



## 12425 - COS FUV Internal/External Wavelength Scale Monitor

Cycle: 18, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Dr. Cristina Oliveira (PI)</b>	<b>Space Telescope Science Institute</b>	<b>oliveira@stsci.edu</b>

### 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) SK191	COS/FUV	1	20-Oct-2010 21:36:40.0	yes
02	(1) SK191	COS/FUV	1	20-Oct-2010 21:36:50.0	yes
03	(1) SK191	COS/FUV	1	20-Oct-2010 21:37:01.0	yes
04	(2) CL-NGC-330-ELS-4	COS/FUV	1	20-Oct-2010 21:37:08.0	yes
05	(2) CL-NGC-330-ELS-4	COS/FUV	1	20-Oct-2010 21:37:14.0	yes
06	(2) CL-NGC-330-ELS-4	COS/FUV	1	20-Oct-2010 21:37:19.0	yes

6 Total Orbits Used

### ABSTRACT

This program monitors the offset between the internal and external wavelength scales: this offset is referred to as "DELTA" in the wavelength dispersion reference file and corrects for the shift between the WCA and PSA in TV03 versus the shift between the WCA and PSA in orbit :  $(WCA-PSA\_)\_TV03 - (WCA - PSA)\_orbit$ . Analysis of TV data indicates that this DELTA (offset) is cenwave and FPPOS independent for a particular grating, but it is grating and stripe dependent. To verify and monitor this, this program observes some cenwaves at different FPPOS.

## **OBSERVING DESCRIPTION**

This program monitors the offset between the internal and external wavelength scales: this offset is referred to as "DELTA" in the wavelength dispersion reference file and corrects for the shift between the WCA and PSA in TV03 versus the shift between the WCA and PSA in orbit :  $(WCA-PSA\_)\_TV03 - (WCA - PSA)\_orbit$ . Analysis of TV data indicates that this DELTA (offset) is cenwave and FPPOS independent for a particular grating, but it is grating and stripe dependent. To verify and monitor this, this program observes some cenwaves at different FPPOS.

3 visits with G130M + G160M, using SK 191, each visit to execute every 4 months.

3 visits with G140L using NGC330-B37, each visit executing every 4 months.

