



13125 - NUV Spectroscopic Sensitivity Monitoring

Cycle: 20, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Ms. Azalee K. Bostroem (PI) (Contact)	Space Telescope Science Institute	bostroem@stsci.edu
Dr. Rachel A. Osten (CoI)	Space Telescope Science Institute	osten@stsci.edu
Dr. Charles R. Proffitt (CoI)	Computer Sciences Corporation	proffitt@stsci.edu

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>
L1	(1) WD1057+719	COS/NUV	1	11-Jul-2013 12:04:47.0	yes
L2	(1) WD1057+719	COS/NUV	1	11-Jul-2013 12:04:56.0	yes
L4	(1) WD1057+719	COS/NUV	1	11-Jul-2013 12:05:04.0	yes
L3	(1) WD1057+719	COS/NUV	1	11-Jul-2013 12:05:12.0	yes
M1	(2) G191B2B	COS/NUV	1	11-Jul-2013 12:05:21.0	yes
M2	(2) G191B2B	COS/NUV	1	11-Jul-2013 12:05:31.0	yes
M4	(2) G191B2B	COS/NUV	1	11-Jul-2013 12:05:41.0	yes
M3	(2) G191B2B	COS/NUV	1	11-Jul-2013 12:05:51.0	yes

8 Total Orbits Used

ABSTRACT

Purpose is to monitor sensitivity of each NUV grating mode to detect any change due to contamination or other causes. The same basic strategy as employed in previous cycles is used here, with a few notable exceptions: Two cenwaves of G225M have been dropped (2306 and 2410), and only

Proposal 13125 (STScI Edit Number: 4, Created: Thursday, July 11, 2013 11:06:00 AM EST) - Overview

the bluest one retained. One cenwave of G285M has been dropped (2739), and the bluest and reddest have been retained. This is to continue to monitor the wavelength dependence of the G285M sensitivity decline, and monitor the wavelength dependence of the G225M sensitivity decline, which only appears at the shortest wavelengths (stripe A of the 2186 cenwave). These two gratings are also not used for science exposures in Cycle 19. The G185M grating has the most usage of the NUV gratings, and an additional cenwave is added to ensure the wavelength independence of the sensitivity degradation. For the G230L, the 3360 cenwave is dropped due to the contamination in both stripes B and C from second order light, which does not stretch the wavelength coverage very red compared to the other G230L cenwaves, and this cenwave is costly in terms of exposure time. The exposure time of the G230L/2950 setting was also reduced, since it was apparently overflowing its buffer.

OBSERVING DESCRIPTION

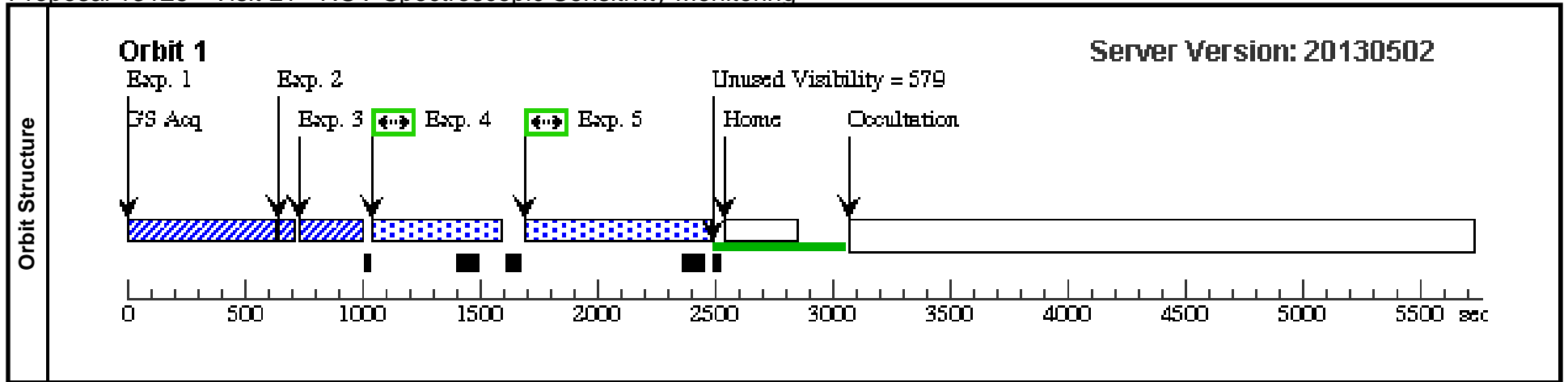
Obtain exposures in all NUV gratings -- G230L, G185M, G225M, and G285M -- 3 times a year. The first two gratings have stable behavior, while the last two are experiencing steady sensitivity declines.

