BASE1BE	Sequence 1-2 Non-Int in wlm-alma2-02-HOPR (Z4)	350 Secs (333 Secs) [=>333.0 Secs]	[1]
2	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F656N	FLASH=15	POS TARG 0.00,0.00		Sequence 1-2 Non-Int in wlm-alma2-02-HOPR (Z4)	800 Secs (783 Secs) [=>783.0 Secs]	[1]
3	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F656N	FLASH=15	POS TARG -0.10,2.85		Sequence 3-4 Non-Int in wlm-alma2-02-HOPR (Z4)	800 Secs (783 Secs) [=>783.0 Secs]	[1]
4	(2) WLM-ALMA2	WFC3/UVIS, ACCUM, UVIS-CENTER	F625W	FLASH=7	POS TARG -0.10,2.85		Sequence 3-4 Non-Int in wlm-alma2-02-HOPR (Z4)	350 Secs (333 Secs) [=>333.0 Secs]	[1]

