12161 - Accretion in Close Pre-Main-Sequence Binaries

Cycle: 18, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(2) UZ-TAU-E	COS/FUV COS/NUV	1	17-Mar-2011 21:12:09.0	yes
02	(2) UZ-TAU-E	COS/FUV COS/NUV	1	17-Mar-2011 21:12:13.0	yes
03	(2) UZ-TAU-E	COS/FUV COS/NUV	1	17-Mar-2011 21:12:17.0	yes
04	(2) UZ-TAU-E	COS/FUV COS/NUV	1	17-Mar-2011 21:12:21.0	yes
05	(2) UZ-TAU-E	COS/FUV COS/NUV	1	17-Mar-2011 21:12:24.0	yes
06	(2) UZ-TAU-E	COS/FUV COS/NUV	1	17-Mar-2011 21:12:28.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
07	(2) UZ-TAU-E	COS/FUV COS/NUV	1	17-Mar-2011 21:12:31.0	yes
08	(2) UZ-TAU-E	COS/FUV COS/NUV	1	17-Mar-2011 21:12:35.0	yes
25	(2) UZ-TAU-E	COS/FUV COS/NUV	1	17-Mar-2011 21:12:38.0	yes
09	(2) UZ-TAU-E	COS/FUV COS/NUV	1	17-Mar-2011 21:12:42.0	yes
26	(2) UZ-TAU-E	COS/FUV COS/NUV	1	17-Mar-2011 21:12:45.0	yes
10	(2) UZ-TAU-E	COS/FUV COS/NUV	1	17-Mar-2011 21:12:49.0	yes
11	(2) UZ-TAU-E	COS/FUV COS/NUV	1	17-Mar-2011 21:12:52.0	yes
12	(2) UZ-TAU-E	COS/FUV COS/NUV	1	17-Mar-2011 21:12:55.0	yes
13	(1) DQ-TAU	COS/FUV COS/NUV	1	17-Mar-2011 21:12:58.0	yes
14	(1) DQ-TAU	COS/FUV COS/NUV	1	17-Mar-2011 21:13:03.0	yes
15	(1) DQ-TAU	COS/FUV COS/NUV	1	17-Mar-2011 21:13:07.0	yes
16	(1) DQ-TAU	COS/FUV COS/NUV	1	17-Mar-2011 21:13:10.0	yes
17	(1) DQ-TAU	COS/FUV COS/NUV	1	17-Mar-2011 21:13:13.0	yes
18	(1) DQ-TAU	COS/FUV COS/NUV	1	17-Mar-2011 21:13:17.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
19	(1) DQ-TAU	COS/FUV COS/NUV	1	17-Mar-2011 21:13:20.0	yes
20	(1) DQ-TAU	COS/FUV COS/NUV	1	17-Mar-2011 21:13:23.0	yes
21	(1) DQ-TAU	COS/FUV COS/NUV	1	17-Mar-2011 21:13:26.0	yes
22	(1) DQ-TAU	COS/FUV COS/NUV	1	17-Mar-2011 21:13:30.0	yes
23	(1) DQ-TAU	COS/FUV COS/NUV	1	17-Mar-2011 21:13:33.0	yes
24	(1) DQ-TAU	COS/FUV COS/NUV	1	17-Mar-2011 21:13:36.0	yes

26 Total Orbits Used

ABSTRACT

We propose to use COS to observe the circumbinary accretion flow in pre-main sequence binaries as a function of orbital phase. These observations will help us understand how the magnetosphere captures circumbinary gas, test model predictions regarding the importance of the mass ratio in directing the accretion flows, and study the kinematics of the gas filling the circumbinary gap. We will observe UZ Tau E (mass ratio q=0.3, e=0.33) and DQ Tau (q=1, e=0.58) in four phases, over three orbital periods, using G160M and G230L. The targets are Classical T Tauri stars for which the circumstellar disks are severely truncated. Our primary observables will be the CIV (1550 A) lines, formed at the footpoints of the accretion flow onto the star. We expect to observe the ebb and flow of the line shape, centroid, and flux as a function of orbital phase. The low-resolution NUV continuum observations will provide an independent measurement of the total accretion rate.

OBSERVING DESCRIPTION

We will observe DQ Tau and UZ Tau E.

Name | DQ Tau | UZ Tau E

SpT | M0 | M0
V | 13.66 | 14.99
Av (mag) | 1.0 | 1.5

Mdot (10^{-8} msun/yr)
| 2.5 | 3
Fciv$ (10^{-14} ergs sec^{-1} cm^{-2})
| 1.4 | 1.4
F2500 (10^{-15} ergs sec^{-1} cm^{-2} \AA^{-1})
| 0.75 | 4.5

U-band limits (From Herbst)

median | 15.7 (2.2e-15 ergs/sec/cm2/A) | 13.8 (1.3e-14 ergs/sec/cm2/A)
max | 13.7 (1.3e-14) | 13.03 (2.5e-14)
min | 16.7 (9e-16) | 14.45 (7.0e-15)

Orbital Parameters
P (days) | 15.8043±0.0024 | 19.131±0.003
T(JD-2440000) | 9582.54±0.05 | 11328.3±0.5
First periastron passage of 2011 (Jan 1 2011 = 15 562.49900)
JD-2440000 | 15572.4 | 15575.382
q | 0.97 | 0.30
M1 | 0.65 | 1.30
i (deg) | 23 | 54
e | 0.58 | 0.33
a (AU) | 0.13 | 0.15
DelVperi | 40 | 55
DelVapo | 12 | 25

Original Observing setup:

-G160M at Lam=1577A (t~2000 sec), R~2000 from 1382-1556A and 1577-1752A. The resolution is large enough to resolve CIV.
-G230L at Lam=2950A (t~600 sec), from 1650-2050A and 2750-3150A.

Request:

-Total of 24 orbits.
-Four phase points per binary orbit: phi=0.0 (periastron), 0.2, 0.50 (apastron), and 0.7. Phase requests have a precision of 0.05 (~1 d).
-Three binary orbits per star (consecutive in binary period)
-Two targets

-Periods and times of periastron passage are very well known and no preparatory observations are needed to predict them.

Original request:
We reach (according to the ETC) S/N~15 in CIV in both stars.
S/N~6 (S/N~14) in the continuum at 2800A for DQ Tau (UZ Tau E).
-All the estimates are per resolution element.

ADDITIONAL COMMENTS
Timing requirements:
HST observations complemented with simultaneous ground-based veiling observations, \hal, \hei, and \caii, at high enough resolutions to trace the development of accretion flows (R~40000). To insure simultaneous ground based observations we require that HST observations be done on 2011. The JD on Jan 1 2011 is HJD-2 440 000 = 15 562.4990034653

For UZ Tau, the first periastron passage of 2011 occurs on 15575.382
For DQ Tau, it occurs on 15572.4

General Comments:
In the FUV, COS is 10x faster than STIS. The goal of the FUV observations is to detect flux and velocity changes (primarily in CIV, but also in other lines present in the spectral range, like SiIV and H2) as a function of orbital phase.

The inclination of the circumbinary disks is low enough that it is unlikely they will suffer from variable extinction from disk dust in the line-of-sight.

For UZ Tau E, the CIV line flux is estimated from the published low-resolution ACS/SBC PR130L spectrum (Ingleby et al. 2009), for which the total flux in both doublet lines is 1.4 x 10^{-14} ergs sec^{-1} cm^{-2}. For optically thin emission (valid in some CTTSs, see Ardila 2007), the stronger doublet line has a flux of 1.0 x 10^{-14} ergs sec^{-1} cm^{-2}. With the empirical relationship between \mdot \ and CIV luminosity established by Johns-Krull et al. (2000), \mdot \ and extinction from Valenti et al. (1993), the predicted flux is 1.7 x 10^{-14} ergs sec^{-1} cm^{-2}. The models by AL96 predict a decrease (increase) in \mdot \ by a factor of 2 at apastron (periastron), which will result in a comparable decrease (increase) in CIV flux. Given this, we assume -- for the purposes of S/N calculation -- an average 1.4 x 10^{-14} ergs sec^{-1} cm^{-2} for the strong CIV line.

The NUV flux and acquisition exposures are estimated from an IUE spectrum scaled at 3600A to the median of the Herbst measurements.

UZ Tau W (another young, but wider binary system) is 3.7" away from UZ Tau E and has comparable optical and infrared properties (Jensen et al. 1996). This implies that its UV flux will not contaminate the COS' 2.5" aperture. Both targets have modest outflow indicators and therefore the CIV lines are not expected to be contaminated by shocks in the T Tauri wind.

To estimate the CIV flux for DQ Tau we use, again, the relationship between accretion rate and line luminosity derived by Johns-Krull et al. (2000) (see Table 1). While the accretion rate is 10x smaller than in UZ Tau E, the extinction is also smaller, resulting in similar predicted CIV flux. To estimate the continuum flux at 2500A we use an unpublished HST spectrum (PI Hartigan, PID 9812; ACS/HRC PR200L, 1700A to 3600\AA, R~60). This continuum value can also be used to confirm the CIV estimate. For DQ Tau, the continuum flux at 2500A is 100 times less than the same continuum flux in TW Hya (Herczeg et al. 2004). Assuming that the CIV line flux scales as the continuum flux (as both are accretion indicators) and taking into account the extinction differential between the two stars, we arrive to an estimate comparable to that already given in Table 1. Again, the S/N reachable in 2000 sec will be ~15. In 600 sec we will reach S/N~6 in G230L. This is not much, but we will use the whole G230L to estimate the excess, therefore a high S/N in a given resolution element is not crucial.

For H2, kinematic analysis will provide information as to its origin (Herczeg et al. 2006). The systematic error in the COS wavelength calibration is 15 \kms, dominated by pointing uncertainties, and such uncertainty will be the limiting factor in our analysis of H2.

Visit

Proposal 12161, Visit 01, completed Fri Mar 18 01:13:41 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: BETWEEN 01-FEB-2011:00:00:01 AND 03-FEB-2011:00:00:01; Period 19.131 D AND ZERO-PHASE HJD2455575.382; SEQ 01,02,03,04,05,06,07,08,09,10,11,12 WITHIN 70 D

Comments: UZ Tau, 1st epoch, Phase 0

Diagnostics

(Visit 01) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	UZ-TAU-E	RA: 04 32 43.1410 (68.1797542d)	Proper Motion RA: 0.011104 sec of time/yr	V=14.99	Reference Frame: ICRS
	Alt Name1: HBC52	Dec: +25 52 30.63 (25.87518d)	Proper Motion Dec: -0.008423956 arcsec/yr	Galex NUV mag=16.4882	
	Alt Name2: UZ-TAU-A	Equinox: J2000	Epoch of Position: 2007.62		

*Comments: ****UPDATE*****
GSC2.3 coordinates are 04 32 42.9584; +25 52 31.33 (ICRS; 1994.78).
F555W coordinates are 42.996 ; 30.74 (J2000; 1994.562002)
F165LP coordinates are 43.141; 30.63 (J2000, 2007.62)

This implies that the pm values given in Ducourant are too small for RA and too large for Dec. From the F555W observations to the F165LP observations, the PM is 0.011104306 sec/yr; -0.008423956 asec/yr. I'll therefore use these values plus the 2007 coordinates.

****
This object was generated by the targetselector and retrieved from the SIMBAD database.
Coordinates are ICRS from GSC2.3
Proper motion from Ducourant et al. 2005, reported error is 7 mas (per year????)

hstID: N9QK000016
Object is in Taurus: 140 pc

UZ Tau W is 3.7" away from UZ Tau E (Jensen et al. 2007), and it is itself a binary, with a separation of 0.359" (Ghez et al. 1995). UZ Tau W is classified as Class III by Hartmann 2002 (which probably refers to the combined system). Approx same brightness as E (from SIMBAD)

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	UZ ACQ/IMAGE ph0 1st	(2) UZ-TAU-E	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0 TO 0.05; GS ACQ SCENARIO BASE1B3		45 Secs *[==>]*	***[1]***

Comments: Measured extinction is Av=1.5, E(B-V)=0.5.
GALEX gives E(b-V)=1.5, based on DIRBE maps
++++++++++++++++++++++++++++++
The current calculation is based on linearly extrapolating the IUE spectrum to 3600 A and scaling to the median U band flux. This gives 30 sec. (COS.A370066). Estimates below give 45 sec, so I choose those.

++++++++++++++++++++++++++++++
With IUE data (Valenti et al. spectrum, with fluxes below 2000 A set to 0), S/N=40:
Mirror A: brightest pix:115.7 cts/sec, 2 sec
Mirror B: brightest pix: 5 cts/sec, 45 sec
++++++++++++++++++++++++++++++
NUV=16.4882, S/N=40:
MirrorA
Flat continuum/no extinction: brightest pix is 148 cts/sec, 1.5 sec
Flat continuum/extinction: brightest pix is 190 cts/sec, 1.2 sec
MirrorB
Flat continuum/no extinction: brightest pix is 7 cts/sec, 31 sec
Flat continuum/extinction: brightest pix is 9 cts/sec, 25 sec

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
2	UZ_Ph0_1st_NUV	(2) UZ-TAU-E	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1500; FP-POS=3; EXTENDED=NO			200. Secs *[==>]*	***[1]***

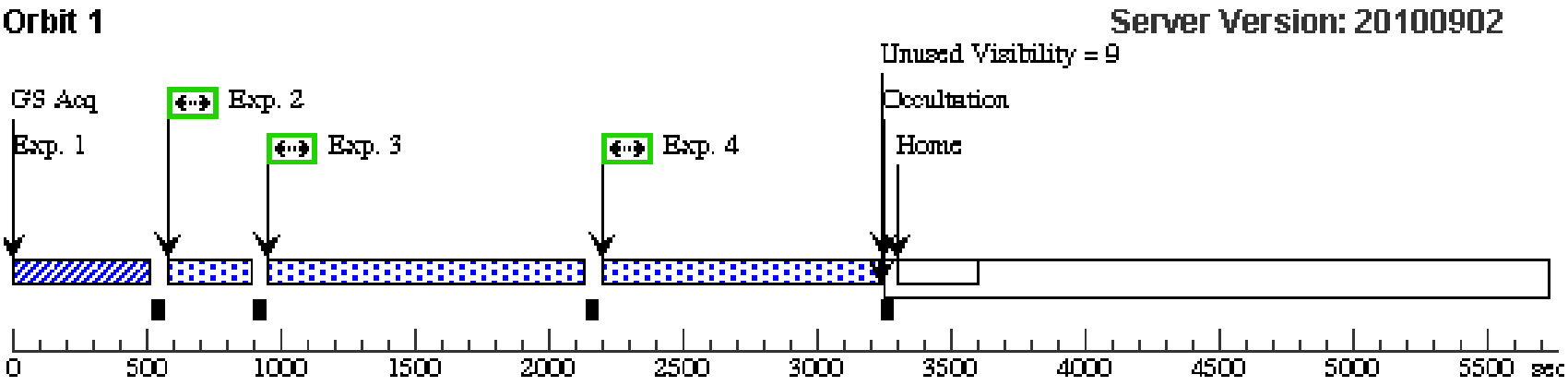
Comments: 100 secs => S/N=20 in continuum at 2800 A (for median flux) COS.A370073
From the IUE spectrum, ETC gives a buffer time of 4223 secs. For the max. flux, the buffer time is 2668 sec. I will choose 1500.

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
3	UZ_Ph0_1st_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH			972 Secs *[==>]*	***[1]***

Comments: 1000 sec -> S/N=12 at 1550 A. (1.4e-14 ergs/s/cm2) (COS.A370076)
Buffer time: 30000

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
4	UZ_Ph0_1st_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH			972 Secs *[==>]*	***[1]***

Orbit Structure



Visit

Proposal 12161, Visit 02, completed Fri Mar 18 01:13:43 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 19.131 D AND ZERO-PHASE HJD2455575.382

Comments: UZ Tau, 1st epoch, Phase 1

Diagnostics

(Visit 02) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	UZ-TAU-E	RA: 04 32 43.1410 (68.1797542d)	Proper Motion RA: 0.011104 sec of time/yr	V=14.99	Reference Frame: ICRS
	Alt Name1: HBC52	Dec: +25 52 30.63 (25.87518d)	Proper Motion Dec: -0.008423956 arcsec/yr	Galex NUV mag=16.4882	
	Alt Name2: UZ-TAU-A	Equinox: J2000	Epoch of Position: 2007.62		

*Comments: ****UPDATE*****
GSC2.3 coordinates are 04 32 42.9584; +25 52 31.33 (ICRS; 1994.78).
F555W coordinates are 42.996 ; 30.74 (J2000; 1994.562002)
F165LP coordinates are 43.141; 30.63 (J2000, 2007.62)

This implies that the pm values given in Ducourant are too small for RA and too large for Dec. From the F555W observations to the F165LP observations, the PM is 0.011104306 sec/yr; -0.008423956 asec/yr. I'll therefore use these values plus the 2007 coordinates.