However, they are rarely used in Cycle 19 so quarterly observations will suffice to monitor the trends.

Proposal 13125 - Visit L1 - NUV Spectroscopic Sensitivity Monitoring

Thu Jul 11 16:06:00 GMT 2013

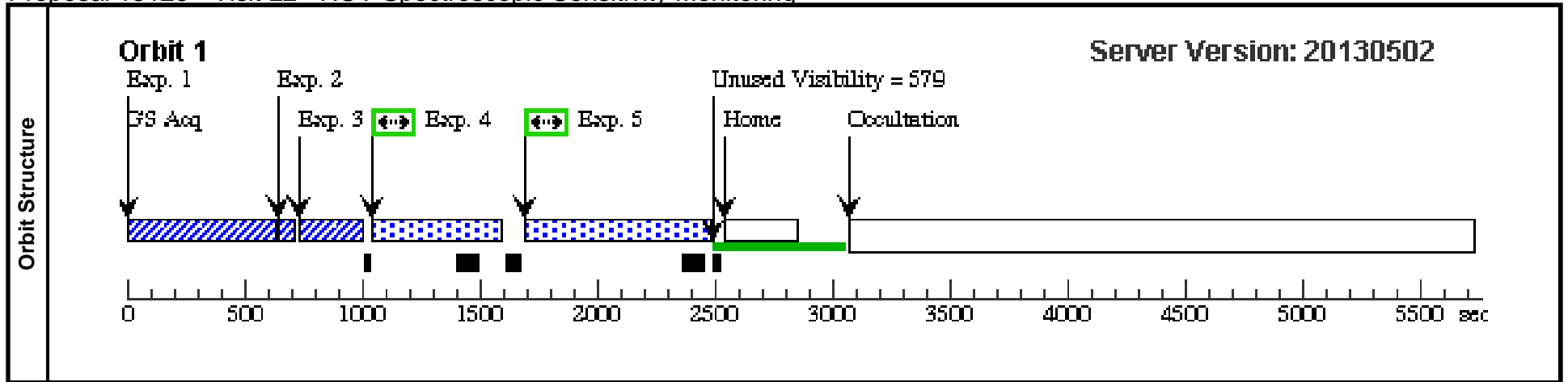
Visit	Proposal 13125, Visit L1, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV Special Requirements: SCHED 100%; BETWEEN 09-DEC-2012:00:00:00 AND 16-DEC-2012:00:00:00																																																																					
Diagnostics	(Visit L1) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.																																																																					
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Proposal 13125 - Visit L2 - NUV Spectroscopic Sensitivity Monitoring

Thu Jul 11 16:06:02 GMT 2013

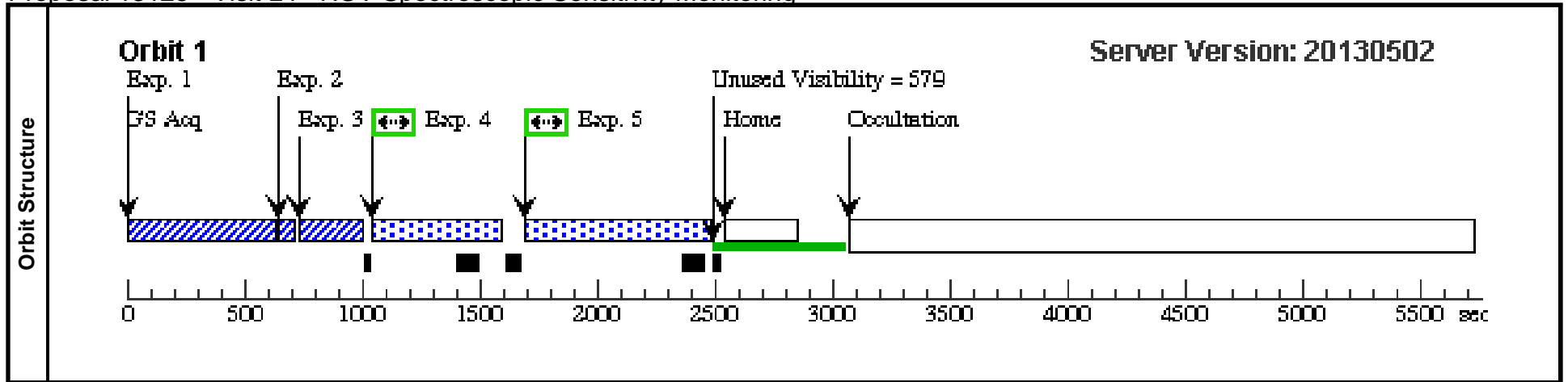
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Diagnostics	(Visit L2) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS				
	<i>Comments: HST FASTEX standard PM, coords from USNOB</i> <i>GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch</i>									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
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Proposal 13125 - Visit L4 - NUV Spectroscopic Sensitivity Monitoring