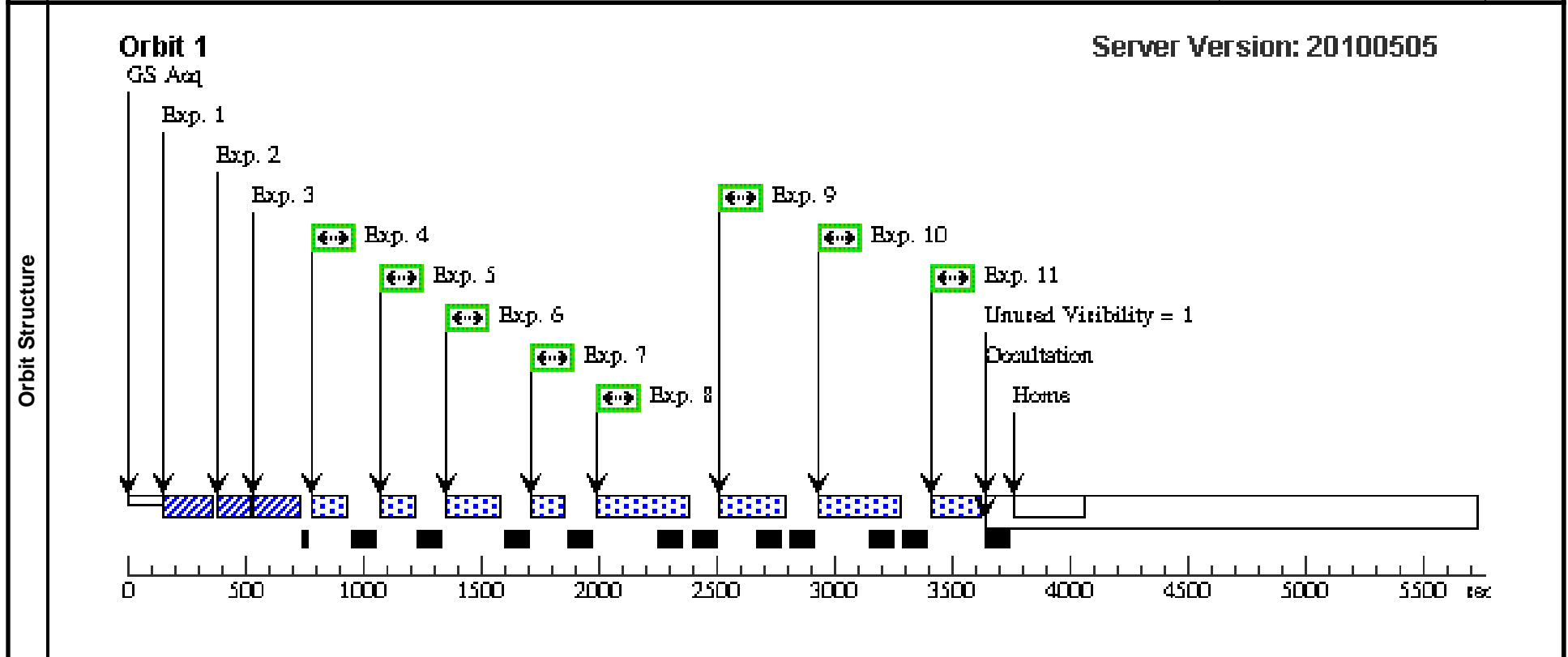
<b>Visit</b>	<b>Proposal 12425, Visit 01</b> <span style="float: right;">Thu Oct 21 01:37:23 GMT 2010</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: BETWEEN 01-JAN-2011:00:00:00 AND 01-FEB-2011:00:00:00																	
	<b>Diagnosics</b> (Visit 01) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS. (Visit 01) Warning (Form): COS ACQ/PEAKXD exposure should be preceded by an ACQ/SEARCH exposure in the Visit.																	
<b>Fixed Targets</b>	<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>SK191</td> <td>RA: 01 41 42.0723 (25.4253012d) Dec: -73 50 38.20 (-73.84394d) Equinox: J2000</td> <td>Proper Motion RA: 7.642883213128048E-4s/yr Proper Motion Dec: -0.0029"/yr Epoch of Position: 1991.25</td> <td>V=11.84</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	SK191	RA: 01 41 42.0723 (25.4253012d) Dec: -73 50 38.20 (-73.84394d) Equinox: J2000	Proper Motion RA: 7.642883213128048E-4s/yr Proper Motion Dec: -0.0029"/yr Epoch of Position: 1991.25	V=11.84	Reference Frame: ICRS
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(1)	SK191	RA: 01 41 42.0723 (25.4253012d) Dec: -73 50 38.20 (-73.84394d) Equinox: J2000	Proper Motion RA: 7.642883213128048E-4s/yr Proper Motion Dec: -0.0029"/yr Epoch of Position: 1991.25	V=11.84	Reference Frame: ICRS													
Comments: This object was generated by the target selector and retrieved from the SIMBAD database.																		

Proposal 12425 (STScI Edit Number: 2, Created: Wednesday, October 20, 2010 8:37:23 PM EST) - Overview

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) SK191	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				2 Secs [==>]	[1]
2		(1) SK191	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				2 Secs [==>]	[1]
3		(1) SK191	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5; STEP-SIZE=1.0			2 Secs [==>]	[1]
4		(1) SK191	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 0; FP-POS=3			100 Secs [==>]	[1]
<p>Comments: Using spectrum derived from STIS data for this target                      COS.A362630                      Brightest Pixel (1215.65 Å) 0.189                      Count rate entire detector 13,355.821                      Count rate segment A 8,373.917                      Count rate segment B 4,981.904                      Buffer time (sec) 176</p>									
5		(1) SK191	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 0; FP-POS=4			100 Secs [==>]	[1]
6		(1) SK191	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=10 8; FP-POS=3			108 Secs [==>]	[1]
<p>Comments: COS.A362641                      Brightest Pixel (1215.65 Å) 0.190                      Count rate entire detector 14,318.587                      Count rate segment A 8,188.685                      Count rate segment B 6,129.902                      Buffer time (sec) 164</p>									
7		(1) SK191	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=90; FP-POS=4			90 Secs [==>]	[1]
8		(1) SK191	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 0; FP-POS=3			230 Secs [==>]	[1]
<p>Comments: Using spectrum derived from STIS data for this target                      COS.A362632                      Brightest Pixel (1412.45 Å) 0.126                      Count rate entire detector 10,755.794                      Count rate segment A 3,050.377                      Count rate segment B 7,705.417                      Buffer time (sec) 219</p>									
9		(1) SK191	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 0; FP-POS=4			230 Secs [==>]	[1]
10		(1) SK191	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=12 0; FP-POS=3			230 Secs [==>]	[1]
<p>Comments: Using spectrum derived from STIS data for this target                      COS.A362640                      Brightest Pixel (1440.90 Å) 0.123                      Count rate entire detector 9,790.270                      Count rate segment A 2,874.857                      Count rate segment B 6,915.413                      Buffer time (sec) 240</p>									