****
This object was generated by the targetselector and retrieved from the SIMBAD database.
Coordinates are ICRS from GSC2.3
Proper motion from Ducourant et al. 2005, reported error is 7 mas (per year????)

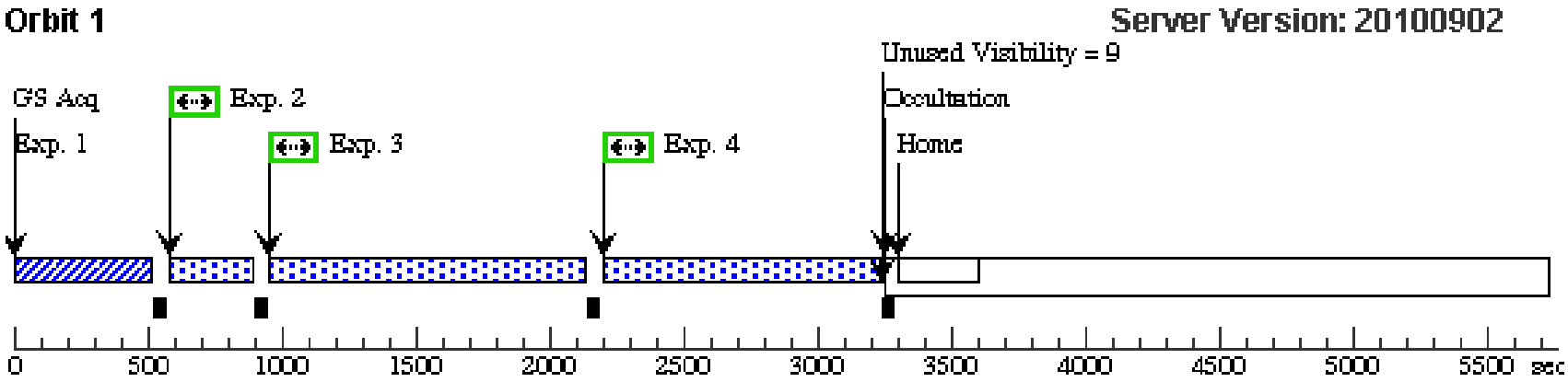
hstID: N9QK000016
Object is in Taurus: 140 pc

UZ Tau W is 3.7" away from UZ Tau E (Jensen et al. 2007), and it is itself a binary, with a separation of 0.359" (Ghez et al. 1995). UZ Tau W is classified as Class III by Hartmann 2002 (which probably refers to the combined system). Approx same brightness as E (from SIMBAD)

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	UZ ACQ/IMAGE ph1 1st	(2) UZ-TAU-E	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.2 TO 0.25; GS ACQ SCENARIO BASE1B3		45 Secs *[==>]*	*[1]*
2	UZ_Ph1_1st_NUV	(2) UZ-TAU-E	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1500; FP-POS=3; EXTENDED=NO			200 Secs *[==>]*	*[1]*
3	UZ_Ph1_1st_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*
4	UZ_Ph1_1st_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 12161, Visit 03, completed Fri Mar 18 01:13:43 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 19.131 D AND ZERO-PHASE HJD2455575.382

Comments: UZ Tau, 1st epoch, Phase 2

Diagnostics

(Visit 03) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	UZ-TAU-E	RA: 04 32 43.1410 (68.1797542d)	Proper Motion RA: 0.011104 sec of time/yr	V=14.99	Reference Frame: ICRS
	Alt Name1: HBC52	Dec: +25 52 30.63 (25.87518d)	Proper Motion Dec: -0.008423956 arcsec/yr	Galex NUV mag=16.4882	
	Alt Name2: UZ-TAU-A	Equinox: J2000	Epoch of Position: 2007.62		

*Comments: ****UPDATE******
GSC2.3 coordinates are 04 32 42.9584; +25 52 31.33 (ICRS; 1994.78).
F555W coordinates are 42.996 ; 30.74 (J2000; 1994.562002)
F165LP coordinates are 43.141; 30.63 (J2000, 2007.62)

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This object was generated by the targetselector and retrieved from the SIMBAD database.
Coordinates are ICRS from GSC2.3
Proper motion from Ducourant et al. 2005, reported error is 7 mas (per year????)

hstID: N9QK000016
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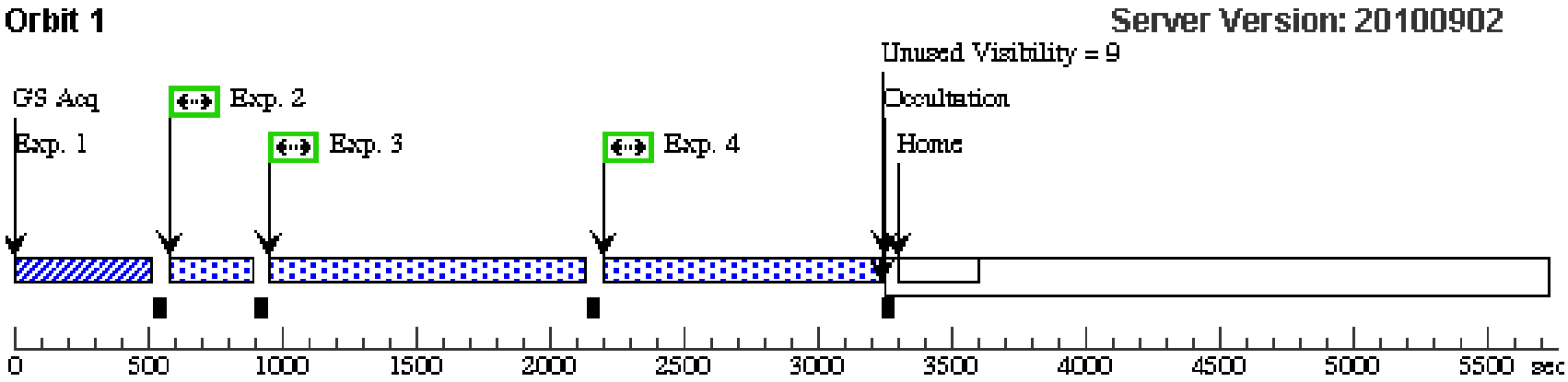
UZ Tau W is 3.7" away from UZ Tau E (Jensen et al. 2007), and it is itself a binary, with a separation of 0.359" (Ghez et al. 1995). UZ Tau W is classified as Class III by Hartmann 2002 (which probably refers to the combined system). Approx same brightness as E (from SIMBAD)

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	UZ ACQ/IMAGE ph2 1st	(2) UZ-TAU-E	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.5 TO 0.55; GS ACQ SCENARIO BASE1B3		45 Secs *[==>]*	*[1]*
2	UZ_Ph2_1st_NUV	(2) UZ-TAU-E	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1500; FP-POS=3; EXTENDED=NO			200 Secs *[==>]*	*[1]*
3	UZ_Ph2_1st_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*
4	UZ_Ph2_1st_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 12161, Visit 04, completed Fri Mar 18 01:13:44 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 19.131 D AND ZERO-PHASE HJD2455575.382

Comments: UZ Tau, 1st epoch, Phase 3

Diagnostics

(Visit 04) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	UZ-TAU-E	RA: 04 32 43.1410 (68.1797542d)	Proper Motion RA: 0.011104 sec of time/yr	V=14.99	Reference Frame: ICRS
	Alt Name1: HBC52	Dec: +25 52 30.63 (25.87518d)	Proper Motion Dec: -0.008423956 arcsec/yr	Galex NUV mag=16.4882	
	Alt Name2: UZ-TAU-A	Equinox: J2000	Epoch of Position: 2007.62		

*Comments: ****UPDATE******
GSC2.3 coordinates are 04 32 42.9584; +25 52 31.33 (ICRS; 1994.78).
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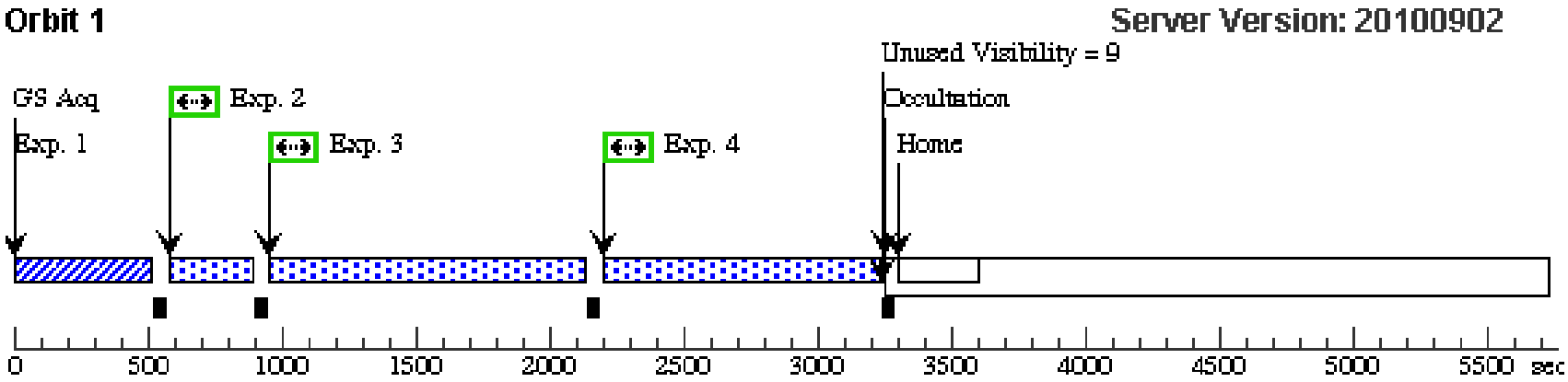
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	UZ ACQ/IMAGE ph3 1st	(2) UZ-TAU-E	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.7 TO 0.75; GS ACQ SCENARIO BASE1B3		45 Secs *[==>]*	*[1]*
2	UZ_Ph3_1st_NUV	(2) UZ-TAU-E	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1500; FP-POS=3; EXTENDED=NO			200 Secs *[==>]*	*[1]*
3	UZ_Ph3_1st_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*
4	UZ_Ph3_1st_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 12161, Visit 05, completed Fri Mar 18 01:13:44 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 19.131 D AND ZERO-PHASE HJD2455594.513

Comments: UZ Tau, 2nd epoch, Phase 0

Diagnostics

(Visit 05) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	UZ-TAU-E	RA: 04 32 43.1410 (68.1797542d)	Proper Motion RA: 0.011104 sec of time/yr	V=14.99	Reference Frame: ICRS
	Alt Name1: HBC52	Dec: +25 52 30.63 (25.87518d)	Proper Motion Dec: -0.008423956 arcsec/yr	Galex NUV mag=16.4882	
	Alt Name2: UZ-TAU-A	Equinox: J2000	Epoch of Position: 2007.62		

*Comments: ****UPDATE*****
GSC2.3 coordinates are 04 32 42.9584; +25 52 31.33 (ICRS; 1994.78).
F555W coordinates are 42.996 ; 30.74 (J2000; 1994.562002)
F165LP coordinates are 43.141; 30.63 (J2000, 2007.62)

This implies that the pm values given in Ducourant are too small for RA and too large for Dec. From the F555W observations to the F165LP observations, the PM is 0.011104306 sec/yr; -0.008423956 asec/yr. I'll therefore use these values plus the 2007 coordinates.

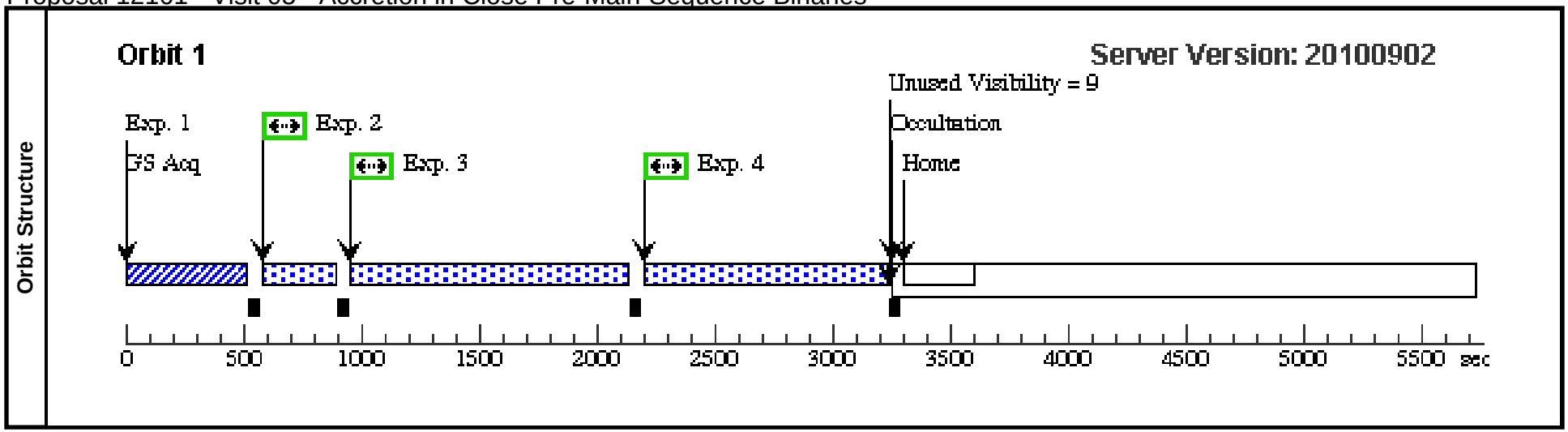
****
This object was generated by the targetselector and retrieved from the SIMBAD database.
Coordinates are ICRS from GSC2.3
Proper motion from Ducourant et al. 2005, reported error is 7 mas (per year????)

hstID: N9QK000016
Object is in Taurus: 140 pc

UZ Tau W is 3.7" away from UZ Tau E (Jensen et al. 2007), and it is itself a binary, with a separation of 0.359" (Ghez et al. 1995). UZ Tau W is classified as Class III by Hartmann 2002 (which probably refers to the combined system). Approx same brightness as E (from SIMBAD)

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	UZ ACQ/IMAGE ph0 2nd	(2) UZ-TAU-E	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0 TO 0.05; GS ACQ SCENARIO BASE1B3		45 Secs *[==>]*	*[1]*
	Comments: Measured extinction is Av=1.5, E(B-V)=0.5. *GALEX gives E(b-V)=1.5, based on DIRBE maps* ++++++++++++++++++++++++++++ *total time: 9xexpo+* ++++++++++++++++++++++++++++++++ *With IUE data (Valenti et al. spectrum, with fluxes below 2000 A set to 0), S/N=40:* *Mirror A: brightest pix:115.7 cts/sec, 2 sec* *Mirror B: brightest pix: 5 cts/sec, 45 sec* ++++++++++++++++++++++++++++++++ *NUV=16.4882, S/N=40:* *MirrorA* *Flat continuum/no extinction: brightest pix is 148 cts/sec, 1.5 sec* *Flat continuum/extinction: brightest pix is 190 cts/sec, 1.2 sec* *MirrorB* *Flat continuum/no extinction: brightest pix is 7 cts/sec, 31 sec* *Flat continuum/extinction: brightest pix is 9 cts/sec, 25 sec*								
2	UZ_Ph0_2nd_NUV	(2) UZ-TAU-E	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1500; FP-POS=3; EXTENDED=NO			200 Secs *[==>]*	*[1]*
3	UZ_Ph0_2nd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*
4	UZ_Ph0_2nd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20100902
Unused Visibility = 9
Exp. 1
FS Acq
Exp. 2
Exp. 3
Exp. 4
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12161, Visit 06, completed Fri Mar 18 01:13:44 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 19.131 D AND ZERO-PHASE HJD2455594.513

Comments: UZ Tau, 2nd epoch, Phase 1

Diagnostics

(Visit 06) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	UZ-TAU-E	RA: 04 32 43.1410 (68.1797542d)	Proper Motion RA: 0.011104 sec of time/yr	V=14.99	Reference Frame: ICRS
	Alt Name1: HBC52	Dec: +25 52 30.63 (25.87518d)	Proper Motion Dec: -0.008423956 arcsec/yr	Galex NUV mag=16.4882	
	Alt Name2: UZ-TAU-A	Equinox: J2000	Epoch of Position: 2007.62		

*Comments: ****UPDATE******
GSC2.3 coordinates are 04 32 42.9584; +25 52 31.33 (ICRS; 1994.78).
F555W coordinates are 42.996 ; 30.74 (J2000; 1994.562002)
F165LP coordinates are 43.141; 30.63 (J2000, 2007.62)

This implies that the pm values given in Ducourant are too small for RA and too large for Dec. From the F555W observations to the F165LP observations, the PM is 0.011104306 sec/yr; -0.008423956 asec/yr. I'll therefore use these values plus the 2007 coordinates.