Thu Jul 11 16:06:03 GMT 2013

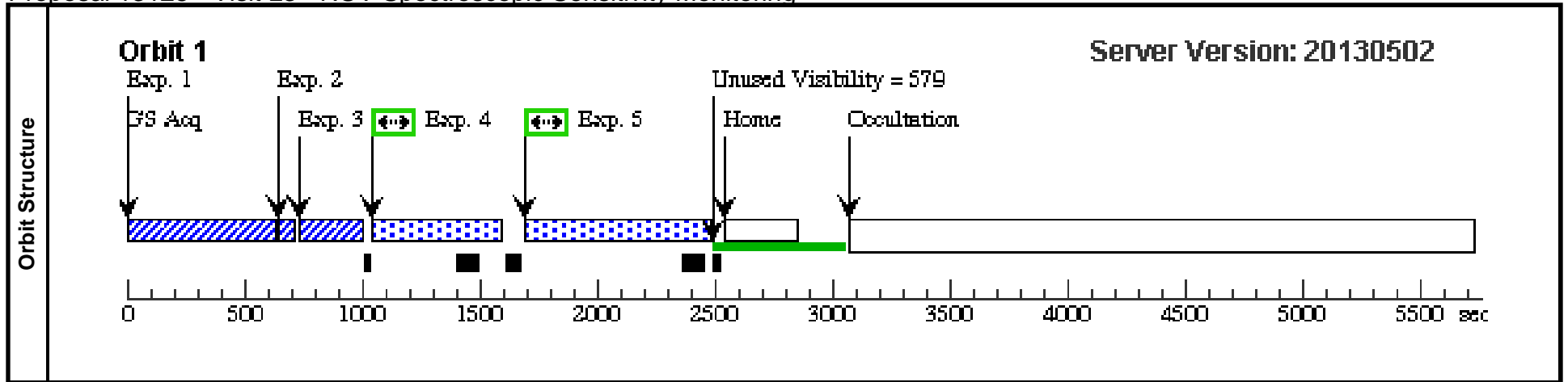
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Diagnostics	(Visit L4) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.																																																																					
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Proposal 13125 - Visit L3 - NUV Spectroscopic Sensitivity Monitoring

