



## 16226 - Metallicity Distribution Functions of Quenched Field Dwarf Galaxies

Cycle: 28, Proposal Category: GO

(Availability Mode: SUPPORTED)

### INVESTIGATORS

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### VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) TUCANA-DWARF-GALAXY ANY	ACS/WFC WFC3/UVIS	2	28-Sep-2020 11:01:28.0	yes
02	(1) TUCANA-DWARF-GALAXY ANY	ACS/WFC WFC3/UVIS	2	28-Sep-2020 11:01:29.0	yes
03	(1) TUCANA-DWARF-GALAXY ANY	ACS/WFC WFC3/UVIS	2	28-Sep-2020 11:01:30.0	yes
04	(1) TUCANA-DWARF-GALAXY ANY	ACS/WFC WFC3/UVIS	2	28-Sep-2020 11:01:31.0	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>
05	(1) TUCANA-DWARF-GALAXY ANY	ACS/WFC WFC3/UVIS	2	28-Sep-2020 11:01:32.0	yes
06	(1) TUCANA-DWARF-GALAXY ANY	ACS/WFC WFC3/UVIS	2	28-Sep-2020 11:01:33.0	yes
07	(2) CETUS-DWARF-GALAXY ANY	ACS/WFC WFC3/UVIS	2	28-Sep-2020 11:01:34.0	yes
08	(2) CETUS-DWARF-GALAXY ANY	ACS/WFC WFC3/UVIS	2	28-Sep-2020 11:01:35.0	yes
09	(2) CETUS-DWARF-GALAXY ANY	ACS/WFC WFC3/UVIS	2	28-Sep-2020 11:01:36.0	yes
10	(2) CETUS-DWARF-GALAXY ANY	ACS/WFC WFC3/UVIS	2	28-Sep-2020 11:01:37.0	yes
11	(2) CETUS-DWARF-GALAXY ANY	ACS/WFC WFC3/UVIS	2	28-Sep-2020 11:01:38.0	yes
12	(2) CETUS-DWARF-GALAXY ANY	ACS/WFC WFC3/UVIS	1	28-Sep-2020 11:01:39.0	yes

23 Total Orbits Used

## **ABSTRACT**

Environment is thought to play a central role in quenching low-mass dwarf galaxies. However, an increasing number of dwarf galaxies discovered in isolation suggest that mechanisms other than environment can quench dwarf galaxies. Here, we propose deep WFC3/F395N (Ca H & K) imaging to measure metallicities ( $\sim 0.1-0.2$  dex) for hundreds of individual stars in Cetus and Tucana, the two nearest examples of isolated quenched dwarf galaxies. Our Ca H & K photometry will provide an order-of-magnitude increase in the number of stars in each systems with reliable metallicities (from  $\sim 40$  to 400), enabling the first detailed study of the metallicity distribution functions (MDFs), and the physics they encode, in isolated quenched dwarf galaxies. Specifically, we will (1) construct and characterize detailed MDFs for Cetus and Tucana from a number of stars comparable to MW satellites; (2) use our MDFs to differentiate between signatures of external vs internal quenching in low-mass galaxies; and (3) combine our MDFs, HST-based SFHs, and HST-based proper motions (and orbital histories) to complete our knowledge of these enigmatic galaxies' formation histories.

This program will provide qualitatively new insight into how and why isolated low-mass galaxies stop forming stars. The construction of MDFs in such distant systems is only possible due to the excellent blue-sensitivity and angular resolution of HST -- no other ground- or space-based facility can acquire this data. This novel use of HST will establish it as a leader for measuring stellar metallicities in galaxies located at large distances from the Milky Way.

### **OBSERVING DESCRIPTION**

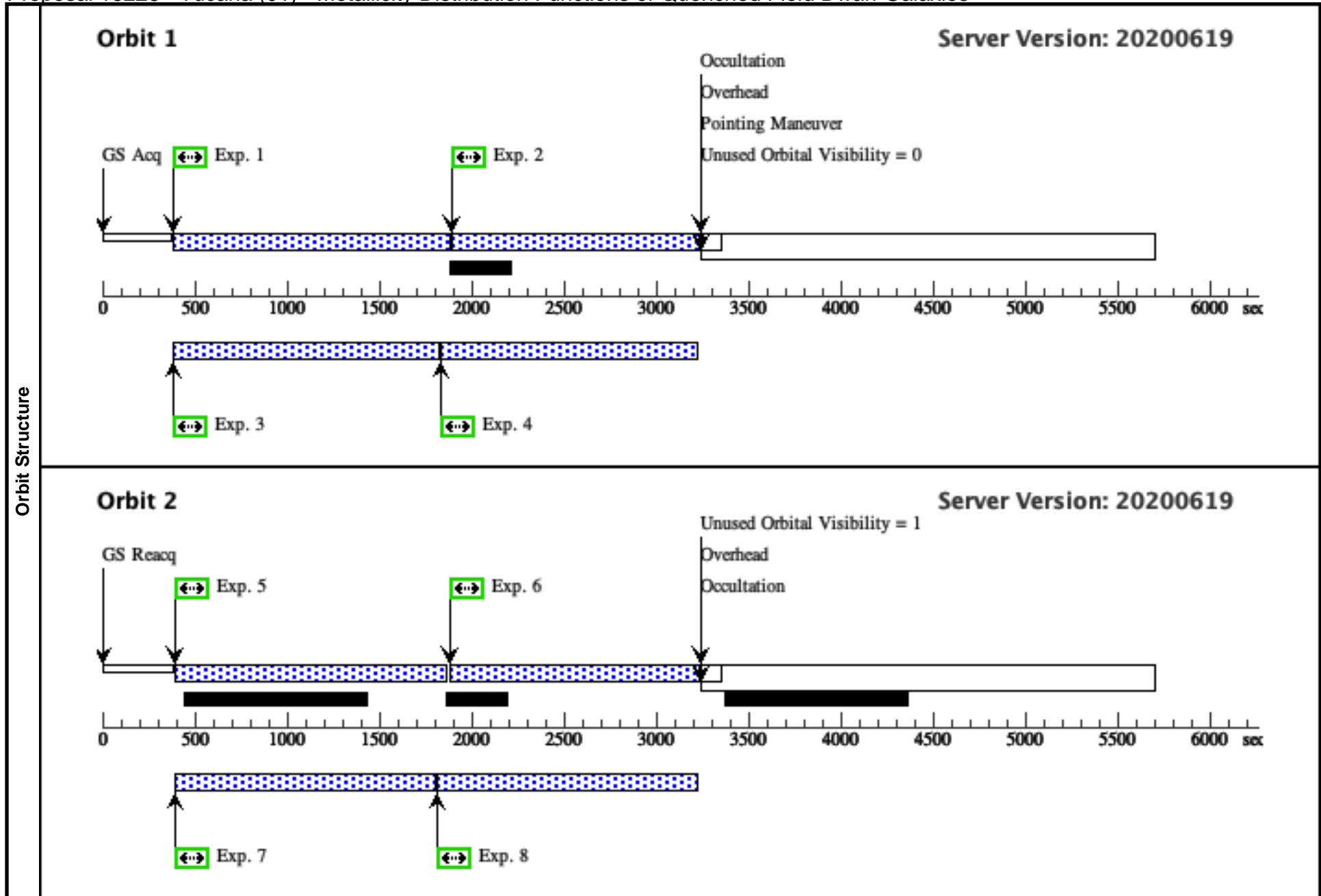
The goal of this program is to obtain F395N imaging with  $S/N > 10$  for the Cetus and Tucana dwarf galaxies down to  $F475W \sim 25$ . We aim to combine this data with existing F475W and F814W archival imaging (GO-10505) of each dwarf to construct their metallicity distribution functions and infer their quenching mechanisms. Accordingly, we extensively reference GO-10505 for program design.