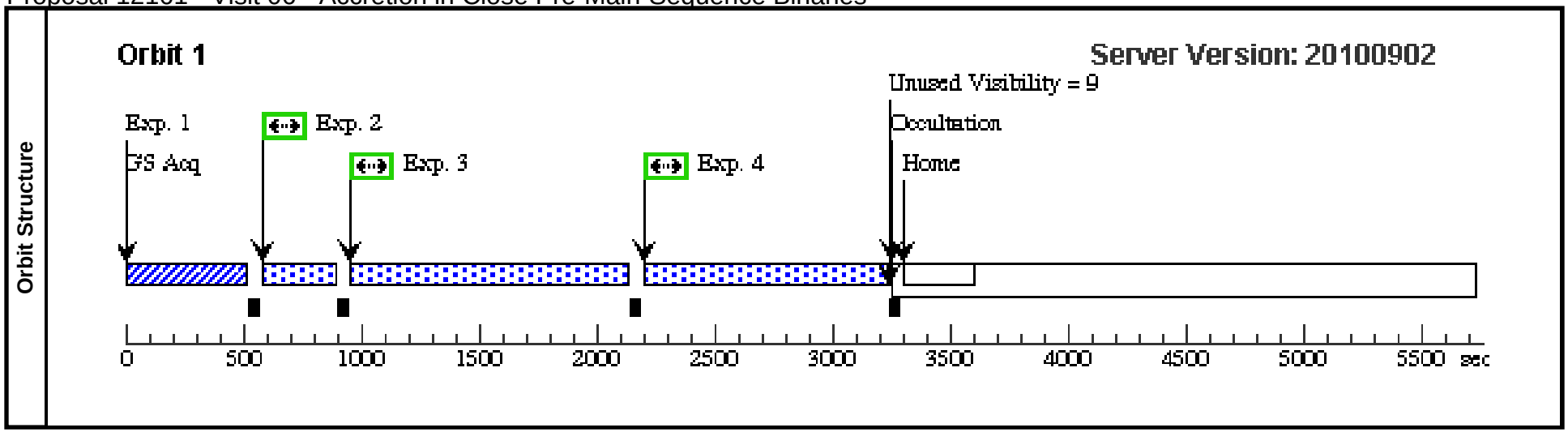
****
This object was generated by the targetselector and retrieved from the SIMBAD database.
Coordinates are ICRS from GSC2.3
Proper motion from Ducourant et al. 2005, reported error is 7 mas (per year????)

hstID: N9QK000016
Object is in Taurus: 140 pc

UZ Tau W is 3.7" away from UZ Tau E (Jensen et al. 2007), and it is itself a binary, with a separation of 0.359" (Ghez et al. 1995). UZ Tau W is classified as Class III by Hartmann 2002 (which probably refers to the combined system). Approx same brightness as E (from SIMBAD)

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	UZ ACQ/IMAGE ph1 2nd	(2) UZ-TAU-E	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.2 TO 0.25; GS ACQ SCENARIO BASE1B3		45 Secs *[==>]*	 ***[1]***
	Comments: Measured extinction is Av=1.5, E(B-V)=0.5. *GALEX gives E(b-V)=1.5, based on DIRBE maps* ++++++++++++++++++++++++++++ *total time: 9xexpo+* ++++++++++++++++++++++++++++++++ *With IUE data (Valenti et al. spectrum, with fluxes below 2000 A set to 0), S/N=40:* *Mirror A: brightest pix:115.7 cts/sec, 2 sec* *Mirror B: brightest pix: 5 cts/sec, 45 sec* ++++++++++++++++++++++++++++++++ *NUV=16.4882, S/N=40:* *MirrorA* *Flat continuum/no extinction: brightest pix is 148 cts/sec, 1.5 sec* *Flat continuum/extinction: brightest pix is 190 cts/sec, 1.2 sec* *MirrorB* *Flat continuum/no extinction: brightest pix is 7 cts/sec, 31 sec* *Flat continuum/extinction: brightest pix is 9 cts/sec, 25 sec*								
2	UZ_Ph1_2nd_NUV	(2) UZ-TAU-E	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1500; FP-POS=3; EXTENDED=NO			200 Secs *[==>]*	 ***[1]***
3	UZ_Ph1_2nd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH			972 Secs *[==>]*	 ***[1]***
4	UZ_Ph1_2nd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH			972 Secs *[==>]*	 ***[1]***


Orbit Structure
Orbit 1
Server Version: 20100902
Unused Visibility = 9
Exp. 1
FS Acq
Exp. 2
Exp. 3
Exp. 4
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12161, Visit 07, completed Fri Mar 18 01:13:45 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 19.131 D AND ZERO-PHASE HJD2455594.513

Comments: UZ Tau, 2nd epoch, Phase 2

Diagnostics

(Visit 07) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	UZ-TAU-E	RA: 04 32 43.1410 (68.1797542d)	Proper Motion RA: 0.011104 sec of time/yr	V=14.99	Reference Frame: ICRS
	Alt Name1: HBC52	Dec: +25 52 30.63 (25.87518d)	Proper Motion Dec: -0.008423956 arcsec/yr	Galex NUV mag=16.4882	
	Alt Name2: UZ-TAU-A	Equinox: J2000	Epoch of Position: 2007.62		

*Comments: ****UPDATE******
GSC2.3 coordinates are 04 32 42.9584; +25 52 31.33 (ICRS; 1994.78).
F555W coordinates are 42.996 ; 30.74 (J2000; 1994.562002)
F165LP coordinates are 43.141; 30.63 (J2000, 2007.62)

This implies that the pm values given in Ducourant are too small for RA and too large for Dec. From the F555W observations to the F165LP observations, the PM is 0.011104306 sec/yr; -0.008423956 asec/yr. I'll therefore use these values plus the 2007 coordinates.

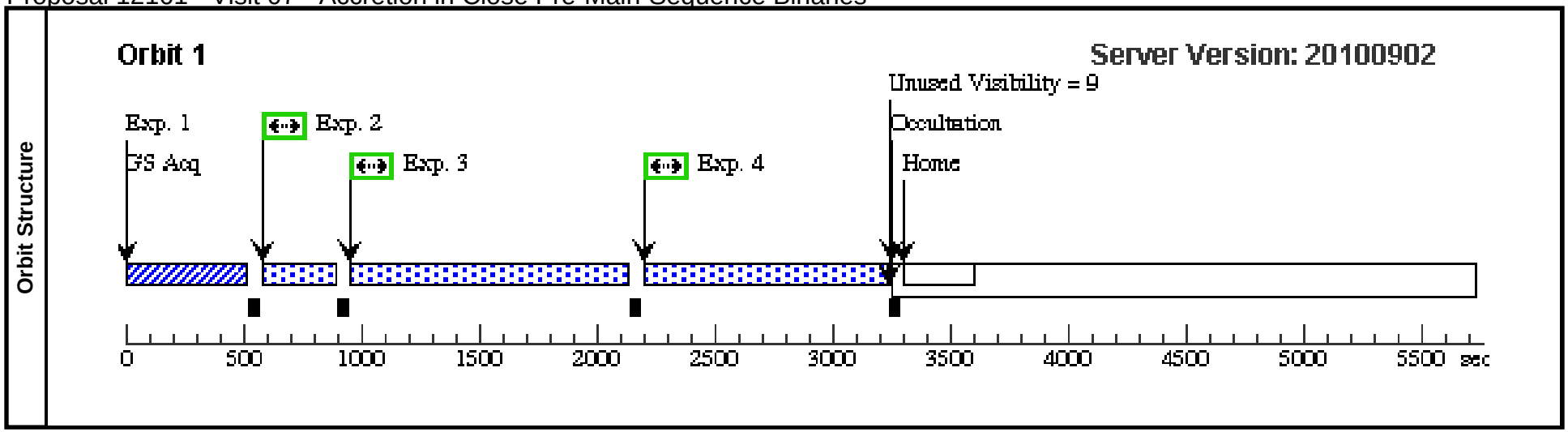
****
This object was generated by the targetselector and retrieved from the SIMBAD database.
Coordinates are ICRS from GSC2.3
Proper motion from Ducourant et al. 2005, reported error is 7 mas (per year????)

hstID: N9QK000016
Object is in Taurus: 140 pc

UZ Tau W is 3.7" away from UZ Tau E (Jensen et al. 2007), and it is itself a binary, with a separation of 0.359" (Ghez et al. 1995). UZ Tau W is classified as Class III by Hartmann 2002 (which probably refers to the combined system). Approx same brightness as E (from SIMBAD)

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	UZ ACQ/IMAGE ph2 2nd	(2) UZ-TAU-E	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.5 TO 0.55; GS ACQ SCENARIO BASE1B3		45 Secs *[==>]*	*[1]*
	Comments: Measured extinction is Av=1.5, E(B-V)=0.5. *GALEX gives E(b-V)=1.5, based on DIRBE maps* ++++++++++++++++++++++++++++ *total time: 9xexpo+* ++++++++++++++++++++++++++++++++ *With IUE data (Valenti et al. spectrum, with fluxes below 2000 A set to 0), S/N=40:* *Mirror A: brightest pix:115.7 cts/sec, 2 sec* *Mirror B: brightest pix: 5 cts/sec, 45 sec* ++++++++++++++++++++++++++++++++ *NUV=16.4882, S/N=40:* *MirrorA* *Flat continuum/no extinction: brightest pix is 148 cts/sec, 1.5 sec* *Flat continuum/extinction: brightest pix is 190 cts/sec, 1.2 sec* *MirrorB* *Flat continuum/no extinction: brightest pix is 7 cts/sec, 31 sec* *Flat continuum/extinction: brightest pix is 9 cts/sec, 25 sec*								
2	UZ_Ph2_2nd_NUV	(2) UZ-TAU-E	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1500; FP-POS=3; EXTENDED=NO			200 Secs *[==>]*	*[1]*
3	UZ_Ph2_2nd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*
4	UZ_Ph2_2nd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20100902
Unused Visibility = 9
Exp. 1
FS Acq
Exp. 2
Exp. 3
Exp. 4
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12161, Visit 08, failed Fri Mar 18 01:13:45 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 19.131 D AND ZERO-PHASE HJD2455594.513

Comments: UZ Tau, 2nd epoch, Phase 3

Diagnostics

(Visit 08) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	UZ-TAU-E	RA: 04 32 43.1410 (68.1797542d)	Proper Motion RA: 0.011104 sec of time/yr	V=14.99	Reference Frame: ICRS
	Alt Name1: HBC52	Dec: +25 52 30.63 (25.87518d)	Proper Motion Dec: -0.008423956 arcsec/yr	Galex NUV mag=16.4882	
	Alt Name2: UZ-TAU-A	Equinox: J2000	Epoch of Position: 2007.62		

*Comments: ****UPDATE*****
GSC2.3 coordinates are 04 32 42.9584; +25 52 31.33 (ICRS; 1994.78).
F555W coordinates are 42.996 ; 30.74 (J2000; 1994.562002)
F165LP coordinates are 43.141; 30.63 (J2000, 2007.62)

This implies that the pm values given in Ducourant are too small for RA and too large for Dec. From the F555W observations to the F165LP observations, the PM is 0.011104306 sec/yr; -0.008423956 asec/yr. I'll therefore use these values plus the 2007 coordinates.

****
This object was generated by the targetselector and retrieved from the SIMBAD database.
Coordinates are ICRS from GSC2.3
Proper motion from Ducourant et al. 2005, reported error is 7 mas (per year????)

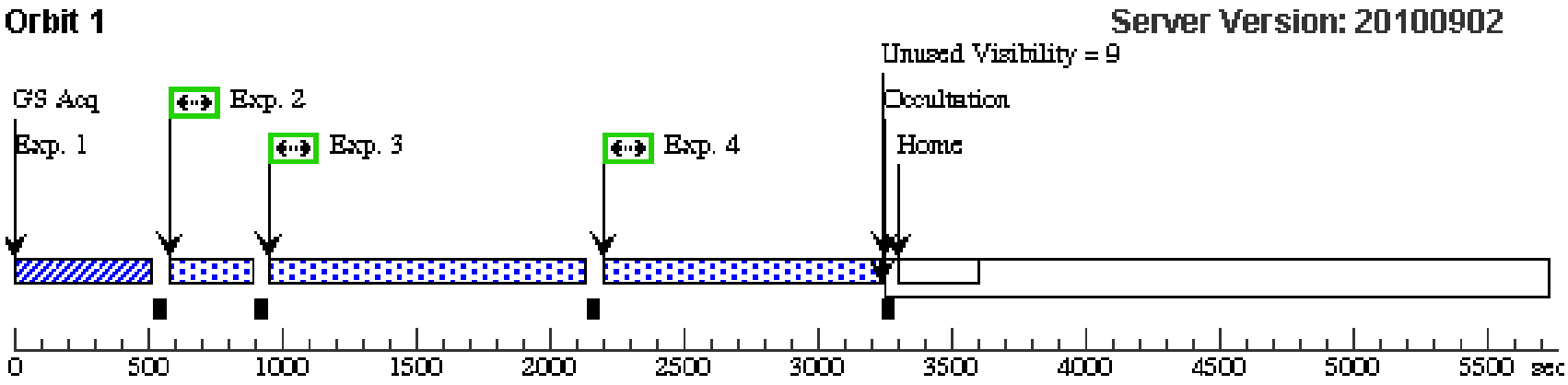
hstID: N9QK000016
Object is in Taurus: 140 pc

UZ Tau W is 3.7" away from UZ Tau E (Jensen et al. 2007), and it is itself a binary, with a separation of 0.359" (Ghez et al. 1995). UZ Tau W is classified as Class III by Hartmann 2002 (which probably refers to the combined system). Approx same brightness as E (from SIMBAD)

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	UZ ACQ/IMAGE_ph3_2nd	(2) UZ-TAU-E	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.7 TO 0.75; GS ACQ SCENARIO BASE1B3		45 Secs *[==>]*	***[1]***
	Comments: Measured extinction is Av=1.5, E(B-V)=0.5. *GALEX gives E(b-V)=1.5, based on DIRBE maps* ++++++++++++++++++++++++++++ *total time: 9xexpo+* ++++++++++++++++++++++++++++++ *With IUE data (Valenti et al. spectrum, with fluxes below 2000 A set to 0), S/N=40:* *Mirror A: brightest pix:115.7 cts/sec, 2 sec* *Mirror B: brightest pix: 5 cts/sec, 45 sec* ++++++++++++++++++++++++++++++ *NUV=16.4882, S/N=40:* *MirrorA* *Flat continuum/no extinction: brightest pix is 148 cts/sec, 1.5 sec* *Flat continuum/extinction: brightest pix is 190 cts/sec, 1.2 sec* *MirrorB* *Flat continuum/no extinction: brightest pix is 7 cts/sec, 31 sec* *Flat continuum/extinction: brightest pix is 9 cts/sec, 25 sec*								
2	UZ_Ph3_2nd_NUV	(2) UZ-TAU-E	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1500; FP-POS=3; EXTENDED=NO			200 Secs *[==>]*	***[1]***
	Comments: 90 secs => S/N=5 in continuum at 2800 A *From the IUE spectrum, ETC gives a buffer time of 5016 secs. Twice the flux gives 3768 secs. So, I'll choose 2000 secs*								
3	UZ_Ph3_2nd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH			972 Secs *[==>]*	***[1]***
4	UZ_Ph3_2nd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH			972 Secs *[==>]*	***[1]***

Orbit Structure



Visit

Proposal 12161, Visit 25, implementation Fri Mar 18 01:13:45 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 19.131 D AND ZERO-PHASE HJD2455594.513

Comments: UZ Tau, 2nd epoch, Phase 3

HOPR repeat of visit 8

Diagnostics

(Visit 25) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	UZ-TAU-E	RA: 04 32 43.1410 (68.1797542d)	Proper Motion RA: 0.011104 sec of time/yr	V=14.99	Reference Frame: ICRS
	Alt Name1: HBC52	Dec: +25 52 30.63 (25.87518d)	Proper Motion Dec: -0.008423956 arcsec/yr	Galex NUV mag=16.4882	
	Alt Name2: UZ-TAU-A	Equinox: J2000	Epoch of Position: 2007.62		

*Comments: ****UPDATE******
GSC2.3 coordinates are 04 32 42.9584; +25 52 31.33 (ICRS; 1994.78).
F555W coordinates are 42.996 ; 30.74 (J2000; 1994.562002)
F165LP coordinates are 43.141; 30.63 (J2000, 2007.62)

This implies that the pm values given in Ducourant are too small for RA and too large for Dec. From the F555W observations to the F165LP observations, the PM is 0.011104306 sec/yr; -0.008423956 asec/yr. I'll therefore use these values plus the 2007 coordinates.