Thu Jul 11 16:06:04 GMT 2013

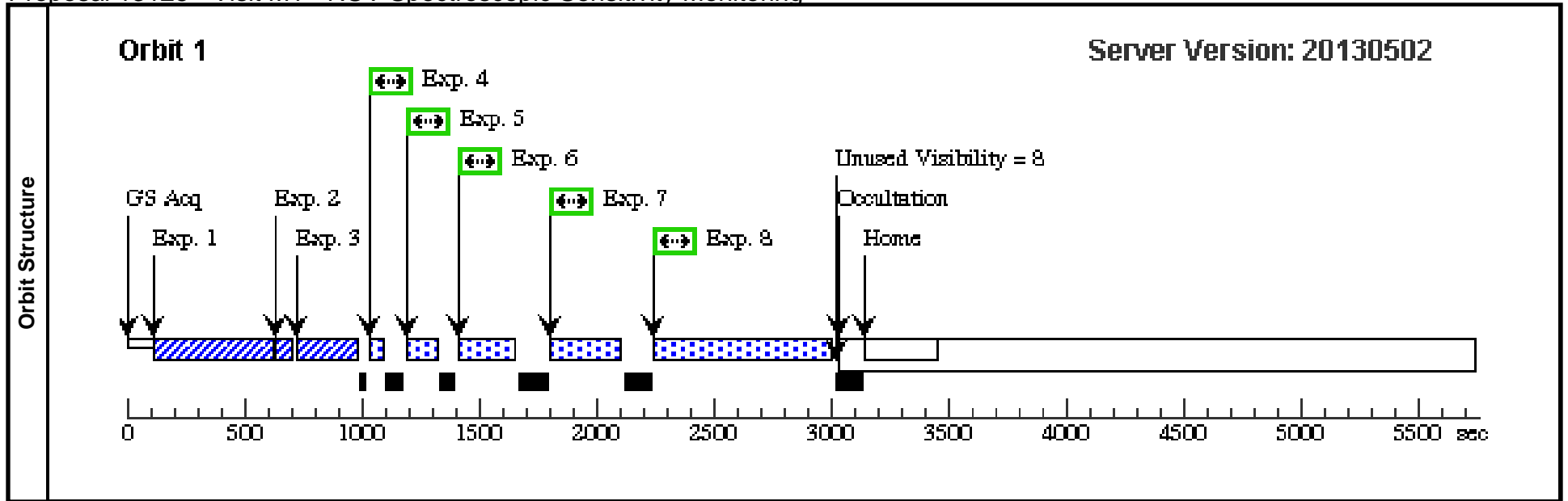
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(1)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000.0	V=14.68	Reference Frame: ICRS																																																																	
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</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>G230L - AC Q/SEARCH (COS.sa.429 215)</td> <td>(1) WD1057+719</td> <td>COS/NUV, ACQ/SEARCH, PSA</td> <td>G230L 2635 A</td> <td>SCAN-SIZE=3; STEP-SIZE=1.767</td> <td></td> <td></td> <td>0.7 Secs (0.7 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>G230L - AC Q/PEAKXD (COS.sa.429 216)</td> <td>(1) WD1057+719</td> <td>COS/NUV, ACQ/PEAKXD, PSA</td> <td>G230L 2635 A</td> <td></td> <td></td> <td></td> <td>1.0 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>G230L - AC Q/PEAKD (COS.sa.429 215)</td> <td>(1) WD1057+719</td> <td>COS/NUV, ACQ/PEAKD, PSA</td> <td>G230L 2635 A</td> <td>CENTER=FLUX-W T-FLR; NUM-POS=9.0; STEP-SIZE=1.</td> <td></td> <td></td> <td>0.7 Secs (0.7 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>G230L - 263 5 A (COS.sp.199 622)</td> <td>(1) WD1057+719</td> <td>COS/NUV, TIME-TAG, PSA</td> <td>G230L 2635 A</td> <td>BUFFER-TIME=36 0; FP-POS=3</td> <td></td> <td></td> <td>540.0 Secs (540 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>G230L - 295 0 A (COS.sp.199 623)</td> <td>(1) WD1057+719</td> <td>COS/NUV, TIME-TAG, PSA</td> <td>G230L 2950 A</td> <td>BUFFER-TIME=60 0; FP-POS=3</td> <td></td> <td></td> <td>700.0 Secs (700 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	G230L - AC Q/SEARCH (COS.sa.429 215)	(1) WD1057+719	COS/NUV, ACQ/SEARCH, PSA	G230L 2635 A	SCAN-SIZE=3; STEP-SIZE=1.767			0.7 Secs (0.7 Secs) [==>]	[1]	2	G230L - AC Q/PEAKXD (COS.sa.429 216)	(1) WD1057+719	COS/NUV, ACQ/PEAKXD, PSA	G230L 2635 A				1.0 Secs (1 Secs) [==>]	[1]	3	G230L - AC Q/PEAKD (COS.sa.429 215)	(1) WD1057+719	COS/NUV, ACQ/PEAKD, PSA	G230L 2635 A	CENTER=FLUX-W T-FLR; NUM-POS=9.0; STEP-SIZE=1.			0.7 Secs (0.7 Secs) [==>]	[1]	4	G230L - 263 5 A (COS.sp.199 622)	(1) WD1057+719	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=36 0; FP-POS=3			540.0 Secs (540 Secs) [==>]	[1]	5	G230L - 295 0 A (COS.sp.199 623)	(1) WD1057+719	COS/NUV, TIME-TAG, PSA	G230L 2950 A	BUFFER-TIME=60 0; FP-POS=3			700.0 Secs (700 Secs) [==>]	[1]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																													
1	G230L - AC Q/SEARCH (COS.sa.429 215)	(1) WD1057+719	COS/NUV, ACQ/SEARCH, PSA	G230L 2635 A	SCAN-SIZE=3; STEP-SIZE=1.767			0.7 Secs (0.7 Secs) [==>]	[1]																																																													
2	G230L - AC Q/PEAKXD (COS.sa.429 216)	(1) WD1057+719	COS/NUV, ACQ/PEAKXD, PSA	G230L 2635 A				1.0 Secs (1 Secs) [==>]	[1]																																																													
3	G230L - AC Q/PEAKD (COS.sa.429 215)	(1) WD1057+719	COS/NUV, ACQ/PEAKD, PSA	G230L 2635 A	CENTER=FLUX-W T-FLR; NUM-POS=9.0; STEP-SIZE=1.			0.7 Secs (0.7 Secs) [==>]	[1]																																																													
4	G230L - 263 5 A (COS.sp.199 622)	(1) WD1057+719	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=36 0; FP-POS=3			540.0 Secs (540 Secs) [==>]	[1]																																																													
5	G230L - 295 0 A (COS.sp.199 623)	(1) WD1057+719	COS/NUV, TIME-TAG, PSA	G230L 2950 A	BUFFER-TIME=60 0; FP-POS=3			700.0 Secs (700 Secs) [==>]	[1]																																																													