Most of the visits in this program are two orbits. In each orbit, there are 2 F395N exposures taken per orbit in WFC3/UVIS, and no CR-splits. We follow the dither pattern from proposal GO-10505 using POS-TARG. For Tucana and Cetus respectively, there are 12 and 11 unique dither pointings, one per orbit. Coordinated parallel exposures are obtained using WFC/ACS in F475W and F814W filters. For the first visit to each galaxy, we impose orientation requirements so that our parallel exposures overlap with parallel fields targeted in GO-10505. Those fields were designed to avoid bright foreground stars, and also, to target scientifically valuable portions of each object's galactic halo. Subsequent visits to the object follow the same orientation to maximize the sky area covered in full depth in both the prime and parallel fields.

Proposal 16226 - Tucana (01) - Metallicity Distribution Functions of Quenched Field Dwarf Galaxies

Mon Sep 28 15:01:39 GMT 2020

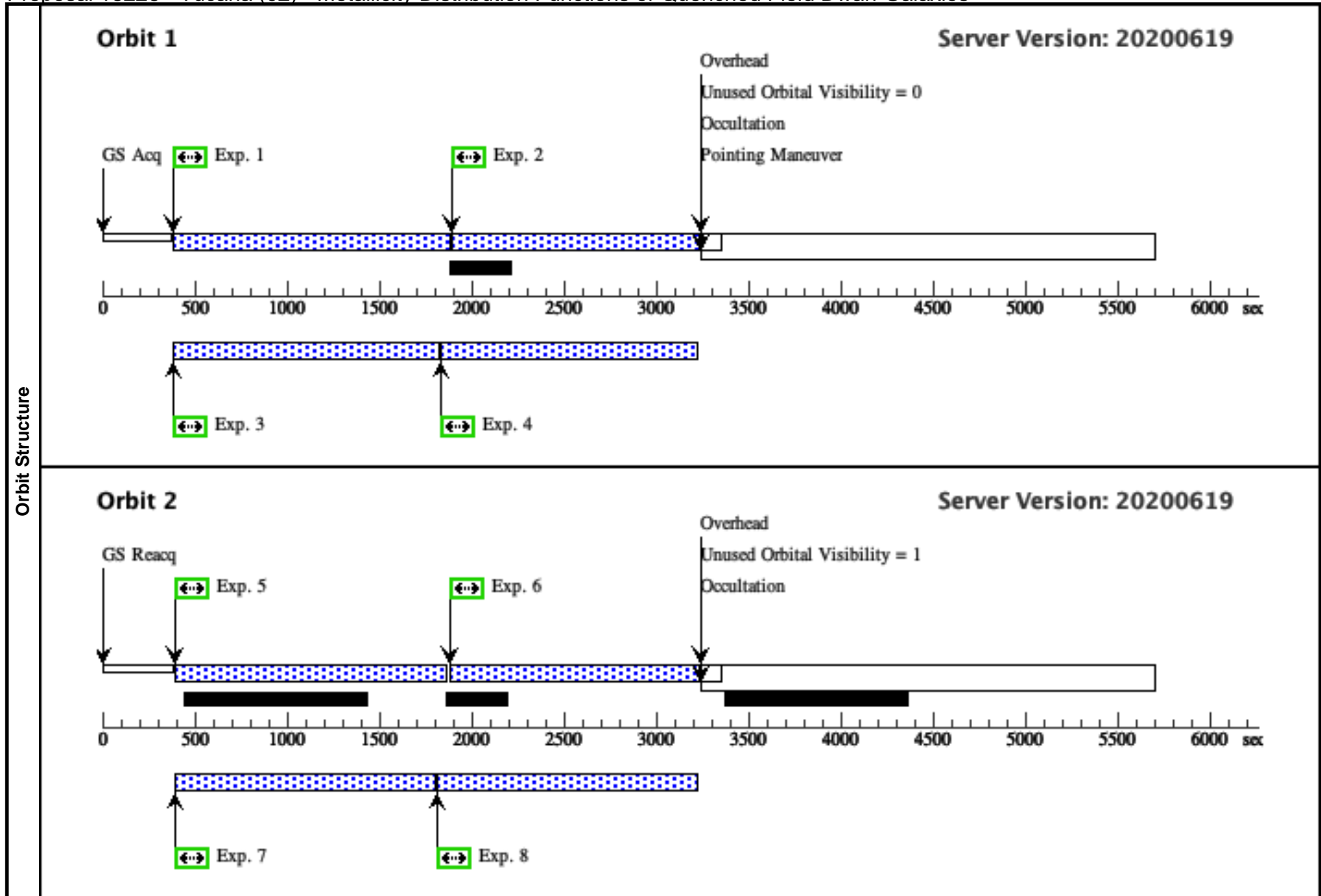
<b>Visit</b>	<b>Proposal 16226, Tucana (01), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 50% <i>Comments: This is the first visit to Tucana. We do not require orient restrictions in order to maximize schedulability for the field in the primary exposure. Each visit to Tucana consists of two orbits. In each orbit, we will acquire two primary exposures in F395N using WFC3/UVIS (no CR-splits). The coordinated parallel exposures are divided into F475W and F814W using ACS/WFC (no CR-splits).</i>																																																																																																		
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Proposal 16226 - Tucana (02) - Metallicity Distribution Functions of Quenched Field Dwarf Galaxies