****
This object was generated by the targetselector and retrieved from the SIMBAD database.
Coordinates are ICRS from GSC2.3
Proper motion from Ducourant et al. 2005, reported error is 7 mas (per year????)

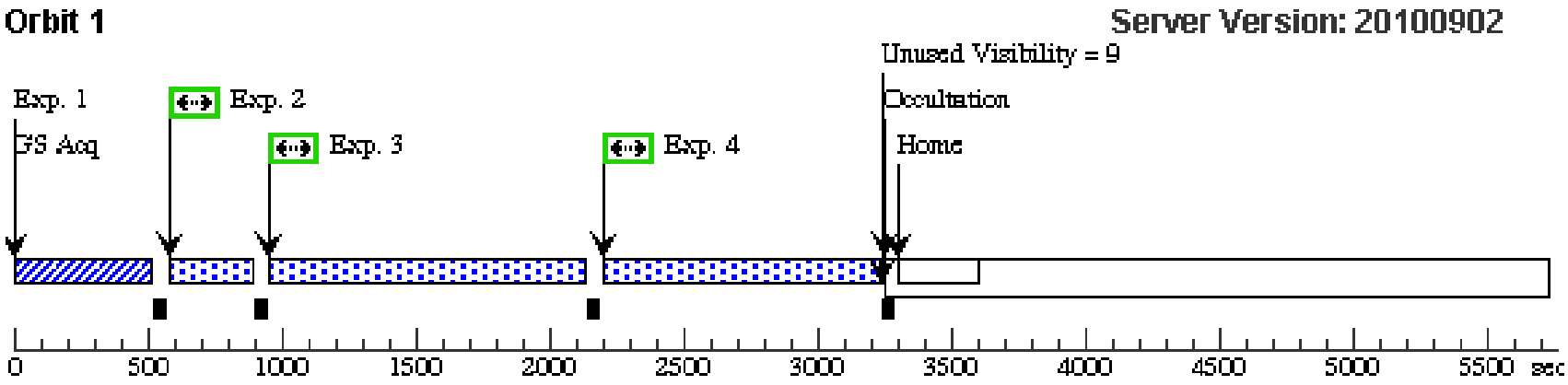
hstID: N9QK000016
Object is in Taurus: 140 pc

UZ Tau W is 3.7" away from UZ Tau E (Jensen et al. 2007), and it is itself a binary, with a separation of 0.359" (Ghez et al. 1995). UZ Tau W is classified as Class III by Hartmann 2002 (which probably refers to the combined system). Approx same brightness as E (from SIMBAD)

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	UZ ACQ/IMAGE_ph3_2nd	(2) UZ-TAU-E	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.5 TO 0.55; GS ACQ SCENARIO BASE1B3		45 Secs *[==>]*	***[1]***
	Comments: Measured extinction is Av=1.5, E(B-V)=0.5. *GALEX gives E(b-V)=1.5, based on DIRBE maps* ++++++++++++++++++++++++++++ *total time: 9xexpo+* ++++++++++++++++++++++++++++++ *With IUE data (Valenti et al. spectrum, with fluxes below 2000 A set to 0), S/N=40:* *Mirror A: brightest pix:115.7 cts/sec, 2 sec* *Mirror B: brightest pix: 5 cts/sec, 45 sec* ++++++++++++++++++++++++++++++ *NUV=16.4882, S/N=40:* *MirrorA* *Flat continuum/no extinction: brightest pix is 148 cts/sec, 1.5 sec* *Flat continuum/extinction: brightest pix is 190 cts/sec, 1.2 sec* *MirrorB* *Flat continuum/no extinction: brightest pix is 7 cts/sec, 31 sec* *Flat continuum/extinction: brightest pix is 9 cts/sec, 25 sec*								
2	UZ_Ph3_2nd_NUV	(2) UZ-TAU-E	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1500; FP-POS=3; EXTENDED=NO			200 Secs *[==>]*	***[1]***
	Comments: 90 secs => S/N=5 in continuum at 2800 A *From the IUE spectrum, ETC gives a buffer time of 5016 secs. Twice the flux gives 3768 secs. So, I'll choose 2000 secs*								
3	UZ_Ph3_2nd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH			972 Secs *[==>]*	***[1]***
4	UZ_Ph3_2nd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH			972 Secs *[==>]*	***[1]***

Orbit Structure



Visit

Proposal 12161, Visit 09, failed Fri Mar 18 01:13:46 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 19.131 D AND ZERO-PHASE HJD2455613.644

Comments: UZ Tau, 3rd epoch, Phase 0

Diagnostics

(Visit 09) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	UZ-TAU-E	RA: 04 32 43.1410 (68.1797542d)	Proper Motion RA: 0.011104 sec of time/yr	V=14.99	Reference Frame: ICRS
	Alt Name1: HBC52	Dec: +25 52 30.63 (25.87518d)	Proper Motion Dec: -0.008423956 arcsec/yr	Galex NUV mag=16.4882	
	Alt Name2: UZ-TAU-A	Equinox: J2000	Epoch of Position: 2007.62		

*Comments: ****UPDATE******
GSC2.3 coordinates are 04 32 42.9584; +25 52 31.33 (ICRS; 1994.78).
F555W coordinates are 42.996 ; 30.74 (J2000; 1994.562002)
F165LP coordinates are 43.141; 30.63 (J2000, 2007.62)

This implies that the pm values given in Ducourant are too small for RA and too large for Dec. From the F555W observations to the F165LP observations, the PM is 0.011104306 sec/yr; -0.008423956 asec/yr. I'll therefore use these values plus the 2007 coordinates.

****
This object was generated by the targetselector and retrieved from the SIMBAD database.
Coordinates are ICRS from GSC2.3
Proper motion from Ducourant et al. 2005, reported error is 7 mas (per year????)

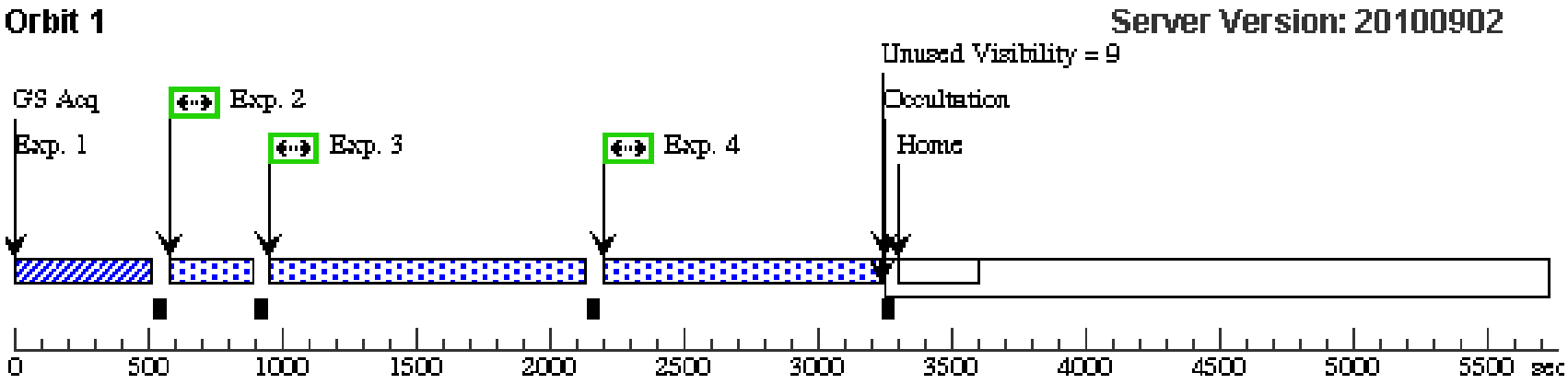
hstID: N9QK000016
Object is in Taurus: 140 pc

UZ Tau W is 3.7" away from UZ Tau E (Jensen et al. 2007), and it is itself a binary, with a separation of 0.359" (Ghez et al. 1995). UZ Tau W is classified as Class III by Hartmann 2002 (which probably refers to the combined system). Approx same brightness as E (from SIMBAD)

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	UZ ACQ/IMAGE ph0 3rd	(2) UZ-TAU-E	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0 TO 0.05; GS ACQ SCENARIO BASE1B3		45 Secs *[==>]*	*[1]*
	Comments: Measured extinction is Av=1.5, E(B-V)=0.5. *GALEX gives E(b-V)=1.5, based on DIRBE maps* ++++++++++++++++++++++++++++ *total time: 9xexpo+* ++++++++++++++++++++++++++++++++ *With IUE data (Valenti et al. spectrum, with fluxes below 2000 A set to 0), S/N=40:* *Mirror A: brightest pix:115.7 cts/sec, 2 sec* *Mirror B: brightest pix: 5 cts/sec, 45 sec* ++++++++++++++++++++++++++++++++ *NUV=16.4882, S/N=40:* *MirrorA* *Flat continuum/no extinction: brightest pix is 148 cts/sec, 1.5 sec* *Flat continuum/extinction: brightest pix is 190 cts/sec, 1.2 sec* *MirrorB* *Flat continuum/no extinction: brightest pix is 7 cts/sec, 31 sec* *Flat continuum/extinction: brightest pix is 9 cts/sec, 25 sec*								
2	UZ_Ph0_3rd_NUV	(2) UZ-TAU-E	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1500; FP-POS=3; EXTENDED=NO			200 Secs *[==>]*	*[1]*
3	UZ_Ph0_3rd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*
4	UZ_Ph0_3rd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 12161, Visit 26, scheduling Fri Mar 18 01:13:46 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 19.131 D AND ZERO-PHASE HJD2455613.644

Comments: UZ Tau, 3rd epoch, Phase 0

HOPR repeat of visit 9

Diagnostics

(Visit 26) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	UZ-TAU-E	RA: 04 32 43.1410 (68.1797542d)	Proper Motion RA: 0.011104 sec of time/yr	V=14.99	Reference Frame: ICRS
	Alt Name1: HBC52	Dec: +25 52 30.63 (25.87518d)	Proper Motion Dec: -0.008423956 arcsec/yr	Galex NUV mag=16.4882	
	Alt Name2: UZ-TAU-A	Equinox: J2000	Epoch of Position: 2007.62		

*Comments: ****UPDATE*****
GSC2.3 coordinates are 04 32 42.9584; +25 52 31.33 (ICRS; 1994.78).
F555W coordinates are 42.996 ; 30.74 (J2000; 1994.562002)
F165LP coordinates are 43.141; 30.63 (J2000, 2007.62)

This implies that the pm values given in Ducourant are too small for RA and too large for Dec. From the F555W observations to the F165LP observations, the PM is 0.011104306 sec/yr; -0.008423956 asec/yr. I'll therefore use these values plus the 2007 coordinates.

****
This object was generated by the targetselector and retrieved from the SIMBAD database.
Coordinates are ICRS from GSC2.3
Proper motion from Ducourant et al. 2005, reported error is 7 mas (per year????)

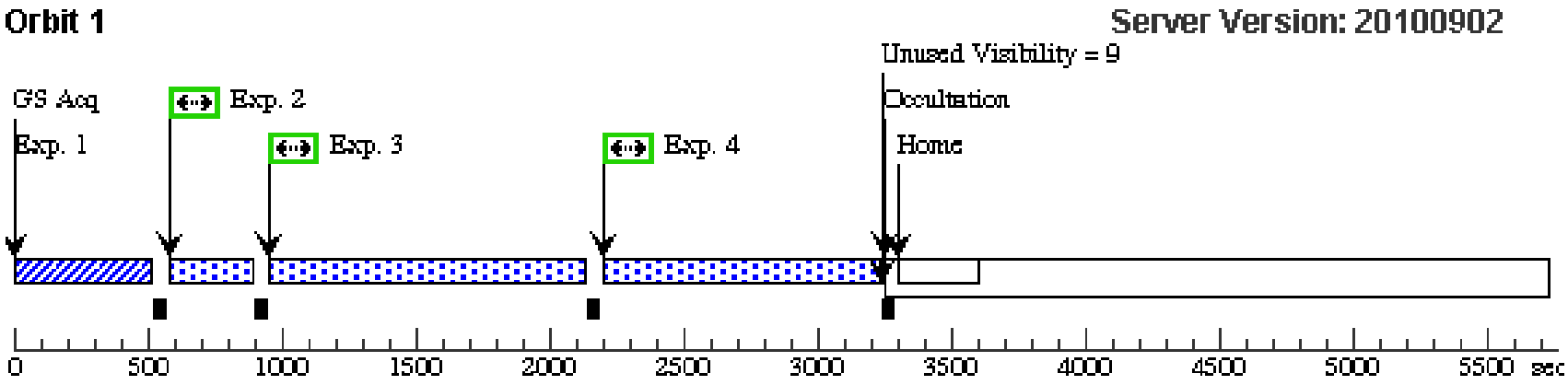
hstID: N9QK000016
Object is in Taurus: 140 pc

UZ Tau W is 3.7" away from UZ Tau E (Jensen et al. 2007), and it is itself a binary, with a separation of 0.359" (Ghez et al. 1995). UZ Tau W is classified as Class III by Hartmann 2002 (which probably refers to the combined system). Approx same brightness as E (from SIMBAD)

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	UZ ACQ/IMAGE ph0 3rd	(2) UZ-TAU-E	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0 TO 0.05; GS ACQ SCENARIO BASE1B3		45 Secs *[==>]*	*[1]*
	Comments: Measured extinction is Av=1.5, E(B-V)=0.5. *GALEX gives E(b-V)=1.5, based on DIRBE maps* ++++++++++++++++++++++++++++ *total time: 9xexpo+* ++++++++++++++++++++++++++++++++ *With IUE data (Valenti et al. spectrum, with fluxes below 2000 A set to 0), S/N=40:* *Mirror A: brightest pix:115.7 cts/sec, 2 sec* *Mirror B: brightest pix: 5 cts/sec, 45 sec* ++++++++++++++++++++++++++++++++ *NUV=16.4882, S/N=40:* *MirrorA* *Flat continuum/no extinction: brightest pix is 148 cts/sec, 1.5 sec* *Flat continuum/extinction: brightest pix is 190 cts/sec, 1.2 sec* *MirrorB* *Flat continuum/no extinction: brightest pix is 7 cts/sec, 31 sec* *Flat continuum/extinction: brightest pix is 9 cts/sec, 25 sec*								
2	UZ_Ph0_3rd_NUV	(2) UZ-TAU-E	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1500; FP-POS=3; EXTENDED=NO			200 Secs *[==>]*	*[1]*
3	UZ_Ph0_3rd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*
4	UZ_Ph0_3rd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 12161, Visit 10, scheduling Fri Mar 18 01:13:46 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 19.131 D AND ZERO-PHASE HJD2455613.644

Comments: UZ Tau, 3rd epoch, Phase 1

Diagnostics

(Visit 10) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	UZ-TAU-E	RA: 04 32 43.1410 (68.1797542d)	Proper Motion RA: 0.011104 sec of time/yr	V=14.99	Reference Frame: ICRS
	Alt Name1: HBC52	Dec: +25 52 30.63 (25.87518d)	Proper Motion Dec: -0.008423956 arcsec/yr	Galex NUV mag=16.4882	
	Alt Name2: UZ-TAU-A	Equinox: J2000	Epoch of Position: 2007.62		

*Comments: ****UPDATE******
GSC2.3 coordinates are 04 32 42.9584; +25 52 31.33 (ICRS; 1994.78).
F555W coordinates are 42.996 ; 30.74 (J2000; 1994.562002)
F165LP coordinates are 43.141; 30.63 (J2000, 2007.62)

This implies that the pm values given in Ducourant are too small for RA and too large for Dec. From the F555W observations to the F165LP observations, the PM is 0.011104306 sec/yr; -0.008423956 asec/yr. I'll therefore use these values plus the 2007 coordinates.

****
This object was generated by the targetselector and retrieved from the SIMBAD database.
Coordinates are ICRS from GSC2.3
Proper motion from Ducourant et al. 2005, reported error is 7 mas (per year????)