Proposal 13125 - Visit M1 - NUV Spectroscopic Sensitivity Monitoring

Thu Jul 11 16:06:05 GMT 2013

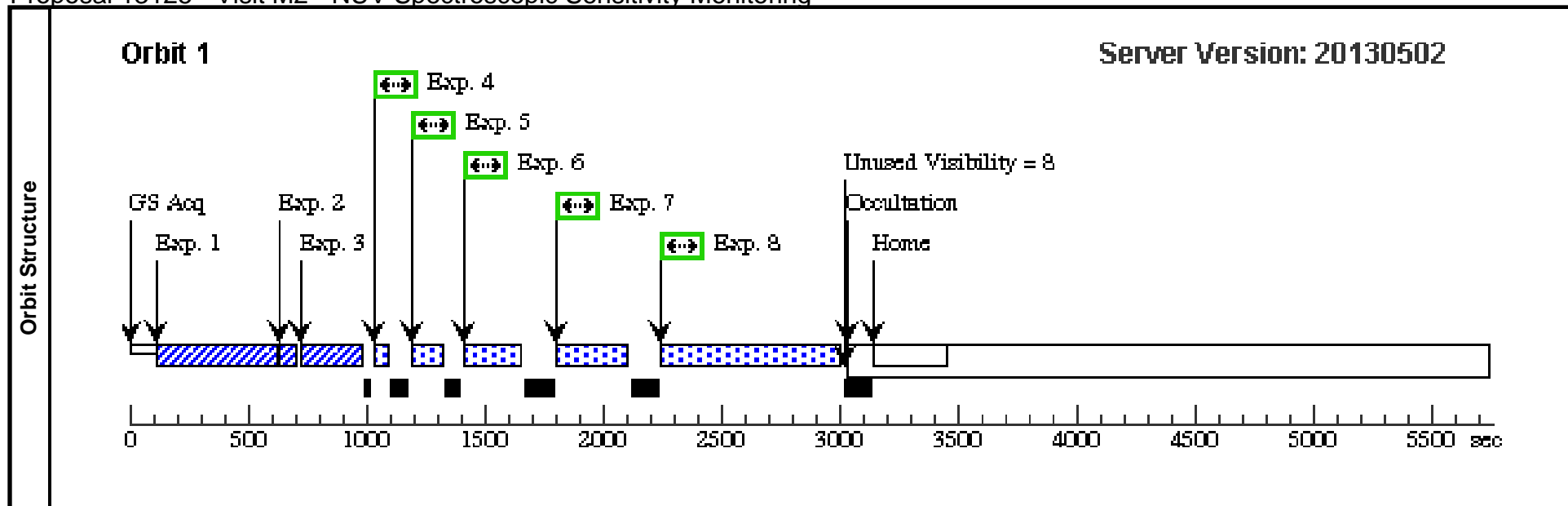
Visit	Proposal 13125, Visit M1, completed Diagnostic Status: Warning Scientific Instruments: COS/NUV Special Requirements: SCHED 100%; BETWEEN 09-DEC-2012:00:00:00 AND 16-DEC-2012:00:00:00									
	(Visit M1) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	G191B2B	RA: 05 05 30.6060 (76.3775250d) Dec: +52 49 52.74 (52.83132d) Equinox: J2000	Proper Motion RA: 0.00071 sec of time/yr Proper Motion Dec: -0.0907 arcsec/yr Epoch of Position: 1991.25	V=11.79	Reference Frame: ICRS				
<i>Comments: coords, PM from Hipparcos</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	G185M - A CQ/SEARCH H (COS.sa.428 950)	(2) G191B2B	COS/NUV, ACQ/SEARCH, PSA	G185M 1921 A	STEP-SIZE=1.767; SCAN-SIZE=3			1.0 Secs (1 Secs) [==>]	[1]
	2	G185M - A CQ/PEAKXD D (COS.sa.428 948)	(2) G191B2B	COS/NUV, ACQ/PEAKXD, PSA	G185M 1921 A				1.0 Secs (1 Secs) [==>]	[1]
	3	G185M - A CQ/PEAKD (COS.sa.428 947)	(2) G191B2B	COS/NUV, ACQ/PEAKD, PSA	G185M 1921 A	STEP-SIZE=0.6; NUM-POS=9.0			1.0 Secs (1 Secs) [==>]	[1]
	4	G185M - 19 21 A (COS.sp.428 943)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G185M 1921 A	BUFFER-TIME=80; FP-POS=3			47.0 Secs (47 Secs) [==>]	[1]
	5	G185M - 17 86A (COS.sp.428 942)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G185M 1786 A	BUFFER-TIME=80; FP-POS=3			42.0 Secs (42 Secs) [==>]	[1]
	6	G225M - 21 86 A (COS.sp.428 944)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G225M 2186 A	BUFFER-TIME=80. ; FP-POS=3			92.0 Secs (92 Secs) [==>]	[1]
	7	G285M - 26 17 A (COS.sp.428 945)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G285M 2617 A	BUFFER-TIME=17 9.0; FP-POS=3			180.0 Secs (180 Secs) [==>]	[1]
	8	G285M - 30 94 A (COS.sp.428 946)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G285M 3094 A	BUFFER-TIME=63 9.0; FP-POS=3			675.0 Secs (675 Secs) [==>]	[1]