Mon Sep 28 15:01:39 GMT 2020

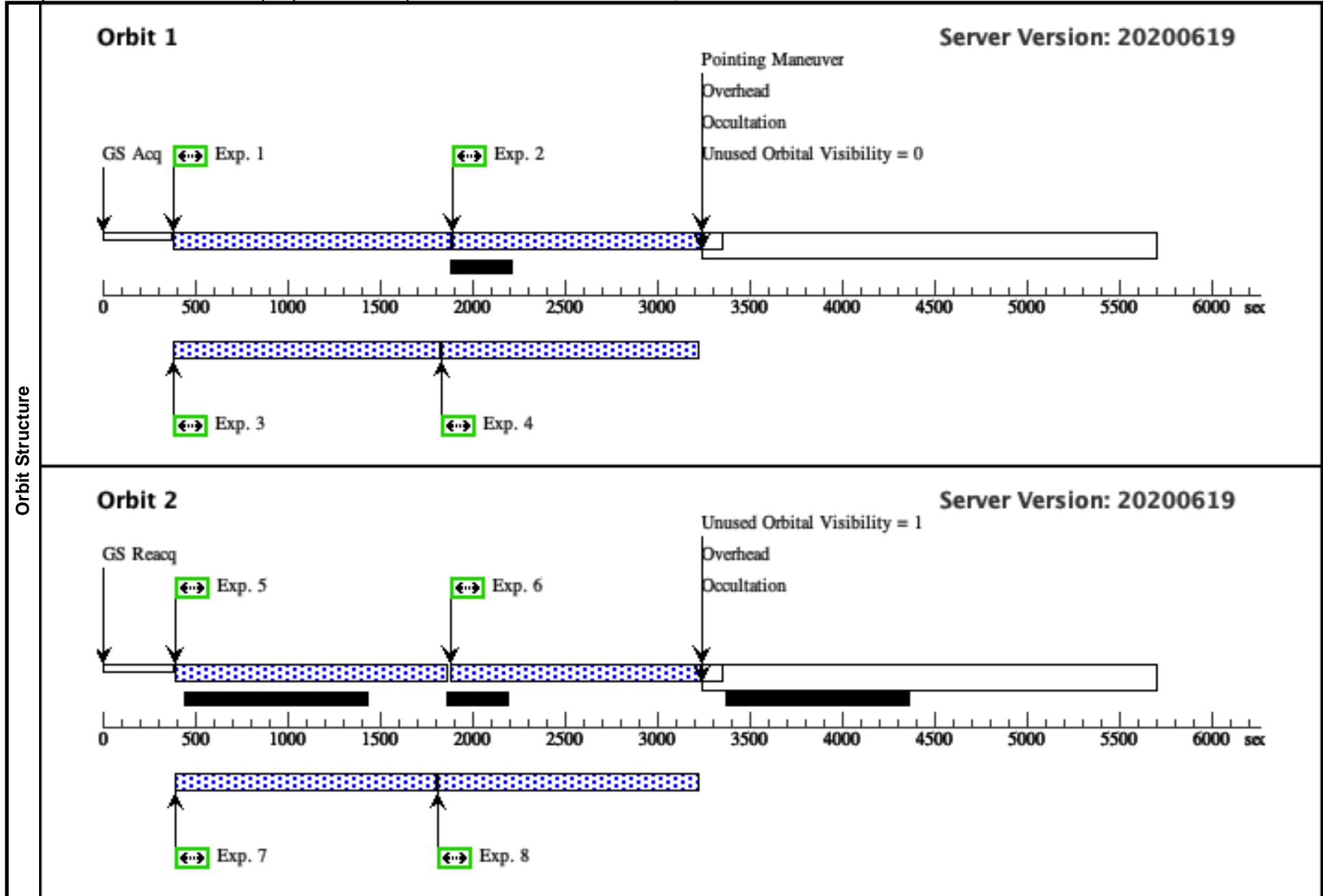
<b>Visit</b>	<b>Proposal 16226, Tucana (02), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 50%; SAME ORIENT AS 01 <i>Comments: The visits after the first visit to Tucana will require the same orientation as the first visit. Similarly to the first visit, each visit will consist of two orbits. We will take two exposures in F395N per orbit (no CR-splits) with WFC3/UVIS. The coordinated parallel exposures are taken with ACS/WFC, and each orbit is divided into one F475W and one F814W exposure (no CR-splits).</i>																																																																																																			
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Proposal 16226 - Tucana (03) - Metallicity Distribution Functions of Quenched Field Dwarf Galaxies

Mon Sep 28 15:01:39 GMT 2020

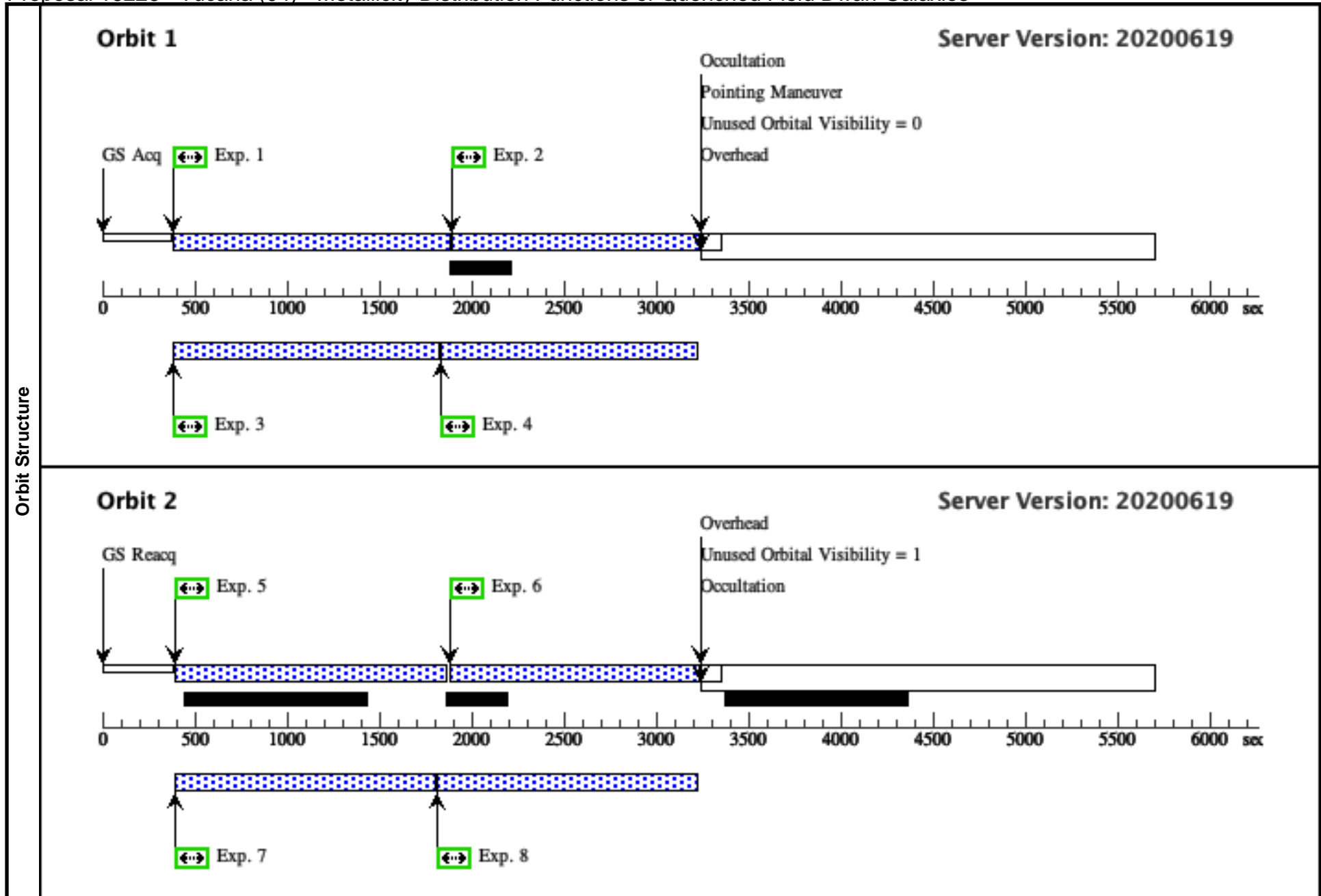
<b>Visit</b>	<b>Proposal 16226, Tucana (03), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 50%; SAME ORIENT AS 01 <i>Comments: The visits after the first visit to Tucana will require the same orientation as the first visit. Similarly to the first visit, each visit will consist of two orbits. We will take two exposures in F395N per orbit (no CR-splits) with WFC3/UVIS. The coordinated parallel exposures are taken with ACS/WFC, and each orbit is divided into one F475W and one F814W exposure (no CR-splits).</i>																																																																																															
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Proposal 16226 - Tucana (04) - Metallicity Distribution Functions of Quenched Field Dwarf Galaxies