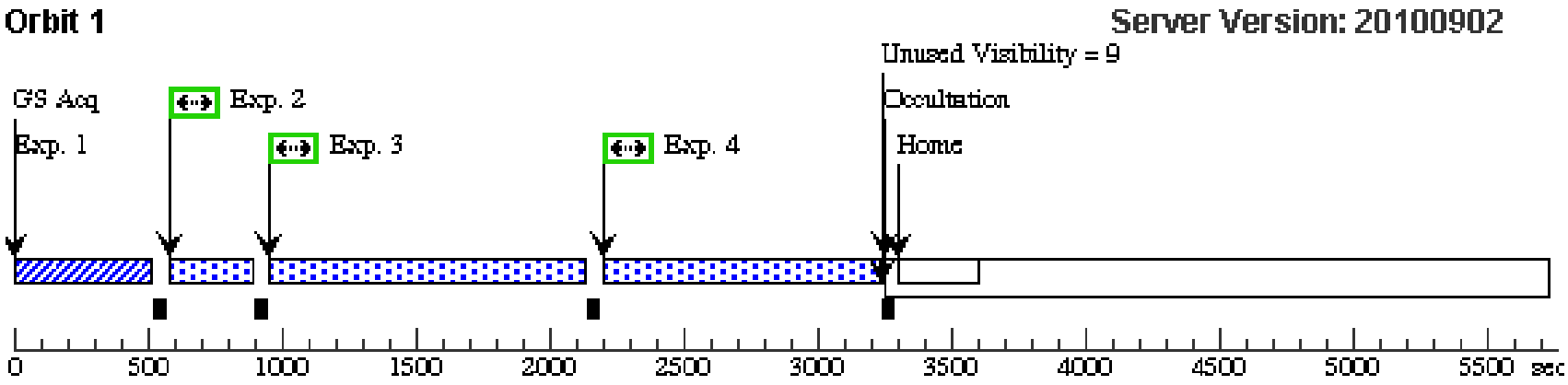
hstID: N9QK000016
Object is in Taurus: 140 pc

UZ Tau W is 3.7" away from UZ Tau E (Jensen et al. 2007), and it is itself a binary, with a separation of 0.359" (Ghez et al. 1995). UZ Tau W is classified as Class III by Hartmann 2002 (which probably refers to the combined system). Approx same brightness as E (from SIMBAD)

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	UZ ACQ/IMAGE ph1 3rd	(2) UZ-TAU-E	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.2 TO 0.25; GS ACQ SCENARIO BASE1B3		45 Secs *[==>]*	*[1]*
	Comments: Measured extinction is Av=1.5, E(B-V)=0.5. *GALEX gives E(b-V)=1.5, based on DIRBE maps* ++++++++++++++++++++++++++++ *total time: 9xexpo+* ++++++++++++++++++++++++++++++ *With IUE data (Valenti et al. spectrum, with fluxes below 2000 A set to 0), S/N=40:* *Mirror A: brightest pix:115.7 cts/sec, 2 sec* *Mirror B: brightest pix: 5 cts/sec, 45 sec* ++++++++++++++++++++++++++++++ *NUV=16.4882, S/N=40:* *MirrorA* *Flat continuum/no extinction: brightest pix is 148 cts/sec, 1.5 sec* *Flat continuum/extinction: brightest pix is 190 cts/sec, 1.2 sec* *MirrorB* *Flat continuum/no extinction: brightest pix is 7 cts/sec, 31 sec* *Flat continuum/extinction: brightest pix is 9 cts/sec, 25 sec*								
2	UZ_Ph1_3rd_NUV	(2) UZ-TAU-E	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1500; FP-POS=3; EXTENDED=NO			200 Secs *[==>]*	*[1]*
	Comments: 90 secs => S/N=5 in continuum at 2800 A *From the IUE spectrum, ETC gives a buffer time of 5016 secs. Twice the flux gives 3768 secs. So, I'll choose 2000 secs*								
3	UZ_Ph1_3rd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*
4	UZ_Ph1_3rd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 12161, Visit 11, scheduling Fri Mar 18 01:13:46 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 19.131 D AND ZERO-PHASE HJD2455613.644

Comments: UZ Tau, 3rd epoch, Phase 2

Diagnostics

(Visit 11) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	UZ-TAU-E	RA: 04 32 43.1410 (68.1797542d)	Proper Motion RA: 0.011104 sec of time/yr	V=14.99	Reference Frame: ICRS
	Alt Name1: HBC52	Dec: +25 52 30.63 (25.87518d)	Proper Motion Dec: -0.008423956 arcsec/yr	Galex NUV mag=16.4882	
	Alt Name2: UZ-TAU-A	Equinox: J2000	Epoch of Position: 2007.62		

*Comments: ****UPDATE******
GSC2.3 coordinates are 04 32 42.9584; +25 52 31.33 (ICRS; 1994.78).
F555W coordinates are 42.996 ; 30.74 (J2000; 1994.562002)
F165LP coordinates are 43.141; 30.63 (J2000, 2007.62)

This implies that the pm values given in Ducourant are too small for RA and too large for Dec. From the F555W observations to the F165LP observations, the PM is 0.011104306 sec/yr; -0.008423956 asec/yr. I'll therefore use these values plus the 2007 coordinates.

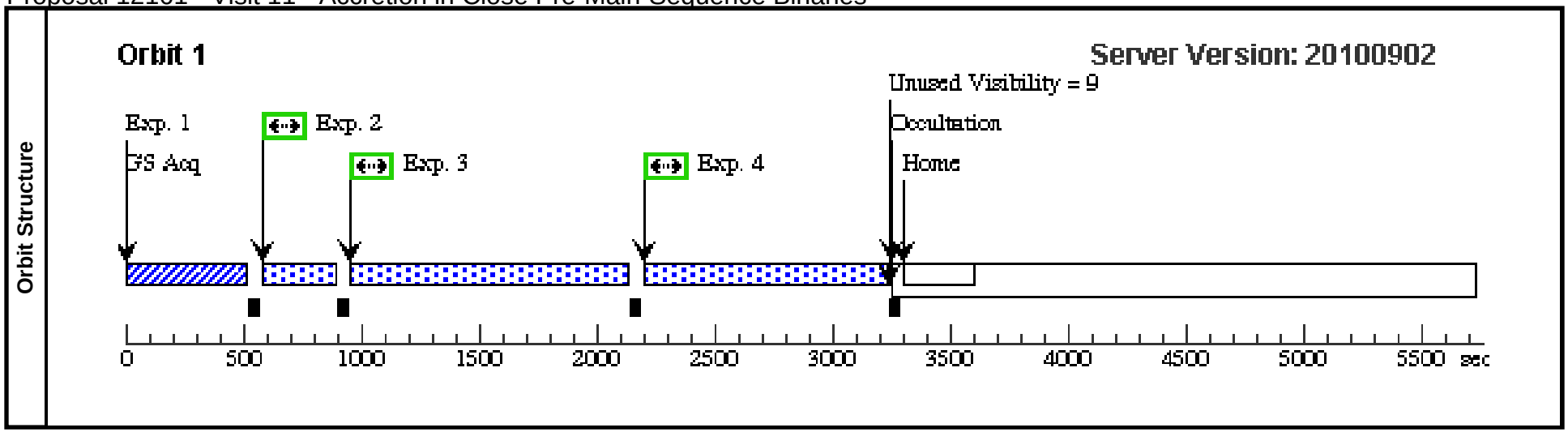
****
This object was generated by the targetselector and retrieved from the SIMBAD database.
Coordinates are ICRS from GSC2.3
Proper motion from Ducourant et al. 2005, reported error is 7 mas (per year????)

hstID: N9QK000016
Object is in Taurus: 140 pc

UZ Tau W is 3.7" away from UZ Tau E (Jensen et al. 2007), and it is itself a binary, with a separation of 0.359" (Ghez et al. 1995). UZ Tau W is classified as Class III by Hartmann 2002 (which probably refers to the combined system). Approx same brightness as E (from SIMBAD)

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	UZ ACQ/IMAGE ph2 3rd	(2) UZ-TAU-E	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.5 TO 0.55; GS ACQ SCENARIO BASE1B3		45 Secs *[==>]*	*[1]*
	Comments: Measured extinction is Av=1.5, E(B-V)=0.5. *GALEX gives E(b-V)=1.5, based on DIRBE maps* ++++++++++++++++++++++++++++ *total time: 9xexpo+* ++++++++++++++++++++++++++++++++ *With IUE data (Valenti et al. spectrum, with fluxes below 2000 A set to 0), S/N=40:* *Mirror A: brightest pix:115.7 cts/sec, 2 sec* *Mirror B: brightest pix: 5 cts/sec, 45 sec* ++++++++++++++++++++++++++++++++ *NUV=16.4882, S/N=40:* *MirrorA* *Flat continuum/no extinction: brightest pix is 148 cts/sec, 1.5 sec* *Flat continuum/extinction: brightest pix is 190 cts/sec, 1.2 sec* *MirrorB* *Flat continuum/no extinction: brightest pix is 7 cts/sec, 31 sec* *Flat continuum/extinction: brightest pix is 9 cts/sec, 25 sec*								
2	UZ_Ph2_3rd_NUV	(2) UZ-TAU-E	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1500; FP-POS=3; EXTENDED=NO			200 Secs *[==>]*	*[1]*
3	UZ_Ph2_3rd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*
4	UZ_Ph2_3rd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20100902
Unused Visibility = 9
Exp. 1
FS Acq
Exp. 2
Exp. 3
Exp. 4
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12161, Visit 12, scheduling Fri Mar 18 01:13:47 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 19.131 D AND ZERO-PHASE HJD2455613.644

Comments: UZ Tau, 3rd epoch, Phase 3

Diagnostics

(Visit 12) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	UZ-TAU-E	RA: 04 32 43.1410 (68.1797542d)	Proper Motion RA: 0.011104 sec of time/yr	V=14.99	Reference Frame: ICRS
	Alt Name1: HBC52	Dec: +25 52 30.63 (25.87518d)	Proper Motion Dec: -0.008423956 arcsec/yr	Galex NUV mag=16.4882	
	Alt Name2: UZ-TAU-A	Equinox: J2000	Epoch of Position: 2007.62		

*Comments: ****UPDATE*****
GSC2.3 coordinates are 04 32 42.9584; +25 52 31.33 (ICRS; 1994.78).
F555W coordinates are 42.996 ; 30.74 (J2000; 1994.562002)
F165LP coordinates are 43.141; 30.63 (J2000, 2007.62)

This implies that the pm values given in Ducourant are too small for RA and too large for Dec. From the F555W observations to the F165LP observations, the PM is 0.011104306 sec/yr; -0.008423956 asec/yr. I'll therefore use these values plus the 2007 coordinates.

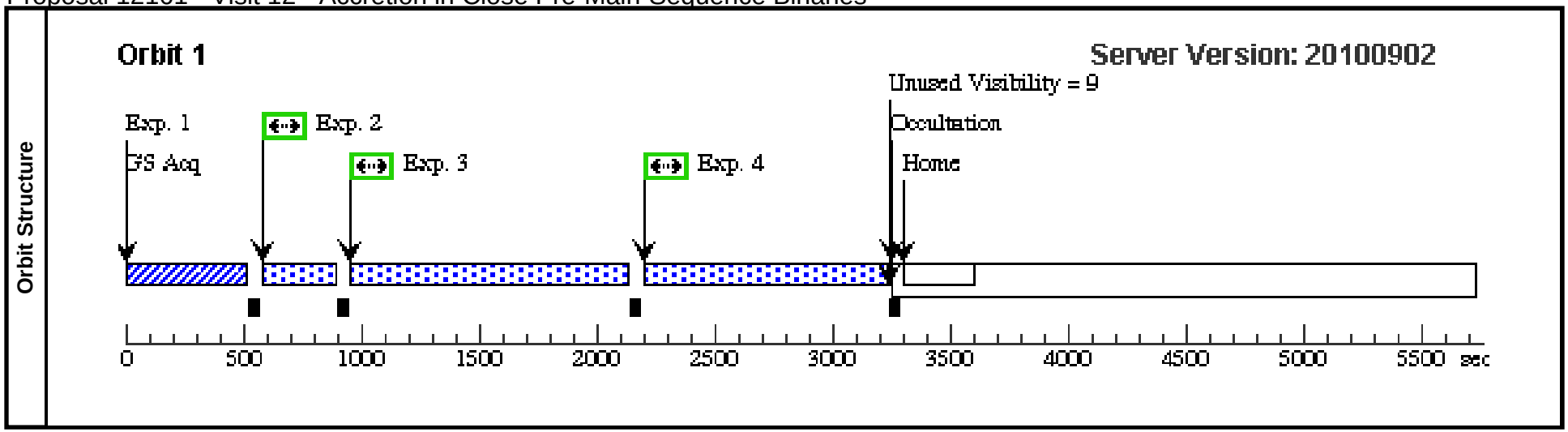
****
This object was generated by the targetselector and retrieved from the SIMBAD database.
Coordinates are ICRS from GSC2.3
Proper motion from Ducourant et al. 2005, reported error is 7 mas (per year????)

hstID: N9QK000016
Object is in Taurus: 140 pc

UZ Tau W is 3.7" away from UZ Tau E (Jensen et al. 2007), and it is itself a binary, with a separation of 0.359" (Ghez et al. 1995). UZ Tau W is classified as Class III by Hartmann 2002 (which probably refers to the combined system). Approx same brightness as E (from SIMBAD)

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	UZ ACQ/IMAGE ph3 3rd	(2) UZ-TAU-E	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.7 TO 0.75; GS ACQ SCENARIO BASE1B3		45 Secs *[==>]*	*[1]*
	Comments: Measured extinction is Av=1.5, E(B-V)=0.5. *GALEX gives E(b-V)=1.5, based on DIRBE maps* ++++++++++++++++++++++++++++ *total time: 9xexpo+* ++++++++++++++++++++++++++++++++ *With IUE data (Valenti et al. spectrum, with fluxes below 2000 A set to 0), S/N=40:* *Mirror A: brightest pix:115.7 cts/sec, 2 sec* *Mirror B: brightest pix: 5 cts/sec, 45 sec* ++++++++++++++++++++++++++++++++ *NUV=16.4882, S/N=40:* *MirrorA* *Flat continuum/no extinction: brightest pix is 148 cts/sec, 1.5 sec* *Flat continuum/extinction: brightest pix is 190 cts/sec, 1.2 sec* *MirrorB* *Flat continuum/no extinction: brightest pix is 7 cts/sec, 31 sec* *Flat continuum/extinction: brightest pix is 9 cts/sec, 25 sec*								
2	UZ_Ph3_3rd_NUV	(2) UZ-TAU-E	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=1500; FP-POS=3; EXTENDED=NO			200 Secs *[==>]*	*[1]*
3	UZ_Ph3_3rd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*
4	UZ_Ph3_3rd_FUV	(2) UZ-TAU-E	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH			972 Secs *[==>]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20100902
Unused Visibility = 9
Exp. 1
FS Acq
Exp. 2
Exp. 3
Exp. 4
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 12161 - Visit 13 - Accretion in Close Pre-Main-Sequence Binaries

Visit

Proposal 12161, Visit 13, completed Fri Mar 18 01:13:47 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: BETWEEN 10-FEB-2011:00:00:01 AND 12-FEB-2011:00:00:01; Period 15.8043 D AND ZERO-PHASE HJD2455588.1957; SEQ 13,14,15,16,17,18,19,20,21,22,23,24 WITHIN 70 D

Comments: DQ Tau, 1st epoch, Phase 0

Diagnostics

(Visit 13) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	DQ-TAU	RA: 04 46 53.0585 (71.7210771d)	Proper Motion RA: 3.7 mas/yr	V=13.66	Reference Frame: ICRS
	Alt Name1: HBC-72	Dec: +17 00 0.22 (17.00006d)	Proper Motion Dec: -16.8 mas/yr	U=15.54 (Kenyon & Hartmann 1995)	
		Equinox: J2000	Epoch of Position: 1991.7900390625		

*Comments: *****UPDATE******
I have checked against F330W (2003.994) observations in the archive. Comparing the GSC2.3 (1991.79) coordinates to the F330W, I get the following proper motion: -39.94e-3 asec/yr, -18.0e-3 asec/yr. The predicted proper coords at 2011.17 are 53.0 sec, 59'59.87".
So, even though the real proper motion in RA is very different, it is still very little difference.

****

Coordinates are ICRS from GSCR2.3 (http://gsss.stsci.edu/webservices/GSC2/GSC2WebForm.aspx)
Proper motion from Ducourant et al. 2006. Ducourant et al 2005 gives pm 0,-6
hstID: NA9F000083
Object is in Taurus: 140 pc

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	DQ ACQ/IMAGE	(1) DQ-TAU	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0 TO 0.05		150 Secs *[==>]*	 ***[1]***

Comments: MirrorB -
With median U-band (15.7 - 2.21469e-15), one gets 180 sec (1.2 cts/sec)
COS.A370297
****
Mirror A
With U=15.54 mag source and Flam propto lam, one gets 48 cts/sec in the brightest pixel. t=4.6 sec.
For Flam propto lam^3 (like what works in UZ TauE), one gets 23 cts/sec in the brightest pixel. t=10 sec.