Exposures

11	(1) SK191	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=16 0; FP-POS=4	160 Secs [==>]	[1]
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# Proposal 12425 - Visit 01 - COS FUV Internal/External Wavelength Scale Monitor

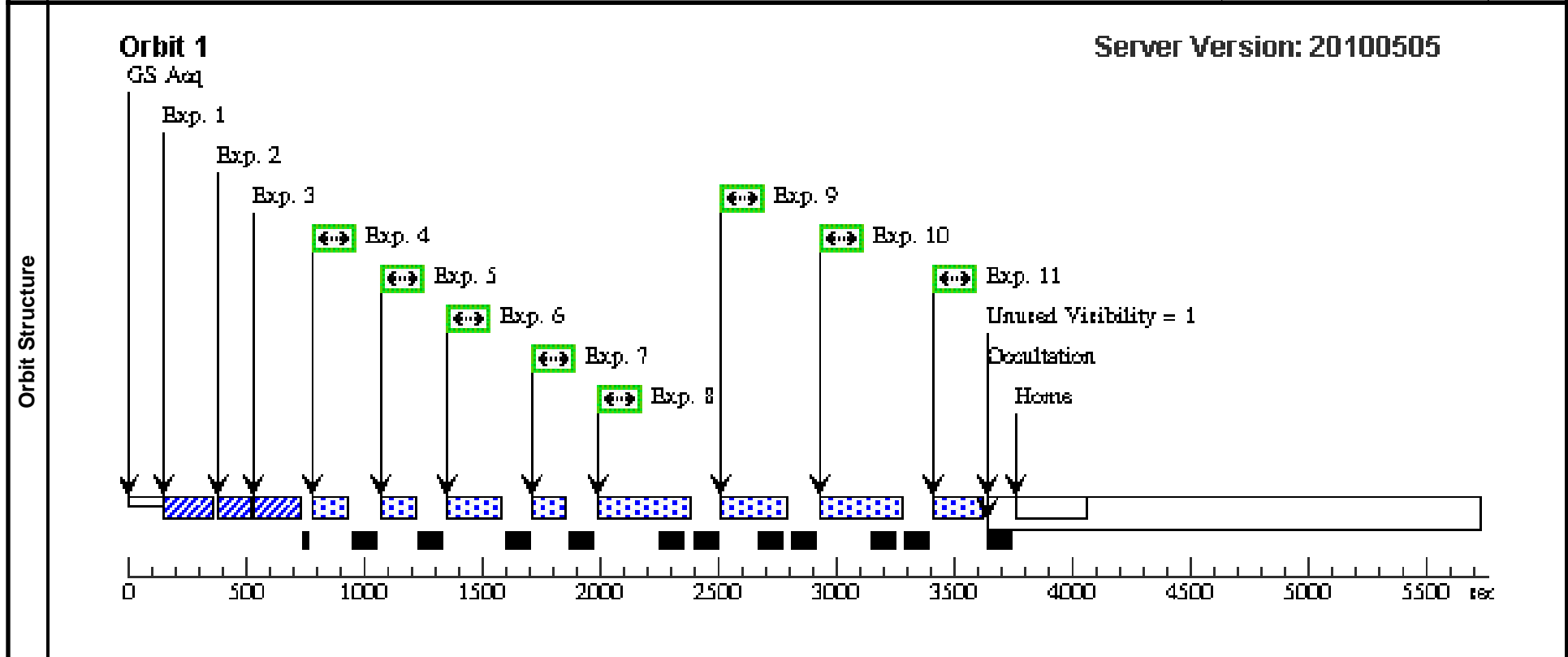
<b>Visit</b>	<b>Proposal 12425, Visit 02</b> <span style="float: right;">Thu Oct 21 01:37:24 GMT 2010</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: BETWEEN 01-MAY-2011:00:00:00 AND 01-JUN-2011:00:00:00																	
	<b>Diagnosics</b> (Visit 02) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS. (Visit 02) Warning (Form): COS ACQ/PEAKXD exposure should be preceded by an ACQ/SEARCH exposure in the Visit.																	
<b>Fixed Targets</b>	<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>SK191</td> <td>RA: 01 41 42.0723 (25.4253012d) Dec: -73 50 38.20 (-73.84394d) Equinox: J2000</td> <td>Proper Motion RA: 7.642883213128048E-4s/yr Proper Motion Dec: -0.0029"/yr Epoch of Position: 1991.25</td> <td>V=11.84</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	SK191	RA: 01 41 42.0723 (25.4253012d) Dec: -73 50 38.20 (-73.84394d) Equinox: J2000	Proper Motion RA: 7.642883213128048E-4s/yr Proper Motion Dec: -0.0029"/yr Epoch of Position: 1991.25	V=11.84	Reference Frame: ICRS
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Proposal 12425 - Visit 01 - COS FUV Internal/External Wavelength Scale Monitor