Mon Sep 28 15:01:40 GMT 2020

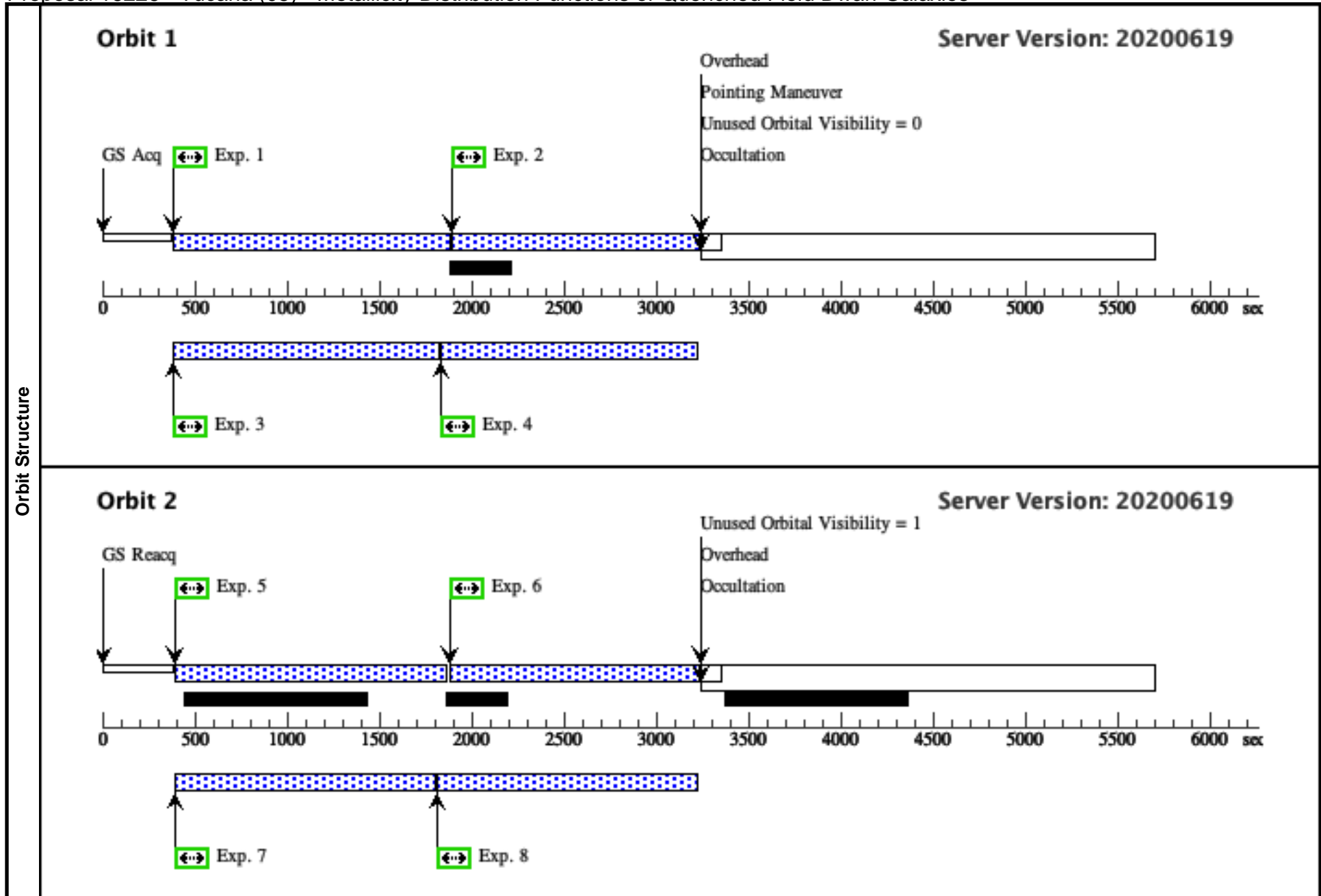
<b>Visit</b>	<b>Proposal 16226, Tucana (04), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 50%; SAME ORIENT AS 01 <i>Comments: The visits after the first visit to Tucana will require the same orientation as the first visit. Similarly to the first visit, each visit will consist of two orbits. We will take two exposures in F395N per orbit (no CR-splits) with WFC3/UVIS. The coordinated parallel exposures are taken with ACS/WFC, and each orbit is divided into one F475W and one F814W exposure (no CR-splits).</i>																																																																																																			
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Proposal 16226 - Tucana (05) - Metallicity Distribution Functions of Quenched Field Dwarf Galaxies