Proposal 13125 - Visit M2 - NUV Spectroscopic Sensitivity Monitoring

Thu Jul 11 16:06:05 GMT 2013

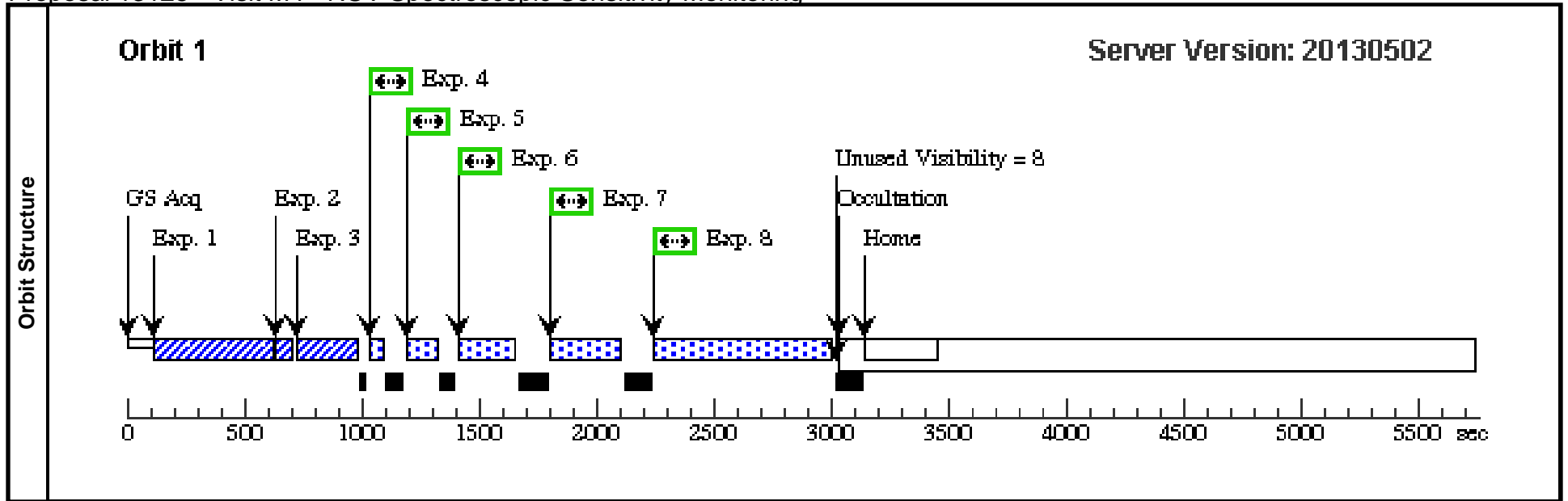
Visit	Proposal 13125, Visit M2, failed Diagnostic Status: Warning Scientific Instruments: COS/NUV Special Requirements: SCHED 100%; BETWEEN 07-APR-2013:00:00:00 AND 14-APR-2013:00:00:00									
	(Visit M2) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	G191B2B	RA: 05 05 30.6060 (76.3775250d) Dec: +52 49 52.74 (52.83132d) Equinox: J2000	Proper Motion RA: 0.00071 sec of time/yr Proper Motion Dec: -0.0907 arcsec/yr Epoch of Position: 1991.25	V=11.79	Reference Frame: ICRS				
<i>Comments: coords, PM from Hipparcos</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	G185M - A CQ/SEAR H (COS.sa.428 950)	(2) G191B2B	COS/NUV, ACQ/SEARCH, PSA	G185M 1921 A	STEP-SIZE=1.767; SCAN-SIZE=3			1.0 Secs (1 Secs) [==>]	[1]
	2	G185M - A CQ/PEAKX D (COS.sa.428 948)	(2) G191B2B	COS/NUV, ACQ/PEAKXD, PSA	G185M 1921 A				1.0 Secs (1 Secs) [==>]	[1]
	3	G185M - A CQ/PEAKD (COS.sa.428 947)	(2) G191B2B	COS/NUV, ACQ/PEAKD, PSA	G185M 1921 A	STEP-SIZE=0.6; NUM-POS=9.0			1.0 Secs (1 Secs) [==>]	[1]
	4	G185M - 19 21 A (COS.sp.428 943)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G185M 1921 A	BUFFER-TIME=80; FP-POS=3			47.0 Secs (47 Secs) [==>]	[1]
	5	G185M - 17 86A (COS.sp.428 942)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G185M 1786 A	BUFFER-TIME=80; FP-POS=3			42.0 Secs (42 Secs) [==>]	[1]
	6	G225M - 21 86 A (COS.sp.428 944)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G225M 2186 A	BUFFER-TIME=80. ; FP-POS=3			92.0 Secs (92 Secs) [==>]	[1]
	7	G285M - 26 17 A (COS.sp.428 945)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G285M 2617 A	BUFFER-TIME=17 9; FP-POS=3			180.0 Secs (180 Secs) [==>]	[1]
	8	G285M - 30 94 A (COS.sp.428 946)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G285M 3094 A	BUFFER-TIME=63 9; FP-POS=3			675.0 Secs (675 Secs) [==>]	[1]