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1		(1) SK191	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				2 Secs [==>]	[1]
2		(1) SK191	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				2 Secs [==>]	[1]
3		(1) SK191	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5; STEP-SIZE=1.0			2 Secs [==>]	[1]
4		(1) SK191	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 0; FP-POS=3			100 Secs [==>]	[1]
<p>Comments: Using spectrum derived from STIS data for this target            COS.A362630            Brightest Pixel (1215.65 Å) 0.189            Count rate entire detector 13,355.821            Count rate segment A 8,373.917            Count rate segment B 4,981.904            Buffer time (sec) 176</p>									
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6		(1) SK191	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=10 8; FP-POS=3			108 Secs [==>]	[1]
<p>Comments: COS.A362641            Brightest Pixel (1215.65 Å) 0.190            Count rate entire detector 14,318.587            Count rate segment A 8,188.685            Count rate segment B 6,129.902            Buffer time (sec) 164</p>									
7		(1) SK191	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=90; FP-POS=4			90 Secs [==>]	[1]
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Exposures

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Proposal 12425 - Visit 02 - COS FUV Internal/External Wavelength Scale Monitor

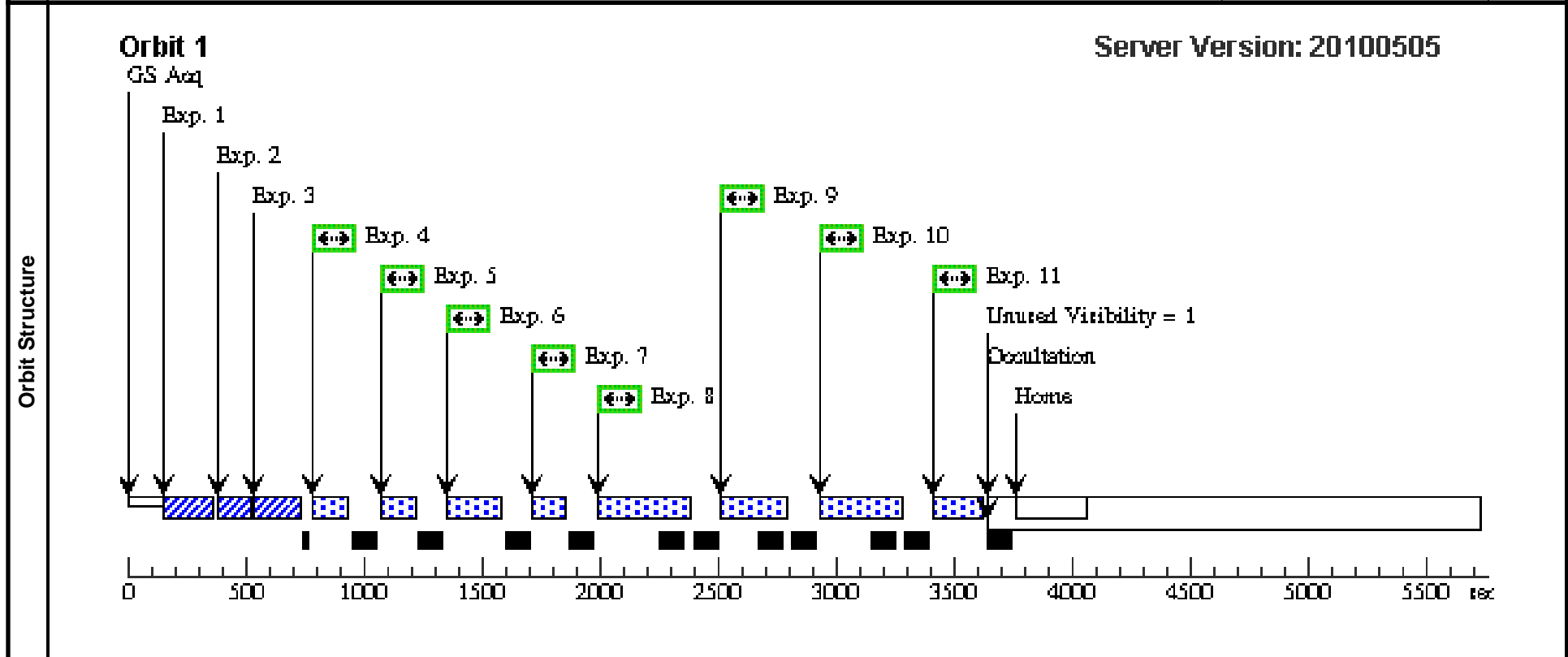
<b>Visit</b>	<p><b>Proposal 12425, Visit 03</b> <span style="float: right;">Thu Oct 21 01:37:25 GMT 2010</span></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV</p> <p>Special Requirements: BETWEEN 15-AUG-2011:00:00:00 AND 01-OCT-2011:00:00:00</p>																	
	<p>(Visit 03) Warning (Form): COS ACQ/PEAKXD exposure should be preceded by an ACQ/SEARCH exposure in the Visit.</p> <p>(Visit 03) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.</p>																	
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(1)	SK191	RA: 01 41 42.0723 (25.4253012d) Dec: -73 50 38.20 (-73.84394d) Equinox: J2000	Proper Motion RA: 7.642883213128048E-4s/yr Proper Motion Dec: -0.0029"/yr Epoch of Position: 1991.25	V=11.84	Reference Frame: ICRS													
<p><i>Comments: This object was generated by the target selector and retrieved from the SIMBAD database.</i></p>																		

Proposal 12425 - Visit 02 - COS FUV Internal/External Wavelength Scale Monitor

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) SK191	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				2 Secs [==>]	[1]
2		(1) SK191	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				2 Secs [==>]	[1]
3		(1) SK191	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5; STEP-SIZE=1.0			2 Secs [==>]	[1]
4		(1) SK191	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 0; FP-POS=3			100 Secs [==>]	[1]
<p>Comments: Using spectrum derived from STIS data for this target            COS.A362630            Brightest Pixel (1215.65 Å) 0.189            Count rate entire detector 13,355.821                Count rate segment A 8,373.917                Count rate segment B 4,981.904            Buffer time (sec) 176</p>									
5		(1) SK191	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=10 0; FP-POS=4			100 Secs [==>]	[1]
6		(1) SK191	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=10 8; FP-POS=3			108 Secs [==>]	[1]
<p>Comments: COS.A362641            Brightest Pixel (1215.65 Å) 0.190            Count rate entire detector 14,318.587                Count rate segment A 8,188.685                Count rate segment B 6,129.902            Buffer time (sec) 164</p>									
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<p>Comments: Using spectrum derived from STIS data for this target            COS.A362632            Brightest Pixel (1412.45 Å) 0.126            Count rate entire detector 10,755.794                Count rate segment A 3,050.377                Count rate segment B 7,705.417            Buffer time (sec) 219</p>									
9		(1) SK191	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 0; FP-POS=4			230 Secs [==>]	[1]
10		(1) SK191	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=12 0; FP-POS=3			230 Secs [==>]	[1]
<p>Comments: Using spectrum derived from STIS data for this target            COS.A362640            Brightest Pixel (1440.90 Å) 0.123            Count rate entire detector 9,790.270                Count rate segment A 2,874.857                Count rate segment B 6,915.413            Buffer time (sec) 240</p>									