*Note that the U mag corresponds to (at 3600 A): 1810*10^(-0.4*15.54) Jy = 1810 * 10^(-0.4*15.54) * 1e-23 erg sec^-1 cm^-2 Hz^-1 = 1810 * 10^(-0.4*15.54) * 1e-23 * (3e18/3600^2) erg sec^-1 cm^-2 A^-1 = 2.5e-15 erg sec-1 cm-2 A-1*

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
2	DQ_Ph0_1st_NUV_fp_3	(1) DQ-TAU	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=2000; FP-POS=3; EXTENDED=NO			192 Secs *[==>]*	 ***[1]***

Comments: In 100 sec, with median 2.2e-15 flux at 3600A produces s/n=6. Buffer time 6500 sec.
COS.A370300

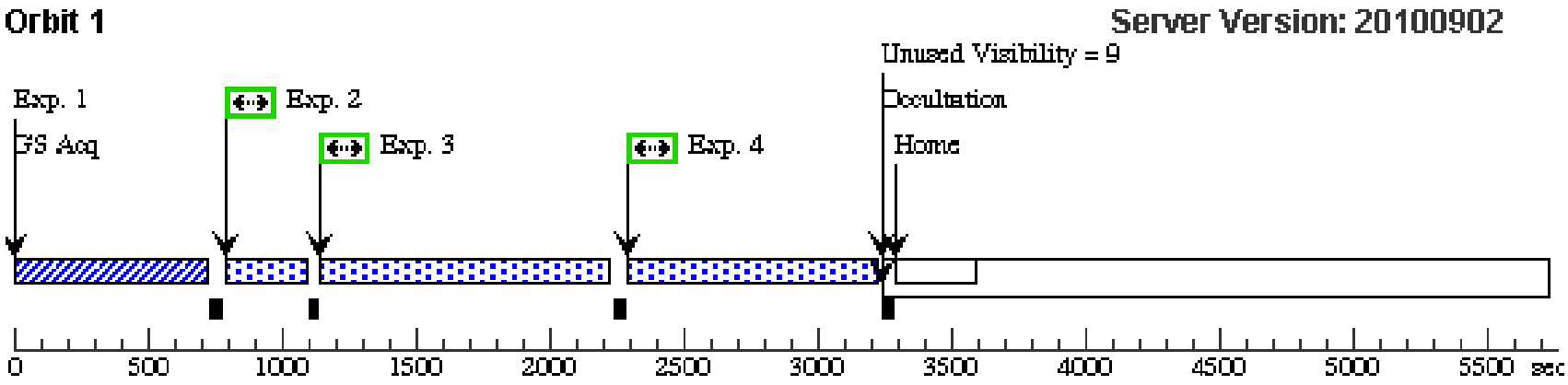
With the max flux, the buffer time is 3900 sec. COS.A370301
****
Ake et al. 2010 recommends separation FP-POS=1 and 4, which is 150 pix.
Buffer time is ~6000 sec.

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
3	DQ_Ph0_1st_FUV_fp_3	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH			872 Secs *[==>]*	 ***[1]***

Comments: COS.A370303
1000 sec: S/N=12, for 1.4e-14 in line at 1550A
Buffer time=30000

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
4	DQ_Ph0_1st_FUV_fp_4	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH			872 Secs *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 12161, Visit 14, completed Fri Mar 18 01:13:47 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 15.8043 D AND ZERO-PHASE HJD2455604.0

Comments: DQ Tau, 1st epoch, Phase 1

Diagnostics

(Visit 14) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	DQ-TAU	RA: 04 46 53.0585 (71.7210771d)	Proper Motion RA: 3.7 mas/yr	V=13.66	Reference Frame: ICRS
	Alt Name1: HBC-72	Dec: +17 00 0.22 (17.00006d)	Proper Motion Dec: -16.8 mas/yr	U=15.54 (Kenyon & Hartmann 1995)	
		Equinox: J2000	Epoch of Position: 1991.7900390625		

*Comments: *****UPDATE******
I have checked against F330W (2003.994) observations in the archive. Comparing the GSC2.3 (1991.79) coordinates to the F330W, I get the following proper motion: -39.94e-3 asec/yr, -18.0e-3 asec/yr. The predicted proper coords at 2011.17 are 53.0 sec, 59'59.87".
So, even though the real proper motion in RA is very different, it is still very little difference.

****

Coordinates are ICRS from GSCR2.3 (http://gsss.stsci.edu/webservices/GSC2/GSC2WebForm.aspx)
Proper motion from Ducourant et al. 2006. Ducourant et al 2005 gives pm 0,-6
hstID: NA9F000083
Object is in Taurus: 140 pc

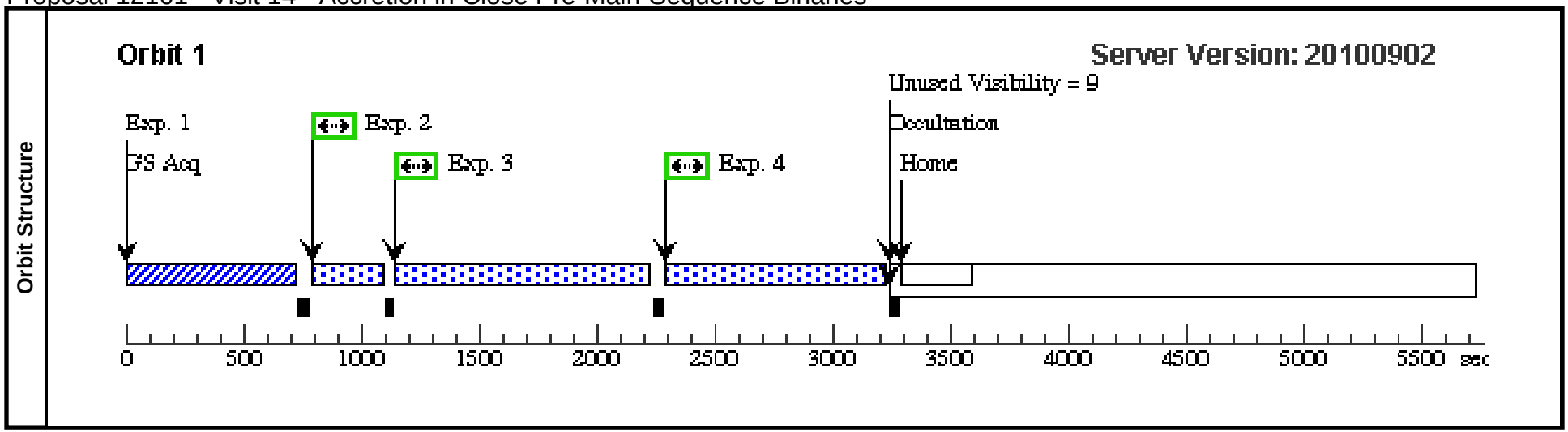
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	DQ ACQ/IMAGE	(1) DQ-TAU	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.2 TO 0.25		150 Secs	
								[==>]	***[1]***

Comments: Mirror A
With U=15.54 mag source and Flam propto lam, one gets 48 cts/sec in the brightest pixel. t=4.6 sec.
For Flam propto lam^3 (like what works in UZ TauE), one gets 23 cts/sec in the brightest pixel. t=10 sec.

*Note that the U mag corresponds to (at 3600 A): 1810*10^(-0.4*15.54) Jy = 1810 * 10^(-0.4*15.54) * 1e-23 erg sec^-1 cm^-2 Hz^-1 = 1810 * 10^(-0.4*15.54) * 1e-23 * (3e18/3600^2) erg sec^-1 cm^-2 A^-1 = 2.5e-15 erg sec-1 cm-2 A-1*

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Exp. Time/[Actual Dur.]	Orbit
2	DQ_Ph1_1st_NUV_fp_3	(1) DQ-TAU	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FLASH=YES; BUFFER-TIME=2000; FP-POS=3; EXTENDED=NO	192 Secs	
						[==>]	***[1]***
3	DQ_Ph1_1st_FUV_fp_3	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=3; SEGMENT=BOTH	872 Secs	
						[==>]	***[1]***
4	DQ_Ph1_1st_FUV_fp_4	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FLASH=YES; BUFFER-TIME=3000; EXTENDED=NO; FP-POS=4; SEGMENT=BOTH	872 Secs	
						[==>]	***[1]***


Orbit Structure
Orbit 1
Server Version: 20100902
Unused Visibility = 9
Exp. 1
FS Acq
Exp. 2
Exp. 3
Exp. 4
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12161, Visit 15, completed Fri Mar 18 01:13:48 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 15.8043 D AND ZERO-PHASE HJD2455604.0

Comments: DQ Tau, 1st epoch, Phase 2

Diagnostics

(Visit 15) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	DQ-TAU	RA: 04 46 53.0585 (71.7210771d)	Proper Motion RA: 3.7 mas/yr	V=13.66	Reference Frame: ICRS
	Alt Name1: HBC-72	Dec: +17 00 0.22 (17.00006d)	Proper Motion Dec: -16.8 mas/yr	U=15.54 (Kenyon & Hartmann 1995)	
		Equinox: J2000	Epoch of Position: 1991.7900390625		

*Comments: *****UPDATE******
I have checked against F330W (2003.994) observations in the archive. Comparing the GSC2.3 (1991.79) coordinates to the F330W, I get the following proper motion: -39.94e-3 asec/yr, -18.0e-3 asec/yr. The predicted proper coords at 2011.17 are 53.0 sec, 59'59.87".
So, even though the real proper motion in RA is very different, it is still very little difference.

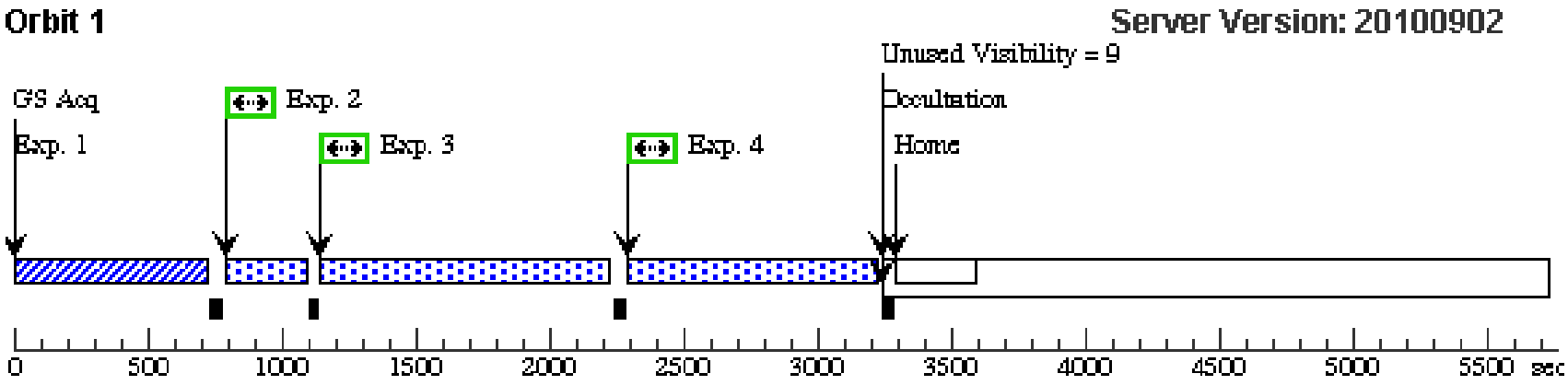
****

Coordinates are ICRS from GSCR2.3 (http://gsss.stsci.edu/webservices/GSC2/GSC2WebForm.aspx)
Proper motion from Ducourant et al. 2006. Ducourant et al 2005 gives pm 0,-6
hstID: NA9F000083
Object is in Taurus: 140 pc

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	DQ ACQ/IMAGE	(1) DQ-TAU	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.5 TO 0.55		150 Secs	
								[==>]	***[1]***
2	DQ_Ph2_1st_NUV_fp_3	(1) DQ-TAU	COS/NUV, TIME-TAG, PSA	G230L	FLASH=YES;			192 Secs	
				2950 A	BUFFER-TIME=2000;			*[==>]*	***[1]***
					FP-POS=3;				
					EXTENDED=NO				
3	DQ_Ph2_1st_FUV_fp_3	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=3;				
					SEGMENT=BOTH				
4	DQ_Ph2_1st_FUV_fp_4	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=4;				
					SEGMENT=BOTH				

Orbit Structure



Visit

Proposal 12161, Visit 16, completed Fri Mar 18 01:13:48 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 15.8043 D AND ZERO-PHASE HJD2455604.0

Comments: DQ Tau, 1st epoch, Phase 3

Diagnostics

(Visit 16) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	DQ-TAU	RA: 04 46 53.0585 (71.7210771d)	Proper Motion RA: 3.7 mas/yr	V=13.66	Reference Frame: ICRS
	Alt Name1: HBC-72	Dec: +17 00 0.22 (17.00006d)	Proper Motion Dec: -16.8 mas/yr	U=15.54 (Kenyon & Hartmann 1995)	
		Equinox: J2000	Epoch of Position: 1991.7900390625		

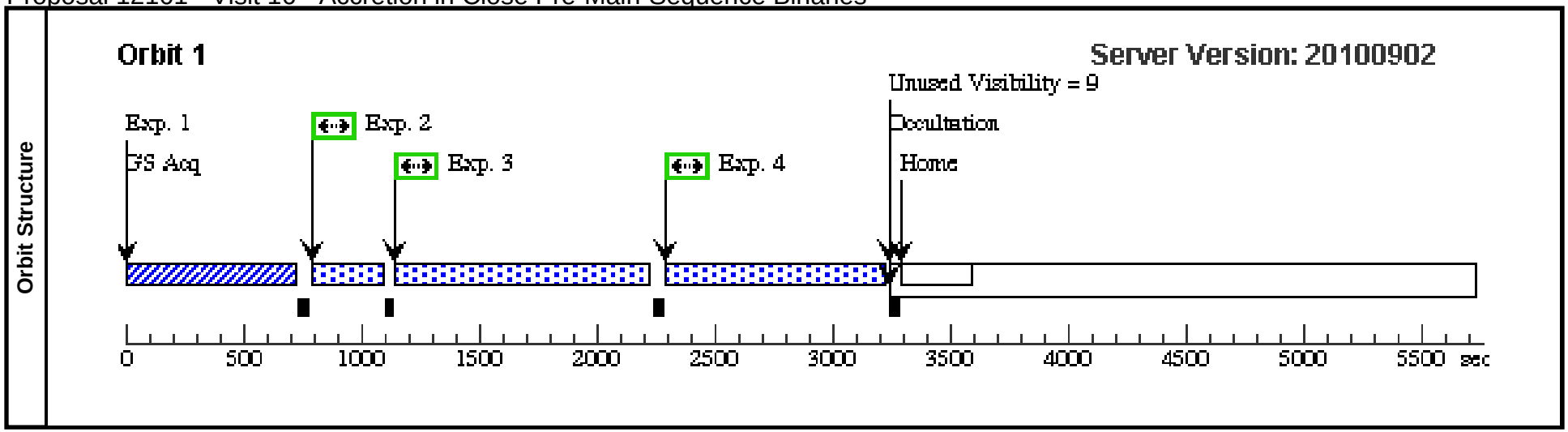
*Comments: *****UPDATE******
I have checked against F330W (2003.994) observations in the archive. Comparing the GSC2.3 (1991.79) coordinates to the F330W, I get the following proper motion: -39.94e-3 asec/yr, -18.0e-3 asec/yr. The predicted proper coords at 2011.17 are 53.0 sec, 59'59.87".
So, even though the real proper motion in RA is very different, it is still very little difference.