Mon Sep 28 15:01:40 GMT 2020

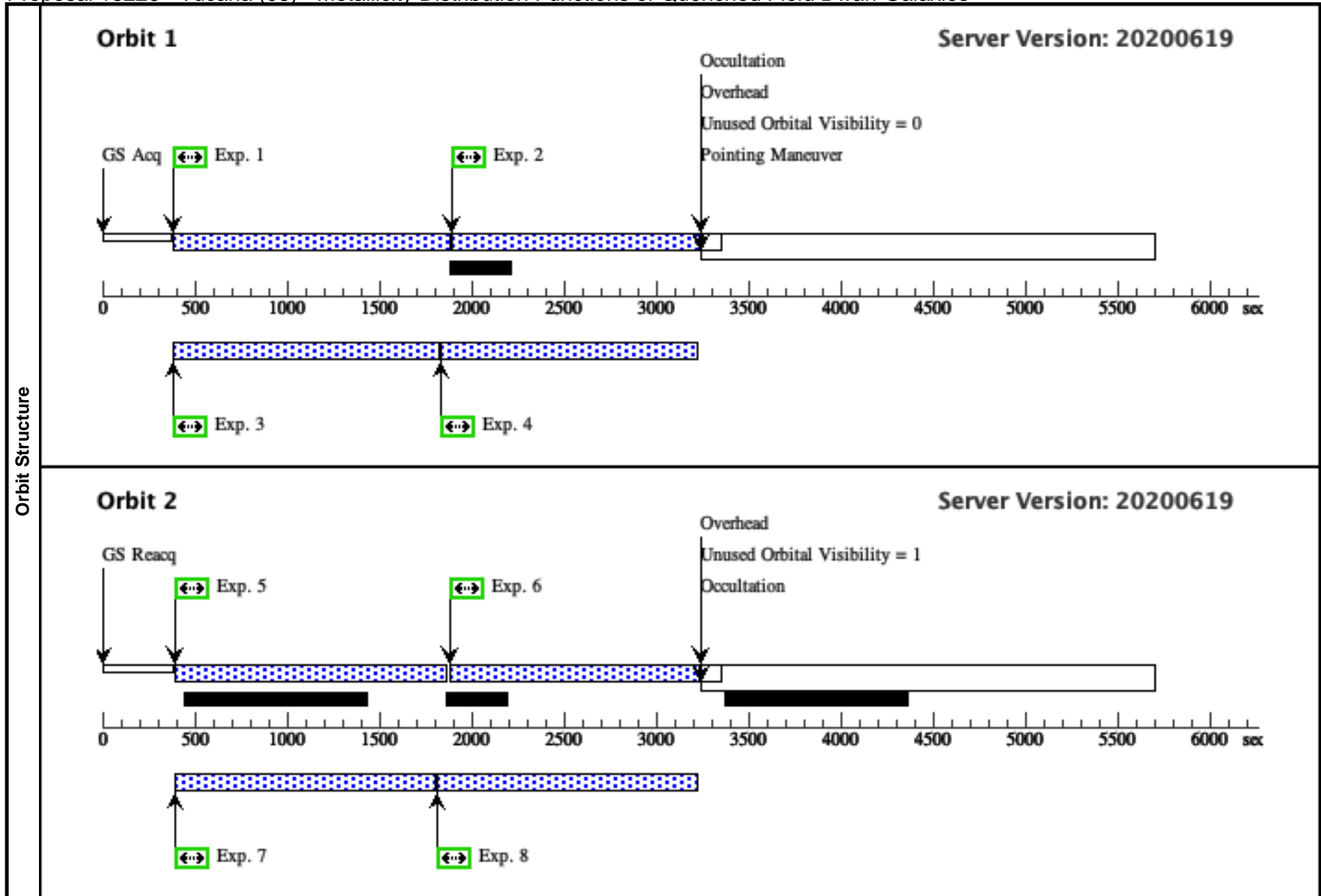
<b>Visit</b>	<b>Proposal 16226, Tucana (05), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 50%; SAME ORIENT AS 01 <i>Comments: The visits after the first visit to Tucana will require the same orientation as the first visit. Similarly to the first visit, each visit will consist of two orbits. We will take two exposures in F395N per orbit (no CR-splits) with WFC3/UVIS. The coordinated parallel exposures are taken with ACS/WFC, and each orbit is divided into one F475W and one F814W exposure (no CR-splits).</i>																																																																																														
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Proposal 16226 - Tucana (06) - Metallicity Distribution Functions of Quenched Field Dwarf Galaxies

Mon Sep 28 15:01:40 GMT 2020

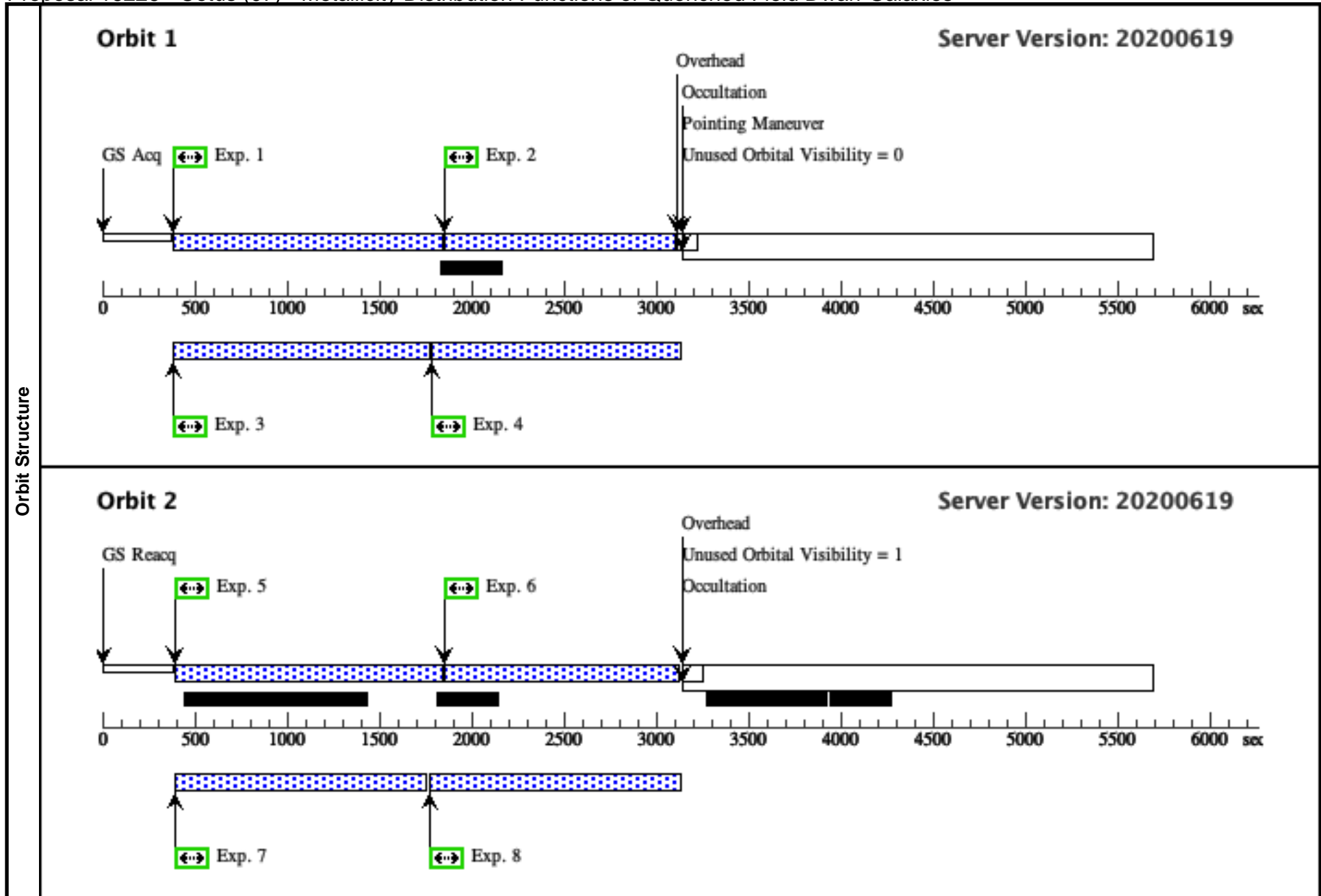
<b>Visit</b>	<b>Proposal 16226, Tucana (06), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 50%; SAME ORIENT AS 01 <i>Comments: The visits after the first visit to Tucana will require the same orientation as the first visit. Similarly to the first visit, each visit will consist of two orbits. We will take two exposures in F395N per orbit (no CR-splits) with WFC3/UVIS. The coordinated parallel exposures are taken with ACS/WFC, and each orbit is divided into one F475W and one F814W exposure (no CR-splits).</i>																																																																																																			
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Proposal 16226 - Cetus (07) - Metallicity Distribution Functions of Quenched Field Dwarf Galaxies