Exposures

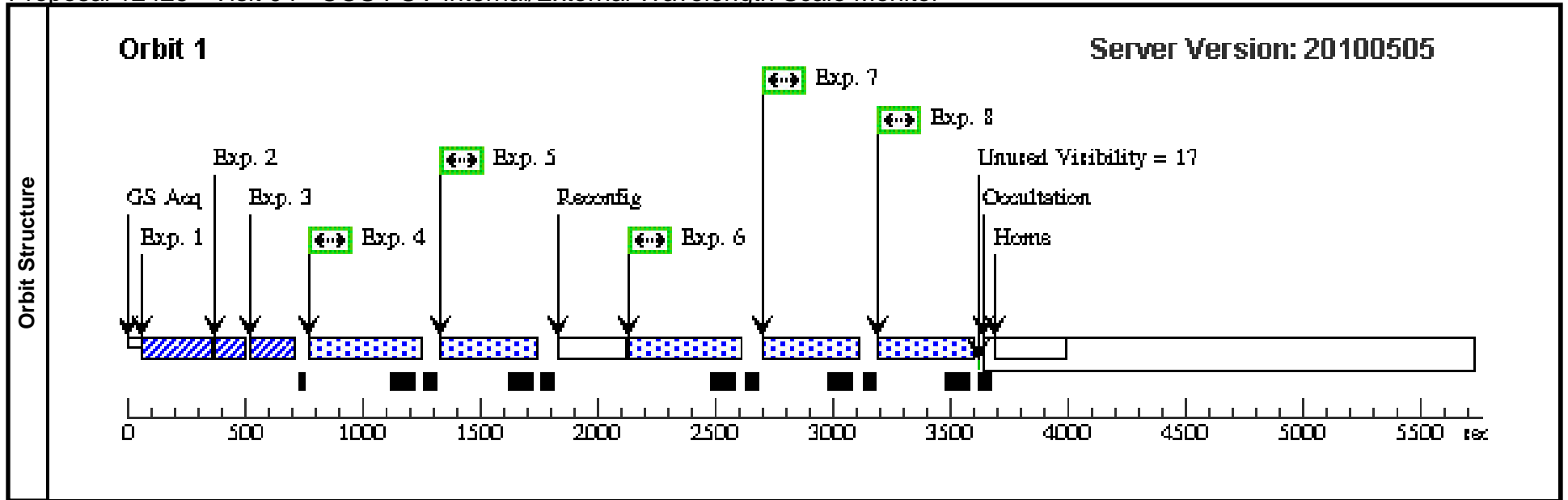
11	(1) SK191	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=16 0; FP-POS=4	160 Secs [==>]	[1]
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Proposal 12425 - Visit 03 - COS FUV Internal/External Wavelength Scale Monitor