Proposal 13125 - Visit M4 - NUV Spectroscopic Sensitivity Monitoring

Thu Jul 11 16:06:06 GMT 2013

Visit	Proposal 13125, Visit M4, implementation Diagnostic Status: Warning Scientific Instruments: COS/NUV Special Requirements: SCHED 100%; BETWEEN 26-JUL-2013:00:00:00 AND 05-AUG-2013:00:00:00									
	(Visit M4) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	G191B2B	RA: 05 05 30.6060 (76.3775250d) Dec: +52 49 52.74 (52.83132d) Equinox: J2000	Proper Motion RA: 0.00071 sec of time/yr Proper Motion Dec: -0.0907 arcsec/yr Epoch of Position: 1991.25	V=11.79	Reference Frame: ICRS				
<i>Comments: coords, PM from Hipparcos</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	G185M - A CQ/SEAR H (COS.sa.428 950)	(2) G191B2B	COS/NUV, ACQ/SEARCH, PSA	G185M 1921 A	STEP-SIZE=1.767; SCAN-SIZE=3			1.0 Secs (1 Secs) [==>]	[1]
	2	G185M - A CQ/PEAKX D (COS.sa.428 948)	(2) G191B2B	COS/NUV, ACQ/PEAKXD, PSA	G185M 1921 A				1.0 Secs (1 Secs) [==>]	[1]
	3	G185M - A CQ/PEAKD (COS.sa.428 947)	(2) G191B2B	COS/NUV, ACQ/PEAKD, PSA	G185M 1921 A	STEP-SIZE=0.6; NUM-POS=9.0			1.0 Secs (1 Secs) [==>]	[1]
	4	G185M - 19 21 A (COS.sp.428 943)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G185M 1921 A	BUFFER-TIME=80; FP-POS=3			47.0 Secs (47 Secs) [==>]	[1]
	5	G185M - 17 86A (COS.sp.428 942)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G185M 1786 A	BUFFER-TIME=80; FP-POS=3			42.0 Secs (42 Secs) [==>]	[1]
	6	G225M - 21 86 A (COS.sp.428 944)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G225M 2186 A	BUFFER-TIME=80. ; FP-POS=3			92.0 Secs (92 Secs) [==>]	[1]
	7	G285M - 26 17 A (COS.sp.428 945)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G285M 2617 A	BUFFER-TIME=17 9; FP-POS=3			180.0 Secs (180 Secs) [==>]	[1]
	8	G285M - 30 94 A (COS.sp.428 946)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G285M 3094 A	BUFFER-TIME=63 9; FP-POS=3			675.0 Secs (675 Secs) [==>]	[1]