Mon Sep 28 15:01:40 GMT 2020

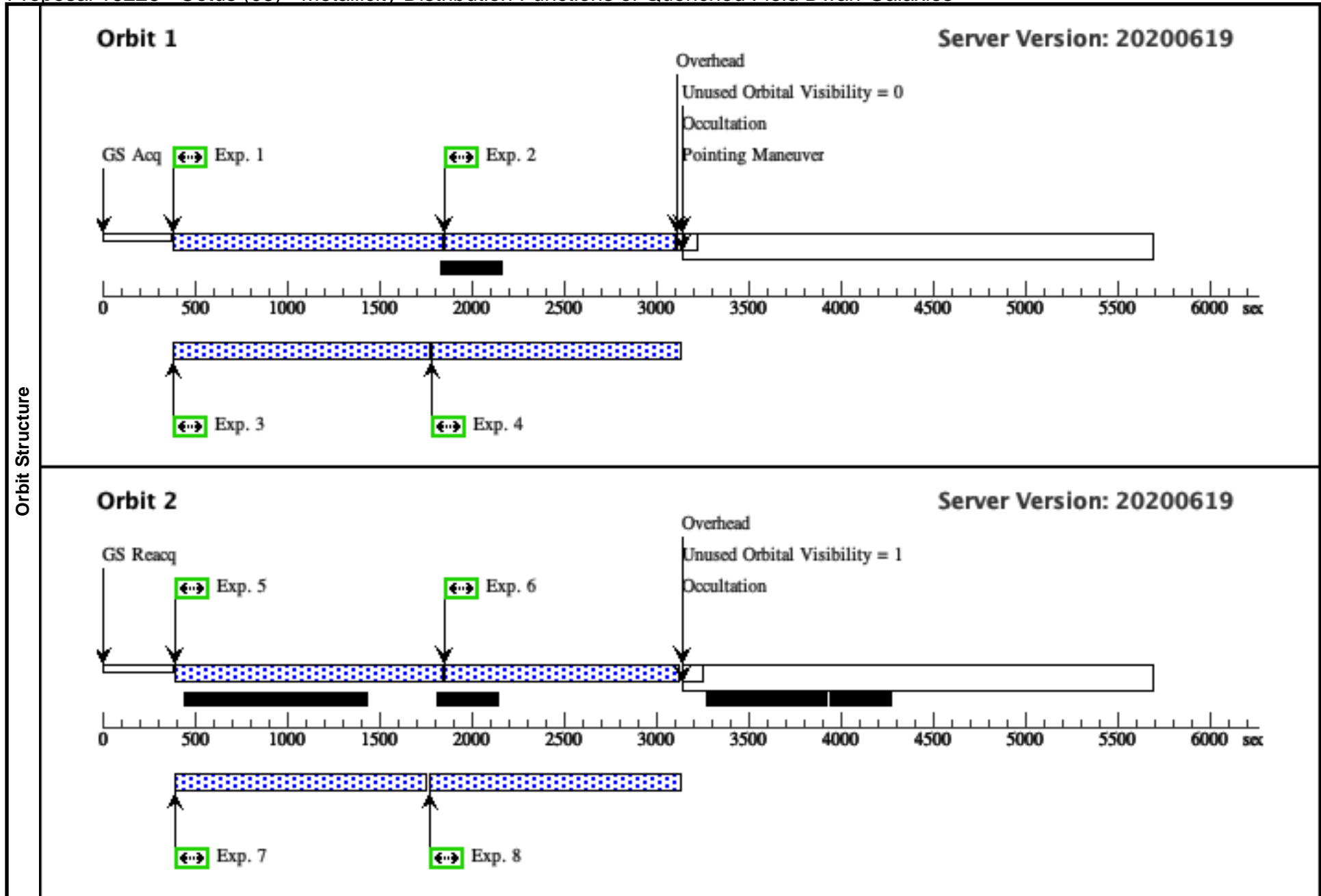
<b>Visit</b>	<b>Proposal 16226, Cetus (07), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 154.5D TO 244.2 D; ORIENT 40.4D TO 52.6 D <i>Comments: This is the first visit to Cetus. We require constraints on orientation, and for remaining visits to this galaxy, we request the same orient as in this visit. That way, coordinated parallels with ACS/WFC will always fall in the same field. Each visit to Cetus except the final consists of two orbits; the final visit is one orbit only. In each orbit, we will acquire two primary exposures in F395N using WFC3/UVIS (no CR-splits). The coordinated parallel exposures are divided into F475W and F814W using ACS/WFC (no CR-splits).</i>																																																																																																		
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Proposal 16226 - Cetus (08) - Metallicity Distribution Functions of Quenched Field Dwarf Galaxies