****

Coordinates are ICRS from GSCR2.3 (http://gsss.stsci.edu/webservices/GSC2/GSC2WebForm.aspx)
Proper motion from Ducourant et al. 2006. Ducourant et al 2005 gives pm 0,-6
hstID: NA9F000083
Object is in Taurus: 140 pc

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	DQ ACQ/IMAGE	(1) DQ-TAU	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.7 TO 0.75		150 Secs	
								[==>]	***[1]***
2	DQ_Ph3_1st_NUV_fp_3	(1) DQ-TAU	COS/NUV, TIME-TAG, PSA	G230L	FLASH=YES;			192 Secs	
				2950 A	BUFFER-TIME=2000;			*[==>]*	***[1]***
					FP-POS=3;				
					EXTENDED=NO				
3	DQ_Ph3_1st_FUV_fp_3	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=3;				
					SEGMENT=BOTH				
4	DQ_Ph3_1st_FUV_fp_4	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=4;				
					SEGMENT=BOTH				


Orbit Structure
Orbit 1
Server Version: 20100902
Unused Visibility = 9
Exp. 1
FS Acq
Exp. 2
Exp. 3
Exp. 4
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12161, Visit 17, completed Fri Mar 18 01:13:48 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 15.8043 D AND ZERO-PHASE HJD2455604.0

Comments: DQ Tau, 2nd epoch, Phase 0

Diagnostics

(Visit 17) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	DQ-TAU	RA: 04 46 53.0585 (71.7210771d)	Proper Motion RA: 3.7 mas/yr	V=13.66	Reference Frame: ICRS
	Alt Name1: HBC-72	Dec: +17 00 0.22 (17.00006d)	Proper Motion Dec: -16.8 mas/yr	U=15.54 (Kenyon & Hartmann 1995)	
		Equinox: J2000	Epoch of Position: 1991.7900390625		

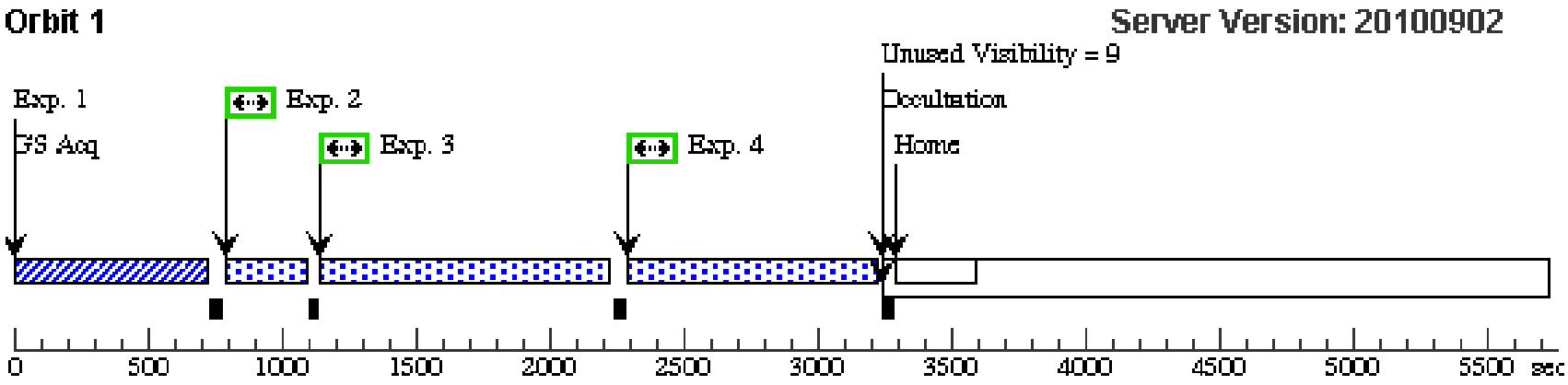
*Comments: *****UPDATE******
I have checked against F330W (2003.994) observations in the archive. Comparing the GSC2.3 (1991.79) coordinates to the F330W, I get the following proper motion: -39.94e-3 asec/yr, -18.0e-3 asec/yr. The predicted proper coords at 2011.17 are 53.0 sec, 59'59.87".
So, even though the real proper motion in RA is very different, it is still very little difference.

****
Coordinates are ICRS from GSCR2.3 (http://gsss.stsci.edu/webservices/GSC2/GSC2WebForm.aspx)
Proper motion from Ducourant et al. 2006. Ducourant et al 2005 gives pm 0,-6
hstID: NA9F000083
Object is in Taurus: 140 pc

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	DQ ACQ/IMAGE	(1) DQ-TAU	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0 TO 0.05		150 Secs	
								[==>]	***[1]***
2	DQ_Ph0_2nd_NUV_fp_3	(1) DQ-TAU	COS/NUV, TIME-TAG, PSA	G230L	FLASH=YES;			192 Secs	
				2950 A	BUFFER-TIME=2000;			*[==>]*	***[1]***
					FP-POS=3;				
					EXTENDED=NO				
3	DQ_Ph0_2nd_FUV_fp_3	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=3;				
					SEGMENT=BOTH				
4	DQ_Ph0_2nd_FUV_fp_4	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=4;				
					SEGMENT=BOTH				

Orbit Structure



Visit

Proposal 12161, Visit 18, completed Fri Mar 18 01:13:48 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 15.8043 D AND ZERO-PHASE HJD2455604.0

Comments: DQ Tau, 2nd epoch, Phase 1

Diagnostics

(Visit 18) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	DQ-TAU	RA: 04 46 53.0585 (71.7210771d)	Proper Motion RA: 3.7 mas/yr	V=13.66	Reference Frame: ICRS
	Alt Name1: HBC-72	Dec: +17 00 0.22 (17.00006d)	Proper Motion Dec: -16.8 mas/yr	U=15.54 (Kenyon & Hartmann 1995)	
		Equinox: J2000	Epoch of Position: 1991.7900390625		

*Comments: *****UPDATE******
I have checked against F330W (2003.994) observations in the archive. Comparing the GSC2.3 (1991.79) coordinates to the F330W, I get the following proper motion: -39.94e-3 asec/yr, -18.0e-3 asec/yr. The predicted proper coords at 2011.17 are 53.0 sec, 59'59.87".
So, even though the real proper motion in RA is very different, it is still very little difference.

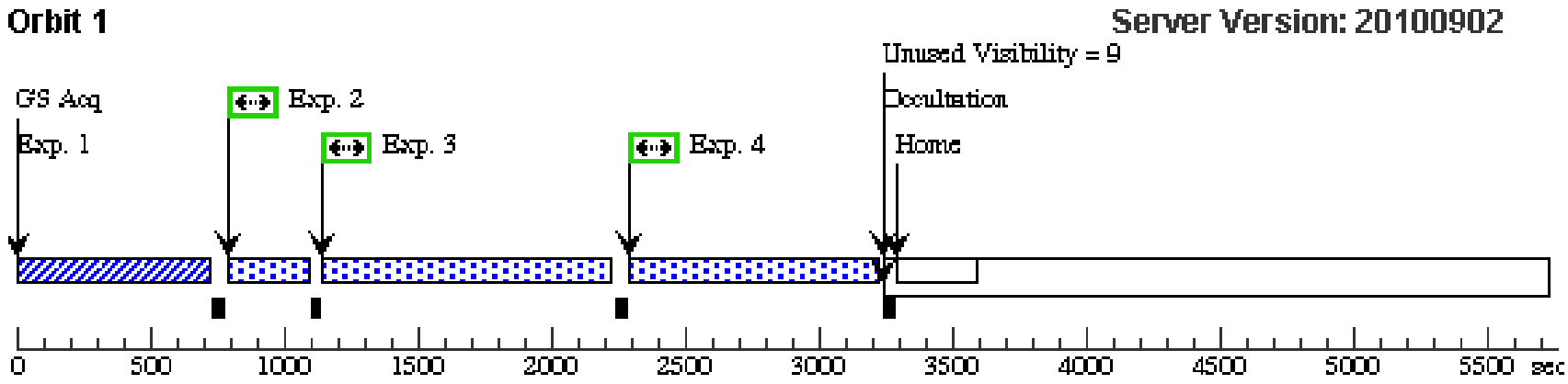
****

Coordinates are ICRS from GSCR2.3 (http://gsss.stsci.edu/webservices/GSC2/GSC2WebForm.aspx)
Proper motion from Ducourant et al. 2006. Ducourant et al 2005 gives pm 0,-6
hstID: NA9F000083
Object is in Taurus: 140 pc

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	DQ ACQ/IMAGE	(1) DQ-TAU	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.2 TO 0.25		150 Secs	
								[==>]	***[1]***
2	DQ_Ph1_2nd_NUV_fp_3	(1) DQ-TAU	COS/NUV, TIME-TAG, PSA	G230L	FLASH=YES;			192 Secs	
				2950 A	BUFFER-TIME=2000;			*[==>]*	***[1]***
					FP-POS=3;				
					EXTENDED=NO				
3	DQ_Ph1_2nd_FUV_fp_3	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=3;				
					SEGMENT=BOTH				
4	DQ_Ph1_2nd_FUV_fp_4	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=4;				
					SEGMENT=BOTH				

Orbit Structure



Visit

Proposal 12161, Visit 19, completed Fri Mar 18 01:13:48 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 15.8043 D AND ZERO-PHASE HJD2455604.0

Comments: DQ Tau, 2nd epoch, Phase 2

Diagnostics

(Visit 19) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	DQ-TAU	RA: 04 46 53.0585 (71.7210771d)	Proper Motion RA: 3.7 mas/yr	V=13.66	Reference Frame: ICRS
	Alt Name1: HBC-72	Dec: +17 00 0.22 (17.00006d)	Proper Motion Dec: -16.8 mas/yr	U=15.54 (Kenyon & Hartmann 1995)	
		Equinox: J2000	Epoch of Position: 1991.7900390625		

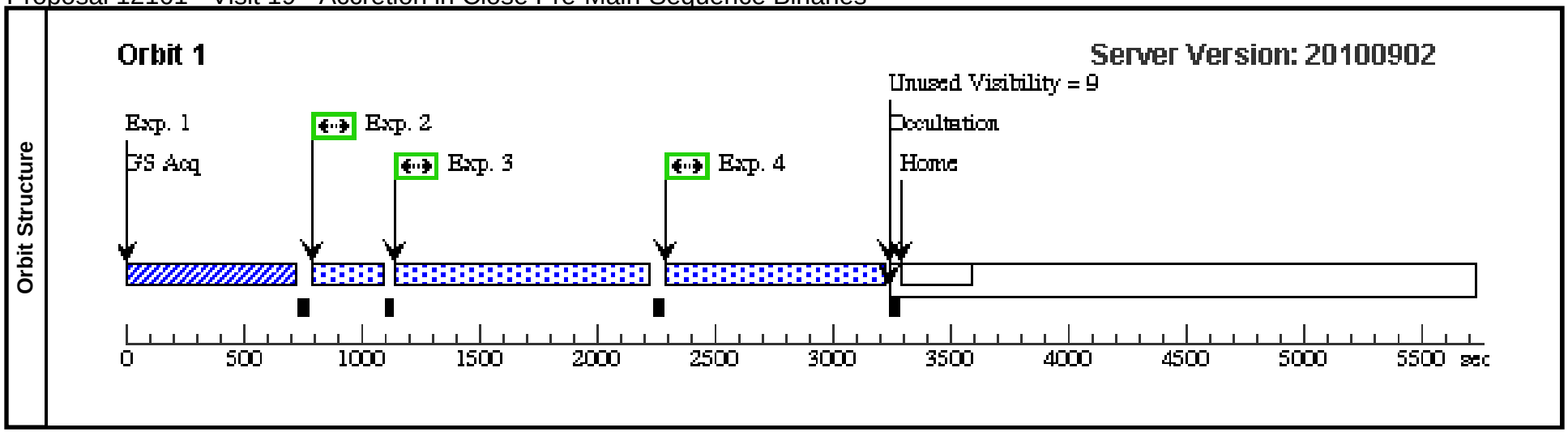
*Comments: *****UPDATE******
I have checked against F330W (2003.994) observations in the archive. Comparing the GSC2.3 (1991.79) coordinates to the F330W, I get the following proper motion: -39.94e-3 asec/yr, -18.0e-3 asec/yr. The predicted proper coords at 2011.17 are 53.0 sec, 59'59.87".
So, even though the real proper motion in RA is very different, it is still very little difference.

****

Coordinates are ICRS from GSCR2.3 (http://gsss.stsci.edu/webservices/GSC2/GSC2WebForm.aspx)
Proper motion from Ducourant et al. 2006. Ducourant et al 2005 gives pm 0,-6
hstID: NA9F000083
Object is in Taurus: 140 pc

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	DQ ACQ/IMAGE	(1) DQ-TAU	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.5 TO 0.55		150 Secs	
								[==>]	***[1]***
2	DQ_Ph2_2nd_NUV_fp_3	(1) DQ-TAU	COS/NUV, TIME-TAG, PSA	G230L	FLASH=YES;			192 Secs	
				2950 A	BUFFER-TIME=2000;			*[==>]*	***[1]***
					FP-POS=3;				
					EXTENDED=NO				
3	DQ_Ph2_2nd_FUV_fp_3	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=3;				
					SEGMENT=BOTH				
4	DQ_Ph2_2nd_FUV_fp_4	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=4;				
					SEGMENT=BOTH				


Orbit Structure
Orbit 1
Server Version: 20100902
Unused Visibility = 9
Exp. 1
FS Acq
Exp. 2
Exp. 3
Exp. 4
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12161, Visit 20, completed Fri Mar 18 01:13:49 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 15.8043 D AND ZERO-PHASE HJD2455604.0

Comments: DQ Tau, 2nd epoch, Phase 3

Diagnostics

(Visit 20) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	DQ-TAU	RA: 04 46 53.0585 (71.7210771d)	Proper Motion RA: 3.7 mas/yr	V=13.66	Reference Frame: ICRS
	Alt Name1: HBC-72	Dec: +17 00 0.22 (17.00006d)	Proper Motion Dec: -16.8 mas/yr	U=15.54 (Kenyon & Hartmann 1995)	
		Equinox: J2000	Epoch of Position: 1991.7900390625		

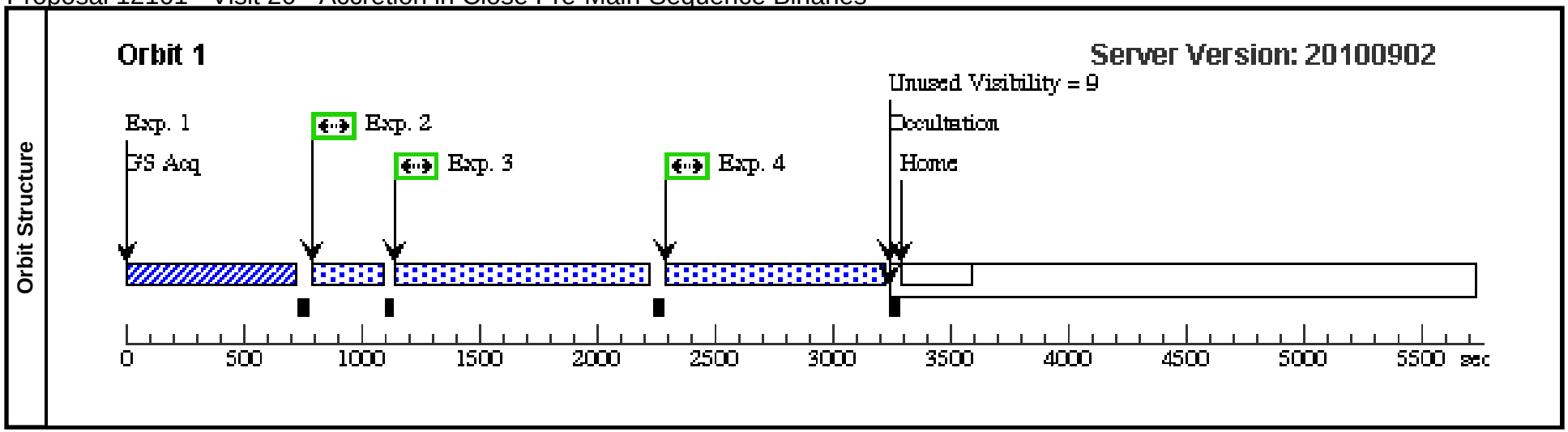
*Comments: *****UPDATE******
I have checked against F330W (2003.994) observations in the archive. Comparing the GSC2.3 (1991.79) coordinates to the F330W, I get the following proper motion: -39.94e-3 asec/yr, -18.0e-3 asec/yr. The predicted proper coords at 2011.17 are 53.0 sec, 59'59.87".
So, even though the real proper motion in RA is very different, it is still very little difference.