Thu Oct 21 01:37:26 GMT 2010

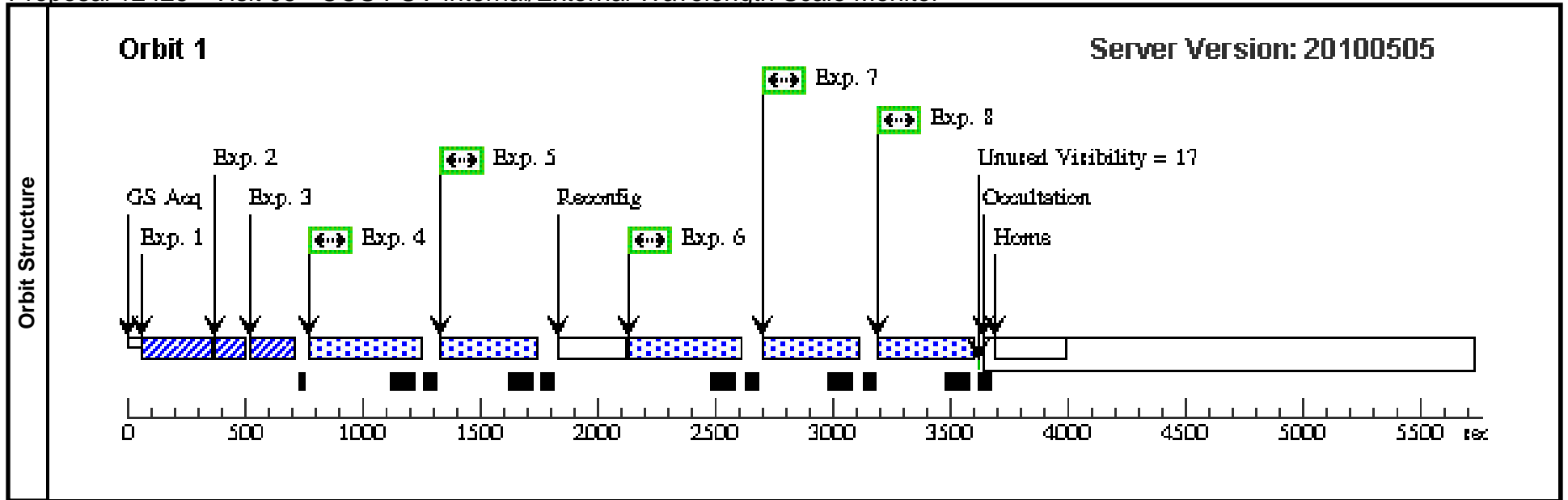
<b>Visit</b>	<b>Proposal 12425, Visit 04</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: BETWEEN 01-JAN-2011:00:00:00 AND 01-FEB-2011:00:00:00										
	(Visit 04) Warning (Form): COS ACQ/PEAKXD exposure should be preceded by an ACQ/SEARCH exposure in the Visit. (Visit 04) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.										
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(2)	CL-NGC-330-ELS-4	RA: 00 56 20.7900 (14.0866250d) Dec: -72 28 33.80 (-72.47606d) Equinox: J2000	Proper Motion RA: -0.00106s/yr Proper Motion Dec: 0.0015"/yr Epoch of Position: 2000	V=13.33	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(2) CL-NGC-330-EL S-4	COS/FUV, ACQ/PEAKXD, PSA	G140L 1280 A				1 Secs [==>]	[1]	
	2		(2) CL-NGC-330-EL S-4	COS/FUV, ACQ/PEAKXD, PSA	G140L 1280 A				1 Secs [==>]	[1]	
	3		(2) CL-NGC-330-EL S-4	COS/FUV, ACQ/PEAKD, PSA	G140L 1280 A	NUM-POS=5; STEP-SIZE=1.0			1 Secs [==>]	[1]	
	4		(2) CL-NGC-330-EL S-4	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=25 0; FP-POS=1			360 Secs [==>]	[1]	
	<i>Comments: COS.A362657                      Brightest Pixel (1271.56 Å) 0.228                      Count rate entire detector 4,066.281                      Count rate segment A 4,028.472                      Count rate segment B 37.808                      Buffer time (sec) 580</i>										
	5		(2) CL-NGC-330-EL S-4	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=25 0; FP-POS=3			360 Secs [==>]	[1]	
	6		(2) CL-NGC-330-EL S-4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=25 0; FP-POS=1			360 Secs [==>]	[1]	
	<i>Comments: COS.A362662                      Brightest Pixel (1271.55 Å) 0.228                      Count rate entire detector 4,187.960                      Count rate segment A 4,187.960                      Count rate segment B (not calculated)                      Buffer time (sec) 563</i>										
	7		(2) CL-NGC-330-EL S-4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=25 0; FP-POS=3			360 Secs [==>]	[1]	
8		(2) CL-NGC-330-EL S-4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=25 0; FP-POS=4			360 Secs [==>]	[1]		