Mon Sep 28 15:01:40 GMT 2020

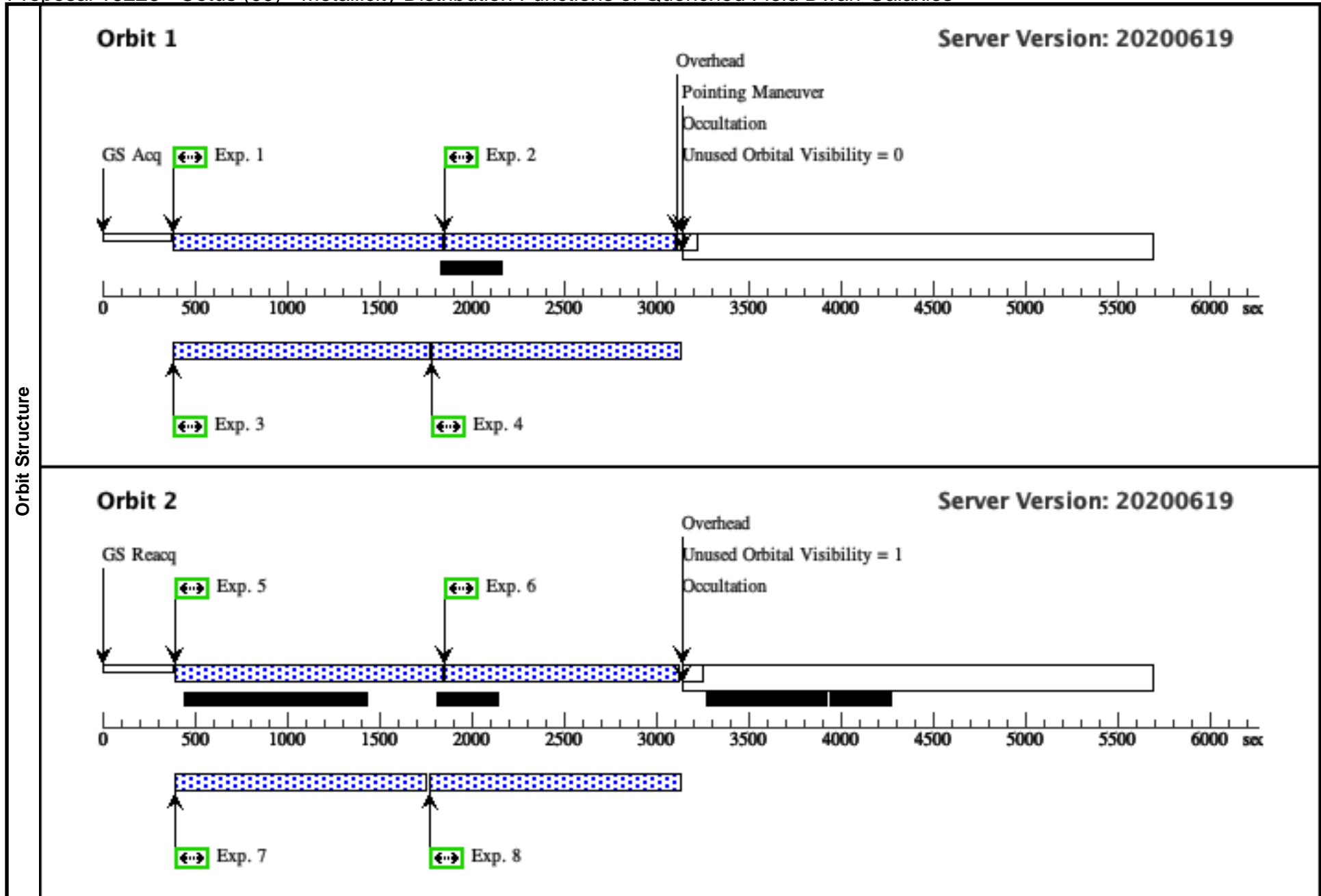
<b>Visit</b>	<b>Proposal 16226, Cetus (08), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 07 <i>Comments: The visits after the first visit to Cetus will require the same orientation as the first visit. Similarly to the first visit, each visit will consist of two orbits. We will take two exposures in F395N per orbit (no CR-splits) with WFC3/UVIS. The coordinated parallel exposures are taken with ACS/WFC, and each orbit is divided into one F475W and one F814W exposure (no CR-splits).</i>																																																																																															
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Proposal 16226 - Cetus (09) - Metallicity Distribution Functions of Quenched Field Dwarf Galaxies

Mon Sep 28 15:01:40 GMT 2020

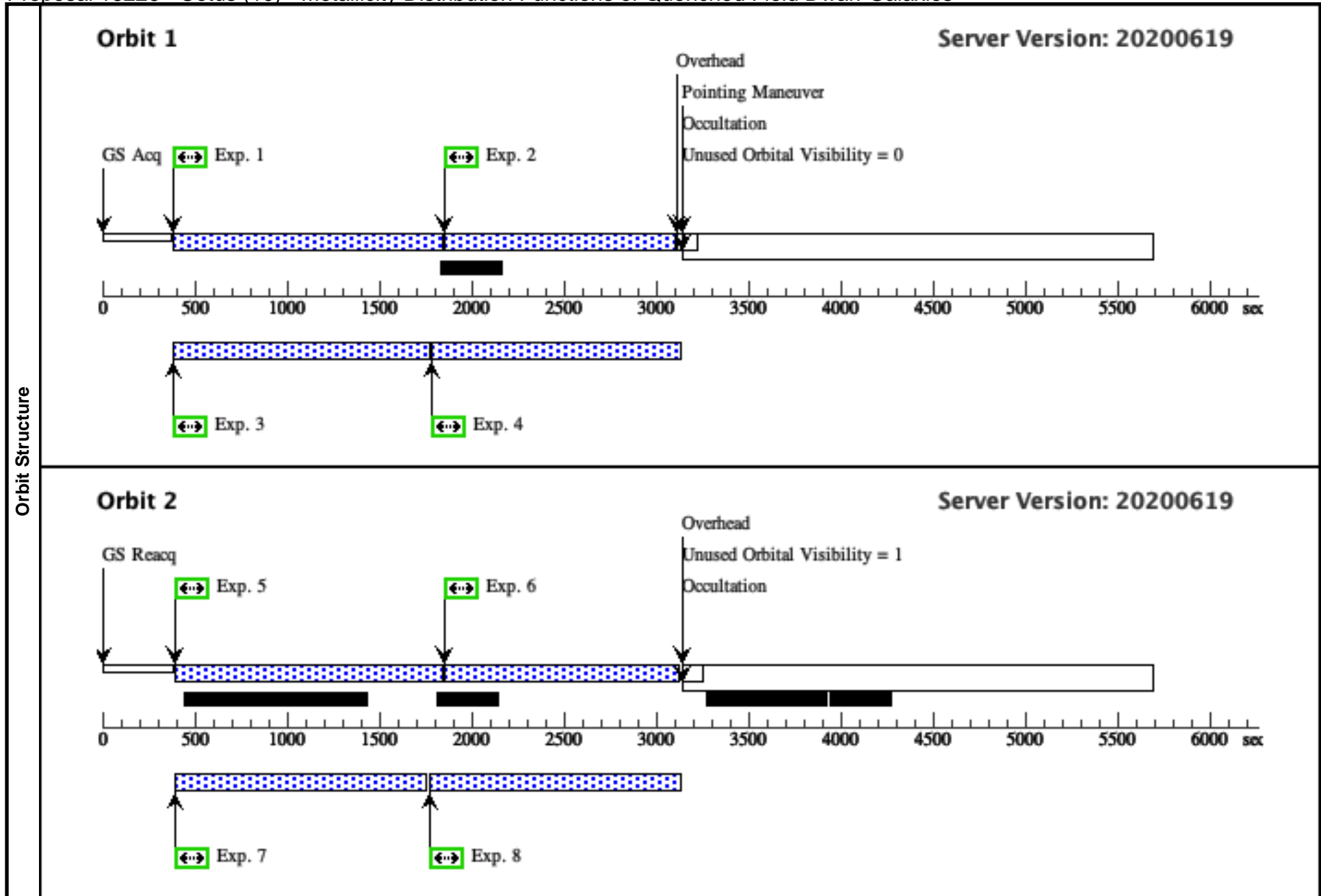
<b>Visit</b>	<b>Proposal 16226, Cetus (09), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 07 <i>Comments: The visits after the first visit to Cetus will require the same orientation as the first visit. Similarly to the first visit, each visit will consist of two orbits. We will take two exposures in F395N per orbit (no CR-splits) with WFC3/UVIS. The coordinated parallel exposures are taken with ACS/WFC, and each orbit is divided into one F475W and one F814W exposure (no CR-splits).</i>																	
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	2	(2) CETUS-DWARF-GALAXY	(2) CETUS-DWARF-GALAXY	WFC3/UVIS, ACCUM, UVIS	F395N	FLASH=20; CR-SPLIT=NO	SAME POS AS 1	Prime + Parallel Group 1-4 in Cetus (09)	1250 Secs (1250 Secs) [==>]	[1]								
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Proposal 16226 - Cetus (10) - Metallicity Distribution Functions of Quenched Field Dwarf Galaxies