Proposal 13125 - Visit M3 - NUV Spectroscopic Sensitivity Monitoring

Thu Jul 11 16:06:07 GMT 2013

Visit	Proposal 13125, Visit M3, implementation Diagnostic Status: Warning Scientific Instruments: COS/NUV Special Requirements: SCHED 100%; BETWEEN 22-SEP-2013:00:00:00 AND 30-SEP-2013:00:00:00

Diagnostics	(Visit M3) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

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>G191B2B</td> <td>RA: 05 05 30.6060 (76.3775250d) Dec: +52 49 52.74 (52.83132d) Equinox: J2000</td> <td>Proper Motion RA: 0.00071 sec of time/yr Proper Motion Dec: -0.0907 arcsec/yr Epoch of Position: 1991.25</td> <td>V=11.79</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: coords, PM from Hipparcos</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	G191B2B	RA: 05 05 30.6060 (76.3775250d) Dec: +52 49 52.74 (52.83132d) Equinox: J2000	Proper Motion RA: 0.00071 sec of time/yr Proper Motion Dec: -0.0907 arcsec/yr Epoch of Position: 1991.25	V=11.79	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(2)	G191B2B	RA: 05 05 30.6060 (76.3775250d) Dec: +52 49 52.74 (52.83132d) Equinox: J2000	Proper Motion RA: 0.00071 sec of time/yr Proper Motion Dec: -0.0907 arcsec/yr Epoch of Position: 1991.25	V=11.79	Reference Frame: ICRS								

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	G185M - A CQ/SEARCH (COS.sa.428 950)	(2) G191B2B	COS/NUV, ACQ/SEARCH, PSA	G185M 1921 A	STEP-SIZE=1.767; SCAN-SIZE=3			1.0 Secs (1 Secs) [==>]	[1]
	2	G185M - A CQ/PEAKXD (COS.sa.428 948)	(2) G191B2B	COS/NUV, ACQ/PEAKXD, PSA	G185M 1921 A				1.0 Secs (1 Secs) [==>]	[1]
	3	G185M - A CQ/PEAKD (COS.sa.237 025COS.sa.428947)	(2) G191B2B	COS/NUV, ACQ/PEAKD, PSA	G185M 1921 A	STEP-SIZE=0.6; NUM-POS=9.0			1.0 Secs (1 Secs) [==>]	[1]
	4	G185M - 19 21 A (COS.sp.428 943)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G185M 1921 A	BUFFER-TIME=80; FP-POS=3			47.0 Secs (47 Secs) [==>]	[1]
	5	G185M - 17 86A (COS.sp.428 942)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G185M 1786 A	BUFFER-TIME=80; FP-POS=3			42.0 Secs (42 Secs) [==>]	[1]
	6	G225M - 21 86 A (COS.sp.428 944)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G225M 2186 A	BUFFER-TIME=80. FP-POS=3			92.0 Secs (92 Secs) [==>]	[1]
	7	G285M - 26 17 A (COS.sp.428 945)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G285M 2617 A	BUFFER-TIME=17 9.; FP-POS=3			180.0 Secs (180 Secs) [==>]	[1]
	8	G285M - 30 94 A (COS.sp.428 946)	(2) G191B2B	COS/NUV, TIME-TAG, PSA	G285M 3094 A	BUFFER-TIME=63 9; FP-POS=3			675.0 Secs (675 Secs) [==>]	[1]