Proposal 12425 - Visit 04 - COS FUV Internal/External Wavelength Scale Monitor

Thu Oct 21 01:37:27 GMT 2010

<b>Visit</b>	<b>Proposal 12425, Visit 05</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: BETWEEN 01-MAY-2011:00:00:00 AND 01-JUN-2011:00:00:00										
	(Visit 05) Warning (Form): COS ACQ/PEAKXD exposure should be preceded by an ACQ/SEARCH exposure in the Visit. (Visit 05) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS.										
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(2)	CL-NGC-330-ELS-4	RA: 00 56 20.7900 (14.0866250d) Dec: -72 28 33.80 (-72.47606d) Equinox: J2000	Proper Motion RA: -0.00106s/yr Proper Motion Dec: 0.0015"/yr Epoch of Position: 2000	V=13.33	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	(2) CL-NGC-330-EL S-4	COS/FUV, ACQ/PEAKXD, PSA	G140L 1280 A					1 Secs [==>]	[1]	
	2	(2) CL-NGC-330-EL S-4	COS/FUV, ACQ/PEAKXD, PSA	G140L 1280 A					1 Secs [==>]	[1]	
	3	(2) CL-NGC-330-EL S-4	COS/FUV, ACQ/PEAKD, PSA	G140L 1280 A	NUM-POS=5; STEP-SIZE=1.0				1 Secs [==>]	[1]	
	4	(2) CL-NGC-330-EL S-4	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=25 0; FP-POS=1				360 Secs [==>]	[1]	
	<i>Comments: COS.A362657                      Brightest Pixel (1271.56 Å) 0.228                      Count rate entire detector 4,066.281                      Count rate segment A 4,028.472                      Count rate segment B 37.808                      Buffer time (sec) 580</i>										
	5	(2) CL-NGC-330-EL S-4	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=25 0; FP-POS=3				360 Secs [==>]	[1]	
	6	(2) CL-NGC-330-EL S-4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=25 0; FP-POS=1				360 Secs [==>]	[1]	
	<i>Comments: COS.A362662                      Brightest Pixel (1271.55 Å) 0.228                      Count rate entire detector 4,187.960                      Count rate segment A 4,187.960                      Count rate segment B (not calculated)                      Buffer time (sec) 563</i>										
	7	(2) CL-NGC-330-EL S-4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=25 0; FP-POS=3				360 Secs [==>]	[1]	
8	(2) CL-NGC-330-EL S-4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=25 0; FP-POS=4				360 Secs [==>]	[1]		



Proposal 12425 - Visit 05 - COS FUV Internal/External Wavelength Scale Monitor

Thu Oct 21 01:37:27 GMT 2010

<b>Visit</b>	<b>Proposal 12425, Visit 06</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV Special Requirements: BETWEEN 20-AUG-2011:00:00:00 AND 01-OCT-2011:00:00:00										
	(Visit 06) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronagraphy with STIS or COS. (Visit 06) Warning (Form): COS ACQ/PEAKXD exposure should be preceded by an ACQ/SEARCH exposure in the Visit.										
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(2)	CL-NGC-330-ELS-4	RA: 00 56 20.7900 (14.0866250d) Dec: -72 28 33.80 (-72.47606d) Equinox: J2000	Proper Motion RA: -0.00106s/yr Proper Motion Dec: 0.0015"/yr Epoch of Position: 2000	V=13.33	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	(2) CL-NGC-330-EL S-4	COS/FUV, ACQ/PEAKXD, PSA	G140L 1280 A					1 Secs [==>]	[1]	
	2	(2) CL-NGC-330-EL S-4	COS/FUV, ACQ/PEAKXD, PSA	G140L 1280 A					1 Secs [==>]	[1]	
	3	(2) CL-NGC-330-EL S-4	COS/FUV, ACQ/PEAKD, PSA	G140L 1280 A	NUM-POS=5; STEP-SIZE=1.0				1 Secs [==>]	[1]	
	4	(2) CL-NGC-330-EL S-4	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=25 0; FP-POS=1				360 Secs [==>]	[1]	
	<i>Comments: COS.A362657                      Brightest Pixel (1271.56 Å) 0.228                      Count rate entire detector 4,066.281                      Count rate segment A 4,028.472                      Count rate segment B 37.808                      Buffer time (sec) 580</i>										
	5	(2) CL-NGC-330-EL S-4	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=25 0; FP-POS=3				360 Secs [==>]	[1]	
	6	(2) CL-NGC-330-EL S-4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=25 0; FP-POS=1				360 Secs [==>]	[1]	
	<i>Comments: COS.A362662                      Brightest Pixel (1271.55 Å) 0.228                      Count rate entire detector 4,187.960                      Count rate segment A 4,187.960                      Count rate segment B (not calculated)                      Buffer time (sec) 563</i>										
	7	(2) CL-NGC-330-EL S-4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=25 0; FP-POS=3				360 Secs [==>]	[1]	
8	(2) CL-NGC-330-EL S-4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=25 0; FP-POS=4				360 Secs [==>]	[1]		