Mon Sep 28 15:01:40 GMT 2020

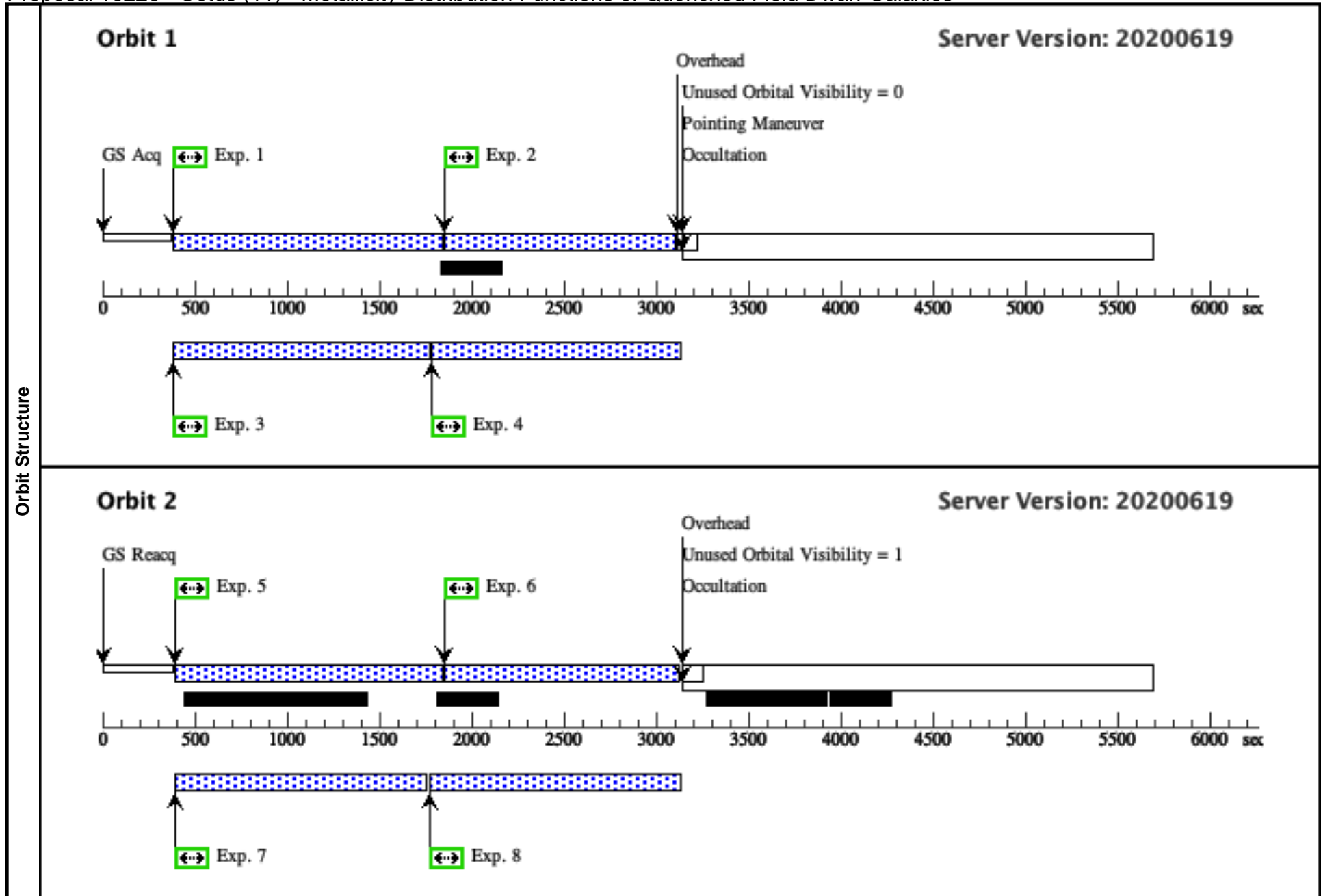
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	5	(2) CETUS-DWARF-GALAXY	(2) CETUS-DWARF-GALAXY	WFC3/UVIS, ACCUM, UVIS	F395N	FLASH=20; CR-SPLIT=NO	POS TARG 0.159,0.259	Prime + Parallel Group 5-8 in Cetus (10)	1300 Secs (1326 Secs) [==>1326.0 Secs ]	[2]																																																																																										
	6	(2) CETUS-DWARF-GALAXY	(2) CETUS-DWARF-GALAXY	WFC3/UVIS, ACCUM, UVIS	F395N	FLASH=20; CR-SPLIT=NO	SAME POS AS 5	Prime + Parallel Group 5-8 in Cetus (10)	1250 Secs (1276 Secs) [==>1276.0 Secs ]	[2]																																																																																										
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Proposal 16226 - Cetus (11) - Metallicity Distribution Functions of Quenched Field Dwarf Galaxies

Mon Sep 28 15:01:40 GMT 2020

<b>Visit</b>	<b>Proposal 16226, Cetus (11), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 07 <i>Comments: The visits after the first visit to Cetus will require the same orientation as the first visit. Similarly to the first visit, each visit will consist of two orbits. We will take two exposures in F395N per orbit (no CR-splits) with WFC3/UVIS. The coordinated parallel exposures are taken with ACS/WFC, and each orbit is divided into one F475W and one F814W exposure (no CR-splits).</i>																																																																																																			
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Proposal 16226 - Cetus (12) - Metallicity Distribution Functions of Quenched Field Dwarf Galaxies

Mon Sep 28 15:01:40 GMT 2020

<b>Visit</b>	<b>Proposal 16226, Cetus (12), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 07 <i>Comments: The visits after the first visit to Cetus will require the same orientation as the first visit. In the final visit to Cetus, we require only one orbit for a total of 11 orbits for this galaxy in this proposal. We will take two exposures in F395N per orbit (no CR-splits) with WFC3/UVIS. The coordinated parallel exposures are taken with ACS/WFC, and each orbit is divided into one F475W and one F814W exposure (no CR-splits).</i>																																																											
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