****

Coordinates are ICRS from GSCR2.3 (http://gsss.stsci.edu/webservices/GSC2/GSC2WebForm.aspx)
Proper motion from Ducourant et al. 2006. Ducourant et al 2005 gives pm 0,-6
hstID: NA9F000083
Object is in Taurus: 140 pc

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	DQ ACQ/IMAGE	(1) DQ-TAU	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.7 TO 0.75		150 Secs	
								[==>]	***[1]***
2	DQ_Ph3_2nd_NUV_fp_3	(1) DQ-TAU	COS/NUV, TIME-TAG, PSA	G230L	FLASH=YES;			192 Secs	
				2950 A	BUFFER-TIME=2000;			*[==>]*	***[1]***
					FP-POS=3;				
					EXTENDED=NO				
3	DQ_Ph3_2nd_FUV_fp_3	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=3;				
					SEGMENT=BOTH				
4	DQ_Ph3_2nd_FUV_fp_4	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=4;				
					SEGMENT=BOTH				


Orbit Structure
Orbit 1
Server Version: 20100902
Unused Visibility = 9
Exp. 1
FS Acq
Exp. 2
Exp. 3
Exp. 4
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12161, Visit 21, scheduling Fri Mar 18 01:13:49 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 15.8043 D AND ZERO-PHASE HJD2455604.0

Comments: DQ Tau, 3rd epoch, Phase 0

Diagnostics

(Visit 21) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	DQ-TAU	RA: 04 46 53.0585 (71.7210771d)	Proper Motion RA: 3.7 mas/yr	V=13.66	Reference Frame: ICRS
	Alt Name1: HBC-72	Dec: +17 00 0.22 (17.00006d)	Proper Motion Dec: -16.8 mas/yr	U=15.54 (Kenyon & Hartmann 1995)	
		Equinox: J2000	Epoch of Position: 1991.7900390625		

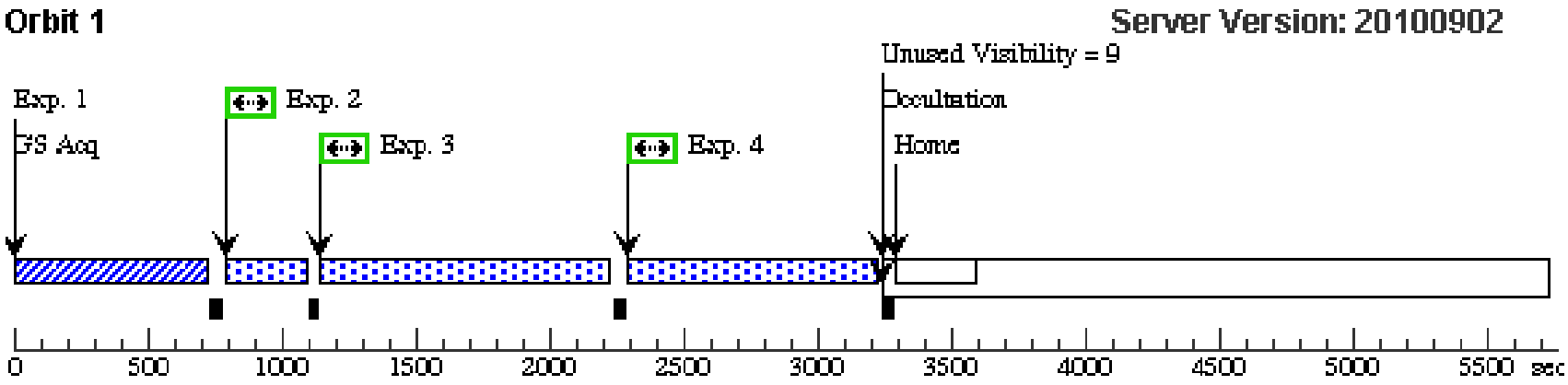
*Comments: *****UPDATE******
I have checked against F330W (2003.994) observations in the archive. Comparing the GSC2.3 (1991.79) coordinates to the F330W, I get the following proper motion: -39.94e-3 asec/yr, -18.0e-3 asec/yr. The predicted proper coords at 2011.17 are 53.0 sec, 59'59.87".
So, even though the real proper motion in RA is very different, it is still very little difference.

****
Coordinates are ICRS from GSCR2.3 (http://gsss.stsci.edu/webservices/GSC2/GSC2WebForm.aspx)
Proper motion from Ducourant et al. 2006. Ducourant et al 2005 gives pm 0,-6
hstID: NA9F000083
Object is in Taurus: 140 pc

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	DQ ACQ/IMAGE	(1) DQ-TAU	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0 TO 0.05		150 Secs	
								[==>]	***[1]***
2	DQ_Ph0_3rd_NUV_fp_3	(1) DQ-TAU	COS/NUV, TIME-TAG, PSA	G230L	FLASH=YES;			192 Secs	
				2950 A	BUFFER-TIME=2000;			*[==>]*	***[1]***
					FP-POS=3;				
					EXTENDED=NO				
3	DQ_Ph0_3rd_FUV_fp_3	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=3;				
					SEGMENT=BOTH				
4	DQ_Ph0_3rd_FUV_fp_4	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=4;				
					SEGMENT=BOTH				

Orbit Structure



Visit

Proposal 12161, Visit 22, scheduling Fri Mar 18 01:13:49 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 15.8043 D AND ZERO-PHASE HJD2455604.0

Comments: DQ Tau, 3rd epoch, Phase 1

Diagnostics

(Visit 22) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	DQ-TAU	RA: 04 46 53.0585 (71.7210771d)	Proper Motion RA: 3.7 mas/yr	V=13.66	Reference Frame: ICRS
	Alt Name1: HBC-72	Dec: +17 00 0.22 (17.00006d)	Proper Motion Dec: -16.8 mas/yr	U=15.54 (Kenyon & Hartmann 1995)	
		Equinox: J2000	Epoch of Position: 1991.7900390625		

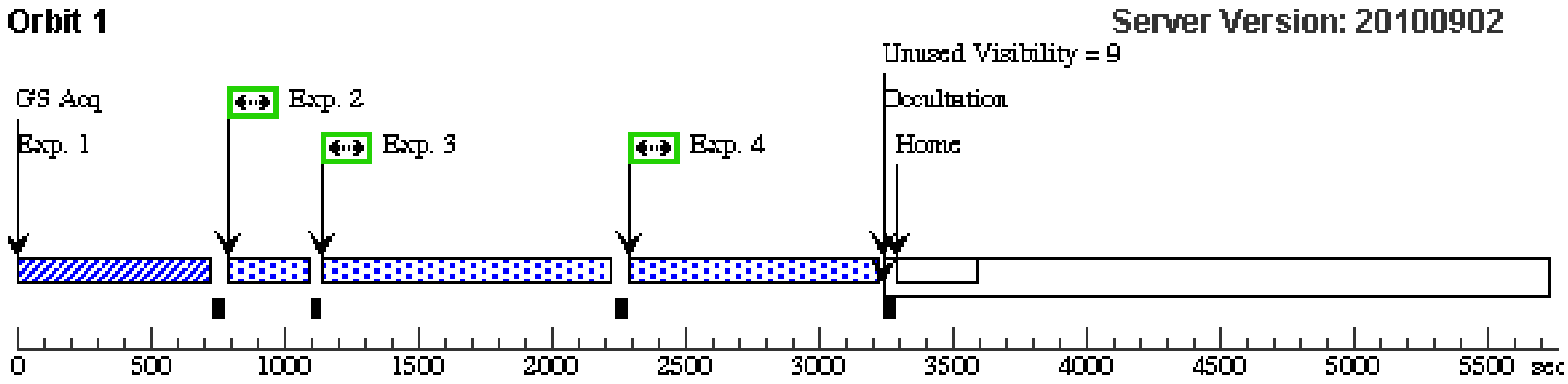
*Comments: *****UPDATE******
I have checked against F330W (2003.994) observations in the archive. Comparing the GSC2.3 (1991.79) coordinates to the F330W, I get the following proper motion: -39.94e-3 asec/yr, -18.0e-3 asec/yr. The predicted proper coords at 2011.17 are 53.0 sec, 59'59.87".
So, even though the real proper motion in RA is very different, it is still very little difference.

****
Coordinates are ICRS from GSCR2.3 (http://gsss.stsci.edu/webservices/GSC2/GSC2WebForm.aspx)
Proper motion from Ducourant et al. 2006. Ducourant et al 2005 gives pm 0,-6
hstID: NA9F000083
Object is in Taurus: 140 pc

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	DQ ACQ/IMAGE	(1) DQ-TAU	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.2 TO 0.25		150 Secs	
								[==>]	***[1]***
2	DQ_Ph1_3rd_NUV_fp_3	(1) DQ-TAU	COS/NUV, TIME-TAG, PSA	G230L	FLASH=YES;			192 Secs	
				2950 A	BUFFER-TIME=2000;			*[==>]*	***[1]***
					FP-POS=3;				
					EXTENDED=NO				
3	DQ_Ph1_3rd_FUV_fp_3	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=3;				
					SEGMENT=BOTH				
4	DQ_Ph1_3rd_FUV_fp_4	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=4;				
					SEGMENT=BOTH				

Orbit Structure



Visit

Proposal 12161, Visit 23, scheduling Fri Mar 18 01:13:50 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 15.8043 D AND ZERO-PHASE HJD2455604.0

Comments: DQ Tau, 3rd epoch, Phase 2

Diagnostics

(Visit 23) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

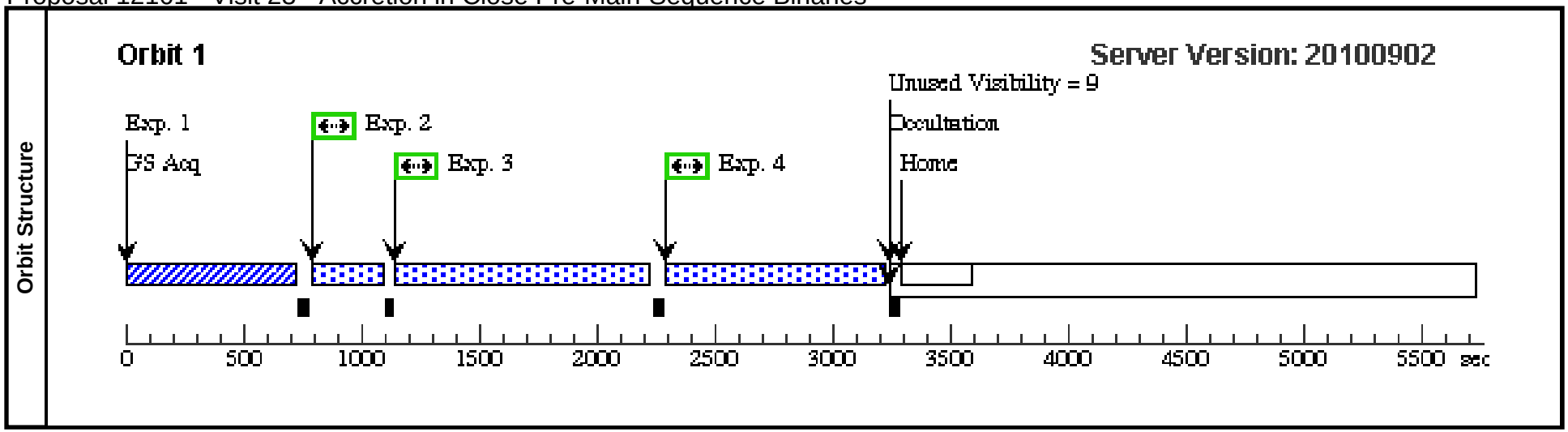
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	DQ-TAU	RA: 04 46 53.0585 (71.7210771d)	Proper Motion RA: 3.7 mas/yr	V=13.66	Reference Frame: ICRS
	Alt Name1: HBC-72	Dec: +17 00 0.22 (17.00006d)	Proper Motion Dec: -16.8 mas/yr	U=15.54 (Kenyon & Hartmann 1995)	
		Equinox: J2000	Epoch of Position: 1991.7900390625		

*Comments: *****UPDATE******
I have checked against F330W (2003.994) observations in the archive. Comparing the GSC2.3 (1991.79) coordinates to the F330W, I get the following proper motion: -39.94e-3 asec/yr, -18.0e-3 asec/yr. The predicted proper coords at 2011.17 are 53.0 sec, 59'59.87".
So, even though the real proper motion in RA is very different, it is still very little difference.

****
Coordinates are ICRS from GSCR2.3 (http://gsss.stsci.edu/webservices/GSC2/GSC2WebForm.aspx)
Proper motion from Ducourant et al. 2006. Ducourant et al 2005 gives pm 0,-6
hstID: NA9F000083
Object is in Taurus: 140 pc

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	DQ ACQ/IMAGE	(1) DQ-TAU	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.5 TO 0.55		150 Secs	
								[==>]	***[1]***
2	DQ_Ph2_3rd_NUV_fp_3	(1) DQ-TAU	COS/NUV, TIME-TAG, PSA	G230L	FLASH=YES;			192 Secs	
				2950 A	BUFFER-TIME=2000;			*[==>]*	***[1]***
					FP-POS=3;				
					EXTENDED=NO				
3	DQ_Ph2_3rd_FUV_fp_3	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=3;				
					SEGMENT=BOTH				
4	DQ_Ph0_1st_FUV_fp_4	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=4;				
					SEGMENT=BOTH				


Orbit Structure
Orbit 1
Server Version: 20100902
Unused Visibility = 9
Exp. 1
FS Acq
Exp. 2
Exp. 3
Exp. 4
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12161, Visit 24, scheduling Fri Mar 18 01:13:50 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: AFTER 01-JAN-2011:00:00:01; Period 15.8043 D AND ZERO-PHASE HJD2455604.0

Comments: DQ Tau, 3rd epoch, Phase 3

Diagnostics

(Visit 24) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

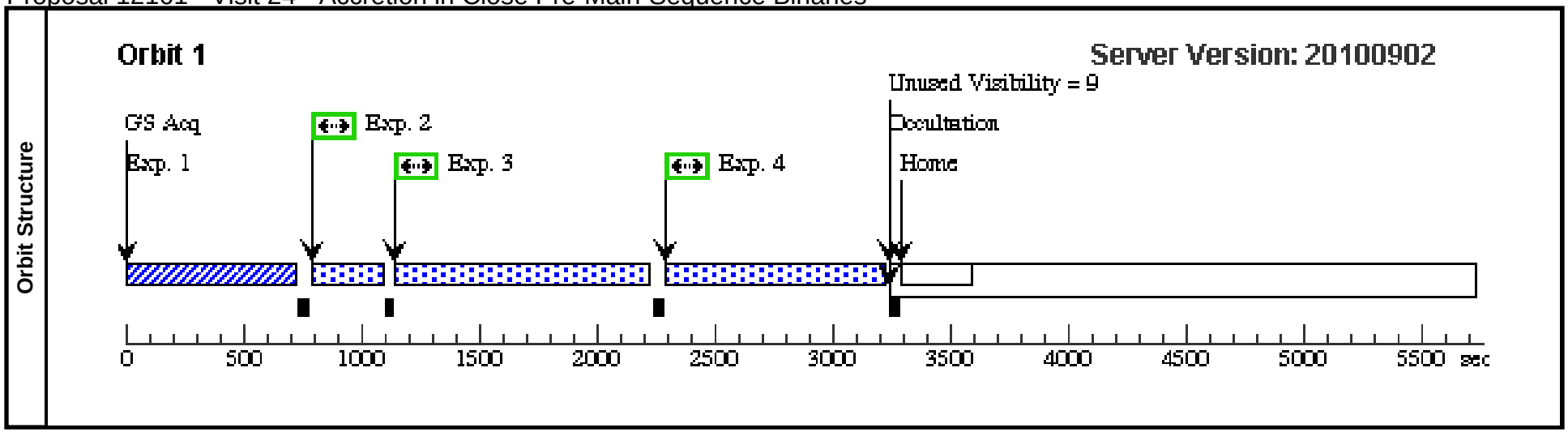
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	DQ-TAU	RA: 04 46 53.0585 (71.7210771d)	Proper Motion RA: 3.7 mas/yr	V=13.66	Reference Frame: ICRS
	Alt Name1: HBC-72	Dec: +17 00 0.22 (17.00006d)	Proper Motion Dec: -16.8 mas/yr	U=15.54 (Kenyon & Hartmann 1995)	
		Equinox: J2000	Epoch of Position: 1991.7900390625		

*Comments: *****UPDATE******
I have checked against F330W (2003.994) observations in the archive. Comparing the GSC2.3 (1991.79) coordinates to the F330W, I get the following proper motion: -39.94e-3 asec/yr, -18.0e-3 asec/yr. The predicted proper coords at 2011.17 are 53.0 sec, 59'59.87".
So, even though the real proper motion in RA is very different, it is still very little difference.

****
Coordinates are ICRS from GSCR2.3 (http://gsss.stsci.edu/webservices/GSC2/GSC2WebForm.aspx)
Proper motion from Ducourant et al. 2006. Ducourant et al 2005 gives pm 0,-6
hstID: NA9F000083
Object is in Taurus: 140 pc

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	DQ ACQ/IMAGE	(1) DQ-TAU	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		PHASE 0.7 TO 0.75		150 Secs	
								[==>]	***[1]***
2	DQ_Ph3_3rd_NUV_fp_3	(1) DQ-TAU	COS/NUV, TIME-TAG, PSA	G230L	FLASH=YES;			192 Secs	
				2950 A	BUFFER-TIME=2000;			*[==>]*	***[1]***
					FP-POS=3;				
					EXTENDED=NO				
3	DQ_Ph3_3rd_FUV_fp_3	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=3;				
					SEGMENT=BOTH				
4	DQ_Ph3_3rd_FUV_fp_4	(1) DQ-TAU	COS/FUV, TIME-TAG, PSA	G160M	FLASH=YES;			872 Secs	
				1577 A	BUFFER-TIME=3000;			*[==>]*	***[1]***
					EXTENDED=NO;				
					FP-POS=4;				
					SEGMENT=BOTH				


Orbit Structure
Orbit 1
Server Version: 20100902
Unused Visibility = 9
GS Acq
Exp. 1
Exp. 2
Exp. 3
Exp. 4
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec