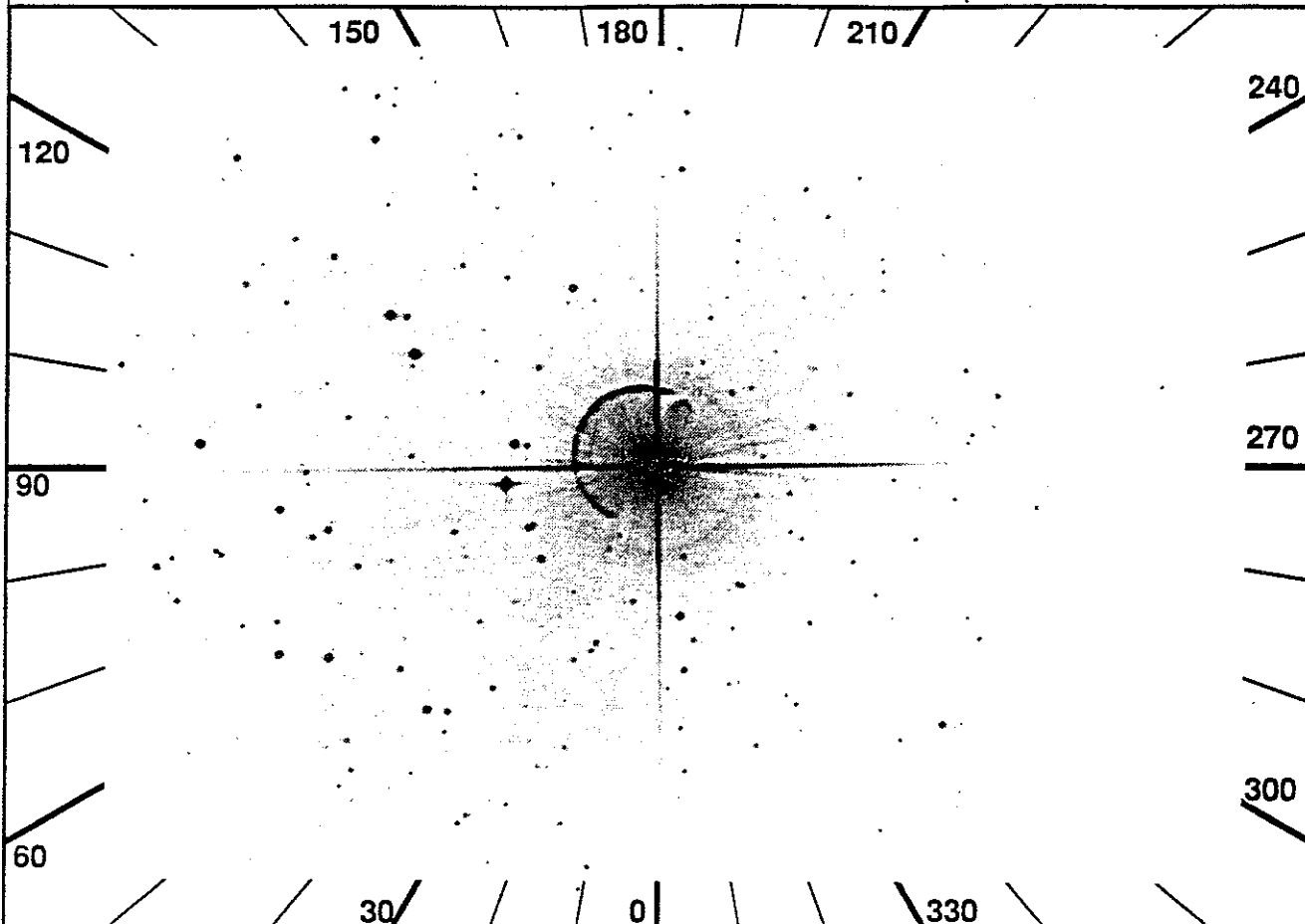


1 RA 86.5248 DEC -51.0848 ROLL 30.00

ID 3108-11

2 TIME 915

NAME BET-PIC

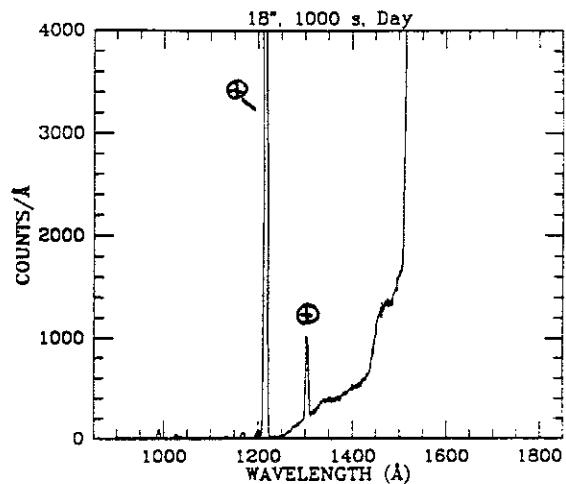


SEQ	LOC	OBS	MAG	LGR	D	A FM OF	A FM OF	A FM OF	ALT1	ALT2
3	H 115	src sim	5	5	4.6 5	7 1 ---	7 2 ---	- - - -	SAA 3M	PHDMON
4	S W 150	aut aut	4	4	5.6	8 2 ---	10 2 ---	- - - -	OCCUL2	BETPIC
5	U 37	DT -		T F	31 b5	- - - -	- - - -	- - - -	V-BRT	

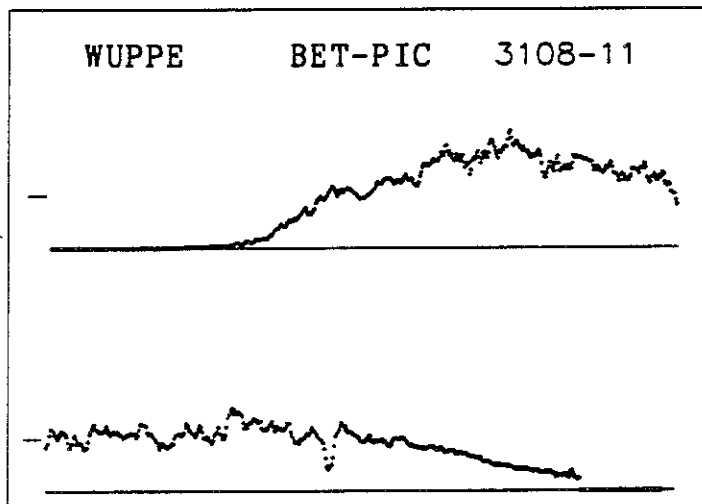
6 H -	VIP ON until SAA exit	22 W JAC	* Reconfig as before
7 W JAC	Config H W U	23 H -	After SAA exit
8	-----	24 H JAC	ITEM 16 0
9 H -	Note: Acquisition in SAA	25 H	HUT SETUP
10 JAC	All SETUP	26 H	Chk HUT Stat -LOC
11 H	Chk Stat - -LOC RDY	27	All BEGIN
12 H TV	Verify HUT acq on TV	28 W	WUP OBS target will be
13 JAC	IMC BEGIN	29 W	occulted on second seq
14	HUT ITEM 5	30	JOB Observe
15 W	IF t=SAA out > 120 sec	31 H	HUT will dither to ss
16 W	* Config All=No-one	32 H	mode for part of obs.
17 W	* All BEGIN (Begin IMC)	33 JAC	All PREVIEW
18 W WOB	* ITEM 7 5000	34	All QUIT
19 W JAC	* Wait for SAA out	35	-----
20 W WOB	* ITEM 8	36 JAC	ITEM 16_1
21 W	* ITEM 2		

3

OBJECT: 3108 BET-PIC  
KEYWORDS: Pre-main Sequence Star  
COMMENTS:  
Look for any non-airglow  
emission lines.



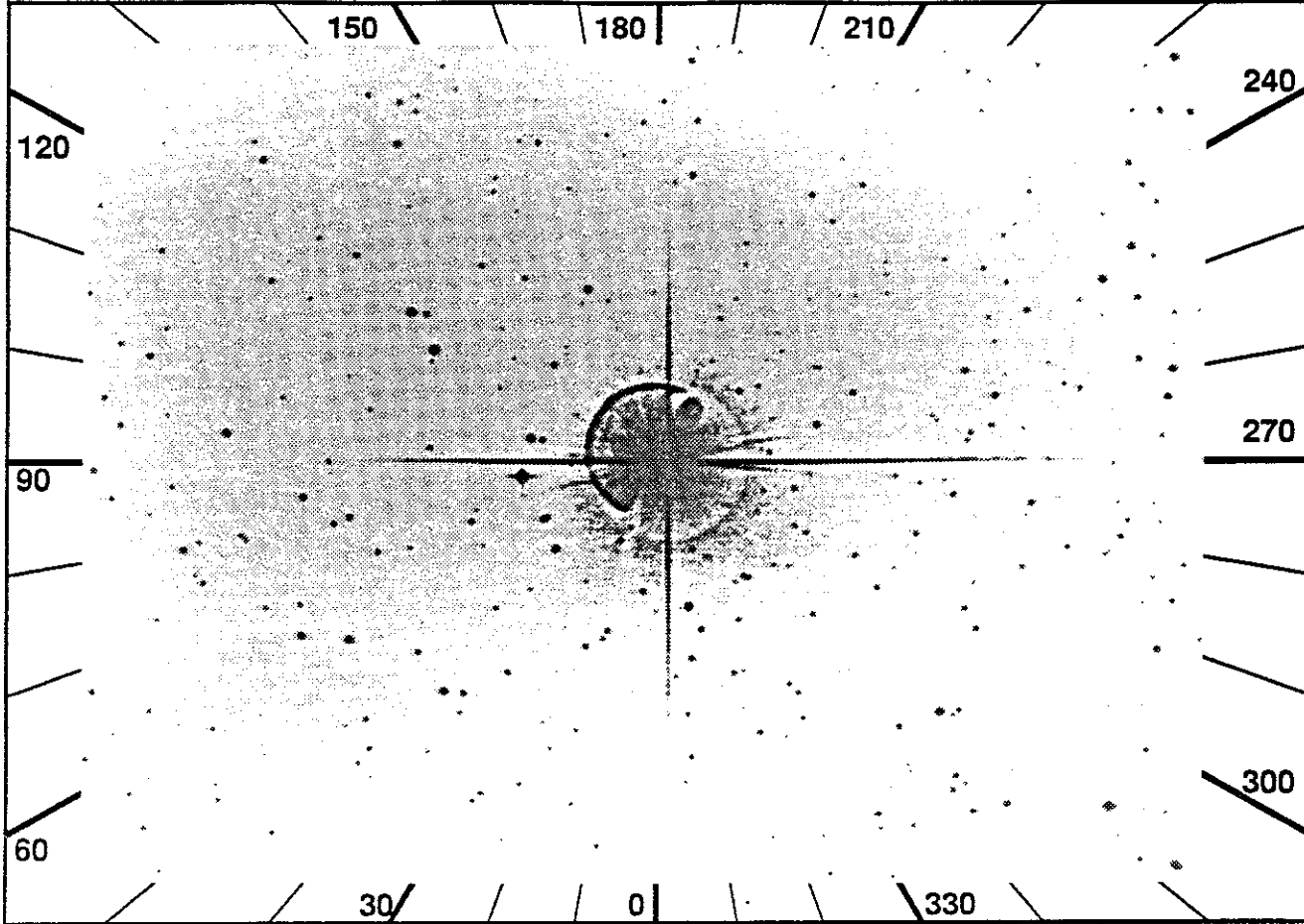
ID: 3108-11  
Names: BET-PIC HD39060  
Type: A5V  
% Pol: <.03% star, >10% disk  
Pol Var: no  
Pos Ang:  
Mechanism: dust scat, continuum,  
0-pol standard?  
Comments: Surrounded by extended  
circumstellar disk, ~25" at PA  
50 deg (NE-SW). Trying to obs  
star and disk polarization.



UIT  
Observation Description

1 RA 86.5248 DEC -51.0848 ROLL 120.00  
 2 TIME 233

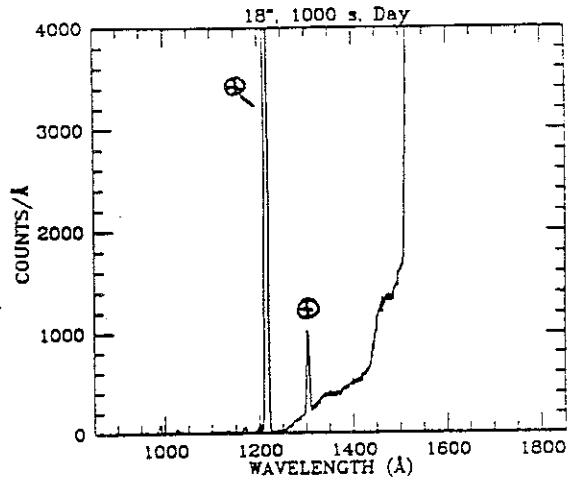
ID 3108-20  
 NAME BET-PIC



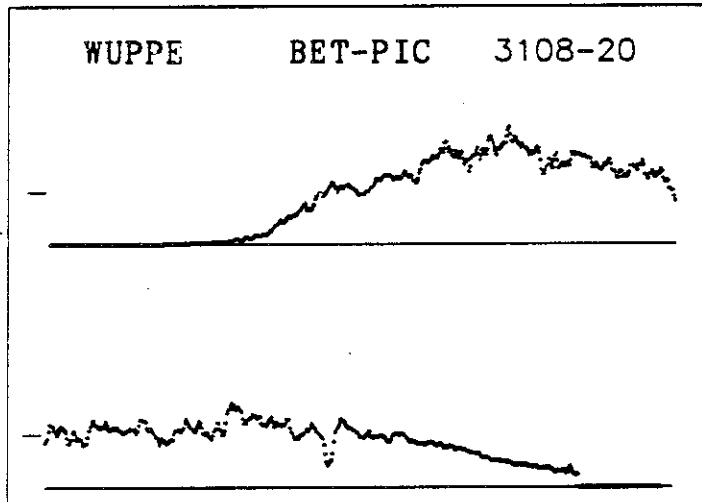
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	115	src sim	5	5	4.6	5	7	1	---	7	2	---	---	---	PHDMON
4	S	W 378	aut aut	4	8	4.1		10	2	---	---	---	---	---	---	OCCULT
5	U	-	DT -	T	F	-	-	-	-	-	-	-	-	-	-	V. BRT
6	JAC	ITEM 16 0						15	W							occulted on first seq
7		Config H W U						16	JOB	Observe						
8		-----						17	H	HUT will dither to ss						
9	JAC	All SETUP						18	H	mode for part of obs.						
10		Chk Stat -LOC -LOC RDY						19	JAC	All PREVIEW						
11		IMC BEGIN						20		All QUIT						
12		HUT ITEM 5						21		-----						
13		All BEGIN						22	JAC	ITEM 16_1						
14	W	WUP OBS target will be														

3

OBJECT: 3108 BET-PIC -  
 KEYWORDS: Pre-main Sequence Star  
 COMMENTS:  
 Look for any non-airglow  
 emission lines.



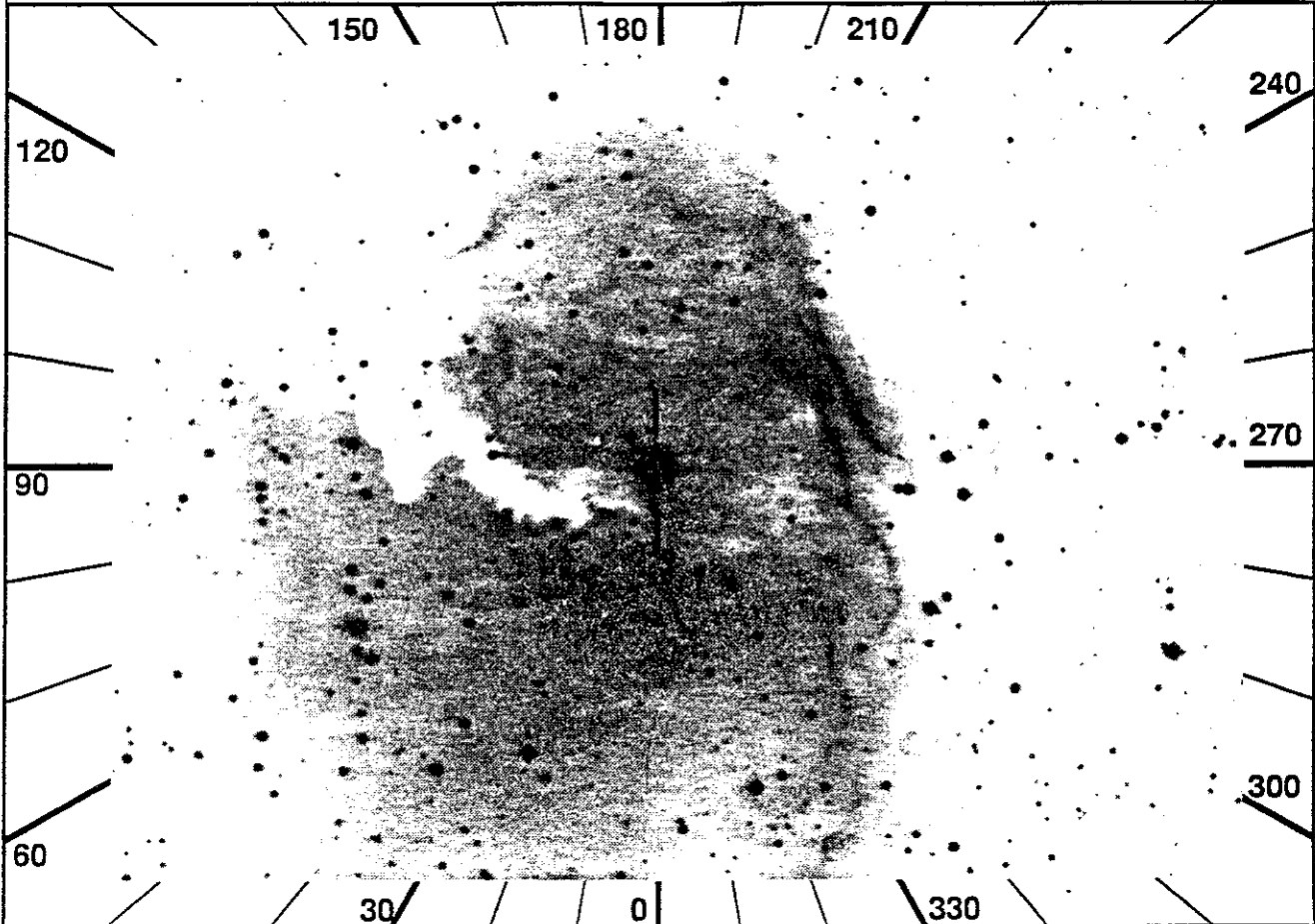
ID: 3108-20  
 Names: BET-PIC HD39060  
 Type: A5V  
 Pol: <0.03% star, >10% disk  
 Pol Var: no  
 Pos Ang:  
 Mechanism: dust scat, continuum,  
 0-pol standard?  
 Comments: Surrounded by extended  
 circumstellar disk, ~25" at PA  
 50 deg (NE-SW). Trying to obs  
 star and disk polarization.



UIT  
 Observation Description

1 RA 105.5150 DEC -10.3788 ROLL 276.49  
 2 TIME 1748

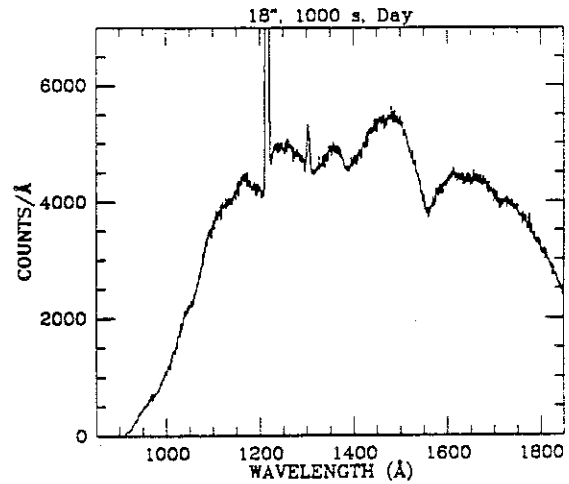
ID 3110-11  
 NAME HD53367



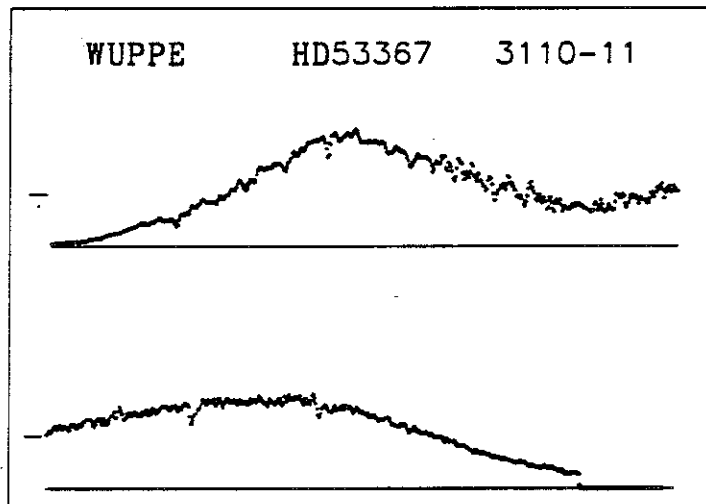
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	191	src	sim	8 8 4.5 3	7	1	---	7	2	---	-	-	---	SAAPHD	C LR5
4	P	W 151	aut	aut	7 7 4.7	8	6	---	---	---	---	---	---	---		
5	U	99	DT	-	T F - - - - -	-	-	-	-	-	-	-	-	-	V-BRT	
6	U				(At beginning of slew)	21	H								HUT SETUP	
7	U	UAC			*IF UIT Door O*	22	H								Chk HUT Stat -LOC	
8	U				* ITEM 44, Chk Door C*	23									All BEGIN	
9	U				Expect UIT SET,OBS err	24	H	JOB							*IF HUT LOG_R < 4.4	
10	H	-			VIP ON until SAA exit	25	H	HOP							* ITEM 42_5 (door 5)	
11	JAC				Config H W U	26		JOB							Observe	
12					-----	27	H								HUT will dither to ss	
13	H	-			Note: Acquisition in SAA	28	H								mode for part of obs.	
14	JAC				All SETUP	29		JAC							All PREVIEW	
15	J				Chk Stat - - -LOC STB	30									All QUIT	
16	H	TV			Verify HUT acq on TV	31									-----	
17	JAC				IMC BEGIN	32		JAC							ITEM 16_1	
18					HUT ITEM 5	33	U								(During slew)	
19	H	-			After SAA exit	34	U	UAC							*IF next obj not V-BRT	
20	H	JAC			ITEM 16_0	35	U								* ITEM 43, Chk Door O*	

T-Tauri  
 2

OBJECT: 3110 HD53367  
KEYWORDS: Pre-main Sequence Star  
COMMENTS:  
Look for any non-airglow  
emission lines.

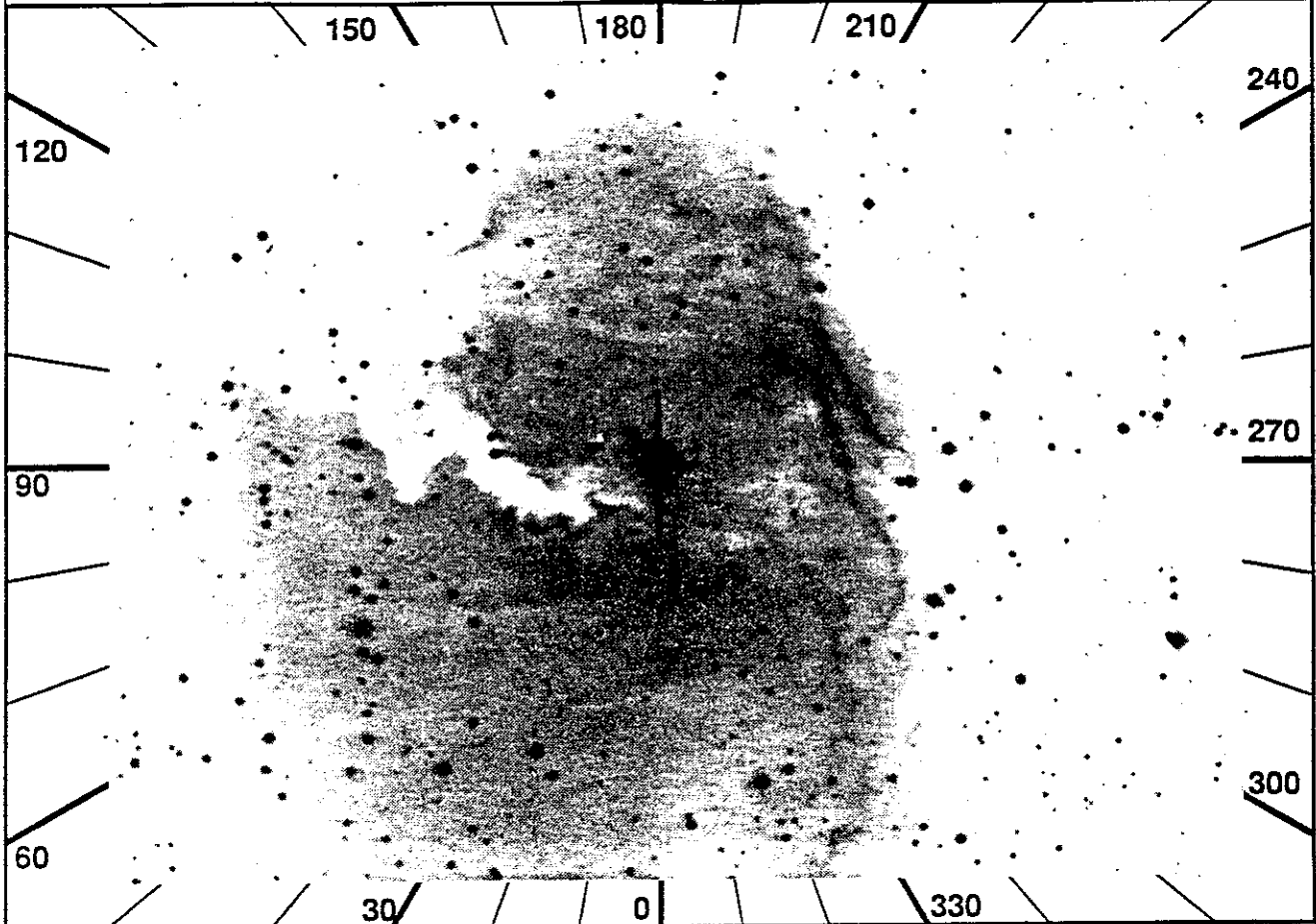


ID: 3110-11  
Names: HD53367  
Type: B0IV:e  
% Pol: 0.5  
Pol Var: no  
Pos Ang: 33  
Mechanism: e & dust scattering  
Comments: Herbig AeBe star,  
surrounded by prenatal gas &  
dust shell.



UIT  
Observation Description

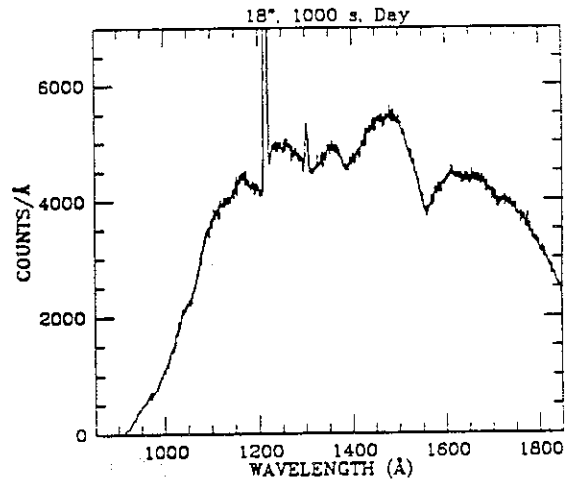
1 RA 105.5150 DEC -10.3788 ROLL 276.49 ID 3110-12  
 2 TIME 699 NAME HD53367



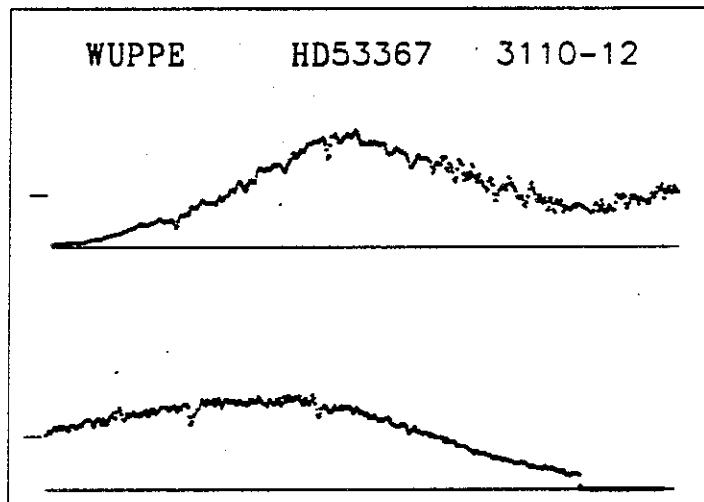
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	225	src	sim	8	8	4.5	3	7	1	---	7	2	---	SAAPHD	C LR5
4	P	W 151	aut	aut	7	7	4.7		8	6	---					
5	U	99	DT	-		T	F	-	-	-	-	-	-	-	-	V-BRT
6	U								21	H						HUT SETUP
7	U	UAC							22	H						Chk HUT Stat -LOC
8	U								23							All BEGIN
9	U								24	H	JOB					*IF HUT LOG_R < 4.4
10	H	-							25	H	HOP					* ITEM 42_5 (door 5)
11	JAC								26		JOB					Observe
12									27	H						HUT will dither to ss
13	H	-							28	H						mode for part of obs.
14	JAC								29	JAC						All PREVIEW
15	J								30							All QUIT
16	H	TV							31							
17	JAC								32	JAC						ITEM 16_1
18									33	U						(During slew)
19	H	-							34	U	UAC					*IF next obj not V-BRT
20	H	JAC							35	U						* ITEM 43, Chk Door O*

T-Tauri  
2

OBJECT: 3110 HD53367  
KEYWORDS: Pre-main Sequence Star  
COMMENTS:  
Look for any non-airglow  
emission lines.



ID: 3110-12  
Names: HD53367  
Type: B0IV:e  
Pol: 0.5  
Pol Var: no  
Pos Ang: 33  
Mechanism: e & dust scattering  
Comments: Herbig AeBe star,  
surrounded by prenatal gas &  
dust shell.

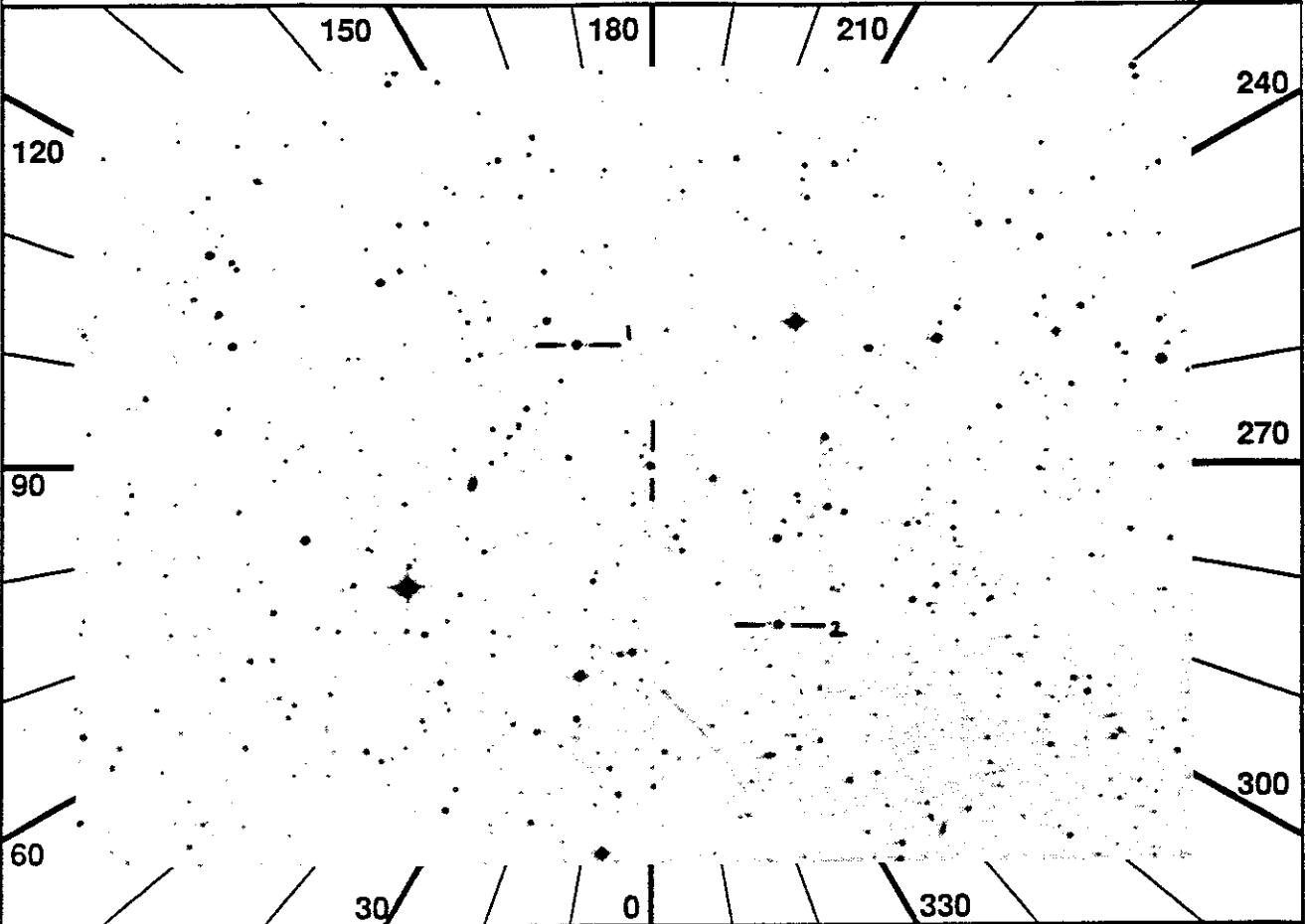


UIT  
Observation Description



1 RA 62.3846 DEC -71.4247 ROLL 183.28  
 2 TIME 2160

ID 3206-20  
 NAME VW-HYI



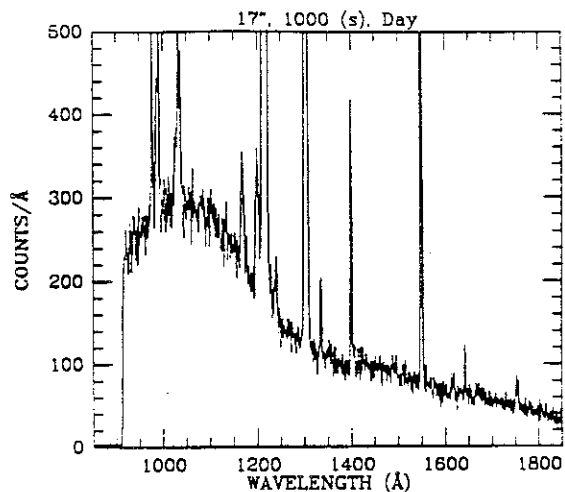
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	P	H	105	src	sim	12	15	3.5	5	7	4	---	---	---	VW-HYI	
4		W	152	aut	aut	14	11	3.0		2	2	---	---	---	VARWRN	
5	U	212	DT	-	T	F	31	a2	31	a4	31	a5	31	b5	-	-
6	W			NOTE: var tgt- adj tv, sp			17	H		*	ITEM 12_14 (Faint mag)					
7	W			if reqd: WUP ALT-02,03			18			Chk	Stat	-	LOC	-	LOC	RDY
8	JAC			ITEM 16 0			19			IMC	BEGIN					
9				Config H W U			20			HUT	ITEM 5					
10				-----			21			All	BEGIN					
11	JAC			All SETUP			22			JOB	Observe					
12	H	TV		*IF src is very bright			23			JAC	All PREVIEW					
13	H	JAC		* ITEM 16 1			24			All	QUIT					
14	H			* Go to XTARGET BOOK and			25			-----						
15	H			* edit HUT WUPPE seq num			26			JAC	ITEM 16_1					
16	H			*ELSE												

*alt seq if brt*  
 |

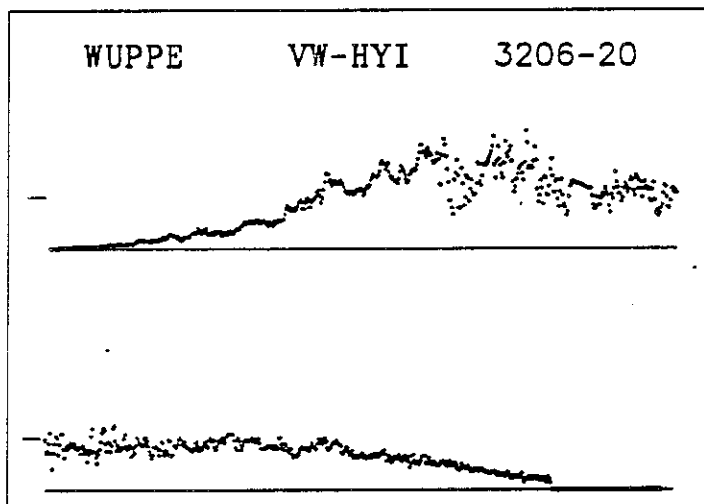
---

OBJECT: 3208 VW Hydri  
KEYWORDS: CV; Dwarf Nova  
COMMENTS:  
Variable 8.5-13.4  
Lo state spectrum shown  
Hi state spec will have broad abs. lines  
Lowest NH CV—Look for 2nd order below 912  
In HI state may require 50 cm door

---

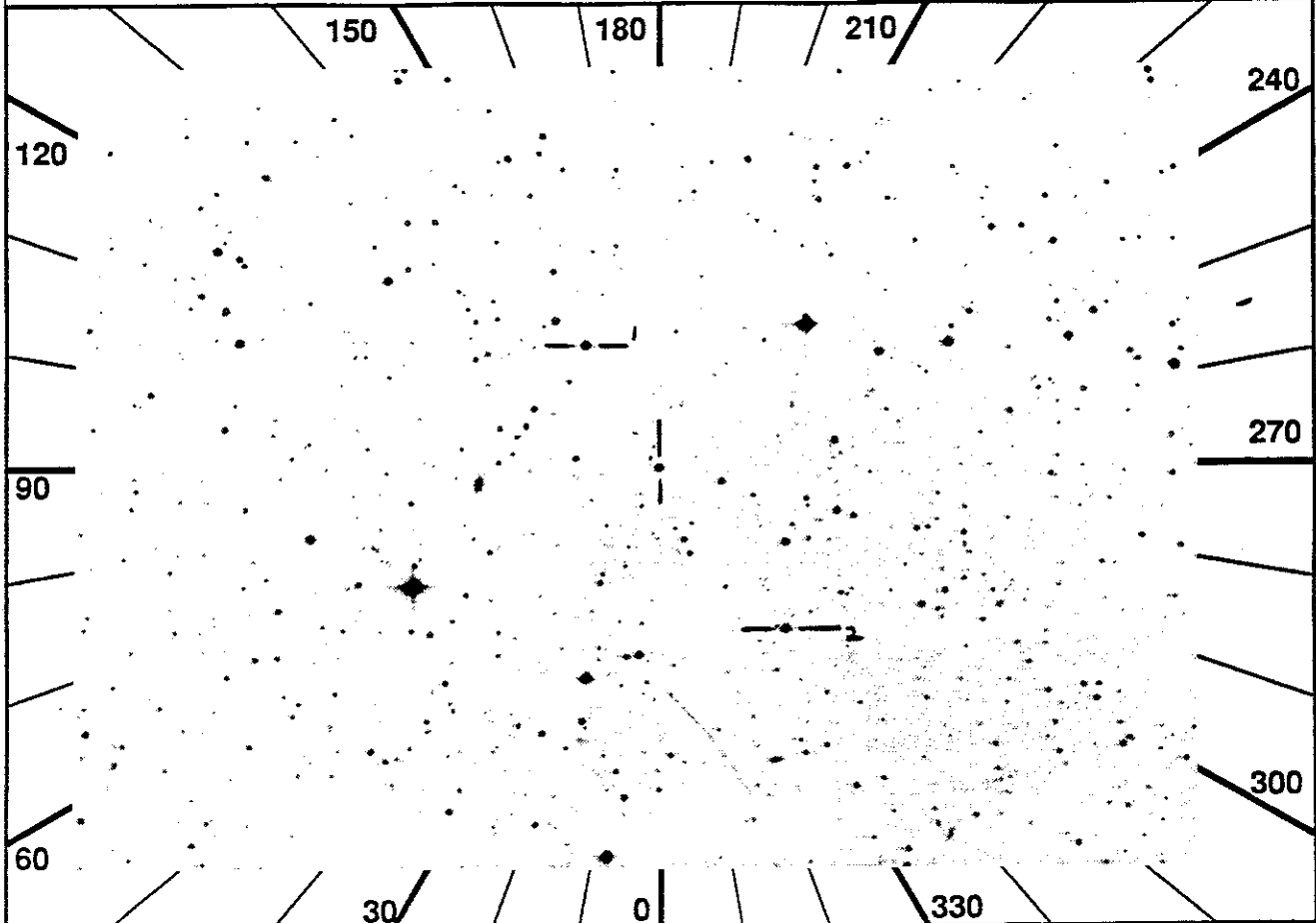


ID: 3206-20  
Names: VW-HYI  
Type: DN, SU UMa  
\* Pol: unknown  
Max V mag: 8.5  
Min V mag: 13.8  
Ave Recurrence time: 29d  
Comments: duration about 4d.  
HUT Prime. If in outburst,  
use Halfwave sequence in  
Xtargetbook.  
Co-pointing with BBXRT.



UIT  
Observation Description

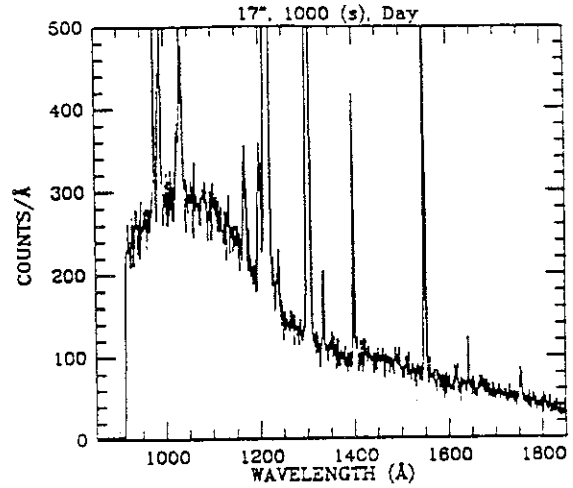
1 RA 62.3846 DEC -71.4247 ROLL 183.28 ID 3206-21  
 2 TIME 846 NAME VW-HYI



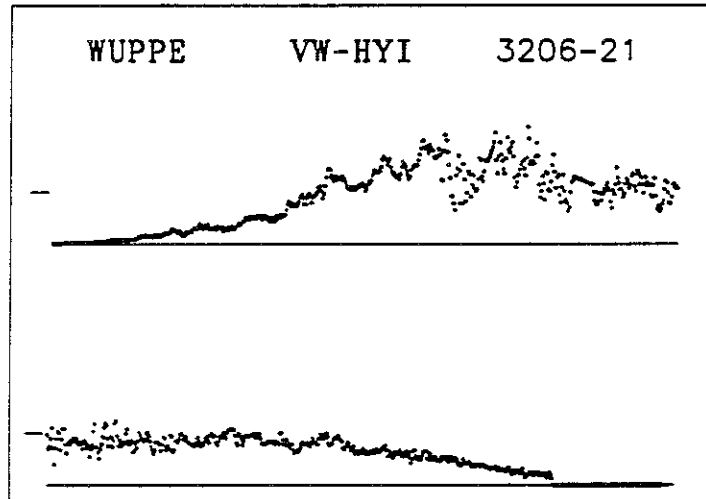
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	P H	366	src	sim	12	15	3.5	5	7	4	---	---	---	---	SAA 3M	VW-HYI
4	W	152	aut	aut	14	11	3.0		2	2	---	---	---	---	VARWRN	
5	U	37	DT	-	T	F	31	b5	-	-	---	---	---	---		
6	W		NOTE: var tgt- adjtv, sp				20	H	TV	Verify HUT acq on TV						
7	W		if reqd: WUP ALT-02,03				21	H	JAC	IMC BEGIN						
8	H	-	VIP ON until SAA exit				22	H		HUT ITEM 5						
9	JAC		Config H W U				23	H	-	After SAA exit						
10			-----				24	H	JAC	ITEM 16 0						
11	H	-	Note: Acquisition in SAA				25	H		HUT SETUP						
12	JAC		All SETUP				26	H		Chk HUT Stat -LOC						
13	H	TV	*IF src is very bright				27	H		All BEGIN						
14	H	JAC	* ITEM 16 1				28	H	JOB	Observe						
15	H		* Go to XTARGET BOOK and				29	H	JAC	All PREVIEW						
16	H		* edit HUT WUPPE seq num				30	H		All QUIT						
17	H		*ELSE				31	H		-----						
18	H		* ITEM 12_14 (Faint mag)				32	H	JAC	ITEM 16_1						
19	H		Chk Stat - - -LOC RDY													

*alt acq if brt*  
 |

OBJECT: 3206 VW Hydri  
KEYWORDS: CV; Dwarf Nova  
COMMENTS:  
Variable 8.5-13.4  
Lo state spectrum shown  
Hi state spec will have broad abs. lines  
Lowest NH CV—Look for 2nd order below 912  
In HI state may require 50 cm door



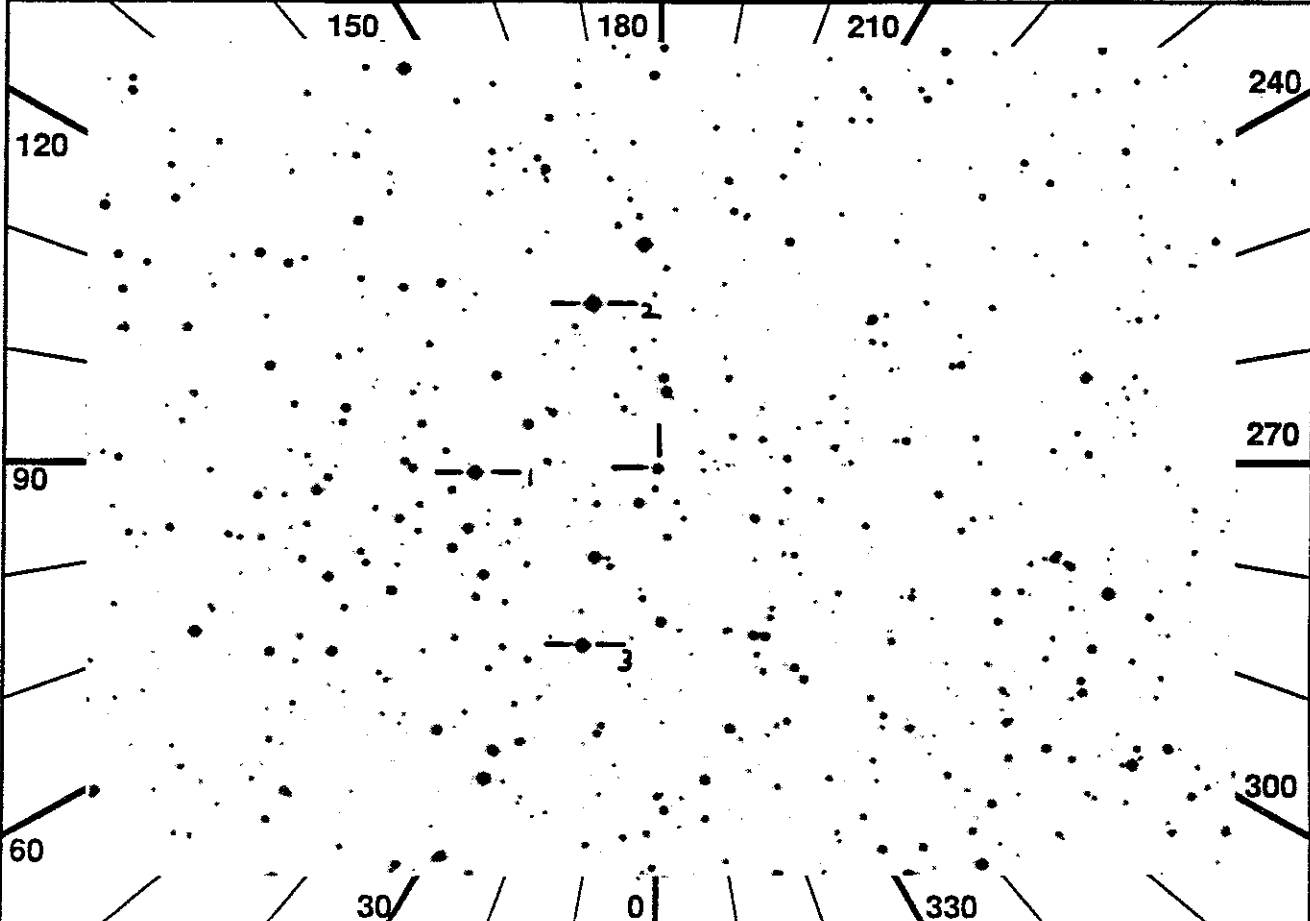
ID: 3206-21  
Names: VW-HYI  
Type: DN, SU UMa  
Pol: unknown  
Max V mag: 8.5  
Min V mag: 13.8  
Ave Recurrence time: 29d  
Comments: duration about 4d  
HUT Prime. If in outburst,  
use Halfwave sequence.  
Co-pointing with BBXRT.



UIT  
Observation Description

1 RA 118.0325 DEC 22.1343 ROLL 253.55  
 2 TIME 1598

ID 3208-22  
 NAME U-GEM

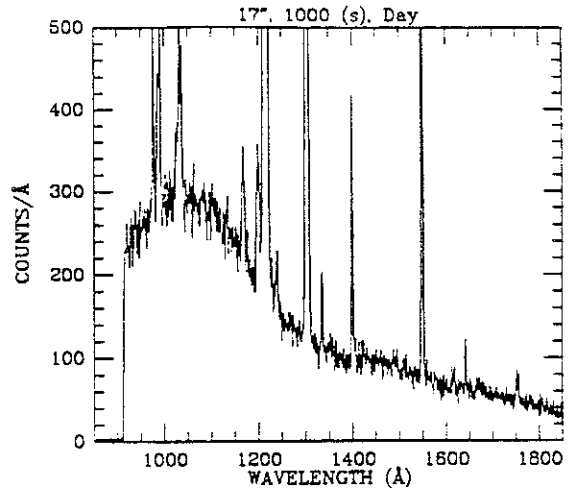


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	P H	301	src	sim	13	13	3.5	5	7	4	---	---	---	---	U-GEM	SAA AC
4	W	153	fld	aut	14	12	2.4		2	2	---	---	---	---	VARWRN	FLDLOC
5	U	212	DT	-	T	F	31	a2	31	a4	31	a5	31	b5	-	-

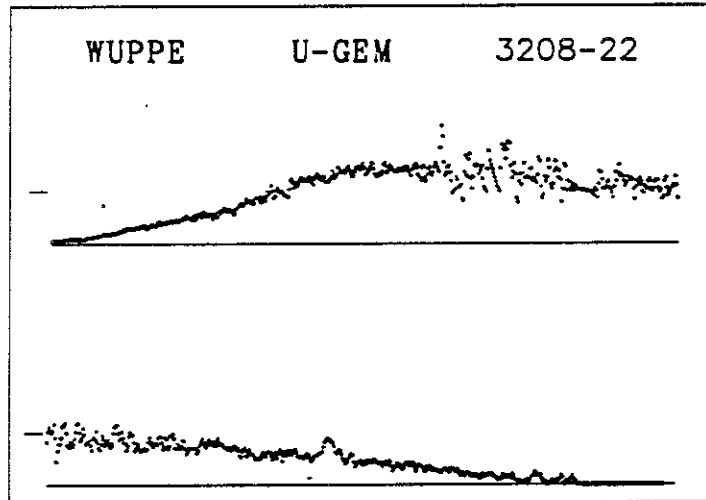
6 W	NOTE: var tgt- adj tv, sp	22 W	*IF WUP acq incorrect
7 W	if reqd: WUP ALT-02,03	23 W	* WUP PFK cur to target
8 H -	VIP ON until SAA exit	24 W	* WUP ITEM 6 (Cntr)
9 JAC	Config H W U	25 W	WUP ITEM 4 (Cur off)
10	-----	26 W	WUP ITEM 11_Z (Zoom)
11 H -	Note: Acquisition in SAA	27 W	Chk WUP Stat -LOC
12 JAC	All SETUP	28 H -	After SAA exit
13 H TV	*IF src is very bright	29 H JAC	ITEM 16 0
14 H JAC	* Go to XTARGET BOOK and	30 H	HUT SETUP
15 H	* edit HUT WUPPE seq num	31 H	Chk HUT Stat -LOC
16 H	*ELSE	32	All BEGIN
17 H	* ITEM 12_15 (Faint mag)	33	JOB Observe
18 J	Chk Stat- CUR RDY	34	JAC All PREVIEW
19 H TV	Verify HUT acq on TV	35	All QUIT
20 JAC	IMC BEGIN	36	-----
21	HUT ITEM 5	37	JAC ITEM 16_1

*alt seq if brt*  
 |

OBJECT: 3208 U Gem  
KEYWORDS: CV; Dwarf Nova  
COMMENTS:  
Variable 8.8-14.5  
Low state spectrum shown  
Hi state may require 50 cm door  
Hi state spec will have broad abs lines



ID: 3208-22  
Names: U-GEM HD64511  
Type: DN, U Gem  
Pol: 0.3  
Pol Var: no variation  
Pos Ang: 173  
Max V mag: 8.5  
Min V mag: 13.8  
Ave Recurrence time: 29d  
Comments:  
. HUT Prime. If in outburst,  
use Xtargetbook sequence.  
Co-pointing with BBXRT.



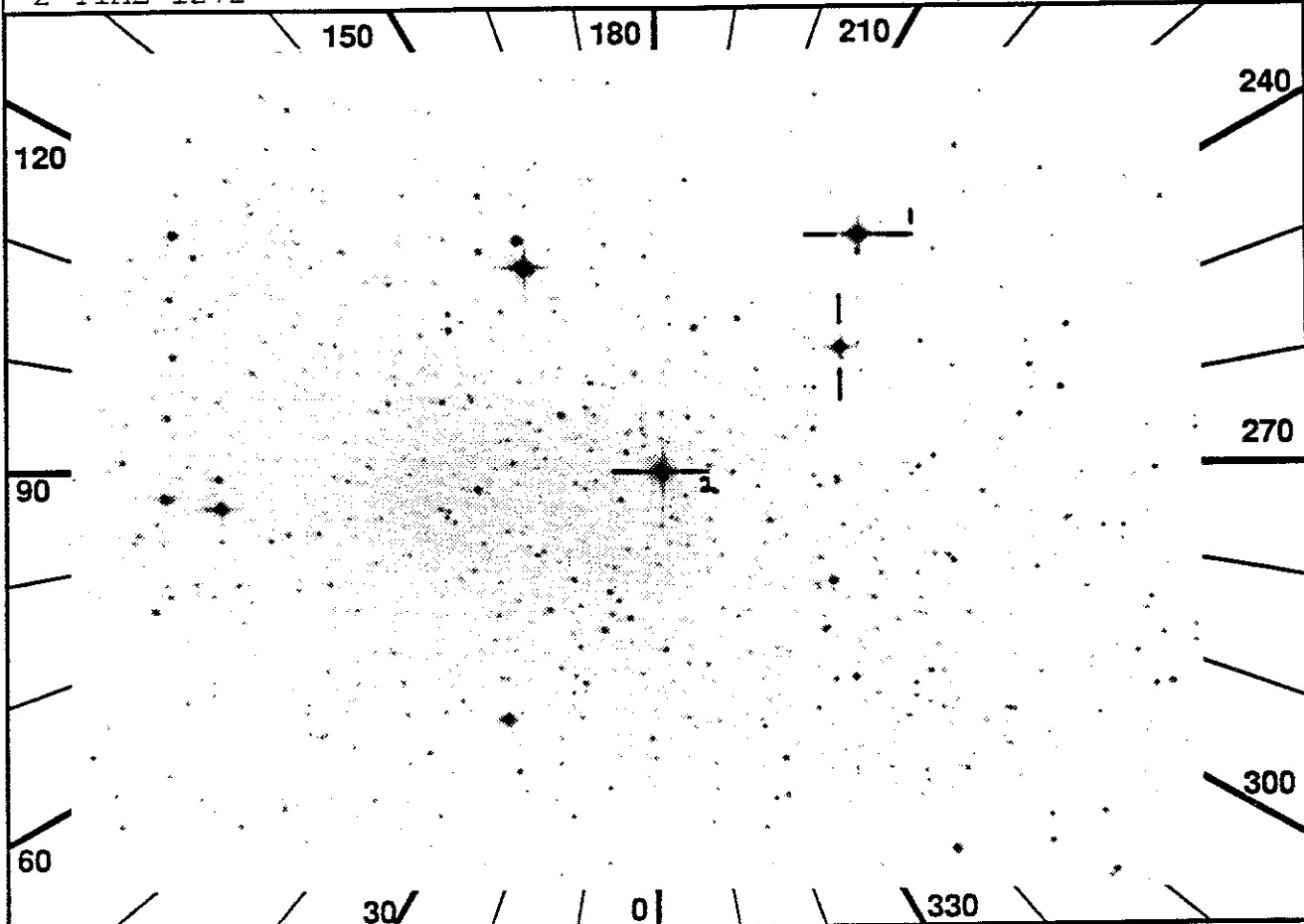
UIT  
Observation Description

1 RA 123.4568 DEC -49.0658 ROLL 180.41

ID 3212-10

2 TIME 1272

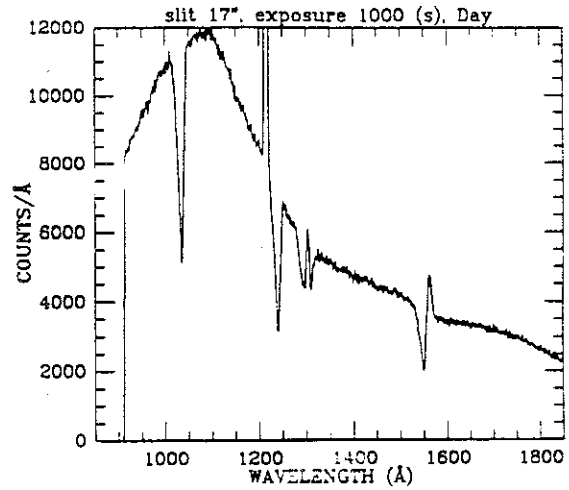
NAME C48D1557



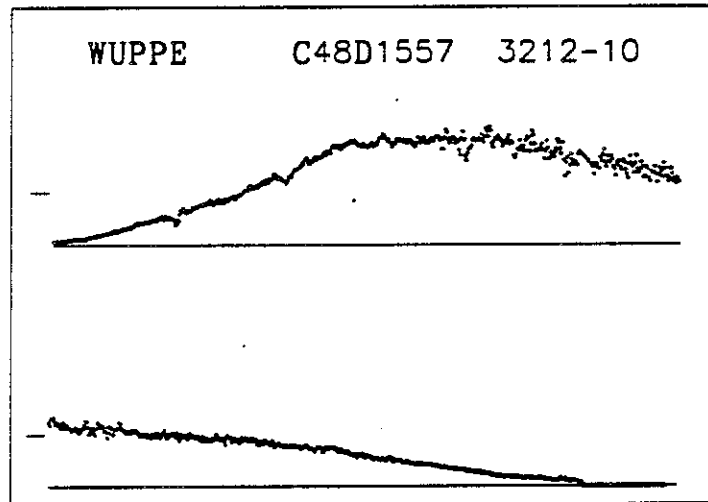
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2	
3	P	H	125	src	sim	10	8	4.7	5	7	1	---	---	---	SAA	AC	
4	W	155	aut	aut	10	7	4.4			8	6	---	---	---	VARWRN		
5	U	246	DT	-		T	F	31	a5	31	b5	---	---	---			
6	W		NOTE: var tgt- adjtv, sp								17	H	-	After SAA exit			
7	W		if reqd: WUP ALT-02,03								18	H	JAC	ITEM 16_0			
8	H	-	VIP ON until SAA exit								19	H		HUT SETUP			
9	JAC		Config H W U								20	H		Chk HUT Stat -LOC			
10			-----								21			All BEGIN			
11	H	-	Note: Acquisition in SAA								22		JOB	Observe			
12	JAC		All SETUP								23	JAC		All PREVIEW			
13	H		Chk Stat - -LOC RDY								24			All QUIT			
14	H	TV	Verify HUT acq on TV								25			-----			
15	JAC		IMC BEGIN								26	JAC		ITEM 16_1			
16			HUT ITEM 5														

*always in outburst*  
|

OBJECT: 3212 CPD -48d1557  
KEYWORDS: Bright Cataclysmic Variable  
COMMENTS:  
UX UMA-type CV  
Should be in HI state  
HI state spectrum shown



ID: 3212-10  
Names: C48D1557  
Type: B0  
\* Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments:  
Co-pointing with BBXRT.

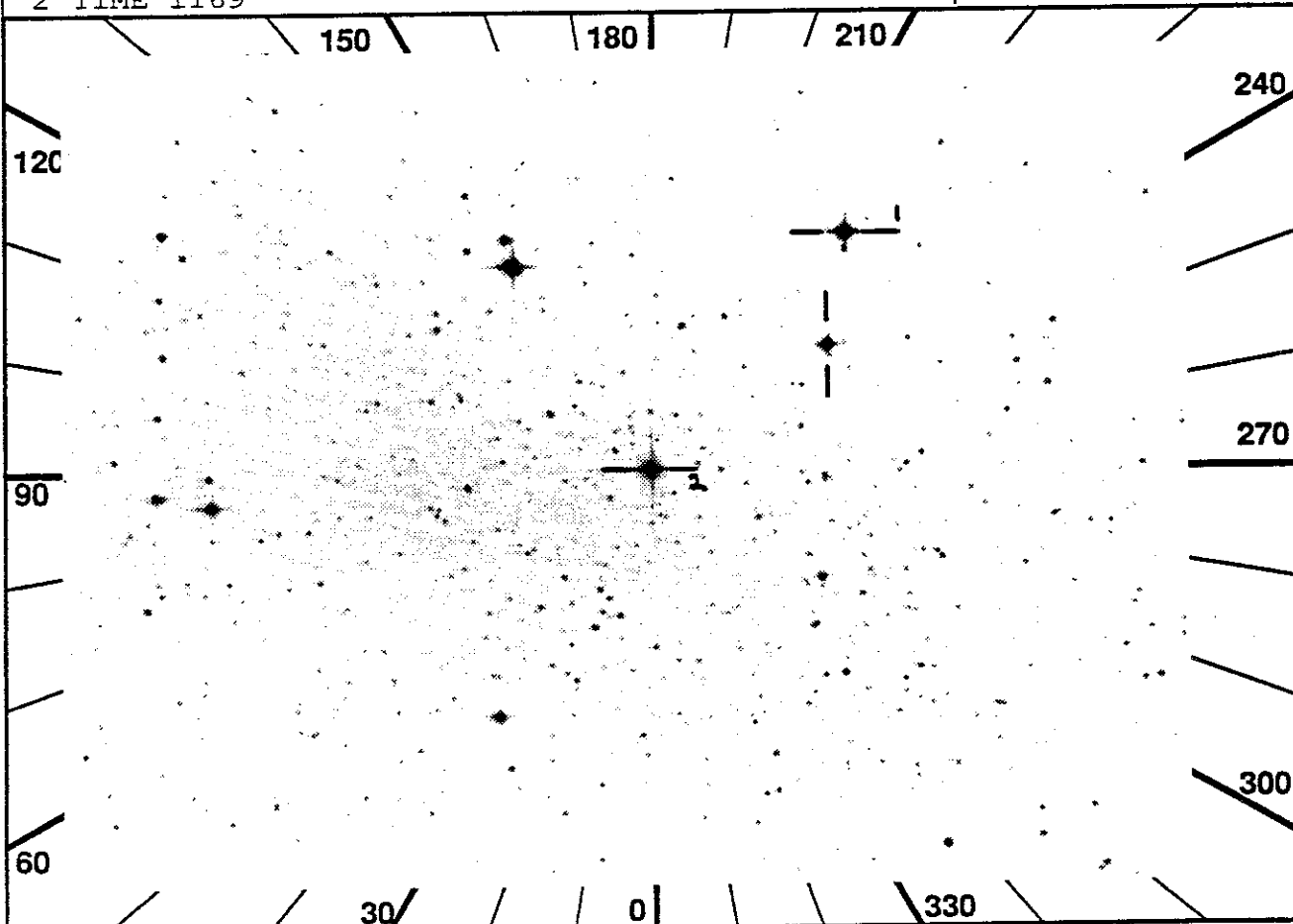


UIT  
Observation Description



1 RA 123.4568 DEC -49.0658 ROLL 198.70  
 2 TIME 1169

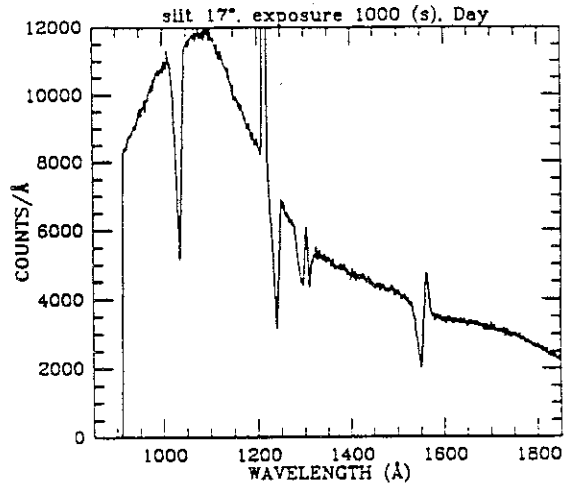
ID 3212-20  
 NAME C48D1557



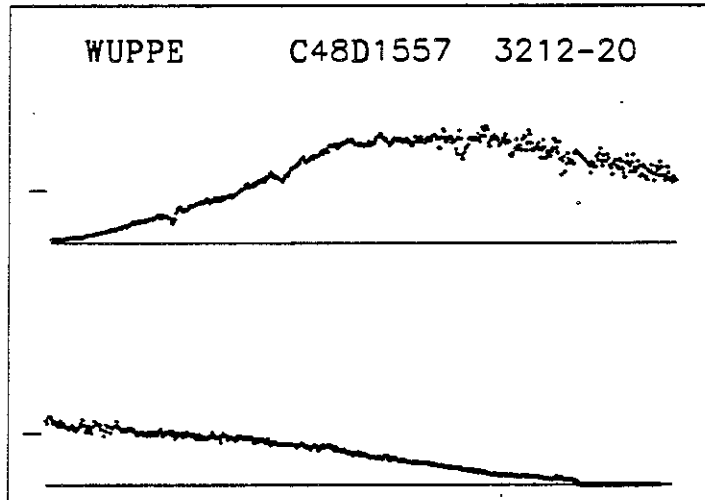
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	P H	219	src sim	10	8	4.7	5	7	1	---	---	---	---	---	SAA AC	
4	W	155	aut aut	10	7	4.4		8	6	---	---	---	---	---	VARWRN	
5	U	247	DT -		T F	31	a2	31	a4	-	-	-	-	-		
6	W		NOTE: var tgt- adj tv, sp				17	H	-	After SAA exit						
7	W		if reqd: WUP ALT-02,03				18	H	JAC	ITEM 16 0						
8	H	-	VIP ON until SAA exit				19	H		HUT SETUP						
9	JAC		Config H W U				20	H		Chk HUT Stat -LOC						
10			-----				21			All BEGIN						
11	H	-	Note: Acquisition in SAA				22		JOB	Observe						
12	JAC		All SETUP				23		JAC	All PREVIEW						
13	H		Chk Stat - -LOC RDY				24			All QUIT						
14	H	TV	Verify HUT acq on TV				25		-----							
15	JAC		IMC BEGIN				26		JAC	ITEM 16_1						
16			HUT ITEM 5													

*all in outburst*  
 |

OBJECT: 3212 CPD -48d1557  
KEYWORDS: Bright Cataclysmic Variable  
COMMENTS:  
UX UMA-type CV  
Should be in HI state  
HI state spectrum shown



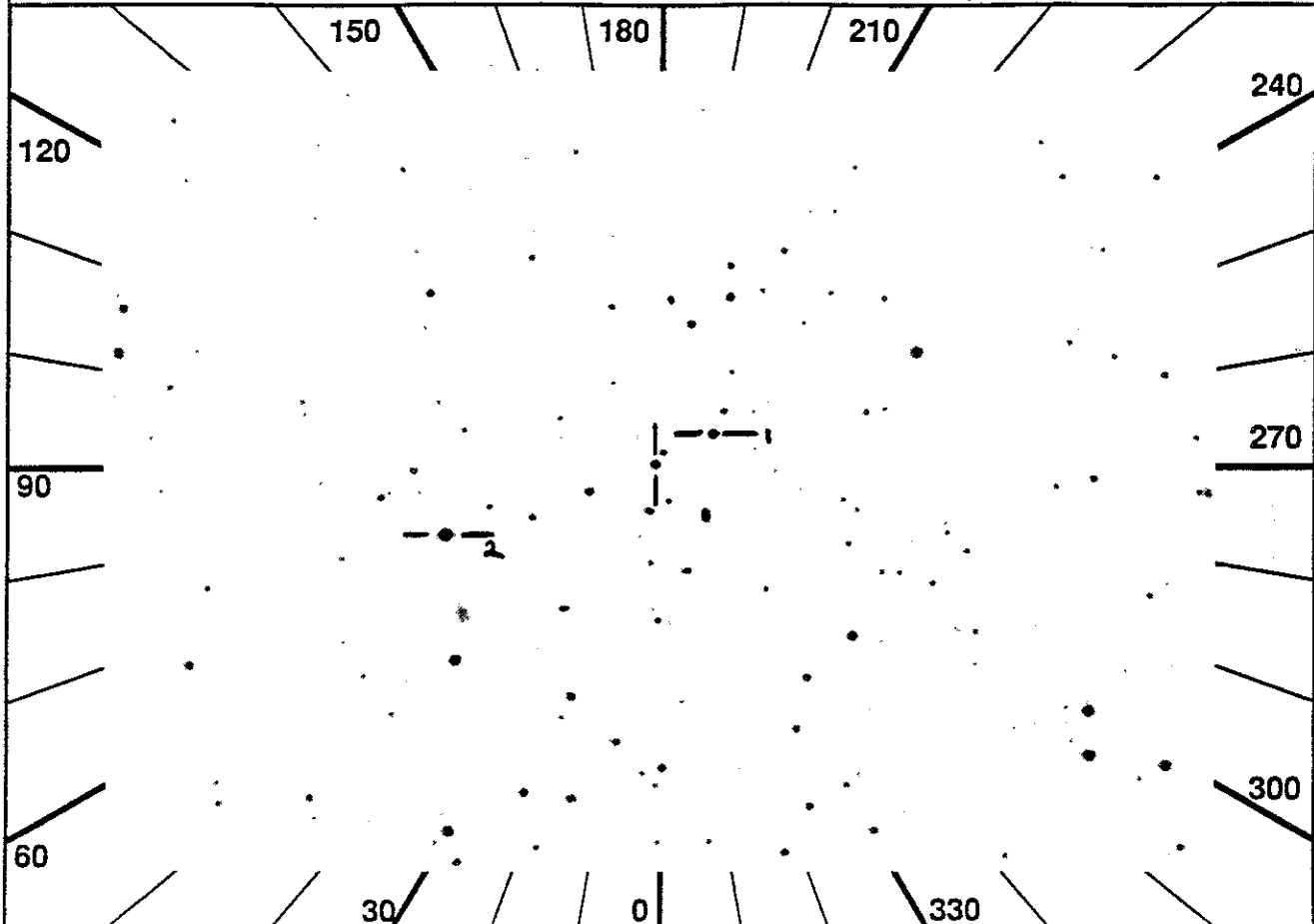
ID: 3212-20  
Names: C48D1557  
Type: B0  
Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments:  
Co-pointing with BBXRT.



UIT  
Observation Description

1 RA 178.7909 DEC 49.2169 ROLL 195.75  
 2 TIME 735

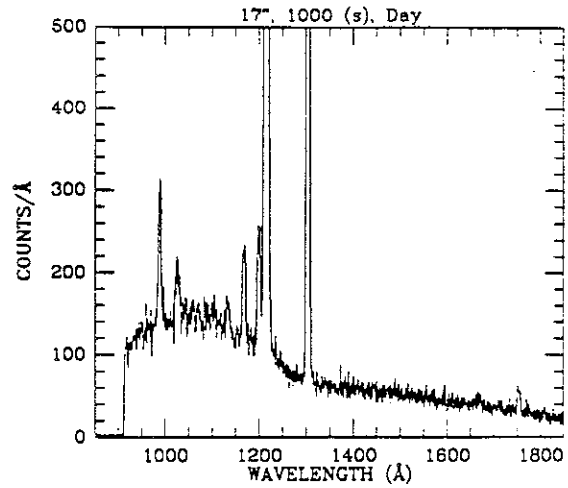
ID 3216-11  
 NAME BE-UMA



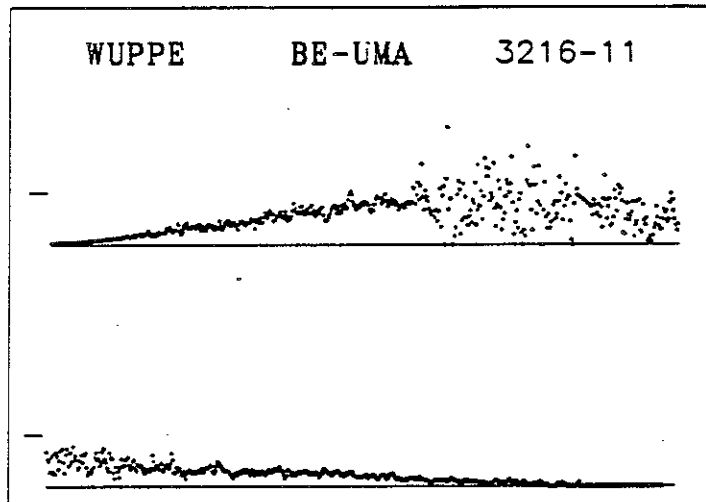
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	P H	173	src sim	16	15	3.4	5	7	4	---	---	---	---	---		
4	W	156	ncn ngd	15	11	2.4		2	2	---	---	---	---	---	VARWRN	FNTLOC
5	U	7	DT -	T F	31	a2										AST4SC

6 W	NOTE: var tgt- adj tv, sp	22 W	* WUP ITEM 4 (Cur off)
7 W	if reqd: WUP ALT-02,03	23 W	*ELSE
8 I	CMD WRI_3900	24 W	* Config without WUP
9 I	F007F0010FA0 (4s upd)	25	All BEGIN
10 I	IMC Chk AST WAC incr once/4s	26 W	*IF WUP Deconfig
11 JAC	ITEM 16 0	27 W	* WUP ITEM 11 F +1
12	Config H W U	28 W	* Cur/ITEM 6 In fld, zm
13	-----	29 W	* WUP ITEM 4 (Cur off)
14 JAC	All SETUP	30 W	* WUP ITEM 7 (Begin)
15 W	Chk Stat -LOC -CUR RDY	31 W	* Config with WUP
16	IMC BEGIN	32	JOB Observe
17	HUT ITEM 5	33	JAC All PREVIEW
18 W	WUP tgt= HUT faint star	34	All QUIT
19 W	*IF WUP target visible	35	-----
20 W	* WUP PFK cur to target	36	JAC ITEM 16 1
21 W	* WUP ITEM 6 (Cntr)	37 I	CMD ISS_3908 (1s upd)

OBJECT: 3216 BE UMa  
KEYWORDS: Peculiar CV or PG1159 WD  
COMMENTS:  
Variable 14.1-15.6 usually bright



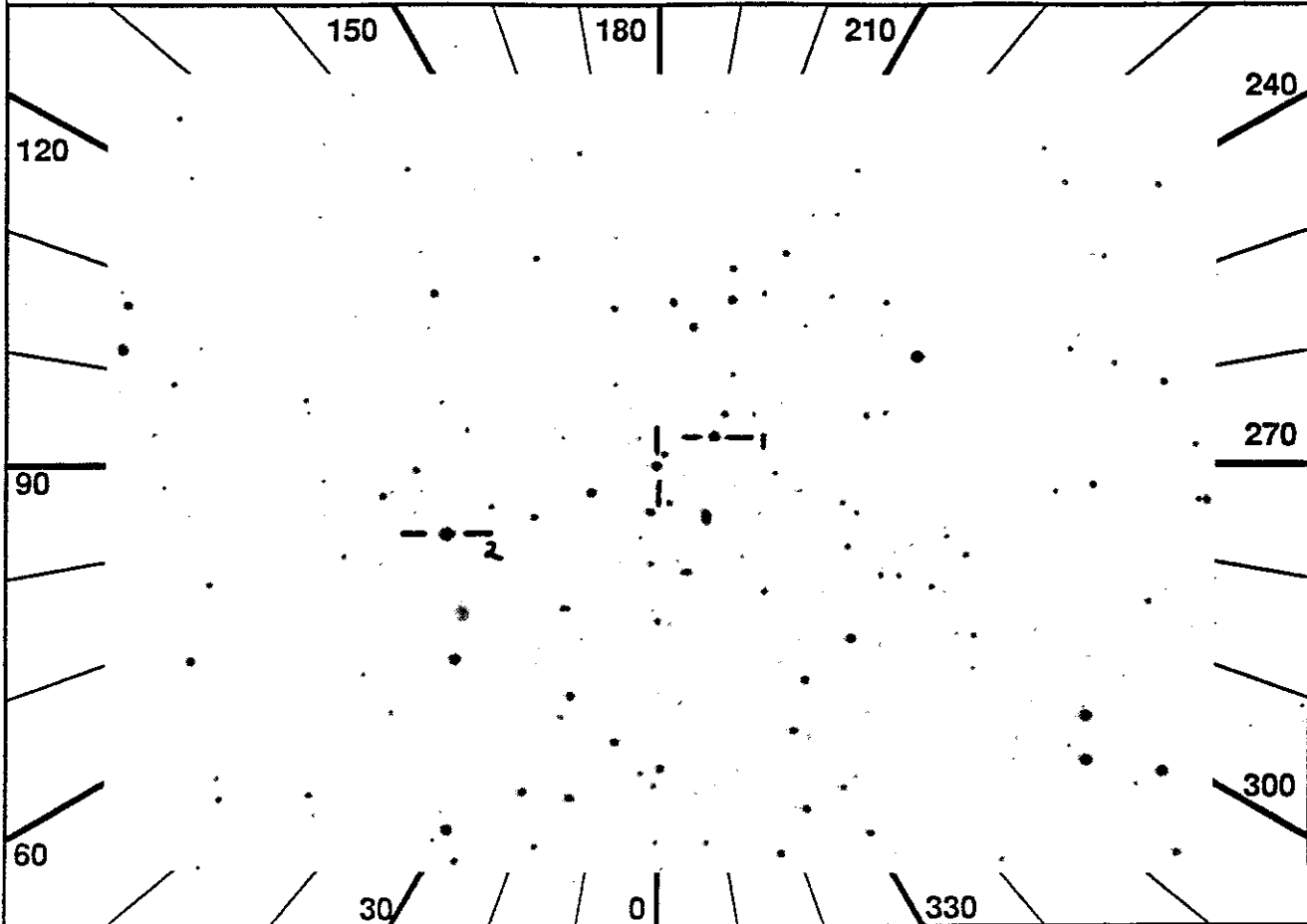
ID: 3216-11  
Names: BE-UMA  
Type: O3 sd  
% Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments:



UIT  
Observation Description

1 RA 178.7909 DEC 49.2169 ROLL 195.75  
 2 TIME 687

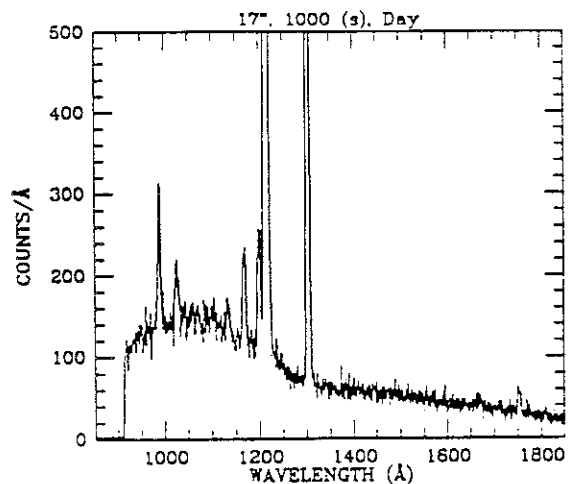
ID 3216-12  
 NAME BE-UMA



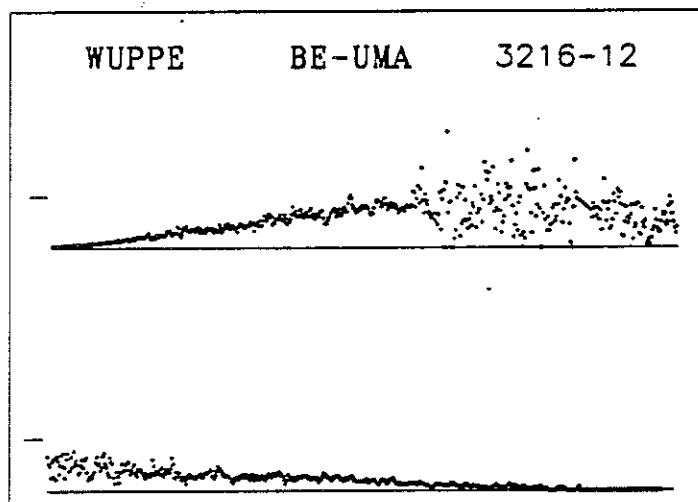
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	P H	203	src sim	16	15	3.4	5	7	4	---	---	---	---	---		
4	W	156	ncn nqd	15	11	2.4		2	2	---	---	---	---	---	VARWRN	ENTLOC
5	U	16	DT -			T F	31	a5								AST4SC

6 W	NOTE: var tgt- adj tv, sp	22 W	* WUP ITEM 4 (Cur off)
7 W	if reqd: WUP ALT-02,03	23 W	*ELSE
8 I	CMD WRI 3900	24 W	* Config without WUP
9 I	F007F0010FA0 (4s upd)	25	All BEGIN
10 I	IMC Chk AST WAC incr once/4s	26 W	*IF WUP Deconfig
11 JAC	ITEM 16 0	27 W	* WUP ITEM 11 F+1
12	Config H W U	28 W	* Cur/ITEM 6 In fld, zm
13	-----	29 W	* WUP ITEM 4 (Cur off)
14 JAC	All SETUP	30 W	* WUP ITEM 7 (Begin)
15 W	Chk Stat -LOC -CUR RDY	31 W	* Config with WUP
16	IMC BEGIN	32	JOB Observe
17	HUT ITEM 5	33	JAC All PREVIEW
18 W	WUP tgt= HUT faint star	34	All QUIT
19 W	*IF WUP target visible	35	-----
20 W	* WUP PFK cur to target	36	JAC ITEM 16 1
21 W	* WUP ITEM 6 (Cntr)	37 I	CMD ISS_3908 (1s upd)

OBJECT: 3218 BE UMa  
KEYWORDS: Peculiar CV or PG1159 WD  
COMMENTS:  
Variable 14.1-15.6 usually bright



ID: 3216-12  
Names: BE-UMA  
Type: O3 sd  
Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments:



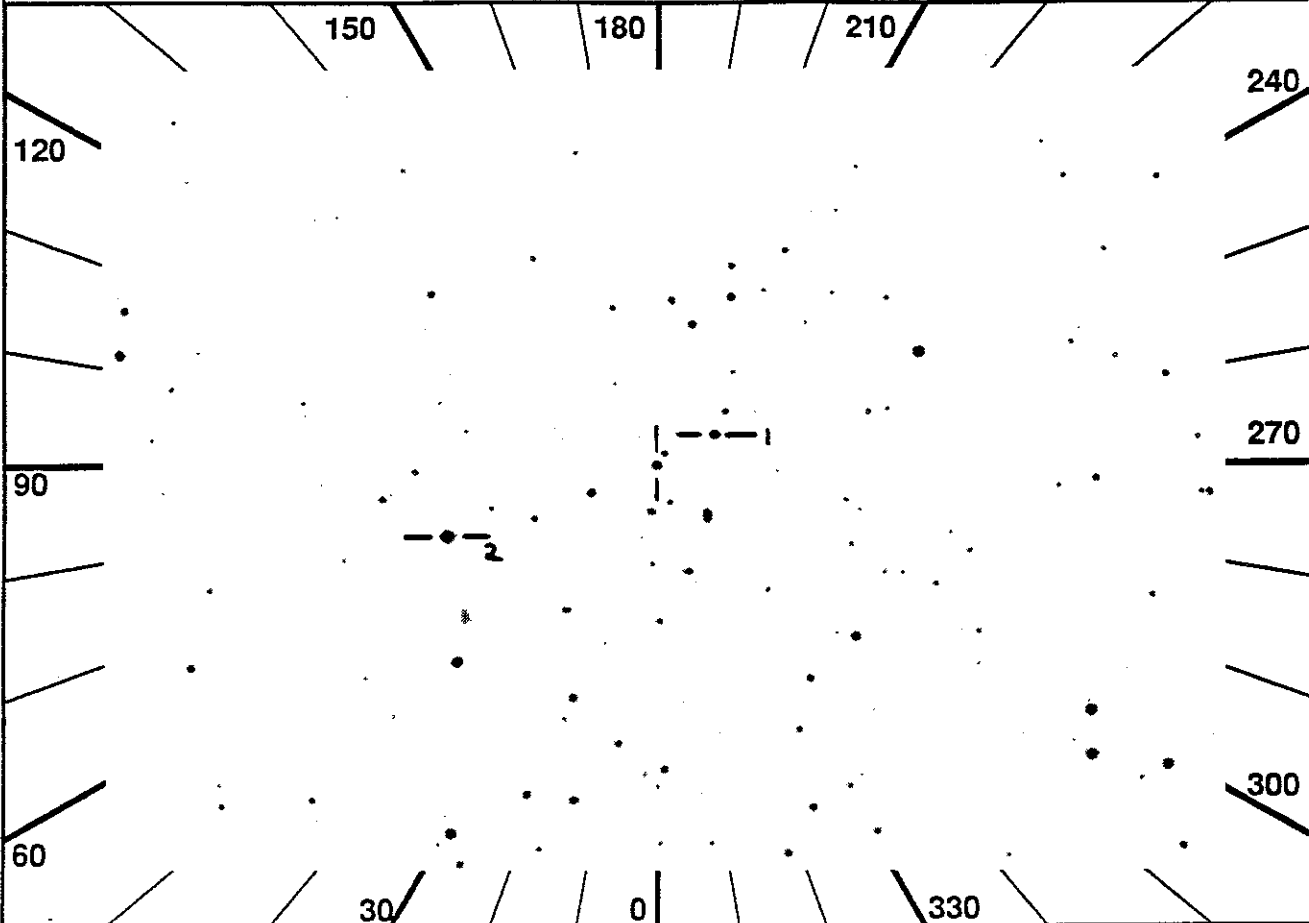
UIT  
Observation Description

1 RA 178.7909 DEC 49.2169 ROLL 195.75

ID 3216-13

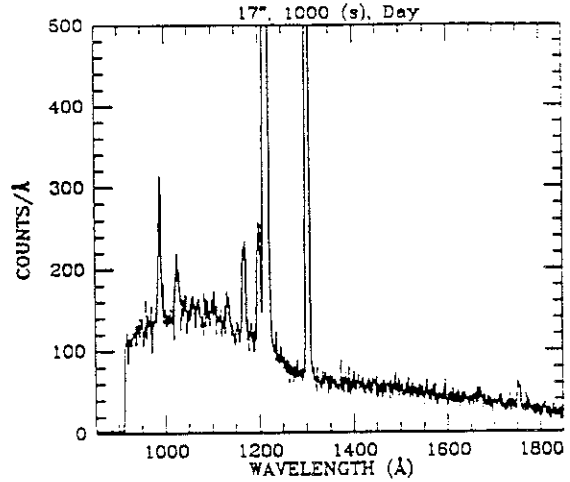
2 TIME 902

NAME BE-UMA

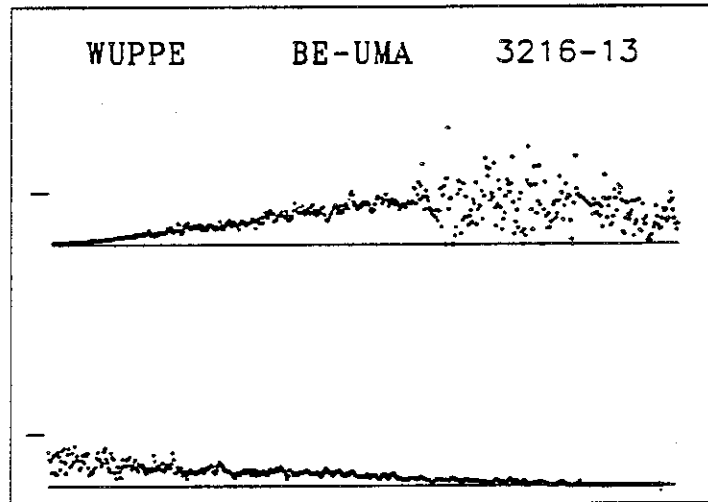


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	P H	263	src sim	16	15	3.4	5	7	4	---	---	---	---	---		
4	W	156	ncn ngd	15	11	2.4		2	2	---	---	---	---	---	VARWRN	FNTLOC
5	U	37	DT -		T F	31	b5									AST4SC
6	W		NOTE: var tgt- adj tv, sp					22	W			*	WUP	ITEM	4	(Cur off)
7	W		if reqd: WUP ALT-02,03					23	W			*	ELSE			
8	I		CMD WRI 3900					24	W			*	Config	without	WUP	
9	I		F007F0010FA0 (4s upd)					25					All	BEGIN		
10	I	IMC	Chk AST WAC incr once/4s					26	W			*	IF	WUP	Deconfig	
11	JAC		ITEM 16 0					27	W			*	WUP	ITEM	11	F+1
12			Config H W U					28	W			*	Cur	/ITEM	6	In fld, zm
13			-----					29	W			*	WUP	ITEM	4	(Cur off)
14	JAC		All SETUP					30	W			*	WUP	ITEM	7	(Begin)
15	W		Chk Stat -LOC -CUR RDY					31	W			*	Config	with	WUP	
16			IMC BEGIN					32				JOB	Observe			
17			HUT ITEM 5					33	JAC			All	PREVIEW			
18	W		WUP tgt= HUT faint star					34				All	QUIT			
19	W		*IF WUP target visible					35				-----				
20	W		* WUP PFK cur to target					36	JAC			ITEM	16	1		
21	W		* WUP ITEM 6 (Cntr)					37	I			CMD	ISS_3908	(1s	upd)	

OBJECT: 3216 BE UMa  
KEYWORDS: Peculiar CV or PG1159 WD  
COMMENTS:  
Variable 14.1-15.6 usually bright



ID: 3216-13  
Names: BE-UMA  
Type: O3 sd  
% Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments:

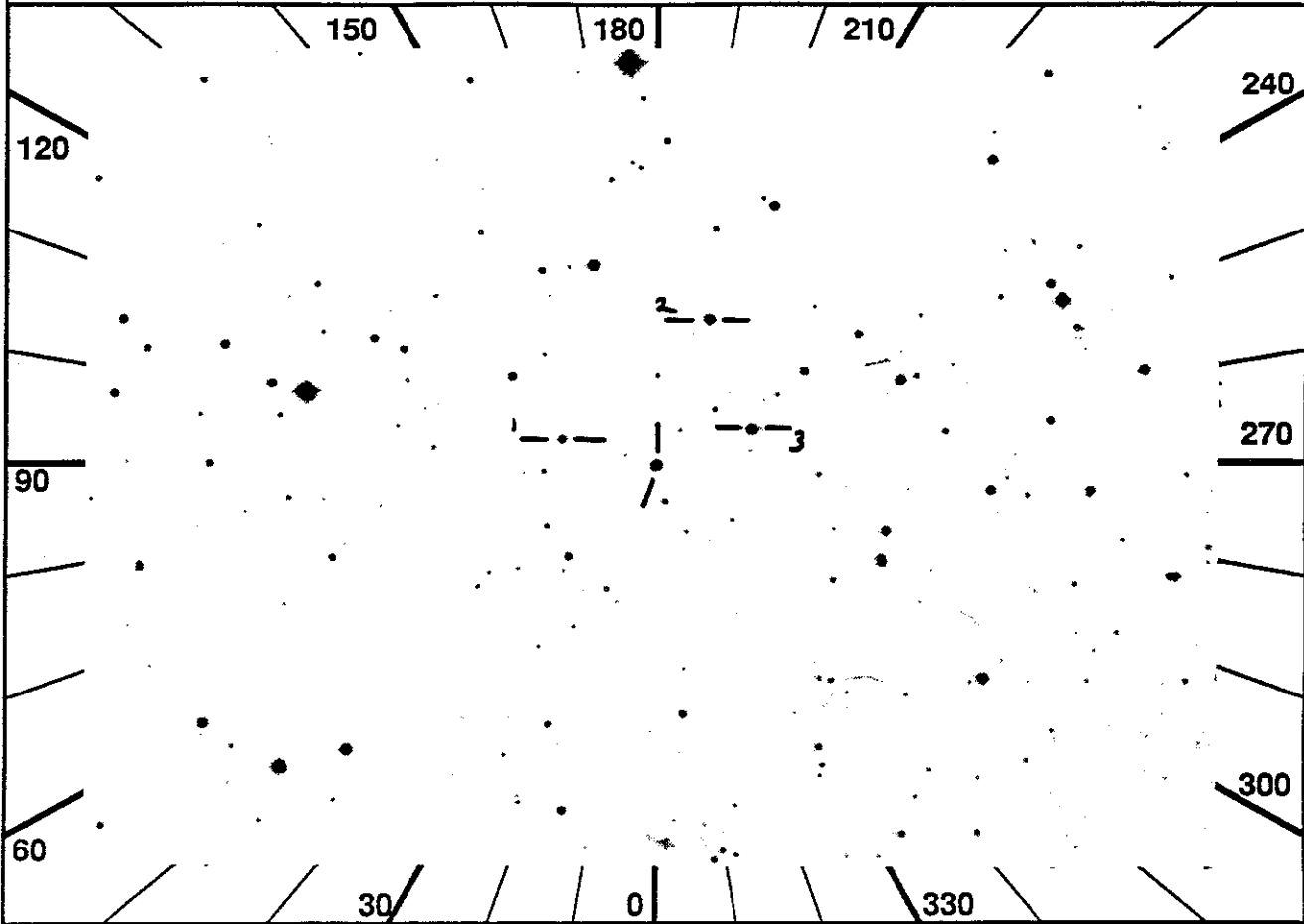


UIT  
Observation Description



1 RA 203.6754 DEC 52.1678 ROLL 186.26  
 2 TIME 2584

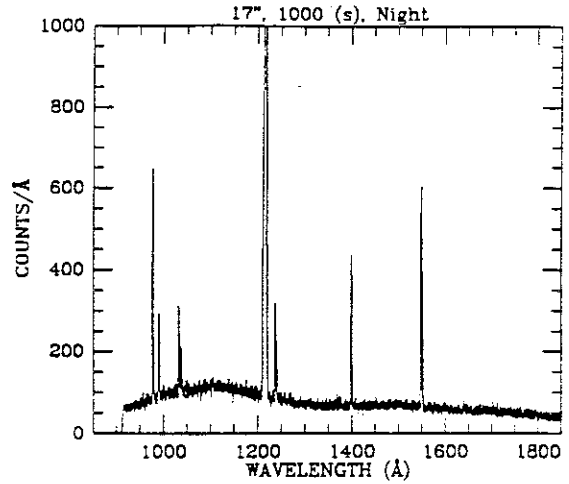
ID 3218-10  
 NAME UX-UMA



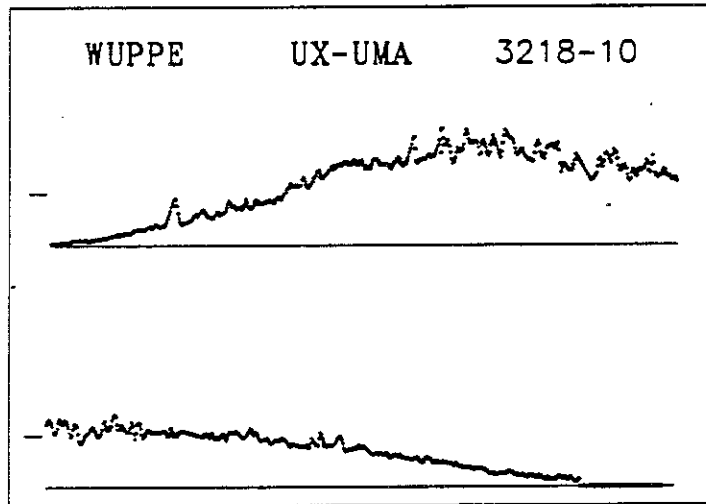
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2	
3	P H	92	src sim	14	15	3.4	5	7	4	---	---	---	---	---	---	W DARK	
4	W	157	aut aut	13	11	3.0		2	2	---	---	---	---	---	---	VARWRN	
5	U	245	DT 49	T F	62	b5	187	b1	---	---	---	---	---	---	---	LTSTRT	
6	W		NOTE: var tgt- adj tv,sp				17			HUT ITEM 5							
7	W		if reqd: WUP ALT-02,03				18	U		Config without UIT							
8	JAC		ITEM 16 0				19			All BEGIN							
9			Config H W U				20	U	JOB	Wait for TIME AVAIL 2184							
10			-----				21	U		UIT BEGIN							
11	JAC		All SETUP				22	U	JAC	Config with UIT							
12	H	-	Note: faint target--if				23		JOB	Observe							
13	H		necessary wait until				24		JAC	All PREVIEW							
14	H		night to acquire.				25			All QUIT							
15	JAC		Chk Stat -LOC -LOC RDY				26			-----							
16			IMC BEGIN				27		JAC	ITEM 16_1							

*sometimes goes dim*  
 |

OBJECT: 3218 UX UMA  
KEYWORDS: Prototype novalike CV  
COMMENTS:  
Variable  
Eclipse & out of eclipse obs planned  
Out of eclipse spectrum shown  
Eclipse rate approx 1/3 of this



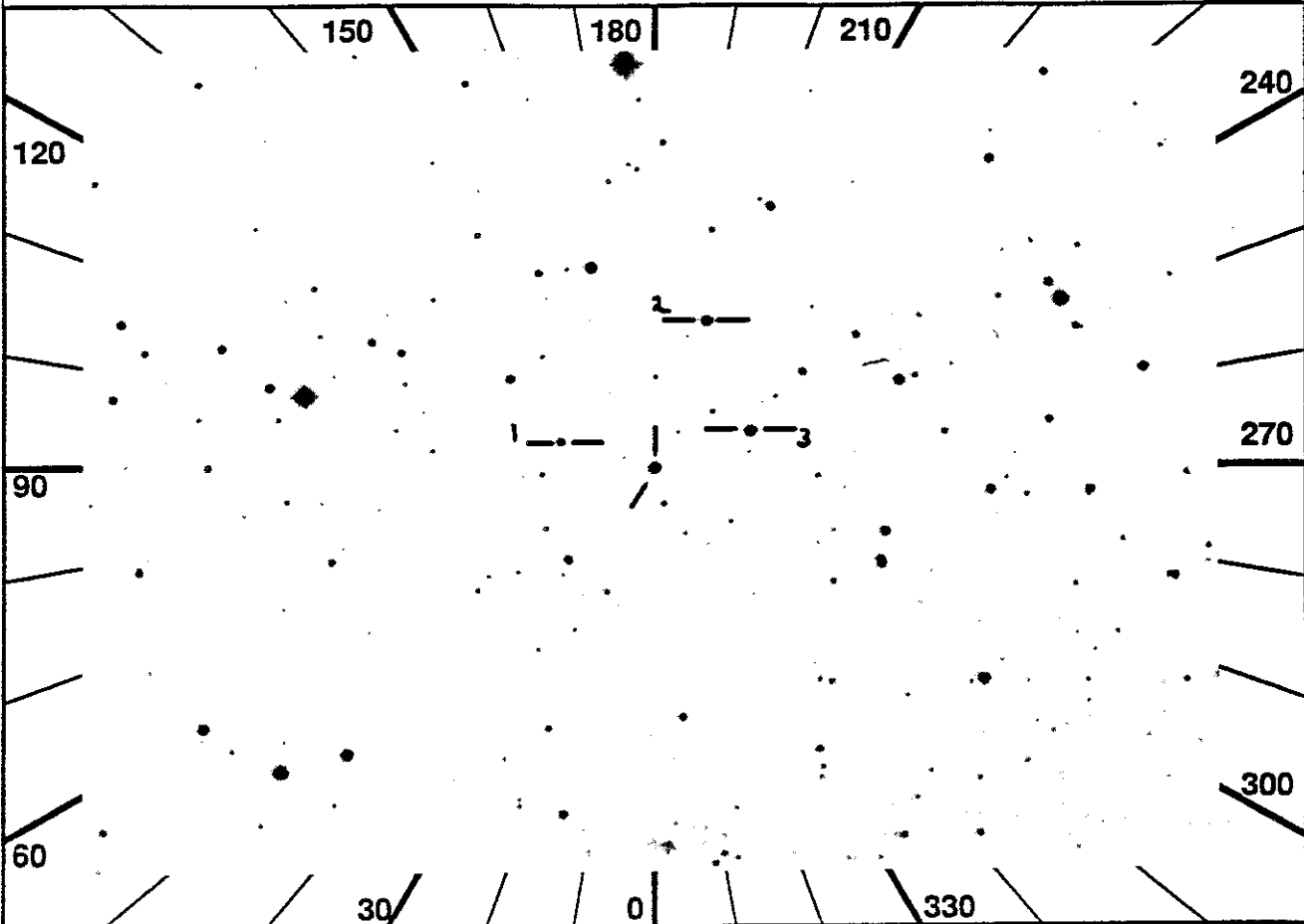
ID: 3218-10  
Names: UX-UMA  
Type: B0 sd  
% Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments:



UIT  
Observation Description

1 RA 203.6754 DEC 52.1678 ROLL 203.99  
 2 TIME 1415

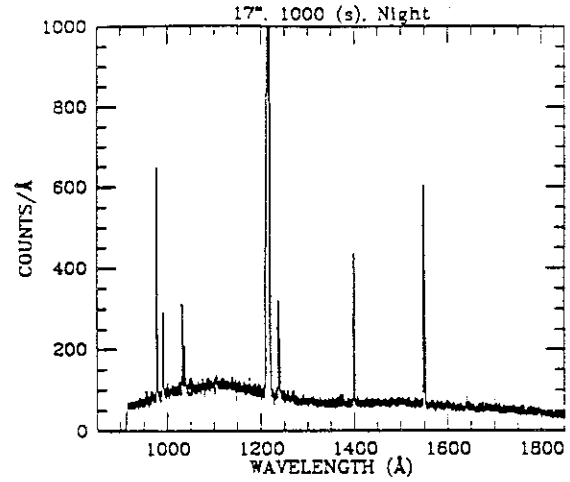
ID 3218-20  
 NAME UX-UMA



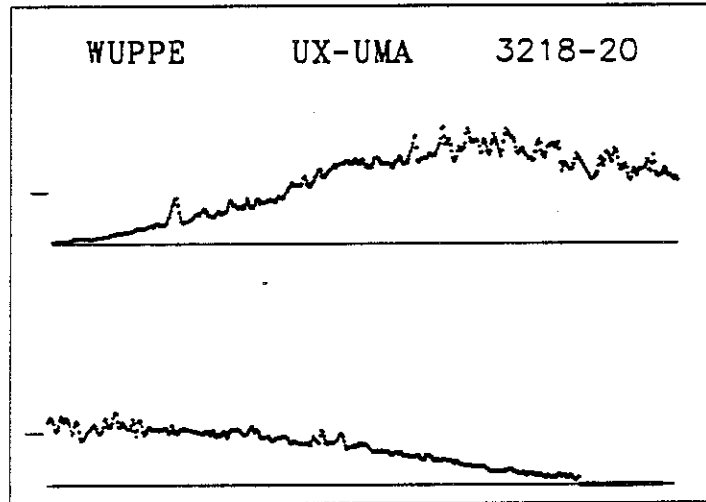
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2	
3	P H	224	src sim	14	15	3.4	5	7	4	---	---	---	---	---	---	W DARK	
4	W	157	aut aut	13	11	3.0		2	2	---	---	---	---	---	---	VARWRN	
5	U	244	DT -	T F	62	b5	187	a1	-	-	-	-	-	-	-	-	
6	W		NOTE: var tgt- adj tv,sp				15	JAC	Chk	Stat	-LOC	-LOC	RDY				
7	W		if reqd: WUP ALT-02,03				16		IMC	BEGIN							
8	JAC		ITEM 16 0				17		HUT	ITEM	5						
9			Config H W U				18		All	BEGIN							
10			-----				19	JOB	Observe								
11	JAC		All SETUP				20	JAC	All	PREVIEW							
12	H -		Note: faint target--if				21		All	QUIT							
13	H		necessary wait until				22		-----								
14	H		night to acquire.				23	JAC	ITEM	16_1							

*sometimes goes dim*  
 |

OBJECT: 3218 UX UMA  
KEYWORDS: Prototype novalike CV  
COMMENTS:  
Variable  
Eclipse & out of eclipse obs planned  
Out of eclipse spectrum shown  
Eclipse rate approx 1/3 of t: is



ID: 3218-20  
Names: UX-UMA  
Type: B0 sd  
\* Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments:



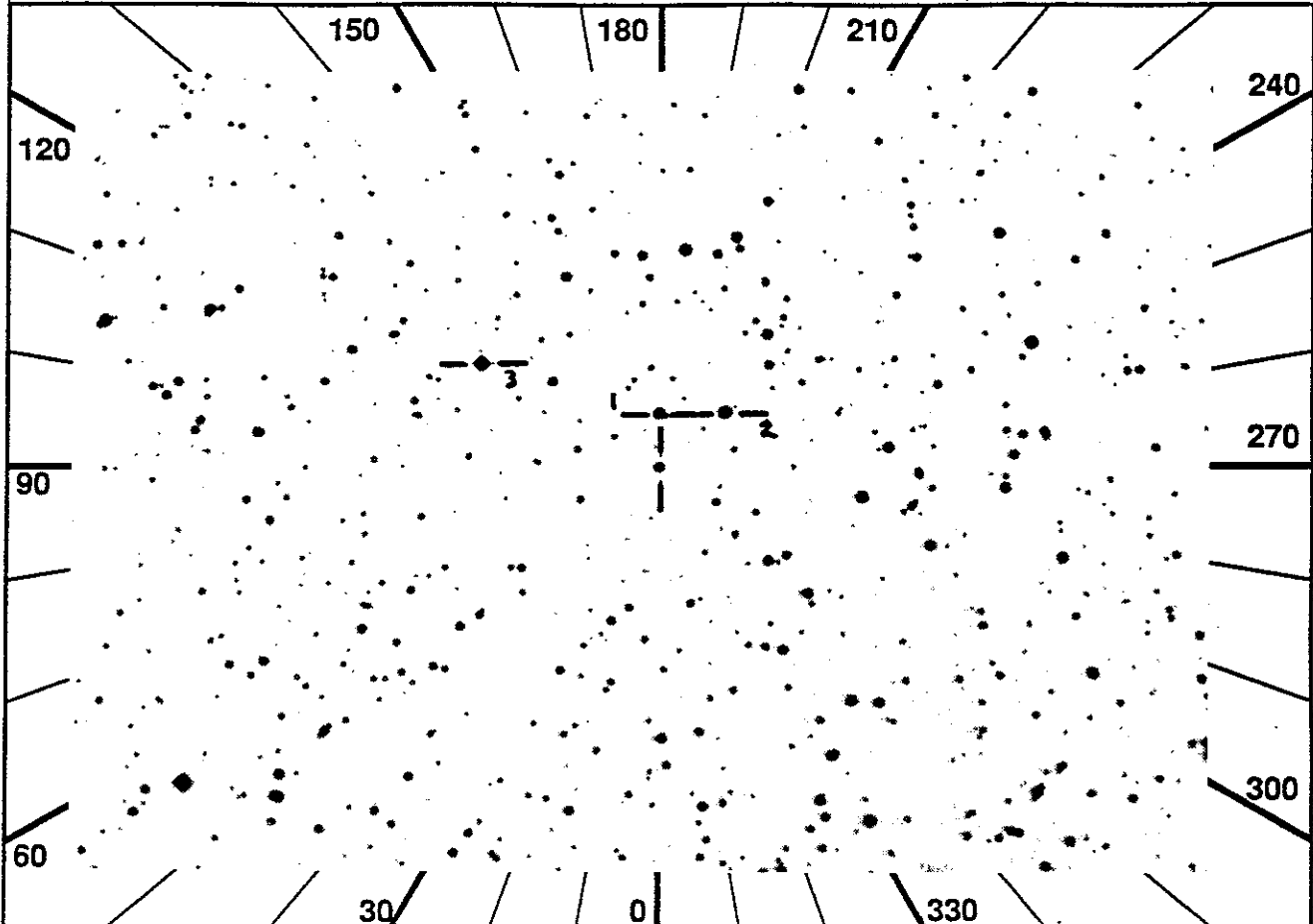
UIT  
Observation Description

1 RA 273.7448 DEC 49.8486 ROLL 295.00

ID 3223-10

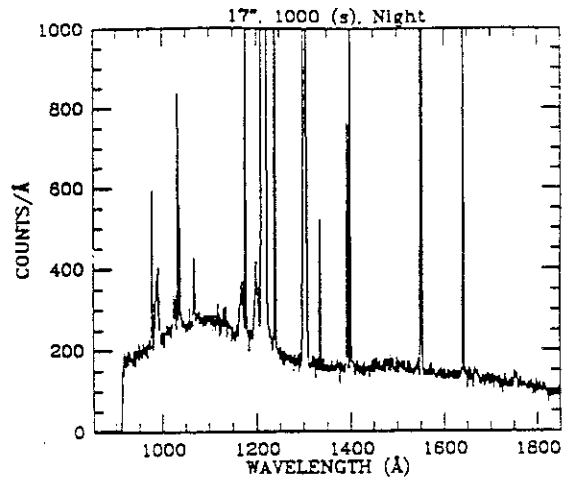
2 TIME 2028

NAME AM-HER

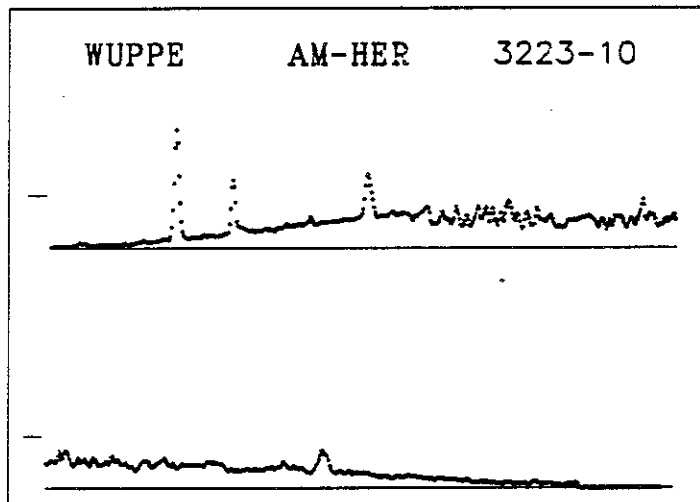


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2	
3	P H	229	src sim	15	13	3.3	5	7	4	---	---	---	---	---	SU-UMA	W-DARK	
4	W	158	aut aut	12	10	3.0		2	2	---	---	---	---	---	VARWRN		
5	U	183	DT -	T F	156	b1	31	b5	-	-	-	-	-	-			
6	W		NOTE: var tgt- adj tv, sp				15										
7	W		if reqd: WUP ALT-02,03				16										
8	JAC		ITEM 16 0				17										
9			Config H W U				18										
10			-----				19										
11	JAC		All SETUP				20										
12	H TV		Variable star (could be				21										
13	H		brighter or fainter).				22										
14	JAC		Chk Stat -LOC -LOC RDY														

OBJECT: 3223 AM Her  
KEYWORDS: CV; AM-Her object  
COMMENTS:  
Variable 12.5-15.3  
H $\alpha$  state spectrum  
Lo state flux about half this  
Count rate will vary with orbit phase



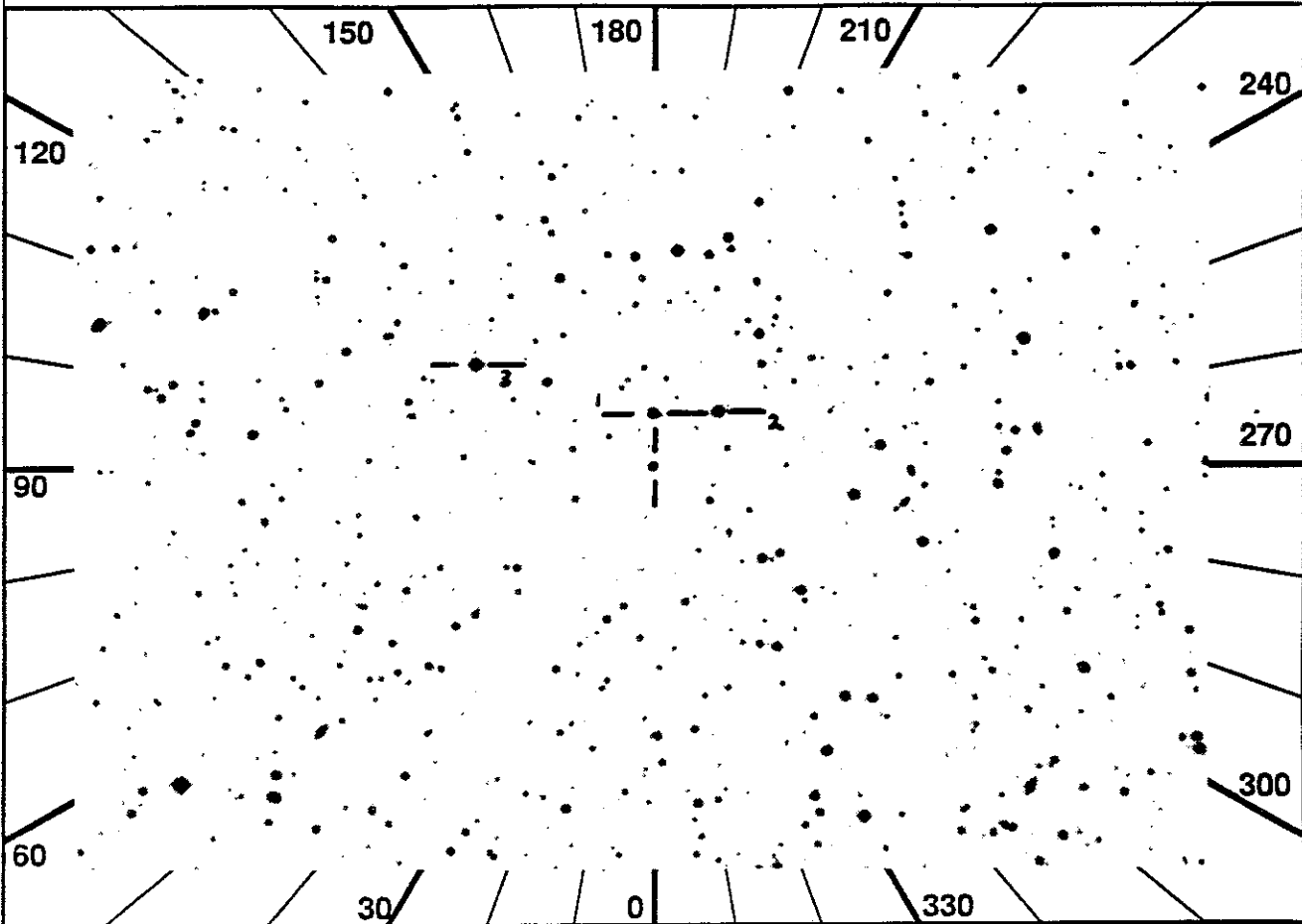
ID: 3223-10  
Names: AM-HER  
Type: Am-Her  
% Pol: 5  
Pol Var: -10 to 3% in  
circular, 0 to 6 in linear  
Pos Ang: 155  
Mechanism: accretion in  
magnetic field  
Max V mag: 11.9  
Min V mag: 15  
Ave Recurrence time: years,  
usually it's in high state  
Comments: phase = 0.3  
(phase 0.80 = circ pol. peak)  
Co-pointing with BEXRT.



UIT  
Observation Description

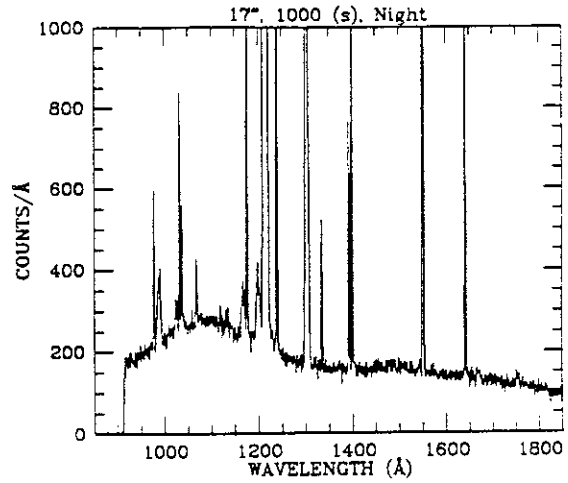
1 RA 273.7448 DEC 49.8486 ROLL 295.00  
 2 TIME 2447

ID 3223-20  
 NAME AM-HER

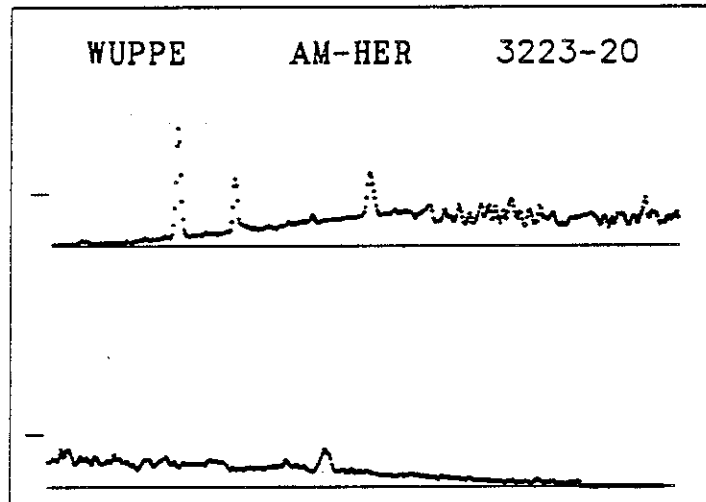


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	P H	240	src sim	15	13	3.3	5	7	4	---	---	---	---	---	SU-UMA	W-DARK
4	W	158	aut aut	12	10	3.0		2	2	---	---	---	---	---	VARWRN	
5	U	195	DT -	T F	156	a1	31	b5	-	-	-	-	-	-	LTSTRT	
6	W		NOTE: var tgt- adj tv, sp				17	U	Config without UIT							
7	W		if reqd: WUP ALT-02,03				18		All BEGIN							
8	JAC		ITEM 16 0				19	U	JOB Wait for TIME AVAIL 2184							
9			Config H W U				20	U	UIT BEGIN							
10			-----				21	U	JAC Config with UIT							
11	JAC		All SETUP				22		JOB Observe							
12	H TV		Variable star (could be				23	JAC	All PREVIEW							
13	H		brighter or fainter).				24		All QUIT							
14	JAC		Chk Stat -LOC -LOC RDY				25		-----							
15			IMC BEGIN				26	JAC	ITEM 16_1							
16			HUT ITEM 5													

OBJECT: 3223 AM Her  
KEYWORDS: CV; AM-Her object  
COMMENTS:  
Variable 12.5-15.3  
Hi state spectrum  
Lo state flux about half this  
Countrate will vary with orbit phase



ID: 3223-20  
Names: AM-HER  
Type: D  
Pol: 5  
Pol Var: -10 to 3% in circular,  
0 to 6 in linear  
Pos Ang: 155  
Mechanism: accretion in  
magnetic field  
Max V mag: 11.9  
Min V mag: 15  
Ave Recurrence time: years,  
usually it's in high state  
Comments: phase = 0.7  
(phase 0.8 = circ pol. peak)  
Co-pointing with BBXRT.

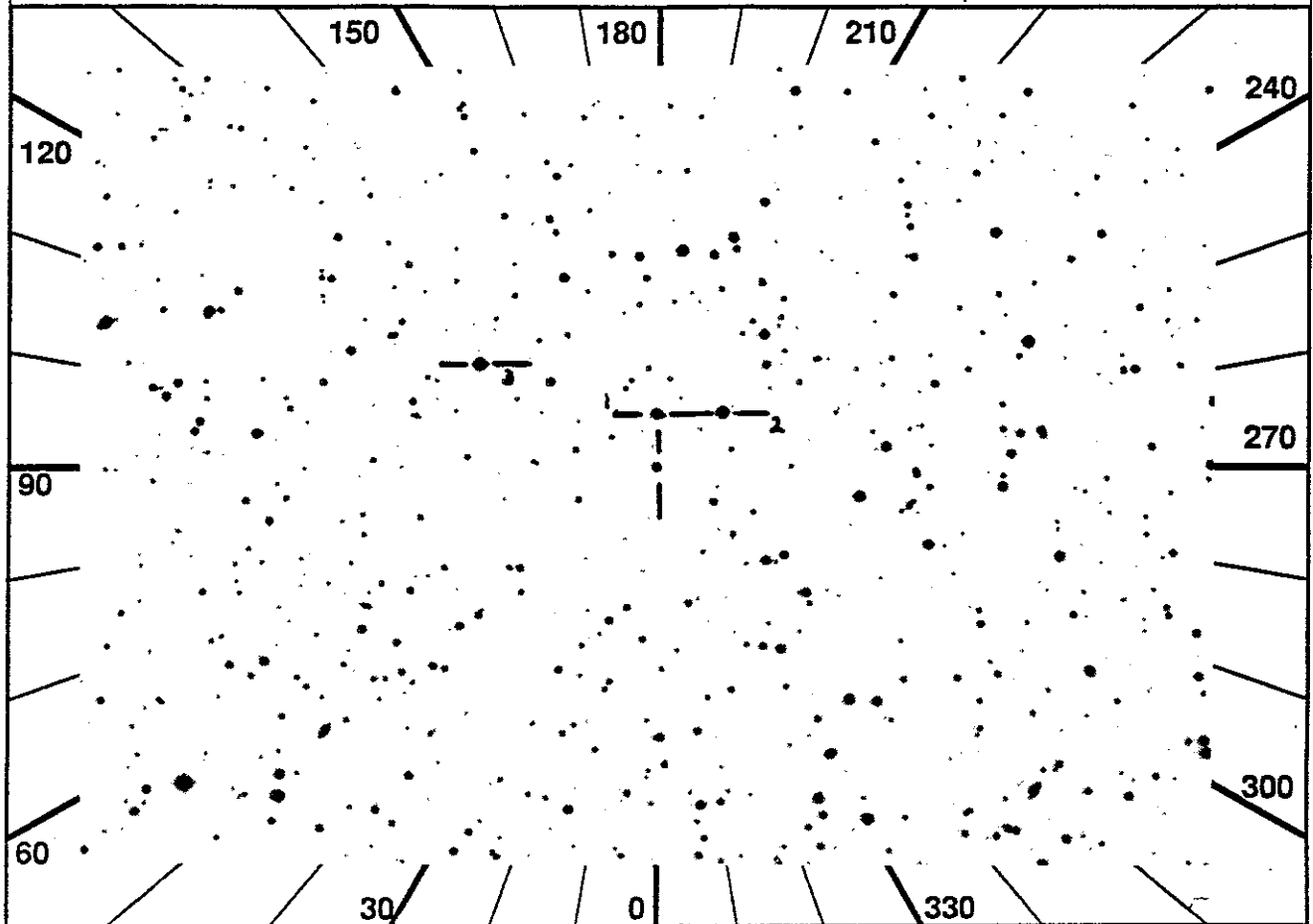


UIT  
Observation Description



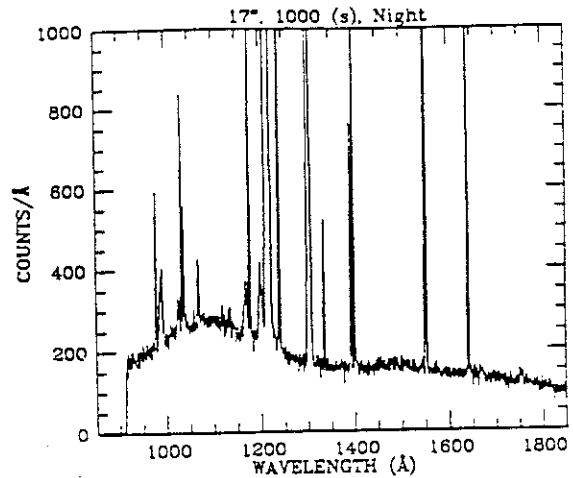
1 RA 273.7448 DEC 49.8486 ROLL 295.00  
 2 TIME 1484

ID 3223-30  
 NAME AM-HER

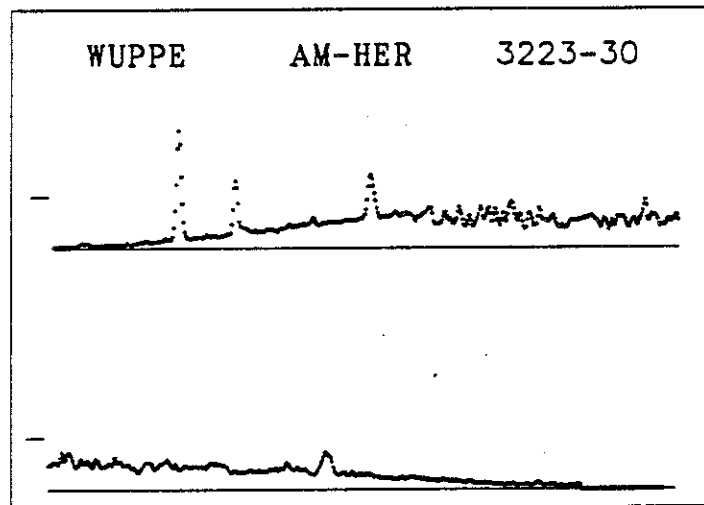


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2	
3	P H	150	src sim	15	13	3.3	5	7	4	---	---	---	---	---	SU-UMA		
4	W	158	aut aut	12	10	3.0		2	2	---	---	---	---	---	VARWRN		
5	U	22	DT -	T F	31	a6											
6	W		NOTE: var tgt- adj tv, sp				15										
7	W		if reqd: WUP ALT-02,03				16										
8	JAC		ITEM 16 0				17										
9			Config H W U				18										
10			-----				19										
11	JAC		All SETUP				20										
12	H TV		Variable star (could be				21										
13	H		brighter or fainter).				22										
14	JAC		Chk Stat -LOC -LOC RDY														

OBJECT: 3223 AM Her  
KEYWORDS: CV; AM-Her object  
COMMENTS:  
Variable 12.5-15.3  
Hi state spectrum  
Lo state flux about half this  
Count rate will vary with orbit phase

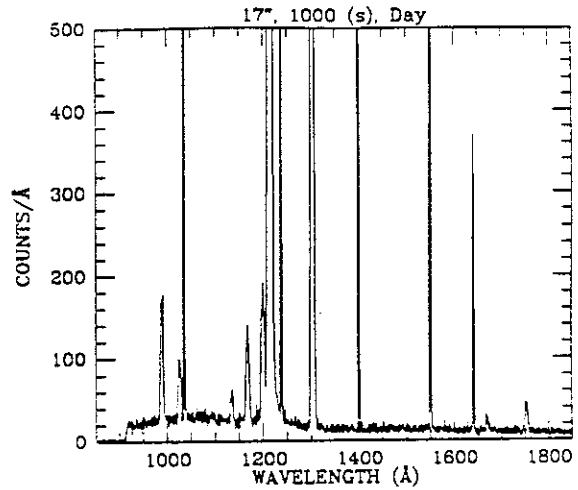


ID: . 3223-30  
Names: AM-HER  
Type: D  
Pol: 5  
Pol Var: -10 to 3% in circular,  
0 to 6 in linear  
Pos Ang: 155  
Mechanism: accretion in  
magnetic field  
Max V mag: 11.9  
Min V mag: 15  
Ave Recurrence time: years,  
usually it's in high state  
Comments: phase = 0.66  
(phase 0.8 = circ pol. peak)  
Co-pointing with BBXRT.

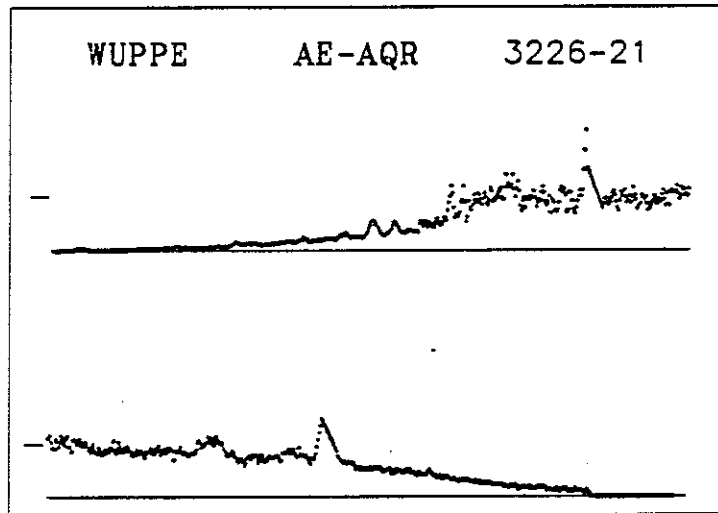


UIT  
Observation Description

OBJECT: 3226 AE Aqr  
KEYWORDS: CV; Peculiar dwarf nova  
COMMENTS:  
Variable 9-12.5  
Usually in low state  
Primarily Emission Lines



ID: 3226-21  
Names: AE-AQR  
Type: DN, DQ Her  
Pol: 0.7  
Pol Var: 0.16 to 0.7  
Pos Ang: 82  
Max V mag: 9.8  
Min V mag: 11.8  
Ave Recurrence time: 300d  
Comments:  
HUT Prime. If in outburst,  
use Xtargetbook sequence.  
Co-pointing with BBXRT.



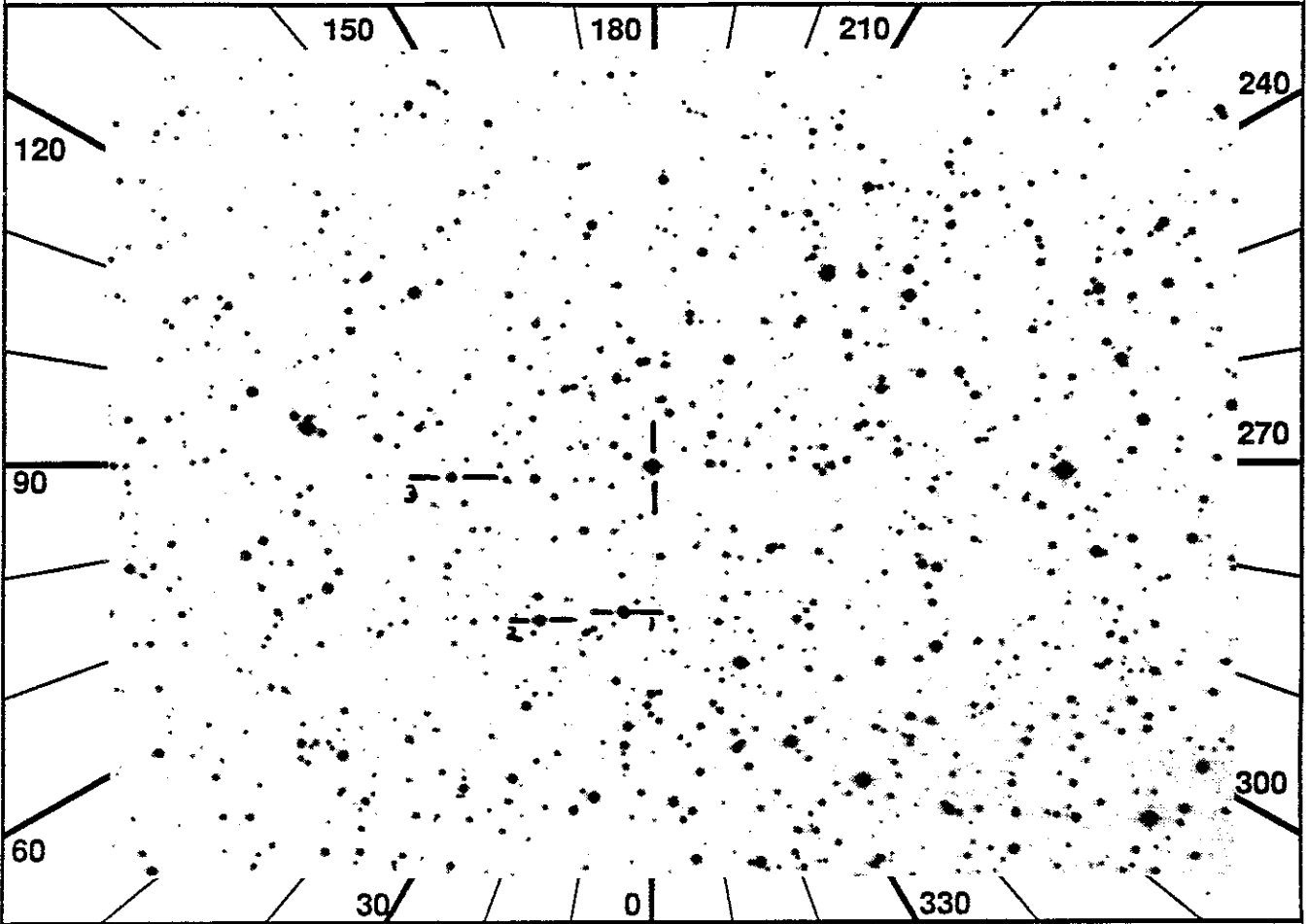
UIT  
Observation Description

1 RA 309.3929 DEC -1.0491 ROLL 58.73

ID 3226-21

2 TIME 711 MANOPS

NAME AE-AQR



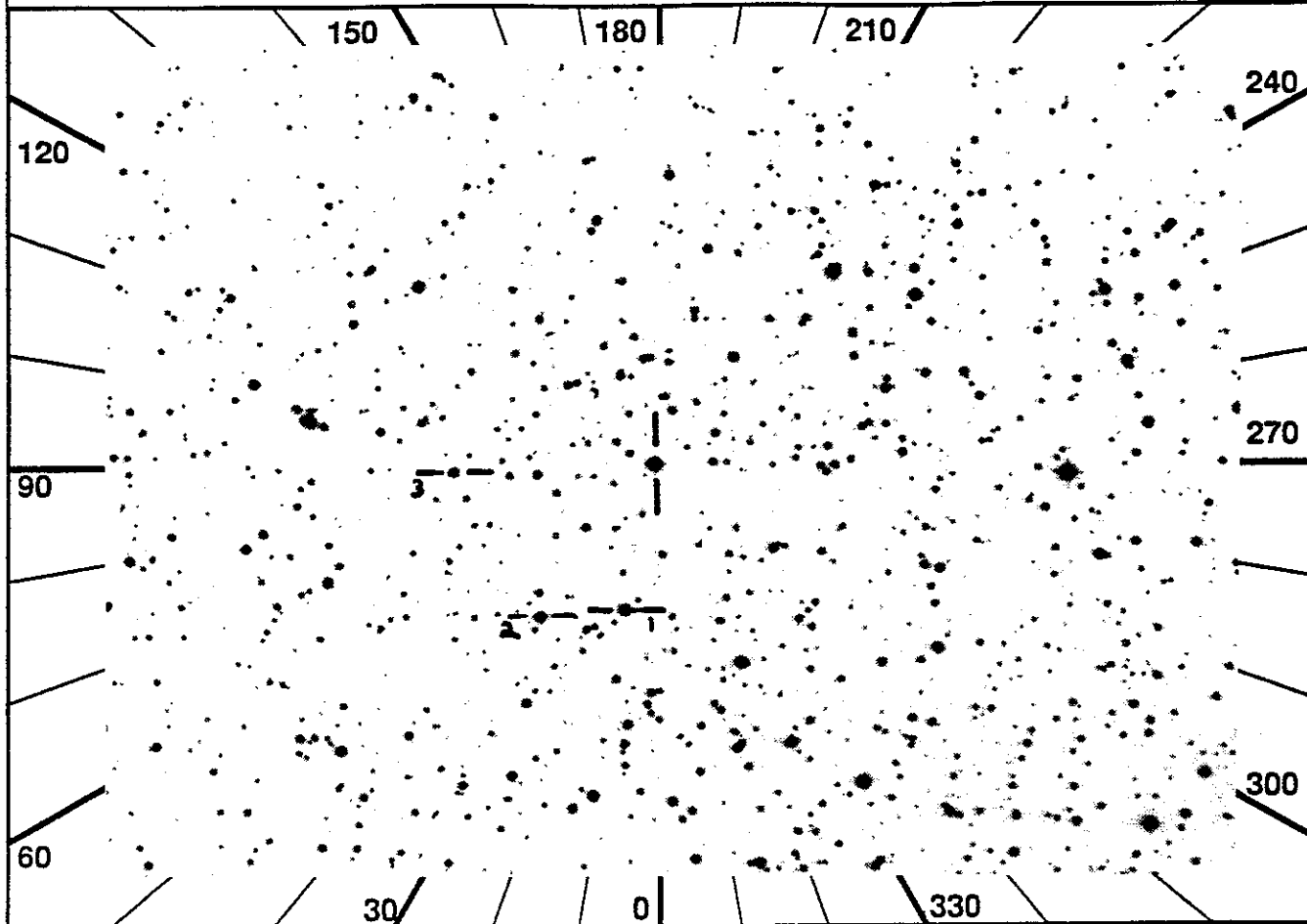
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2	
3	P	H	167	src	sim	13	15	3.3	5	7	4	---	---	---	SU-UMA		
4	W		159	fld	aut	12	10	2.6		2	2	---	---	---	VARWRN	FLDLOC	
5	U		246	DT	-	T	F	31	a5	31	b5	-	-	-			
6	W			NOTE: var tgt- adj tv, sp						18	W	* WUP PFK cur to target					
7	W			if reqd: WUP ALT-02,03						19	W	* WUP ITEM 6 (Cntr)					
8	JAC			ITEM 16_0						20	W	WUP ITEM 4 (Cur off)					
9				Config H W U						21	W	WUP ITEM 11_Z (Zoom)					
10				-----						22	W	Chk WUP Stat -LOC					
11	JAC			All SETUP						23		All BEGIN					
12	H	TV		Variable star (could be						24	JOB	Observe					
13	H			brighter or fainter).						25	JAC	All PREVIEW					
14	W	JAC		Chk Stat -LOC CUR RDY						26		All QUIT					
15				IMC BEGIN						27		-----					
16				HUT ITEM 5						28	JAC	ITEM 16_1					
17	W			*IF WUP acq incorrect													

1 RA 309.3929 DEC -1.0491 ROLL 58.73

ID 3226-22

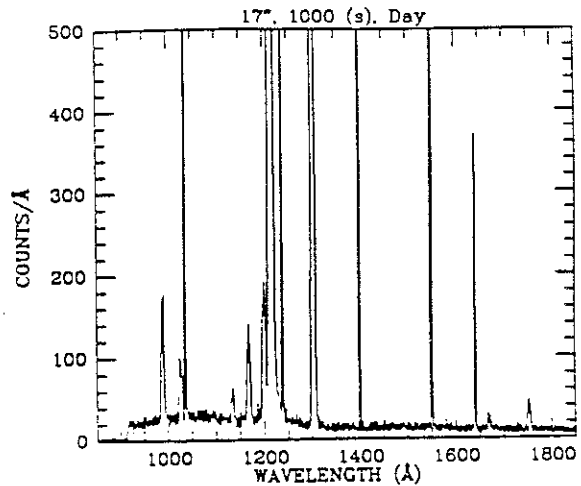
2 TIME 623 MANOPS

NAME AE-AQR



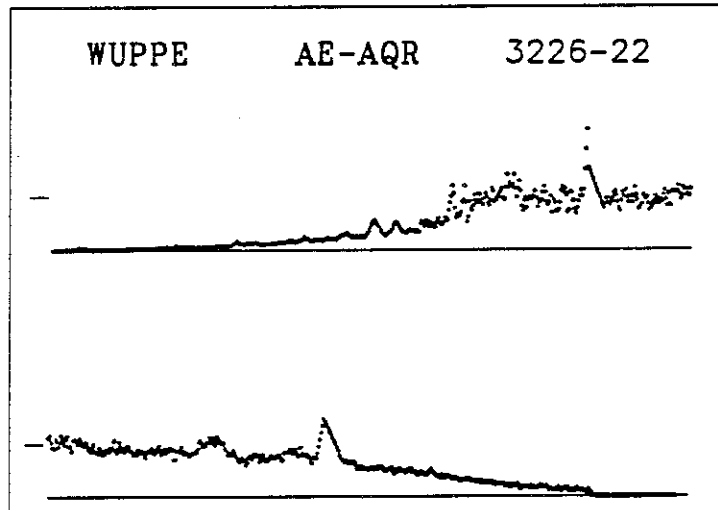
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2	
3	P	H	172	src	sim	13	15	3.3	5	7	4	---	---	---	SU-UMA		
4	W		159	fld	aut	12	10	2.6		2	2	---	---	---	VARWRN	FLDLOC	
5	U		247	DT	-	T	F	31	a2	31	a4	-	-	-			
6	W			NOTE: var tgt- adjtv, sp						18	W	* WUP PFK cur to target					
7	W			if reqd: WUP ALT-02,03						19	W	* WUP ITEM 6 (Cntr)					
8	JAC			ITEM 16 0						20	W	WUP ITEM 4 (Cur off)					
9				Config H W U						21	W	WUP ITEM 11 Z (Zoom)					
10				-----						22	W	Chk WUP Stat -LOC					
11	JAC			All SETUP						23		All BEGIN					
12	H	TV		Variable star (could be						24		JOB Observe					
13	H			brighter or fainter).						25	JAC	All PREVIEW					
14	W	JAC		Chk Stat -LOC CUR RDY						26		All QUIT					
15				IMC BEGIN						27		-----					
16				HUT ITEM 5						28	JAC	ITEM 16_1					
17	W			*IF WUP acq incorrect													

OBJECT: 3226 AE Aqr  
KEYWORDS: CV; Peculiar dwarf nova  
COMMENTS:  
Variable 9-12.5  
Usually in low state  
Primarily Emission Lines



ID: 3226-22  
Names: AE-AQR  
Type: DN, DQ Her  
Pol: 0.7  
Pol Var: 0.16 to 0.7  
Pos Ang: 82  
Max V mag: 9.8  
Min V mag: 11.8  
Ave Recurrence time: 300d

Comments:  
HUT Prime. If in outburst,  
use Xtargetbook sequence.  
Co-pointing with BBXRT.



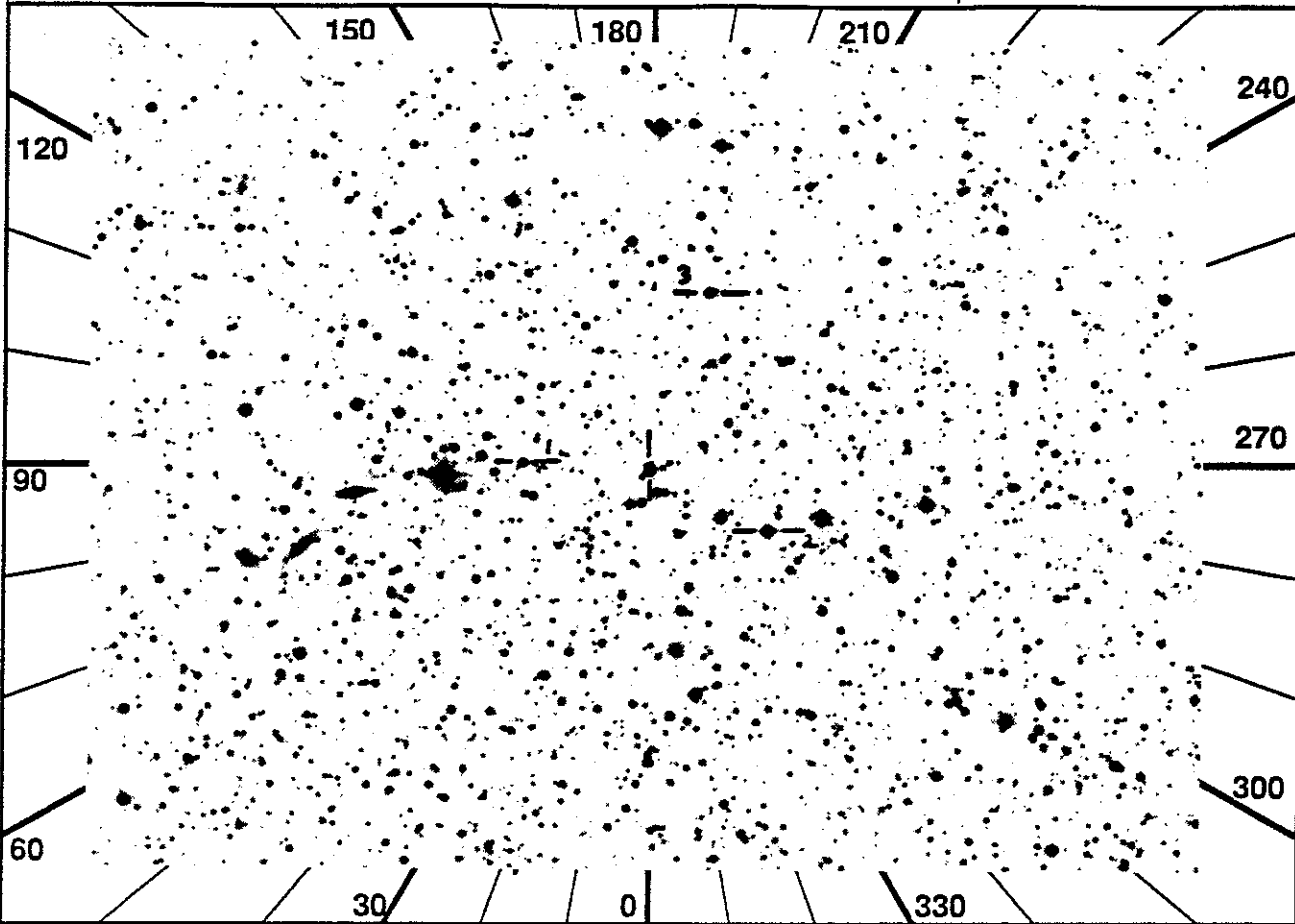
UIT  
Observation Description

1 RA 325.1853 DEC 43.3563 ROLL 102.97

ID 3227-21

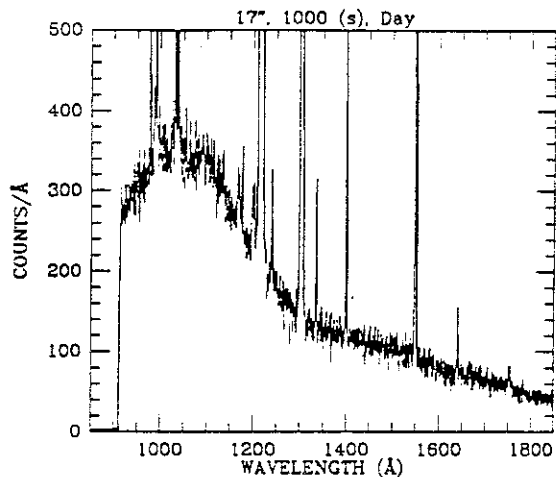
2 TIME 663 MANOPS

NAME SS-CYG

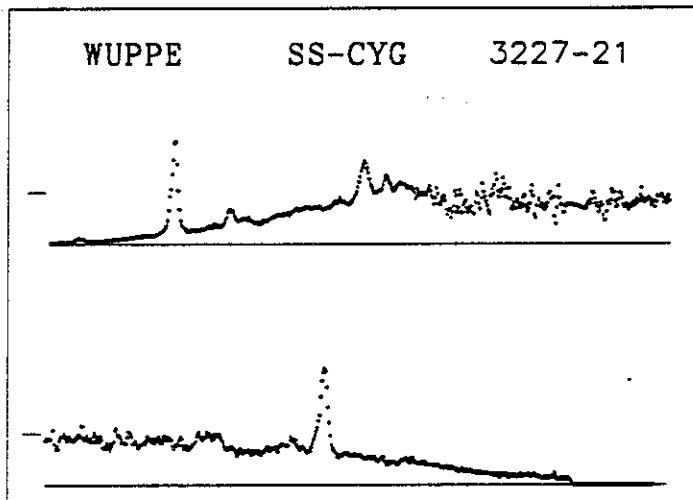


SEQ	LOC OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2	
3	P H 93	src sim	12	13	3.7	5	7	4	---	---	---	---	---	SSCYG		
4	W 160	fld aut	12	10	3.0		2	2	---	---	---	---	---	VARWRN	FLDLOC	
5	U 247	DT -	T F	31	a2	31	a4	-	-	-	-	-	-			
6	W	NOTE: var tgt- adj tv, sp				20										
7	W	if reqd: WUP ALT-02,03				21	W									
8	JAC	ITEM 16 0				22	W									
9		Config H W U				23	W									
10		-----				24	W									
11	JAC	All SETUP				25	W									
12	H TV	*IF src is very bright				26	W									
13	H JAC	* ITEM 16 1				27										
14	H	* Go to XTARGET BOOK and				28	JOB									
15	H	* edit HUT WUPPE seq num				29	JAC									
16	H	*ELSE				30										
17	H	* ITEM 12_13 (Faint mag)				31										
18	W	Chk Stat -LOC CUR RDY				32	JAC									
19		IMC BEGIN														

OBJECT: 3227 SS Cyg  
KEYWORDS: CV; Dwarf nova  
COMMENTS:  
Variable 8.2-12.2  
in hi state may need 50 door  
Lo state spectrum shown  
Hi state spec.-broad abs. lines



ID: 3227-21  
Names: SS-CYG HD206697  
Type: DN, SS-CYG  
Pol: 0.20  
Pol Var: none  
Pos Ang: 90  
Max V mag: 8.2  
Min V mag: 12  
Ave Recurrence time: 40d  
Comments:  
HUT Prime. If in outburst,  
use Halfwave sequence in  
Xtargetbook.



UIT  
Observation Description

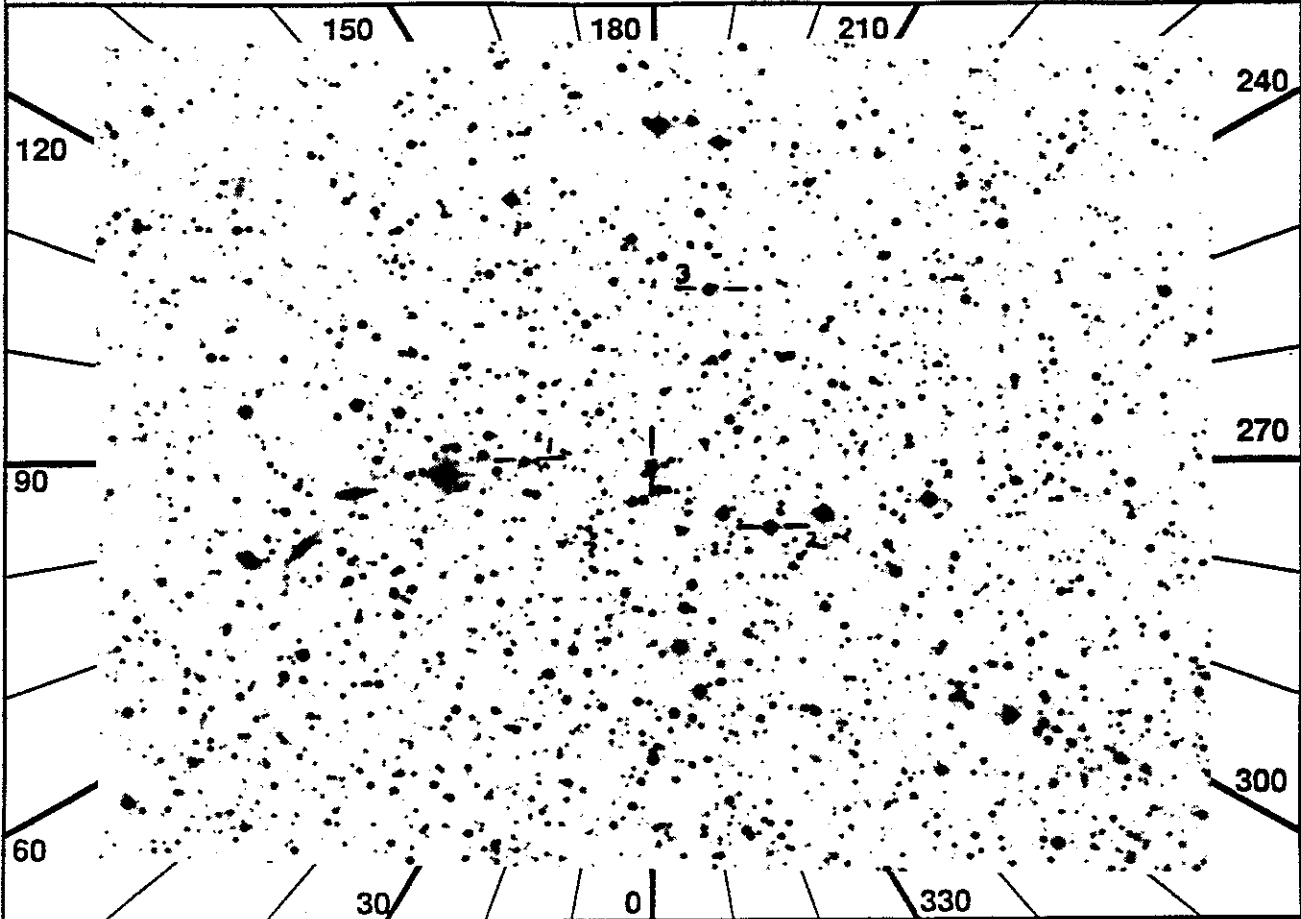


1 RA 325.1853 DEC 43.3563 ROLL 102.97

ID 3227-22

2 TIME 918 MANOPS

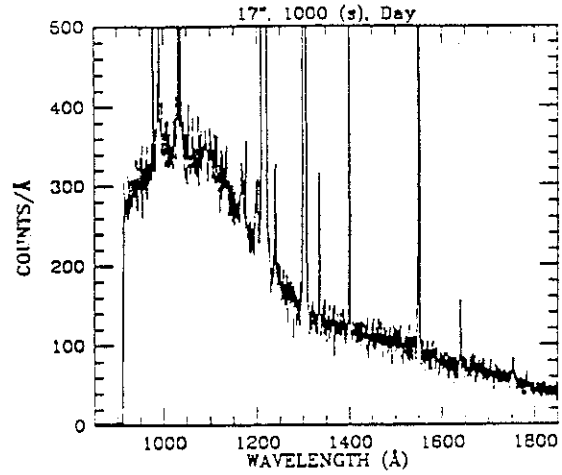
NAME SS-CYG



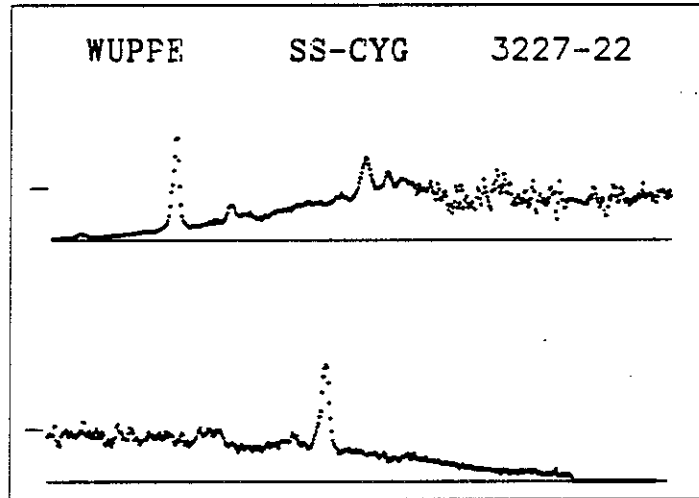
SEQ	LOC OBS	MAG	LGR D	A FM OF	A FM OF	A FM OF	ALT1	ALT2
3	P H 133	src sim 12 13	3.7 5	7 4 ---	---	---	SSCYG	
4	W 160	fld aut 12 10	3.0	2 2 ---	---	---	VARWRN FLDLOC	
5	U 246	DT -	T F 31 a5 31 b5	---	---	---		

6 W	NOTE: var tgt- adj tv, sp	20	HUT ITEM 5
7 W	if reqd: WUP ALT-02,03	21 W	*IF WUP acq incorrect
8 JAC	ITEM 16 0	22 W	* WUP PFK cur to target
9	Config H W U	23 W	* WUP ITEM 6 (Cntr)
10	-----	24 W	WUP ITEM 4 (Cur off)
11 JAC	All SETUP	25 W	WUP ITEM 11 Z (Zoom)
12 H TV	*IF src is very bright	26 W	Chk WUP Stat -LOC
13 H JAC	* ITEM 16 1	27	All BEGIN
14 H	* Go to XTARGET BOOK and	28	JOB Observe
15 H	* edit HUT WUPPE seq num	29	JAC All PREVIEW
16 H	*ELSE	30	All QUIT
17 H	* ITEM 12_13 (Faint mag)	31	-----
18 W	Chk Stat -LOC CUR RDY	32	JAC ITEM 16_1
19	IMC BEGIN		

OBJECT: 3227 SS Cyg  
KEYWORDS: CV; Dwarf nova  
COMMENTS:  
Variable 8.2-12.2  
In hi state may need 50 door  
Lo state spectrum shown  
Hi state spec.-broad abs. lines



ID: 3227-22  
Names: SS-CYG HD206697  
Type: DN, SS-CYG  
% Pol: 0.20  
Pol Var: none  
Pos Ang: 90  
Max V mag: 8.2  
Min V mag: 12  
Ave Recurrence time: 40d  
Comments:  
HUT Prime. If in outburst,  
use Halfwave sequence in  
Xtargetbook.



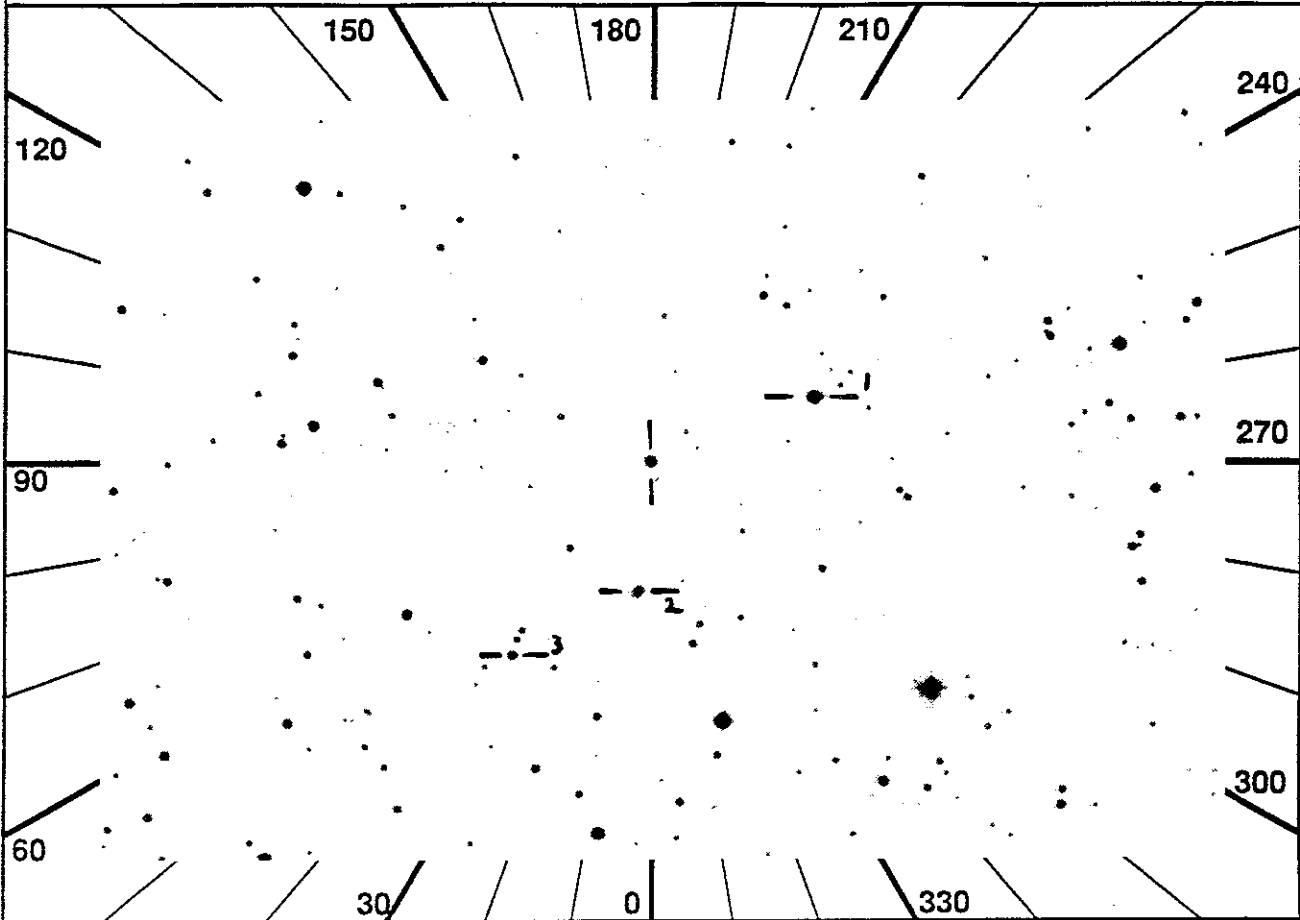
UIT  
Observation Description

1 RA 343.1796 DEC -3.4444 ROLL 203.71

ID 3260-10

2 TIME 2626

NAME 2252-035



SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	P H	142	src sim	15	16	3.1	5	7	4	---	---	---	---	---	2252	
4	W	161	aut aut	13	11	2.8		2	2	---	---	---	---	---	VARWRN	
5	U	194	DT -	T F	31	a1	31	b1	62	b5	62	a2	62	a5	LTSTRT	

```

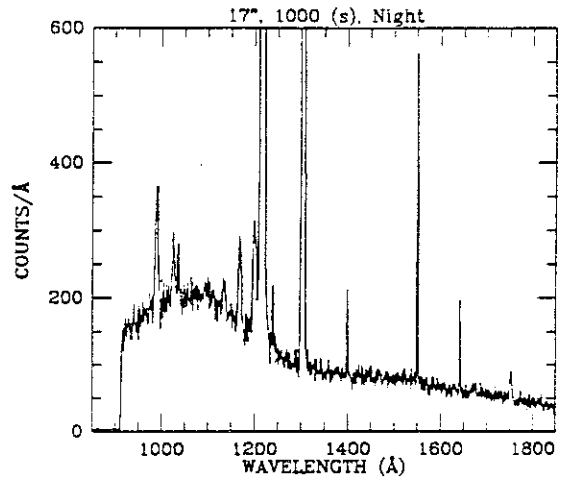
6 W      NOTE: var tgt- adj tv, sp      17 U JOB Wait for TIME AVAIL 2184
7 W      if reqd: WUP ALT-02,03        18 U      UIT BEGIN
8 JAC    ITEM 16 0                      19 U JAC Config with UIT
9        Config H W U                   20 JOB Observe
10       -----                        21 H      *IF LOG R < 2.6
11 JAC   All SETUP                       22 H HOP * ITEM 41_1 (30" slit) 52_1
12      Chk Stat -LOC -LOC RDY          23 H      * ITEM 39_1 (histo mode) 53_1
13      IMC BEGIN                       24 JAC All PREVIEW
14      HUT ITEM 5                       25      All QUIT
15 U     Config without UIT              26      -----
16      All BEGIN                       27 JAC ITEM 16_1

```

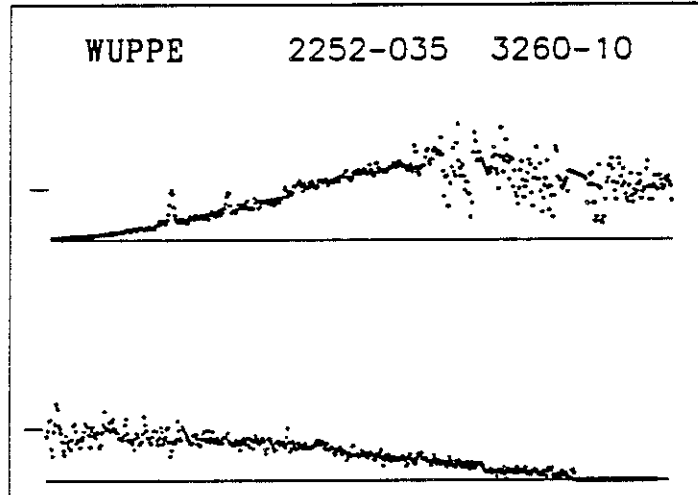
MOVE THESE STEPS

*tough acq*

OBJECT: 3260 H2252-035==AO Psc  
KEYWORDS: CV; DQ Her binary  
COMMENTS:  
Very faint guidestars  
Guidestars may be galaxies  
Variable 13.3-14.3



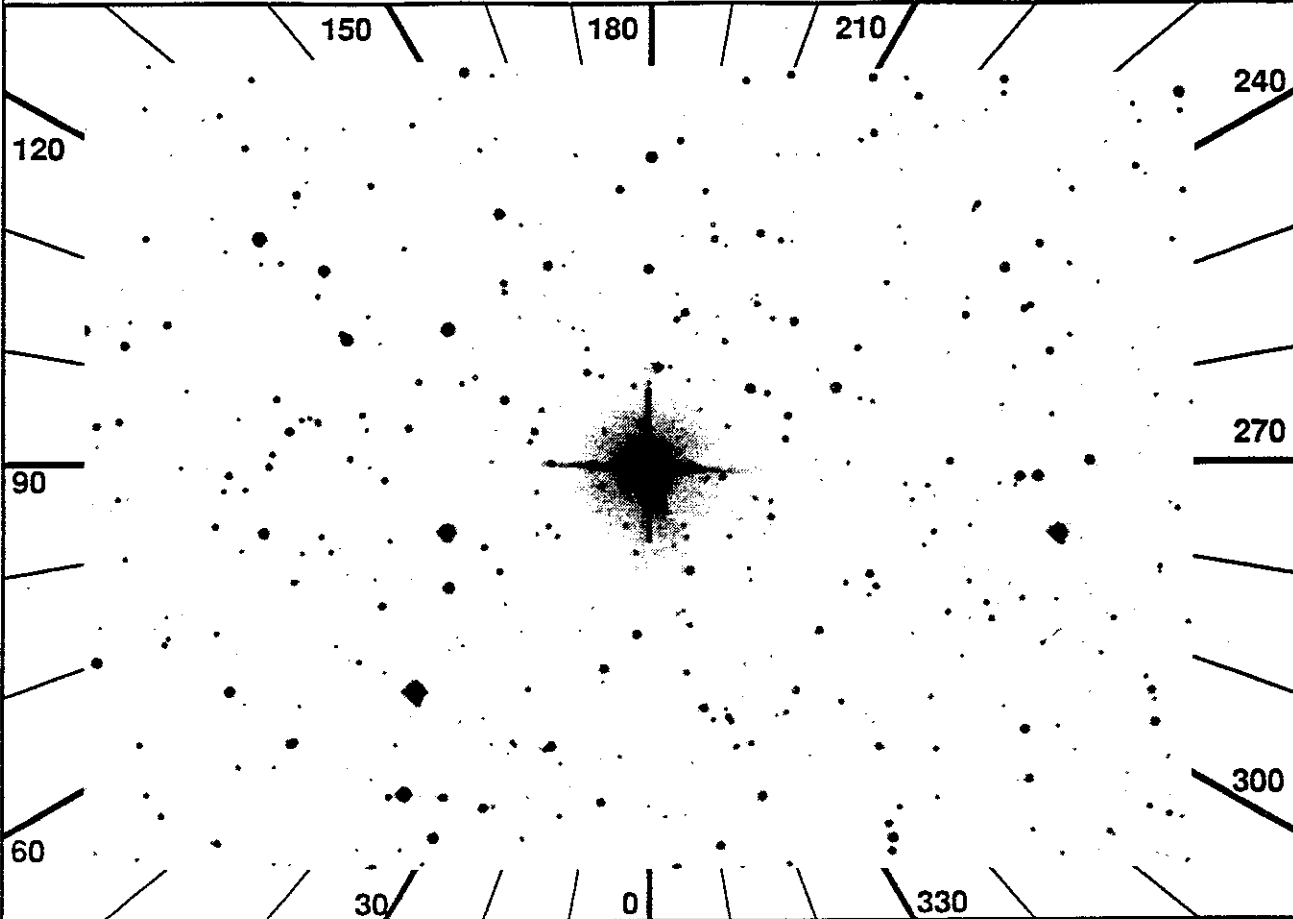
ID: 3260-10  
Names: 2252-035 AO-Psc  
Type:  
Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments:



UIT  
Observation Description

1 RA 258.8692 DEC 33.1528 ROLL 151.52  
 2 TIME 1505

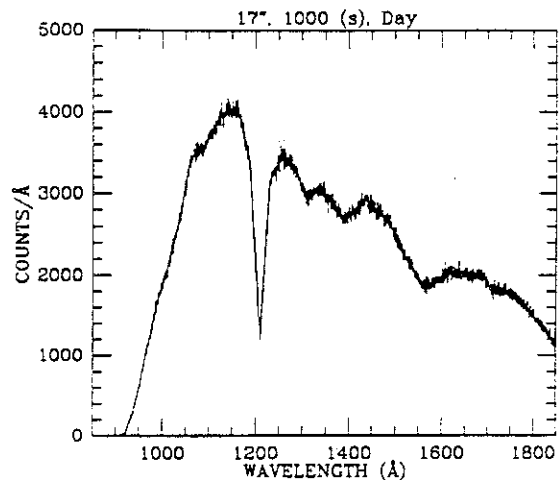
ID 3308-10  
 NAME 68HER



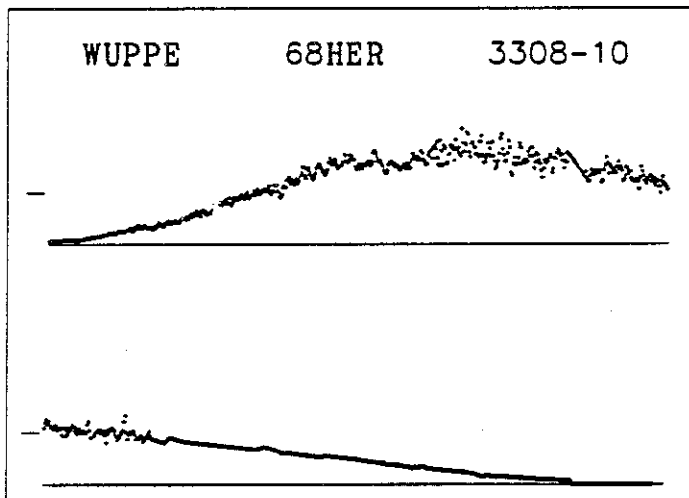
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	84	src	sim	6	6	4.7	2	7	1	---	---	---	---	SMALAP	
4	P	W 162	aut	aut	5	2	6.4		8	6	---	---	---	---		
5	U	99	DT	-		T	F	-	-	-	-	-	-	-	V-BRT	
6	U		(At beginning of slew)						19	H	HSP	When actual slit pos=7				
7	U	UAC	*IF UIT Door O*						20	H	JAC	ITEM 16_0				
8	U		* ITEM 44, Chk Door C*						21		JOB	Observe				
9	U		Expect UIT SET,OBS err						22		JAC	All PREVIEW				
10	H	JAC	VIP ON until at obs slit						23	H	HDC	(just prior to QUIT)				
11			Config H W U						24	H		ITEM 61_0 (ND6 filt)				
12			-----						25	H		Check 6I_0_0				
13		JAC	All SETUP						26	H	JAC	ITEM 16 I_0				
14	J		Chk	Stat	-	-	LOC	STB	27		All QUIT					
15	H	TV	Verify HUT acq on TV						28		-----					
16		JAC	IMC BEGIN						29	U		(During slew)				
17			HUT ITEM 5						30	U	UAC	*IF next obj not V-BRT				
18			All BEGIN						31	U		* ITEM 43, Chk Door O*				

2

OBJECT: 3308 68 Her  
KEYWORDS: Bright B 1.5 Vp Star  
COMMENTS:  
50 cm\*\*2 aperture



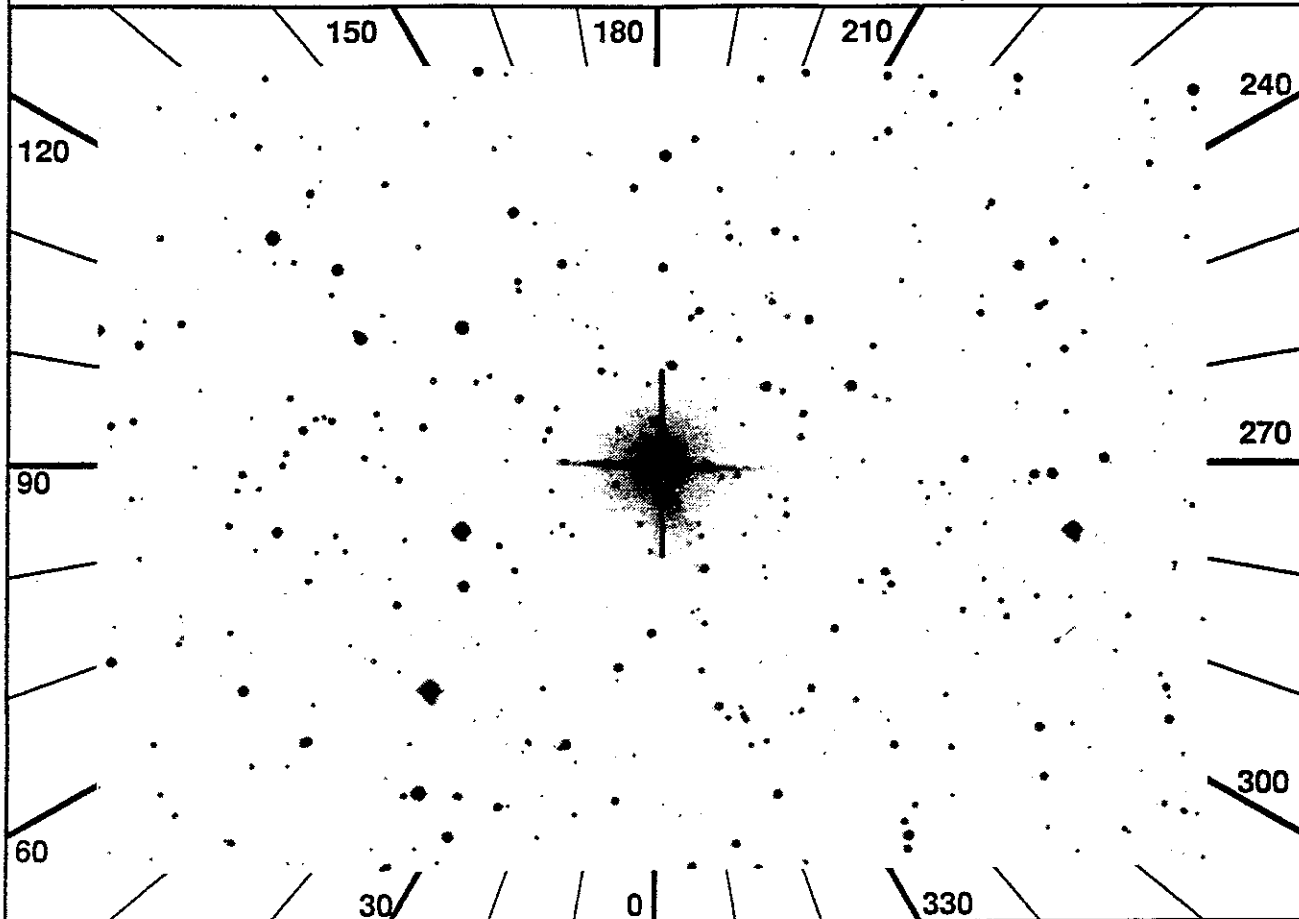
ID: 3308-10  
Names: 68HER HD156633  
Type: B1.5V+B5  
Pol: 0.1  
Pol Var: 0.06  
Pos Ang: 50  
Mechanism: Reflection effect  
Comments: Eclipsing Binary,  
P=2.05 days  
V Mag: 4.6 - 5.3  
Phase = 0.91  
Phase-locked polz'n  
NOTE: DETECTOR IN FAST MODE-  
DO NOT EXPECT ON-LINE  
SPECTRUM.



UIT  
Observation Description

1 RA 258.8692 DEC 33.1528 ROLL 224.62  
 2 TIME 1990

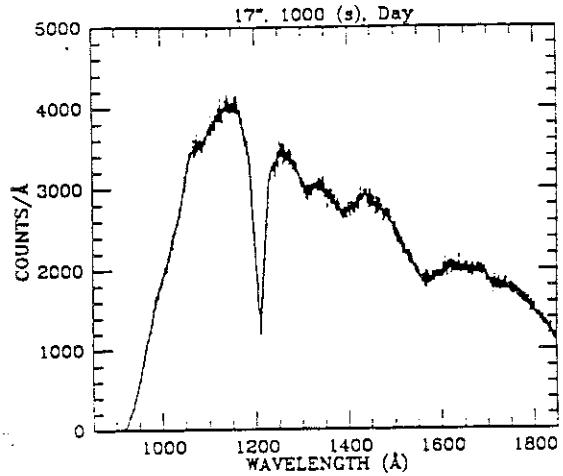
ID 3308-20  
 NAME 68HER



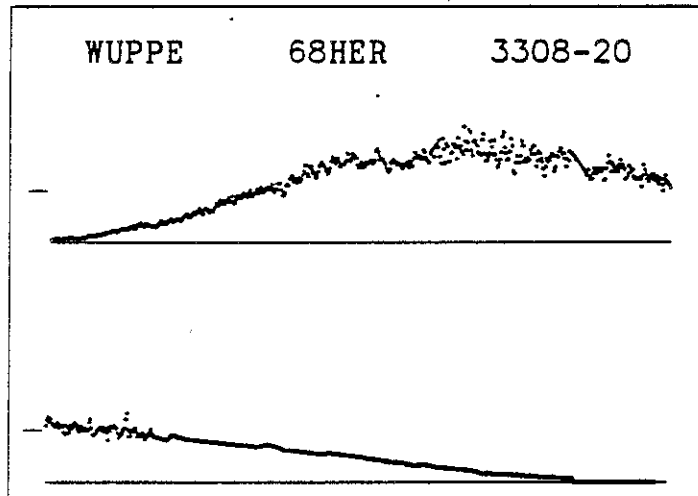
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	137	src sim	6	6	4.7	2	7	1	---	7	2	---	---	SMALAP	PHDMON
4	P	W 162	aut aut	5	2	6.4		8	6	---	---	---	---			
5	U	99	DT -	T	F	-	-	-	-	-	-	-	-	-	V-BRT	
6	U		(At beginning of slew)													
7	U	UAC	*IF UIT Door O*													
8	U		* ITEM 44, Chk Door C*													
9	U		Expect UIT SET,OBS err													
10	H	JAC	VIP ON until at obs slit													
11			Config H W U													
12			-----													
13		JAC	All SETUP													
14	J		Chk Stat - -LOC STB													
15	H	TV	Verify HUT acq on TV													
16		JAC	IMC BEGIN													
17			HUT ITEM 5													
18			All BEGIN													
19	H	HSP	When actual slit pos=7													
20	H	JAC	ITEM 16_0													
21			JOB Observe													
22	H		HUT will dither to ss													
23	H		mode for part of obs.													
24		JAC	All PREVIEW													
25	H	HDC	(just prior to QUIT)													
26	H		ITEM 61_0 (ND6 filt)													
27	H		Check 61_0_0													
28	H	JAC	ITEM 16_I													
29			All QUIT													
30			-----													
31	U		(During slew)													
32	U	UAC	*IF next obj not V-BRT													
33	U		* ITEM 43, Chk Door O*													

2

OBJECT: 3308 68 Her  
KEYWORDS: Bright B 1.5 Vp Star  
COMMENTS:  
50 cm\*\*2 aperture



ID: 3308-20  
Names: 68HER HD156633  
Type: B1.5V+B5  
Pol: 0.1  
Pol Var: 0.06  
Pos Ang: 50  
Mechanism: Reflection effect  
Comments: Eclipsing Binary,  
P=2.05 days  
V Mag: 4.6 - 5.3  
Phase = 0.64  
Phase-locked polz'n  
NOTE: DETECTOR IN FAST MODE-  
DO NOT EXPECT ON-LINE  
SPECTRUM.



UIT  
Observation Description

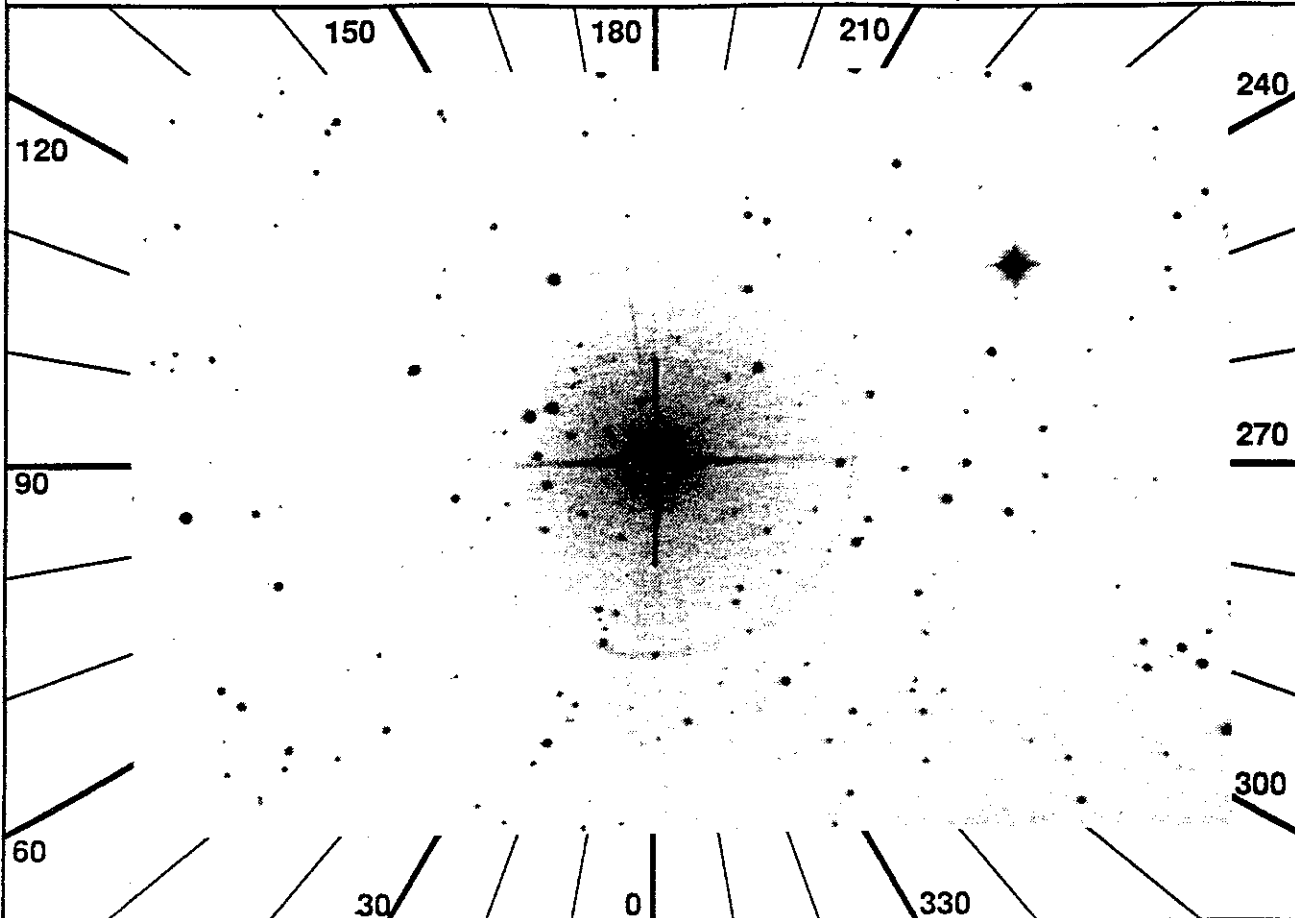


1 RA 225.5345 DEC 47.8481 ROLL 251.13

ID 3315-20

2 TIME 1967

NAME 44IBOO

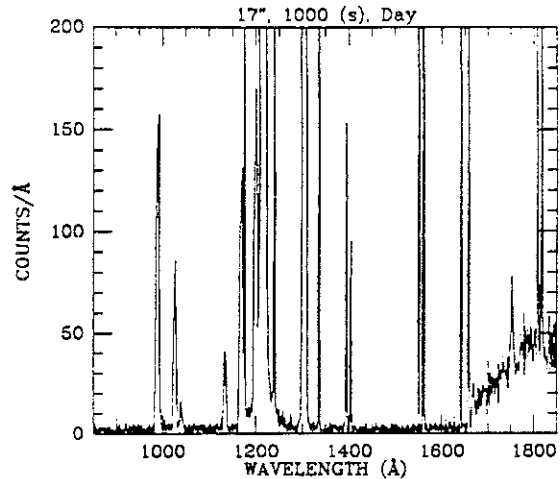


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	258	src	sim	6	6	2.5	5	7	4	---	---	---	---		
4	P	W	163	aut	aut	5	7	4.7	2	6	---	---	---	---		
5	U	101	DT	-	T	F	31	a1	31	b1	-	-	-	-		
6	JAC	ITEM	16	0					13			All	BEGIN			
7		Config	H	W	U				14			JOB	Observe			
8		-----							15			JAC	All PREVIEW			
9	JAC	All	SETUP						16			All	QUIT			
10		Chk	Stat	-LOC	-LOC	RDY			17			-----				
11		IMC	BEGIN						18			JAC	ITEM 16_1			
12		HUT	ITEM	5												

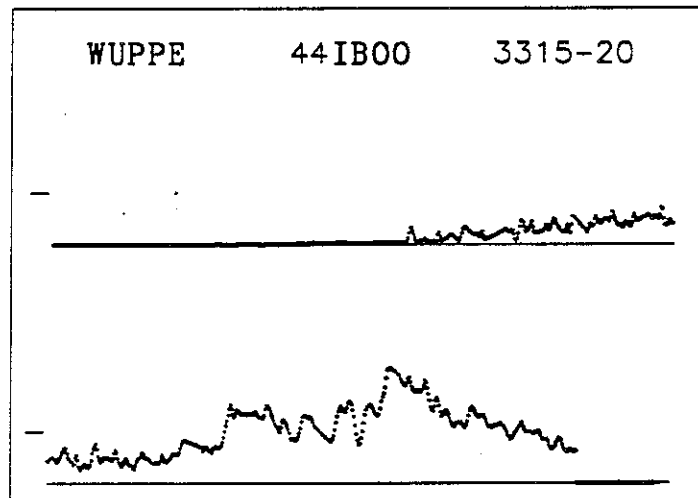
lots of emission lines

1

OBJECT: 3315 44 I Boo  
KEYWORDS: Bright WX UMa binary  
COMMENTS:  
Variable 5.4-5.7



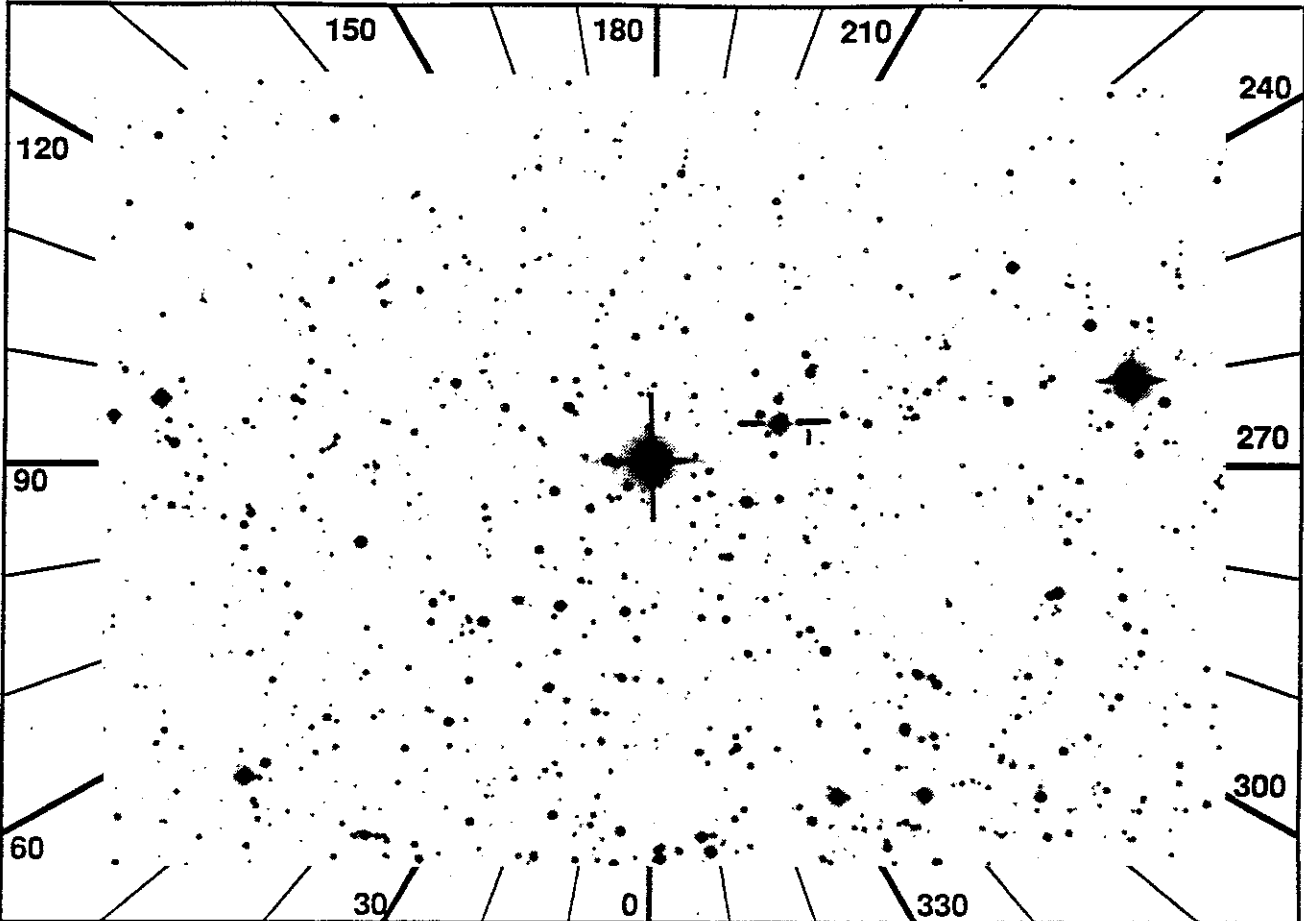
ID: 3315-20  
Names: 44IB00 HD133640  
Type: G0V, close binary  
Pol: 0.08  
Pol Var: ?  
Pos Ang: variable  
Mechanism: Tidal distortion  
Comments: Star with same spectral type is 0.7" away with  $\Delta m = 0.8$ . Both stars should be in the aperture.  
P = 0.27 days  
V Mag: 6.5 - 7.1  
Phase = 0.70  
Phase-locked polz'n  
IUE data used for simulated spectrum is that of HD28099.  
Co-pointing with BBXRT.



UIT  
Observation Description

1 RA 290.8091 DEC 50.1420 ROLL 191.11  
 2 TIME 1555

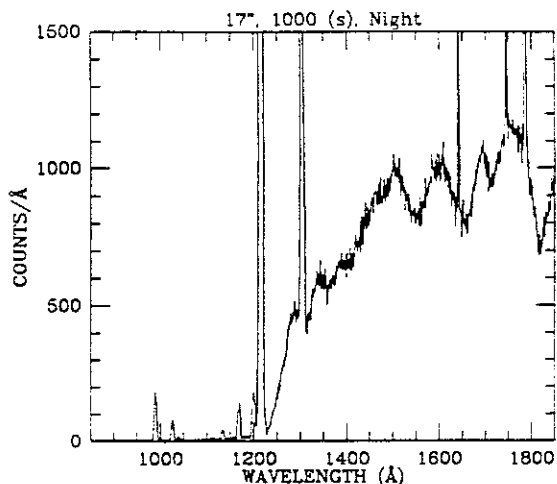
ID 3404-11  
 NAME CH-CYG



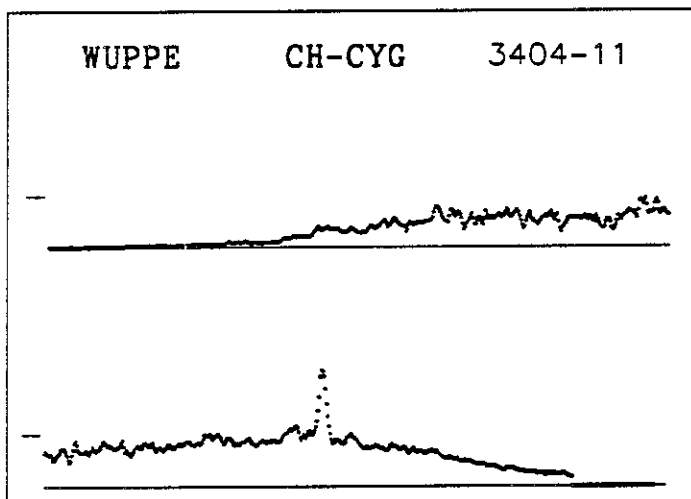
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	96	src	sim	7	10	3.9	5	7	1	---	---	---	---	SU-UmA	
4	P	W 164	aut	aut	8	7	4.2		2	6	---	7	4	42	VARWRN	BKG2
5	U	246	DT	-	T	F	31	a5	31	b5						
6	W		NOTE: var tgt- adj tv, sp			14			HUT ITEM 5							
7	W		if reqd: WUP ALT-02,03			15			All BEGIN							
8	JAC	ITEM 16_0				16	W		NOTE: WUP last seq = BKG							
9		Config H W U				17			JOB Observe							
10		-----				18	JAC		All PREVIEW							
11	JAC	All SETUP				19			All QUIT							
12		Chk Stat -LOC -LOC RDY				20			-----							
13		IMC BEGIN				21	JAC		ITEM 16_1							

*Symbiotic*  
 2

OBJECT: 3404 CH Cyg  
KEYWORDS: Symbiotic Star  
COMMENTS:  
Variable



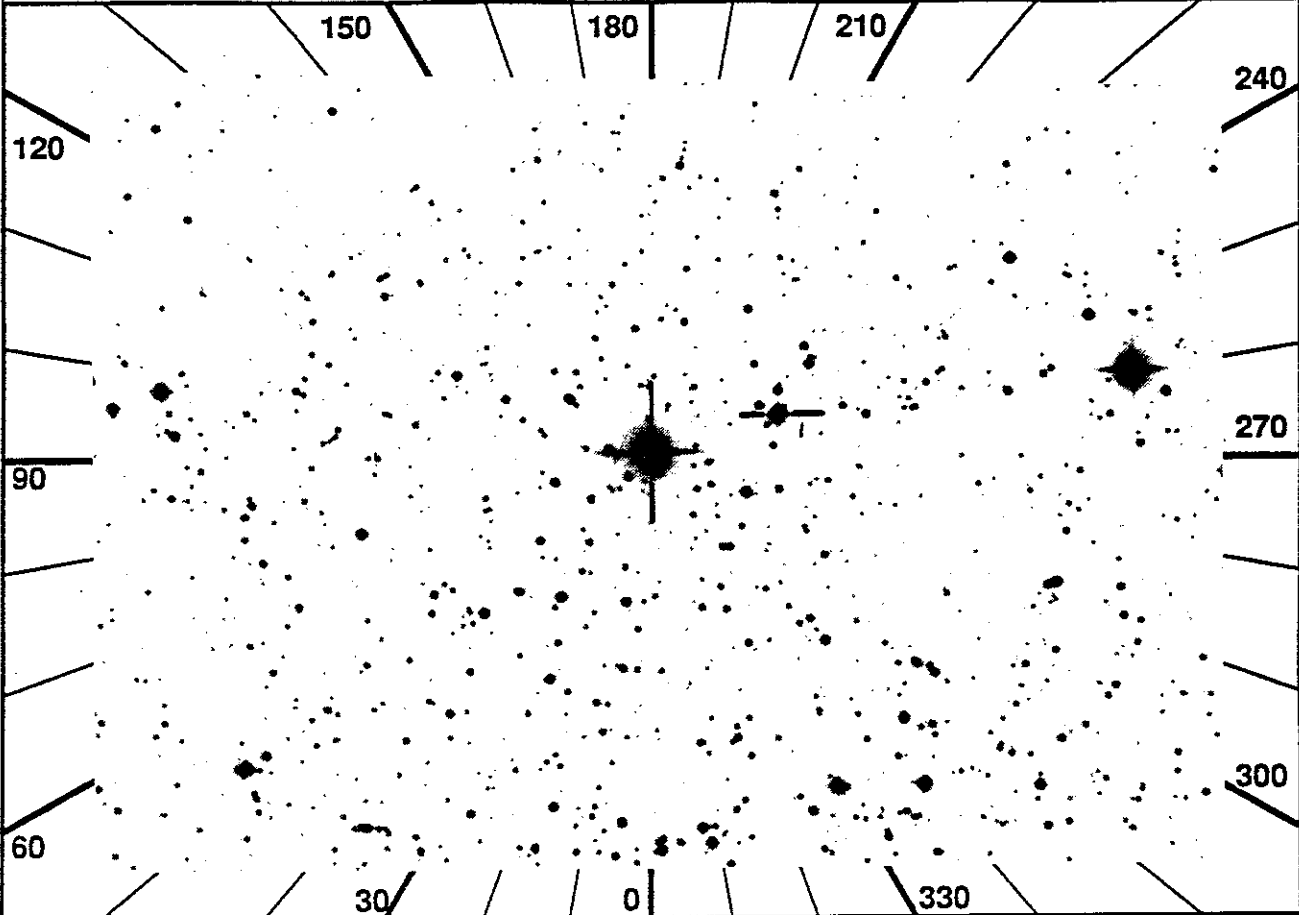
ID: 3404-11  
Names: CH-CYG HD182917  
Type: M6III+(WD+Accr disk?)  
Poi: up to 3%  
Pol Var: yes  
Pos Ang: ~45 in U  
Mechanism: dust scat, needs  
mult epoch, long integration.  
Comments: Irregular variable  
with outbursts, p=15.8 yr?  
Last fall, optical spectrum  
of only cool star, no  
indication of activity.  
Flickering. Soft X-rays.  
Radio jet with dir perp. to  
pol variations. Strongest  
emline MgII 2800. Expect PA  
rotation.



UIT  
Observation Description

1 RA 290.8091 DEC 50.1420 ROLL 191.11  
 2 TIME 1533

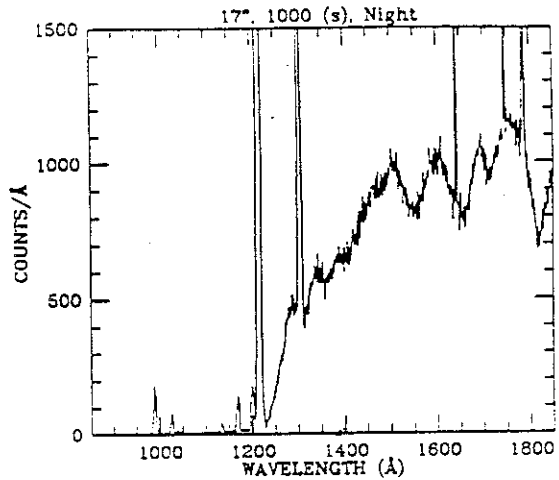
ID 3404-12  
 NAME CH-CYG



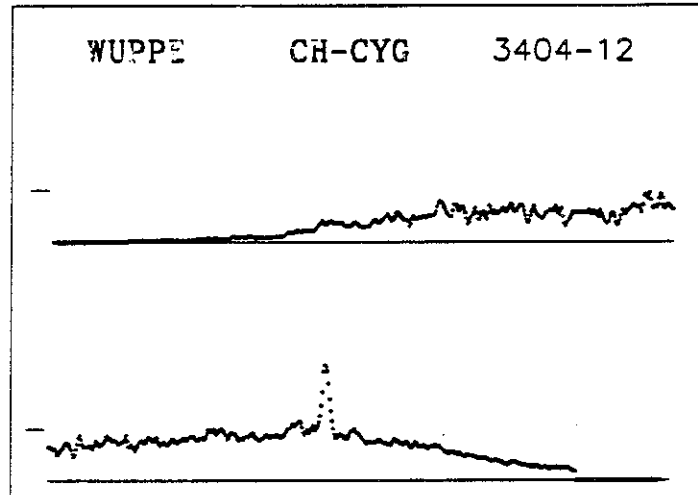
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	114	src	sim	7	10	3.9	5	7	1	---	---	---	---	SU_UMA	
4	P	W	164	aut	aut	8	7	4.2	2	6	---	7	4	42	---	VARWRN BKG2
5	U	195	DT	-	T	F	156	a1	31	b5	-	-	-	-		
6	W	NOTE: var tgt- adj tv, sp					14	HUT ITEM 5								
7	W	if reqd: WUP ALT-02,03					15	All BEGIN								
8	JAC	ITEM 16 0					16	W	NOTE: WUP last seq = BKG							
9	Config H W U					17	JOB Observe									
10	-----					18	JAC	All PREVIEW								
11	JAC	All SETUP					19	All QUIT								
12	Chk Stat -LOC -LOC RDY					20	-----									
13	IMC BEGIN					21	JAC	ITEM 16_1								

*symbiotic*  
 2

OBJECT: 3404 CH Cyg  
KEYWORDS: Symbiotic Star  
COMMENTS:  
Variable



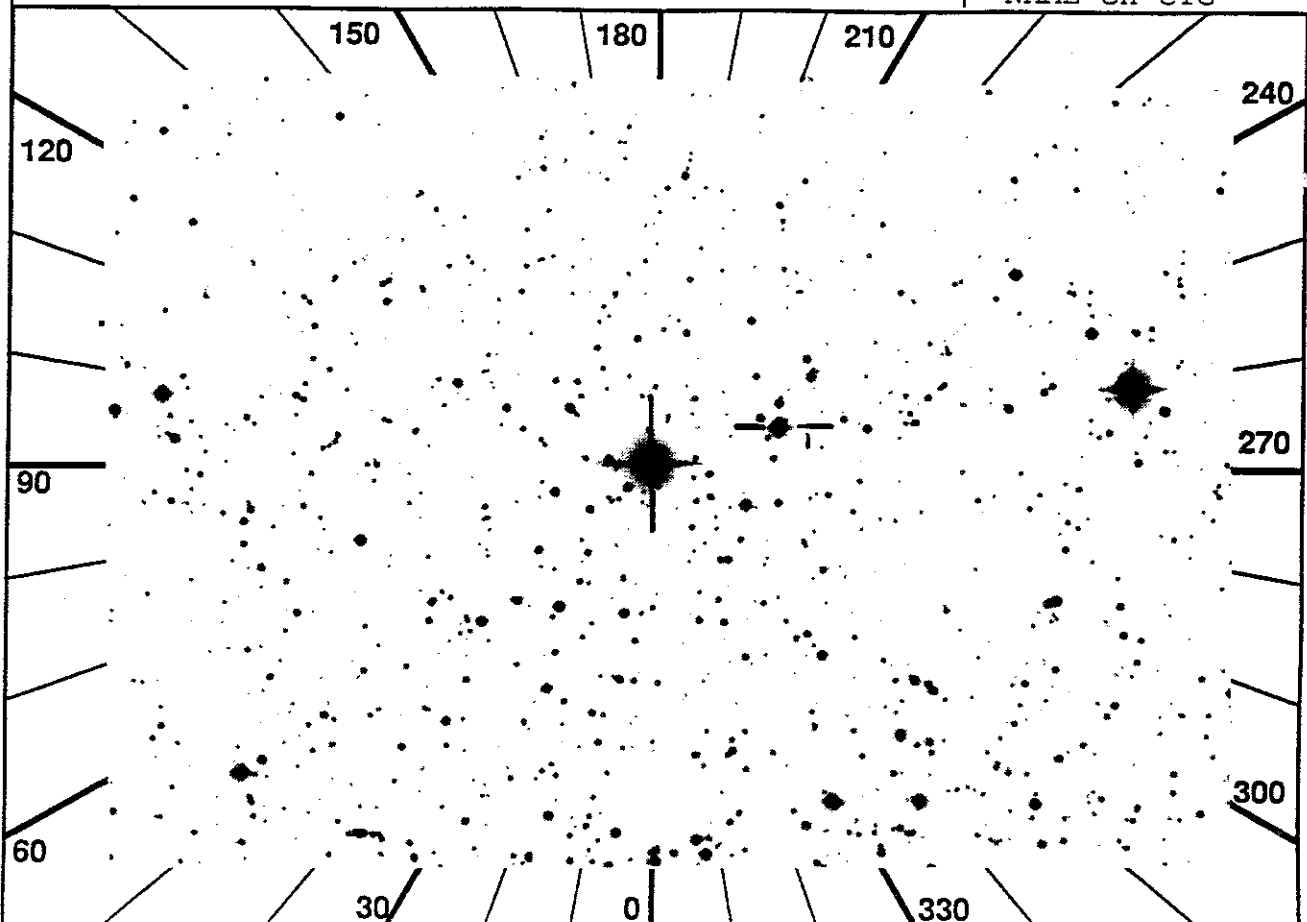
ID: 3404-12  
Names: CH-CYG HD182917  
Type: M6III+(WD+Accr disk?)  
% Pol: up to 3%  
Pol Var: yes  
Pos Ang: ~45 in U  
Mechanism: dust scat, needs  
mult epoch, long integration.  
Comments: Irregular variable  
with outbursts, p=15.8 yr?  
Last fall, optical spectrum  
of only cool star, no  
indication of activity.  
Flickering. Soft X-rays.  
Radio jet with dir perp. to  
pcl variations. Strongest  
emline MgII 2800. Expect PA  
rotation.



UIT  
Observation Description

1 RA 290.8091 DEC 50.1420 ROLL 198.77  
 2 TIME 1355

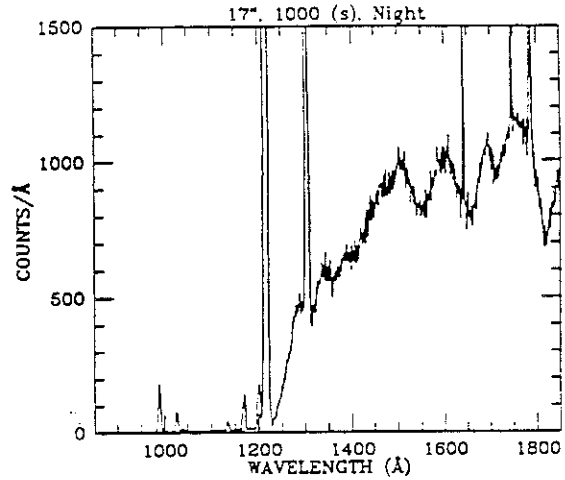
ID 3404-21  
 NAME CH-CYG



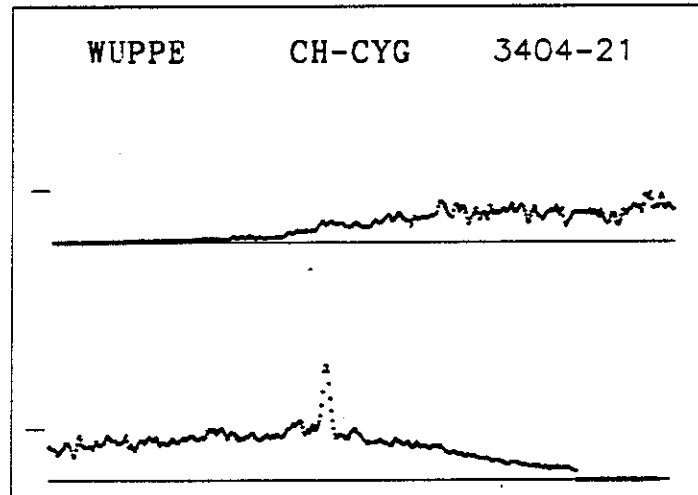
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	182	src	sim	7	10	3.9	5	7	1	---	---	---	---	SU-UMA	
4	P	W	164	aut	aut	8	7	4.2	2	6	---	7	4	42	---	VARWRN BKG2
5	U	247	DT	-	T	F	31	a2	31	a4	-	-	-	-		
6	W		NOTE: var tgt- adj tv, sp				14			HUT ITEM 5						
7	W		if reqd: WUP ALT-02,03				15			All BEGIN						
8	JAC		ITEM 16 0				16	W		NOTE: WUP last seq = BKG						
9			Config H W U				17			JOB Observe						
10			-----				18	JAC		All PREVIEW						
11	JAC		All SETUP				19			All QUIT						
12			Chk Stat -LOC -LOC RDY				20			-----						
13			IMC BEGIN				21	JAC		ITEM 16_1						

*symbiotic*  
 2

OBJECT: 3404 CH Cyg  
KEYWORDS: Symbiotic Star  
COMMENTS:  
Variable



ID: 3404-21  
Names: CH-CYG HD182917  
Type: M6III+(WD+Accr disk?)  
Pol: up to 3%  
Pol Var: yes  
Pos Ang: ~45 in U  
Mechanism: dust scat, needs  
mult epoch, long integration.  
Comments: Irregular variable  
with outbursts, p=15.8 yr?  
Last fall, optical spectrum  
of only cool star, no  
indication of activity.  
Flickering. Soft X-rays.  
Radio jet with dir perp. to  
pol variations. Strongest  
emline MgII 2800. Expect PA  
rotation.

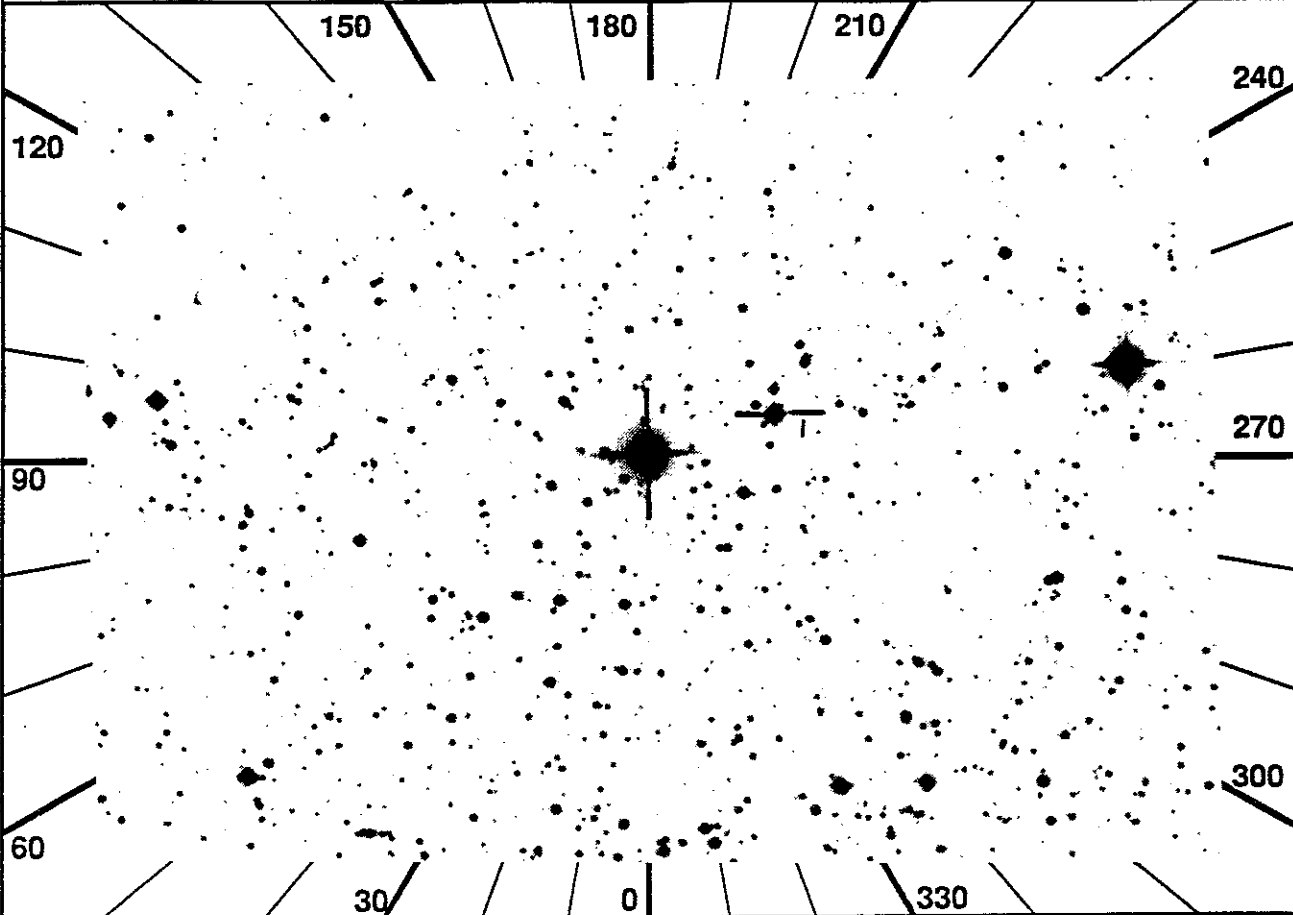


UIT  
Observation Description



1 RA 290.8091 DEC 50.1420 ROLL 198.77  
 2 TIME 1594

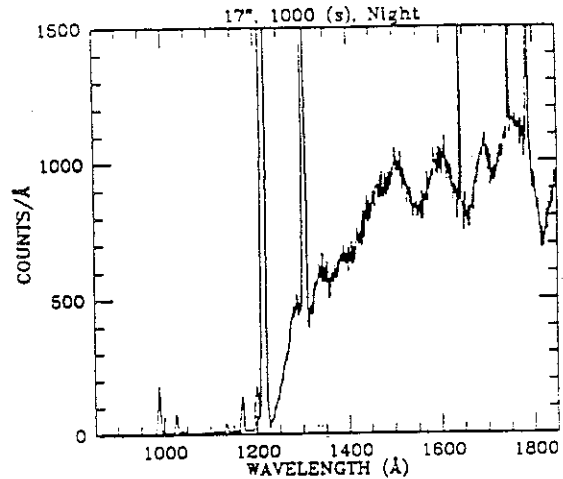
ID 3404-22  
 NAME CH-CYG



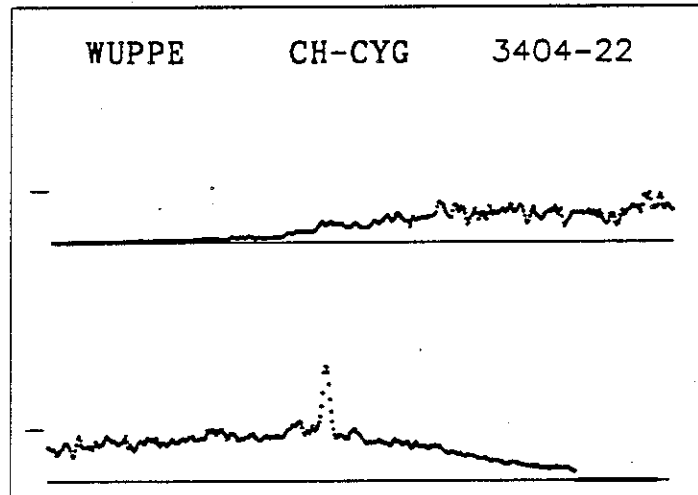
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	197	src	sim	7	10	3.9	5	7	1	---	---	---	---	SU <sub>umA</sub>	
4	P	W	164	aut	aut	8	7	4.2	2	6	---	7	4	42	VARWRN	BKG2
5	U	25	DT	-	T	F	31	bl	-	-	-	-	-	-		
6	W	NOTE: var tgt- adj tv, sp					14	HUT ITEM 5								
7	W	if reqd: WUP ALT-02,03					15	All BEGIN								
8	JAC	ITEM 16 0					16	W	NOTE: WUP last seq = BKG							
9	Config H W U					17	JOB Observe									
10	-----					18	JAC All PREVIEW									
11	JAC	All SETUP					19	All QUIT								
12	Chk Stat -LOC -LOC RDY					20	-----									
13	IMC BEGIN					21	JAC ITEM 16_1									

*symbiotic*  
 2

OBJECT: 3404 CH Cyg  
KEYWORDS: Symbiotic Star  
COMMENTS:  
Variable



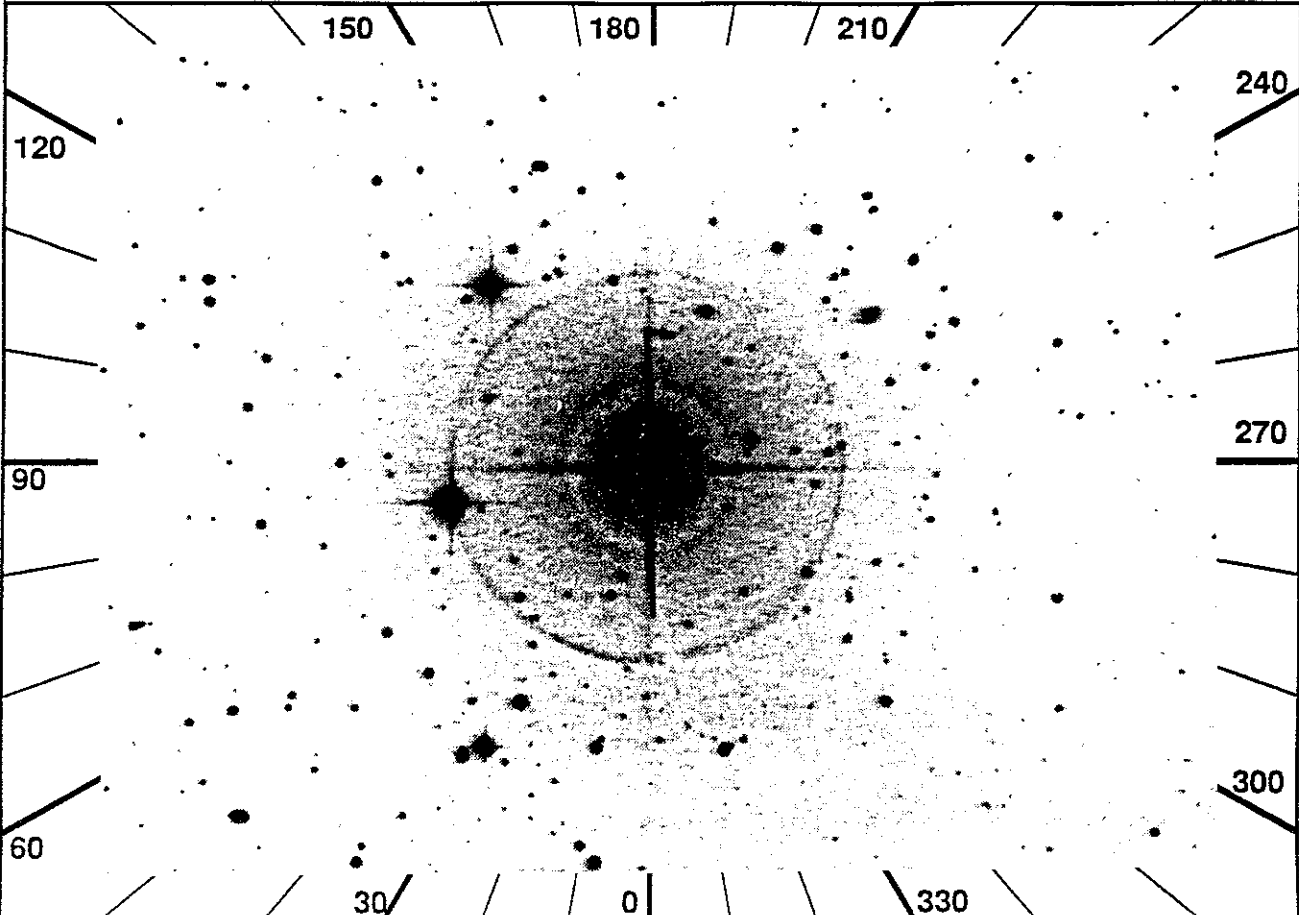
ID: 3404-22  
Names: CH-CYG HD182917  
Type: M6III+(WD+Accr disk?)  
% Pol: up to 3%  
Pol Var: yes  
Pos Ang: ~45 in U  
Mechanism: dust scat, needs  
mult epoch, long integration.  
Comments: Irregular variable  
with outbursts, p=15.8 yr?  
Last fall, optical spectrum  
of only cool star, no  
indication of activity.  
Flickering. Soft X-rays.  
Radio jet with dir perp. to  
pol variations. Strongest  
emline MgII 2800. Expect PA  
rotation.



UIT  
Observation Description

1 RA 222.2715 DEC 19.3064 ROLL 76.65  
 2 TIME 1848

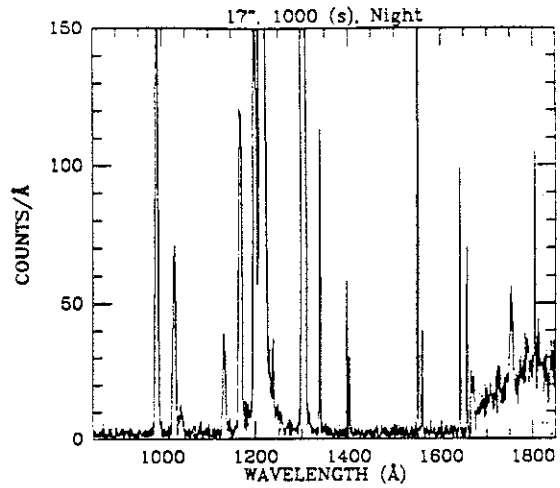
ID 3526-20  
 NAME XI-BOOA



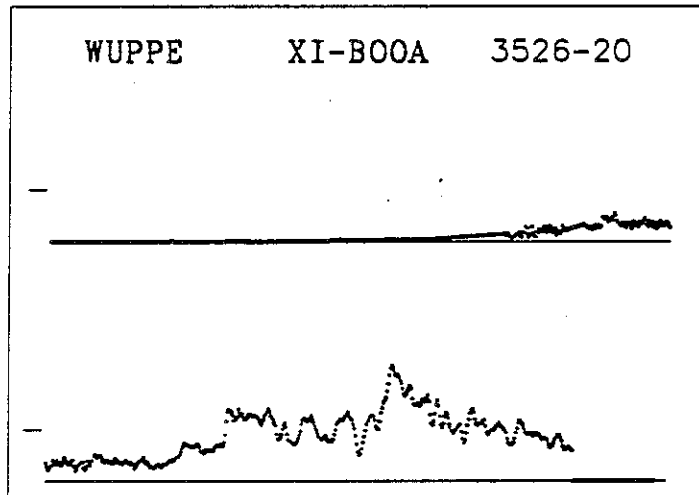
	SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	243	src	sim	5	5	2.4	5	7	4	---	---	---	---	---		
4	P	W	165	aut	aut	5	7	4.2	8	6	---	---	---	---	---		
5	U	101	DT	64	T	F	31	a1	31	b1	---	---	---	---	---		
6	JAC	ITEM	16	0					13				All	BEGIN			
7		Config	H	W	U				14				JOB	Observe			
8		-----							15				JAC	All PREVIEW			
9	JAC	All	SETUP						16				All	QUIT			
10		Chk	Stat	-LOC	-LOC	RDY			17				-----				
11		IMC	BEGIN						18				JAC	ITEM 16_1			
12		HUT	ITEM	5													

*flaw star*  
 3

OBJECT: 3526 XI BOO A  
KEYWORDS: Flare star (G8 V)  
COMMENTS:  
Brighter of close double



ID: 3526-20  
Names: XI-BOOA HD131156  
Type:  
\* Pol:  
Pol Var:  
Pos Ang:  
Mechanism: scattering, non-  
spherically symmetric  
geometry  
Comments: cool star spots due  
to chromospheric activity  
may give rise to sufficient  
asymmetry to yield detectable  
polarization.  
Co-pointing with BBXRT.



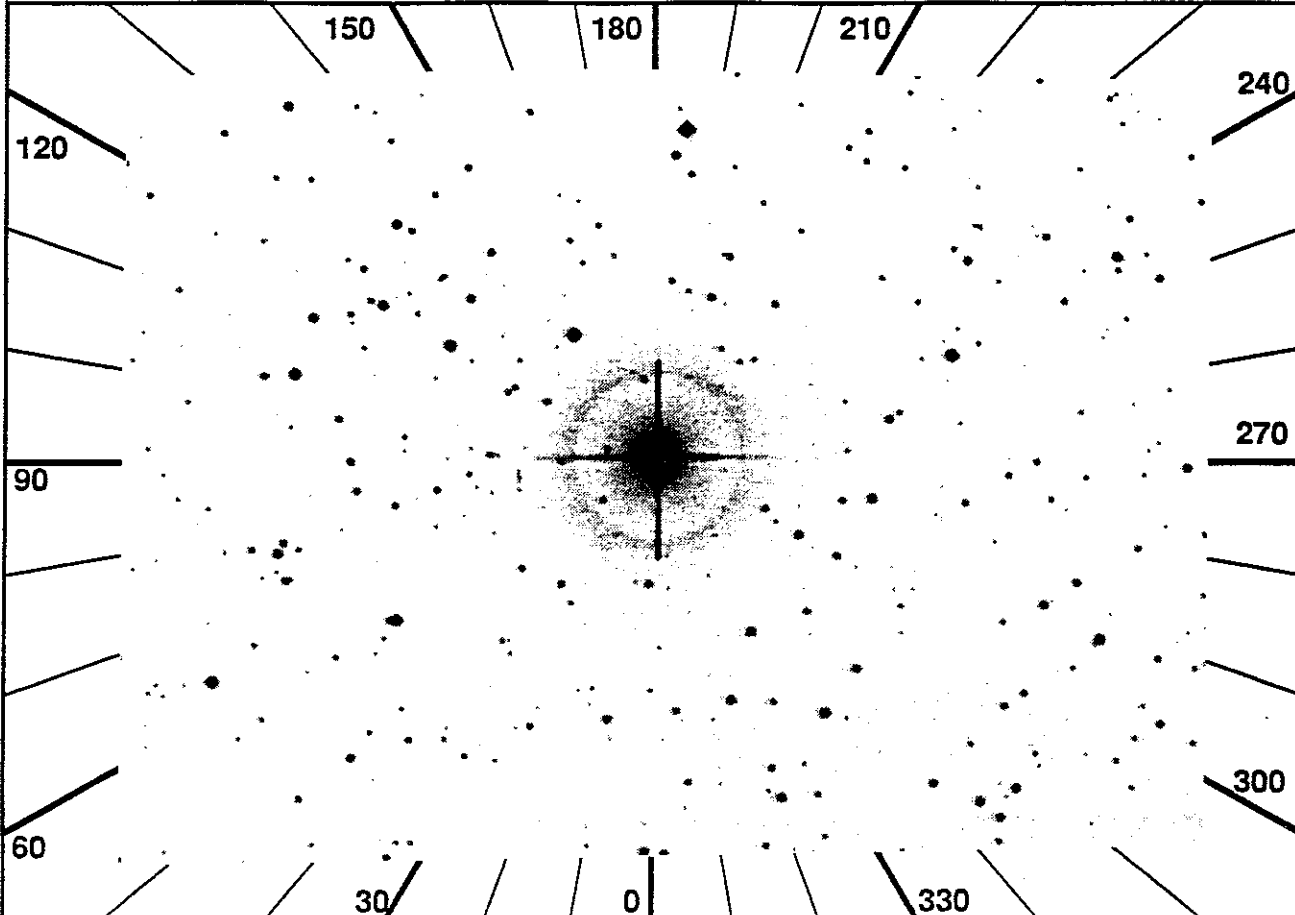
UIT  
Observation Description

1 RA 236.6279 DEC 28.3090 ROLL 66.86

ID 3604-10

2 TIME 1764

NAME R-CRB

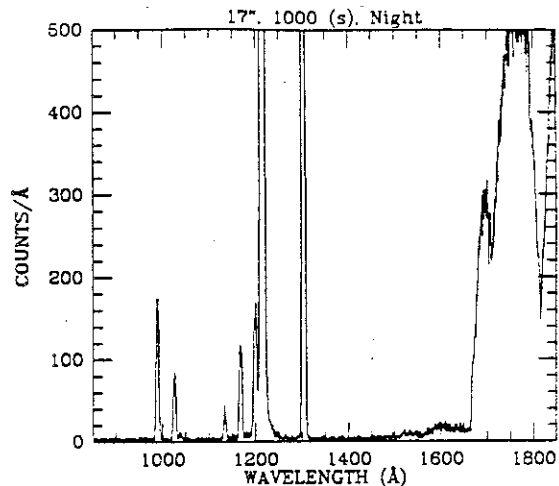


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	246	src	sim	8	8	2.4	5	7	4	---	---	---	---	SU-UMA	
4	P	W 166	aut	aut	6	8	3.7		8	6	---	---	---	---	VARWRN	
5	U	101	DT	67	T	F	31	a1	31	b1	---	---	---	---		
6	W		NOTE: var tgt- adj tv, sp						15		IMC BEGIN					
7	W		if reqd: WUP ALT-02,03						16		HUT ITEM 5					
8	JAC		ITEM 16 0						17		All BEGIN					
9			Config H W U						18		JOB Observe					
10			-----						19		JAC All PREVIEW					
11	JAC		All SETUP						20		All QUIT					
12	H	TV	Variable star (could be						21		-----					
13	H		brighter or fainter).						22		JAC ITEM 16_1					
14	JAC		Chk Stat -LOC -LOC RDY													

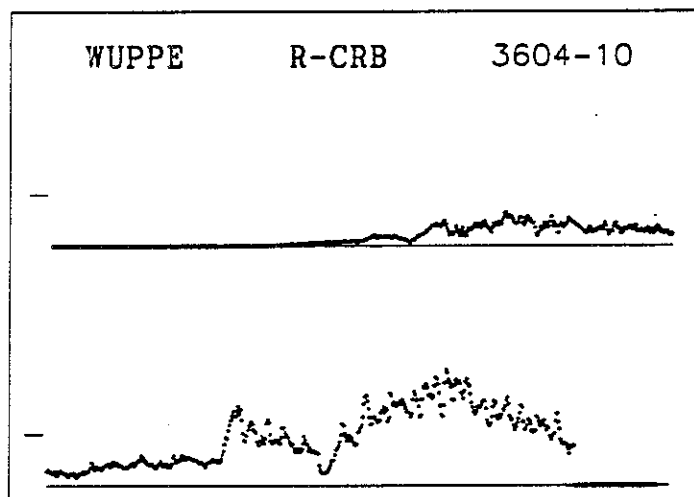
*intrinsically reddened*

*3*

OBJECT: 3604 R Cor Bor  
KEYWORDS: R Cor Bor star (G0I ep)  
COMMENTS:  
Variable absorption  
Spectrum uncertain



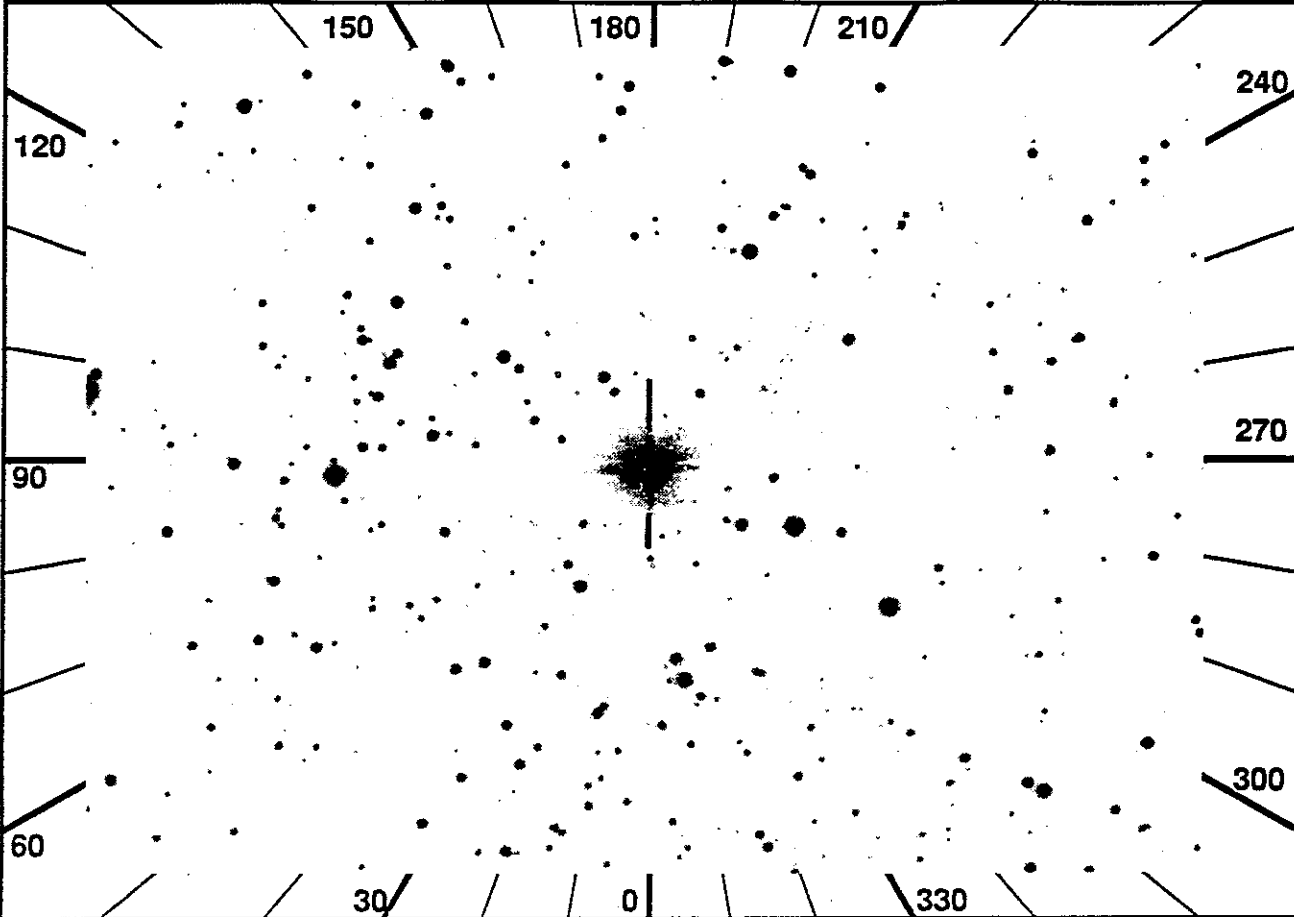
ID: 3604-10  
Names: R-CRB HD141527  
Type: G0Iep  
% Pol: 0.26  
Pol Var: yes  
Pos Ang: 131.0  
Mechanism: dust scattering  
Comments: Brightness is  
extremely variable as can be  
the polarization.



UIT  
Observation Description

1 RA 153.9579 DEC -28.7414 ROLL 165.67  
 2 TIME 1269

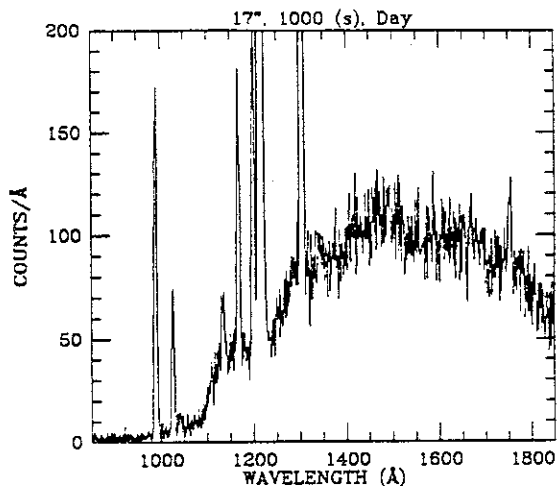
ID 3613-10  
 NAME HR4049



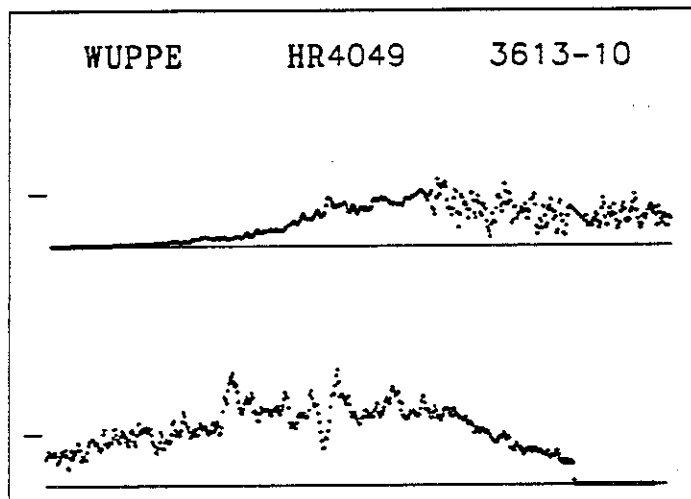
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	312	src sim	6	6	3.3	5	7	4	---	---	---	---	---		
4	S	W 167	aut aut	5	6	5.2		8	6	---	---	---	---	---	VARWRN	
5	U	213	DT -	T	F	31 a2	31 a5	31 b5								
6	W		NOTE: var tgt- adj tv, sp				14		HUT ITEM 5							
7	W		if reqd: WUP ALT-02,03				15		All BEGIN							
8	JAC		ITEM 16 0				16		JOB Observe							
9			Config H W U				17		JAC All PREVIEW							
10			-----				18		All QUIT							
11	JAC		All SETUP				19		-----							
12			Chk Stat -LOC -LOC RDY				20		JAC ITEM 16_1							
13			IMC BEGIN													

3

OBJECT: 3613 HR4049  
KEYWORDS: B star with IR excess  
COMMENTS:  
Spectral shape fairly uncertain



ID: 3613-10  
Names: HR4049 HD89353  
Type: B9.5Ib  
Pol: 0.24  
Pol Var: none known  
Pos Ang: 39.1  
Mechanism:  
Comments: Proto-planetary  
nebula, heavily reddened  
B star, the position angle  
varies with the wavelength  
[PA(4000)~20deg, PA(7000)=55].  
IUE data used for simulated  
spectrum is that of HD210221.

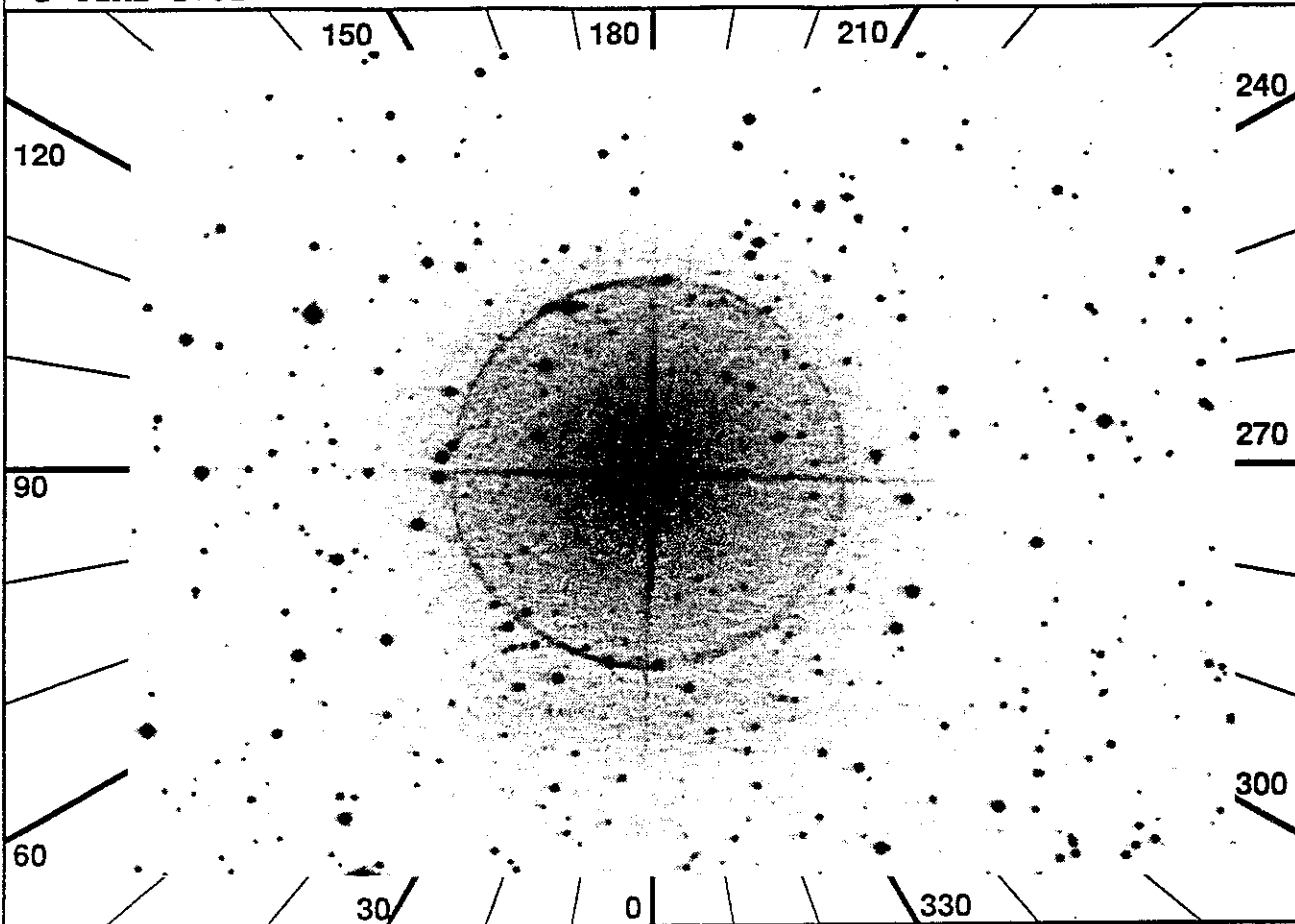


UIT  
Observation Description



1 RA 246.7493 DEC 41.9908 ROLL 126.86  
 2 TIME 1701

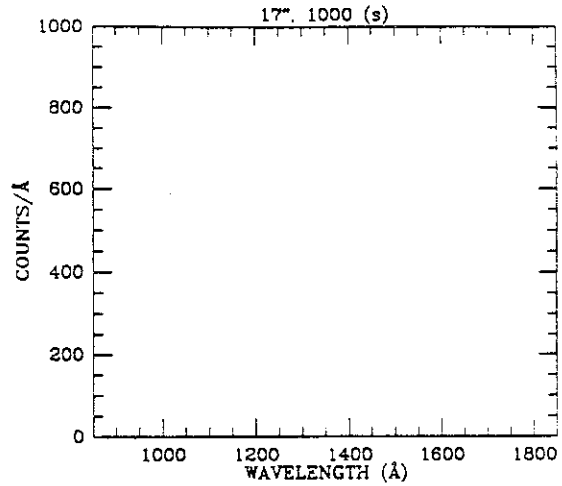
ID 3621-11  
 NAME G-HER



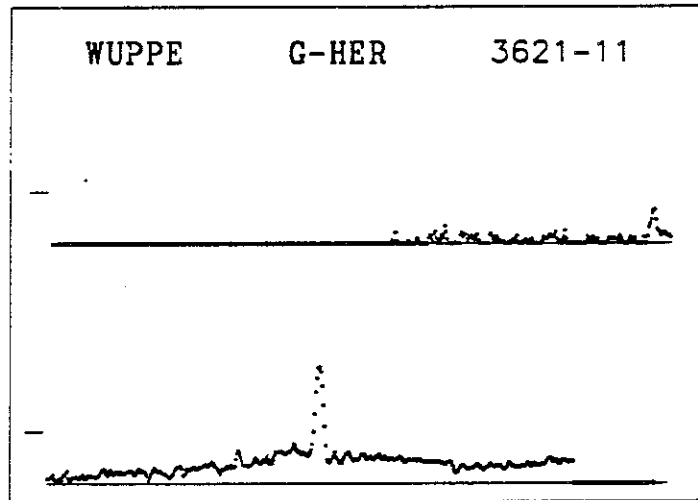
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	270	src sim	5	5	2.3	5	7	4	---	---	---	---	---		
4	P	W 168	aut aut	7	10	1.0		8	6	---	---	---	---	---	VARWRN	
5	U	191	DT -	T F	20	bl	11	bl								
6	W		NOTE: var tgt- adj tv, sp				14			HUT ITEM 5						
7	W		if reqd: WUP ALT-02,03				15			All BEGIN						
8	JAC		ITEM 16 0				16			JOB Observe						
9			Config H W U				17			JAC All PREVIEW						
10			-----				18			All QUIT						
11	JAC		All SETUP				19			-----						
12			Chk Stat -LOC -LOC RDY				20			JAC ITEM 16_1						
13			IMC BEGIN													

3

OBJECT: 3621 G Her  
KEYWORDS: Flare star  
COMMENTS:  
No published spectra in HUT range  
Mainly airglow expected



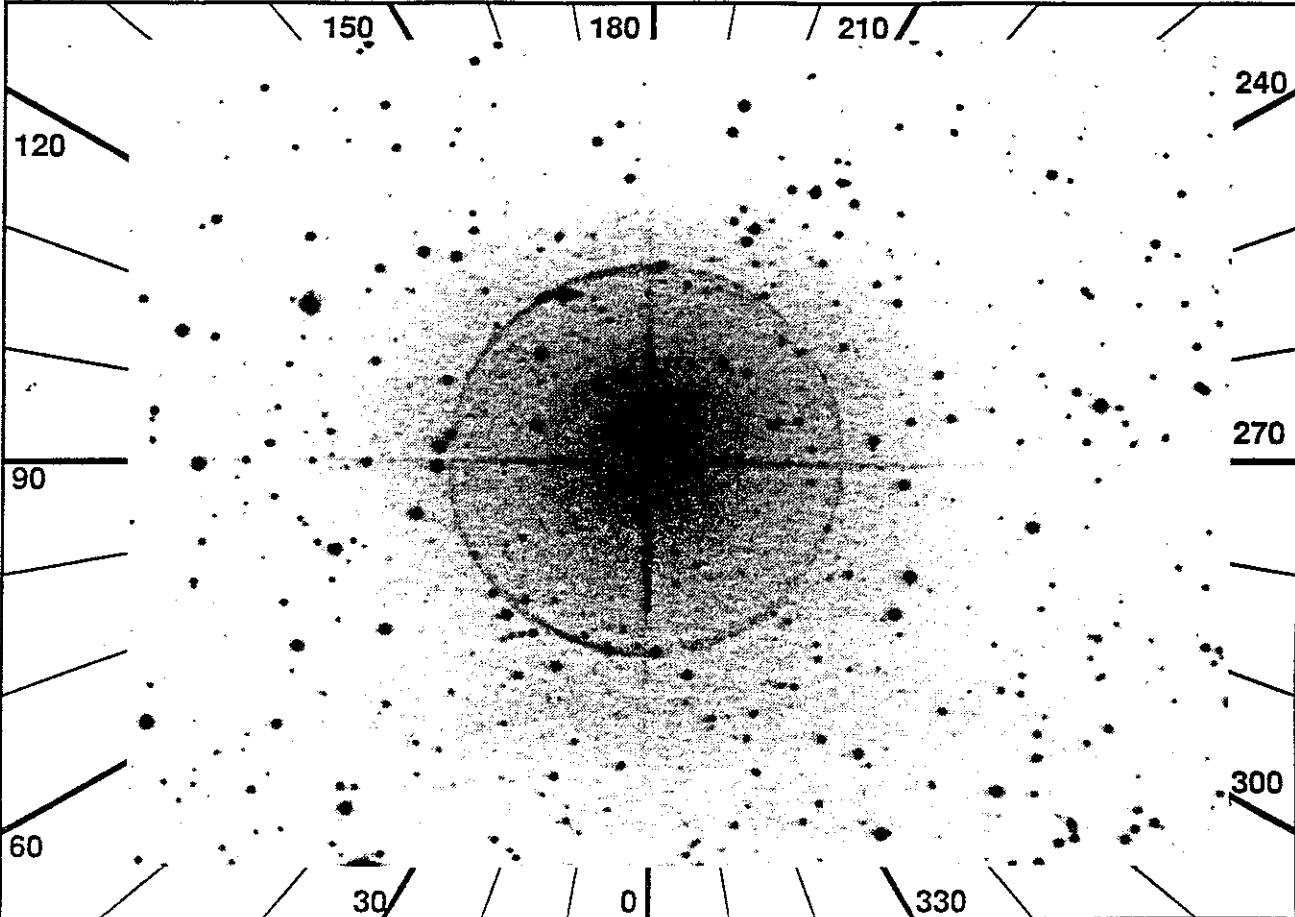
ID: 3621-11  
Names: G-HER HD148783  
Type: M6III  
% Pol: 2.  
Pol Var: yes  
Pos Ang:  
Mechanism: dust, molecular  
Comments: Red, long period  
variable; optical P increases  
to the blue; may show Mg II  
2800 doublet.



UIT  
Observation Description

1 RA 246.7493 DEC 41.9908 ROLL 126.86  
 2 TIME 1826

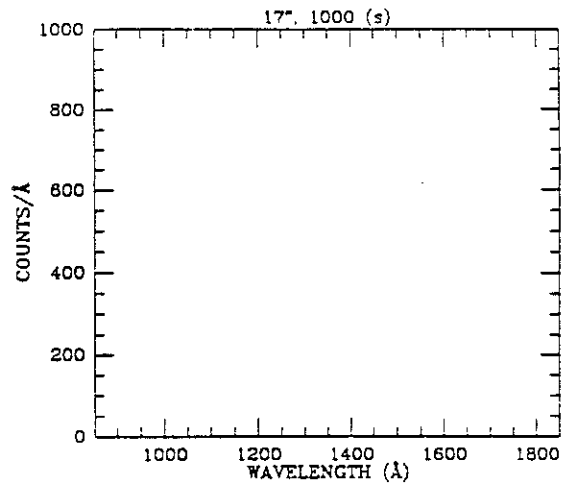
ID 3621-12  
 NAME G-HER



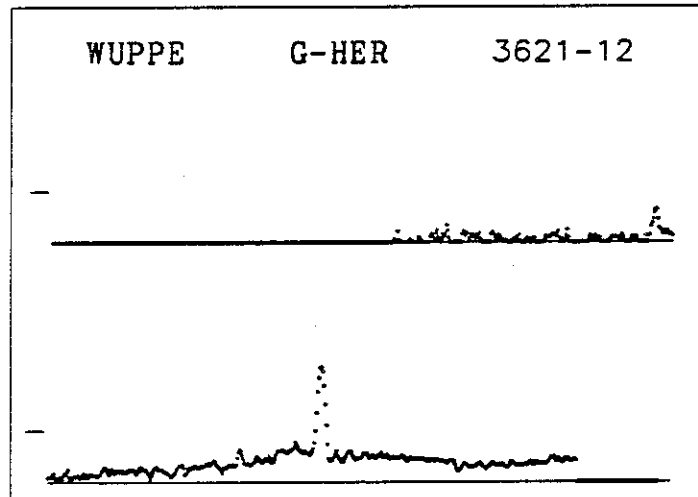
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	296	src	sim	5	5	2.3	5	7	4	---	---	---	---		
4	P	W 168	aut	aut	7	10	1.0		8	6	---	---	---	---	VARWRN	
5	U	192	DT	64	T	F	20	a1	11	a1	---	---	---	---		
6	W		NOTE: var tgt- adj tv, sp				14			HUT ITEM 5						
7	W		if reqd: WUP ALT-02,03				15			All BEGIN						
8	JAC		ITEM 16 0				16			JOB Observe						
9			Config H W U				17			JAC All PREVIEW						
10			-----				18			All QUIT						
11	JAC		All SETUP				19			-----						
12			Chk Stat -LOC -LOC RDY				20			JAC ITEM 16_1						
13			IMC BEGIN													

3

OBJECT: 3621 G Her  
KEYWORDS: Flare star  
COMMENTS:  
No published spectra in HUT range  
Mainly airglow expected



ID: 3621-12  
Names: G-HER HD148783  
Type: M6III  
% Pol: 2.  
Pol Var: yes  
Pos Ang:  
Mechanism: dust, molecular  
Comments: Red, long period  
variable; optical P increases  
to the blue; may show Mg II  
2800 doublet.



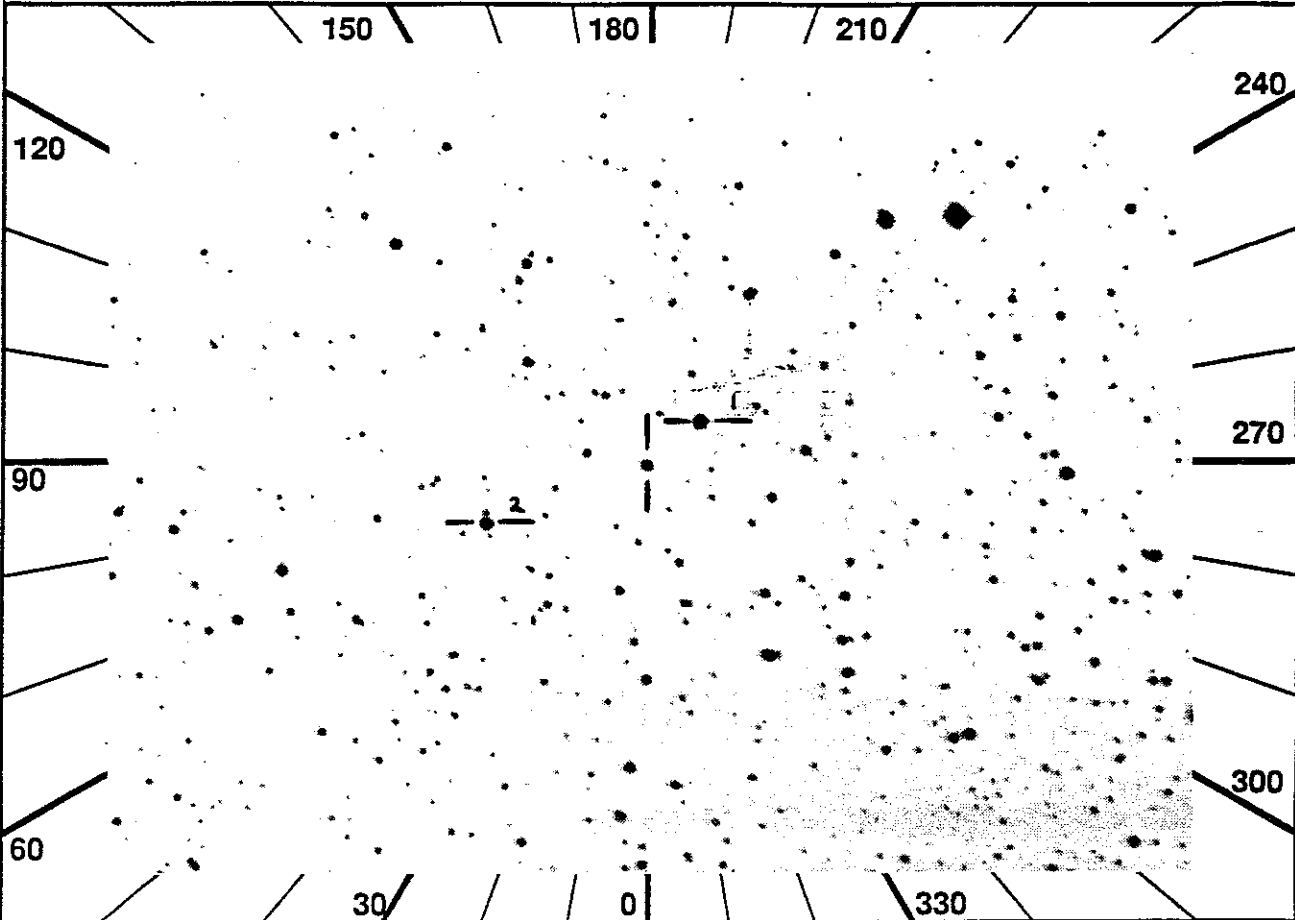
UIT  
Observation Description

1 RA 244.2687 DEC -15.5208 ROLL 107.87

ID 3712-11

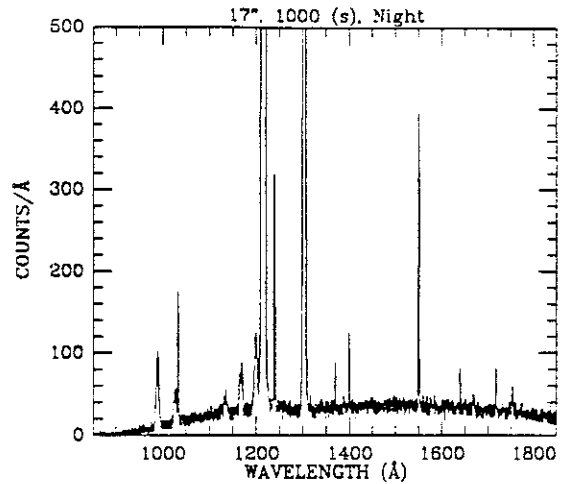
2 TIME 681

NAME SCO-X-1

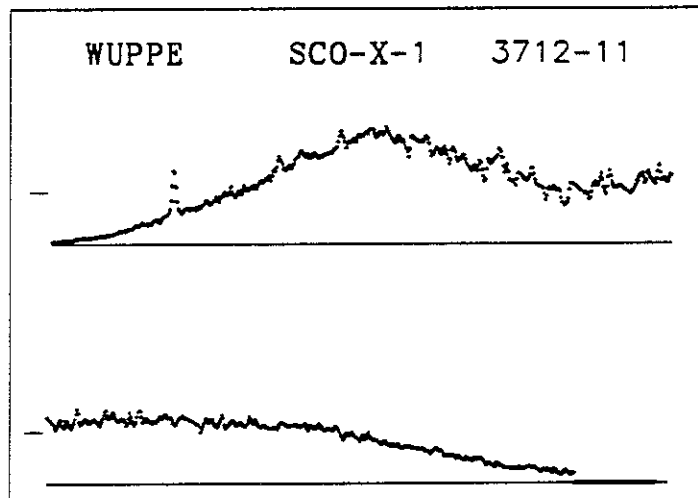


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	S H	78	src sim	14	13	3.3	5	7	4	---	-	-	-	-		
4	W	169	aut aut	13	11	2.9		2	2	---	2	2	60	---		BKG2
5	U	205	DT -	T F	6	a2		6	a5		6	a4	6	b3	-	-
6	JAC	ITEM 16_0						13			All	BEGIN				
7		Config H W U						14	W		NOTE:	WUP last seq = BKG				
8		-----						15	JOB		Observe					
9	JAC	All SETUP						16	JAC		All PREVIEW					
10		Chk Stat -LOC -LOC RDY						17			All QUIT					
11		IMC BEGIN						18			-----					
12	HUT	ITEM 5						19	JAC		ITEM 16_1					

OBJECT: 3712 Sco X-1  
KEYWORDS: Bright low mass X-ray binary  
COMMENTS:  
Variable 12.3-13.3

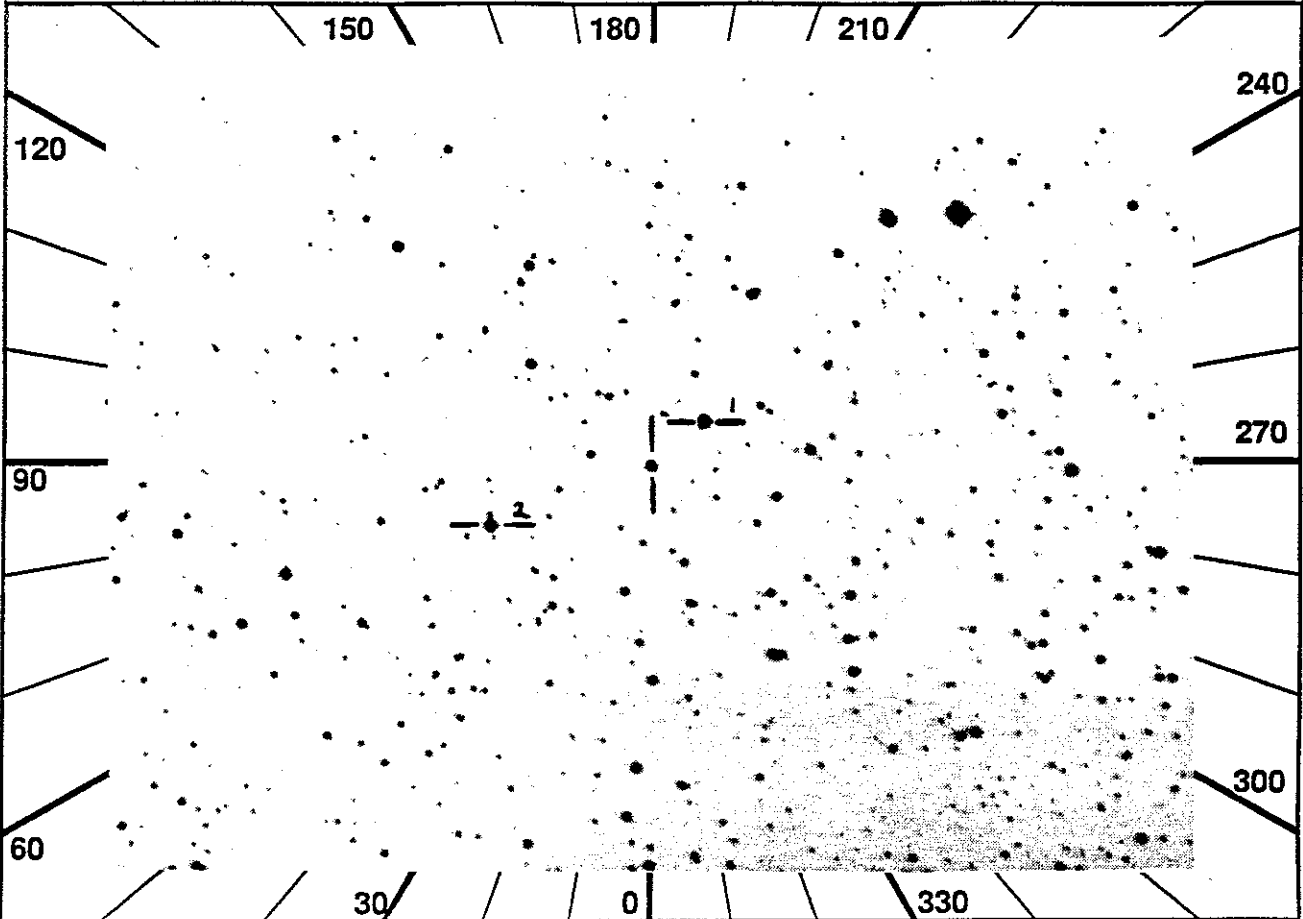


ID: 3712-11  
Names: SCO-X-1  
Type: X-ray source  
Pol:   
Pol Var:   
Pos Ang:   
Mechanism:   
Comments: Low polz'n, rapid variations  
HUT secondary target is in WUPPE PTL.  
Co-pointing with BBXRT.



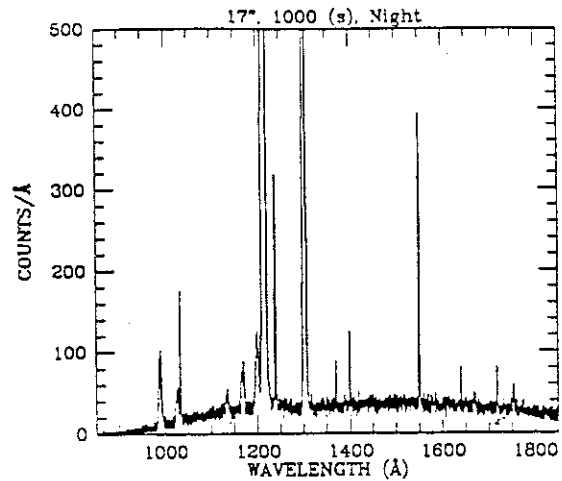
UIT  
Observation Description

1 RA 244.2687 DEC -15.5208 ROLL 107.87 ID 3712-12  
 2 TIME 1208 NAME SCO-X-1

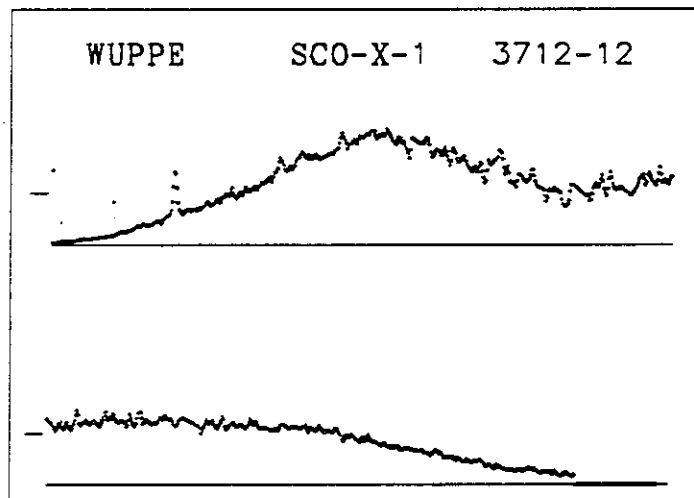


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	S	H	160	src	sim	14	13	2.8	5	7	4	---	---	---		
4	W	169	aut	aut	13	11	2.9		2	2	---	2	2	60	---	BKG2
5	U	255	DT	-	T	F	31	a1	31	b1	62	b5	-	-	-	-
6	JAC	ITEM	16	0					13							All BEGIN
7		Config	H	W	U				14	W						NOTE: WUP last seq = BKG
8									15	JOB	Observe					
9	JAC	All	SETUP						16	JAC	All	PREVIEW				
10		Chk	Stat	-LOC	-LOC	RDY			17		All	QUIT				
11		IMC	BEGIN						18							
12	HUT	ITEM	5						19	JAC	ITEM	16_1				

OBJECT: 3712 Sco X-1  
KEYWORDS: Bright low mass X-ray binary  
COMMENTS:  
Variable 12.3-13.3



ID: 3712-12  
Names: SCO-X-1  
Type: X-ray source  
\* Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments: Low polz'n,  
rapid variations  
HUT secondary target is in  
WUPPE PTL.



UIT  
Observation Description

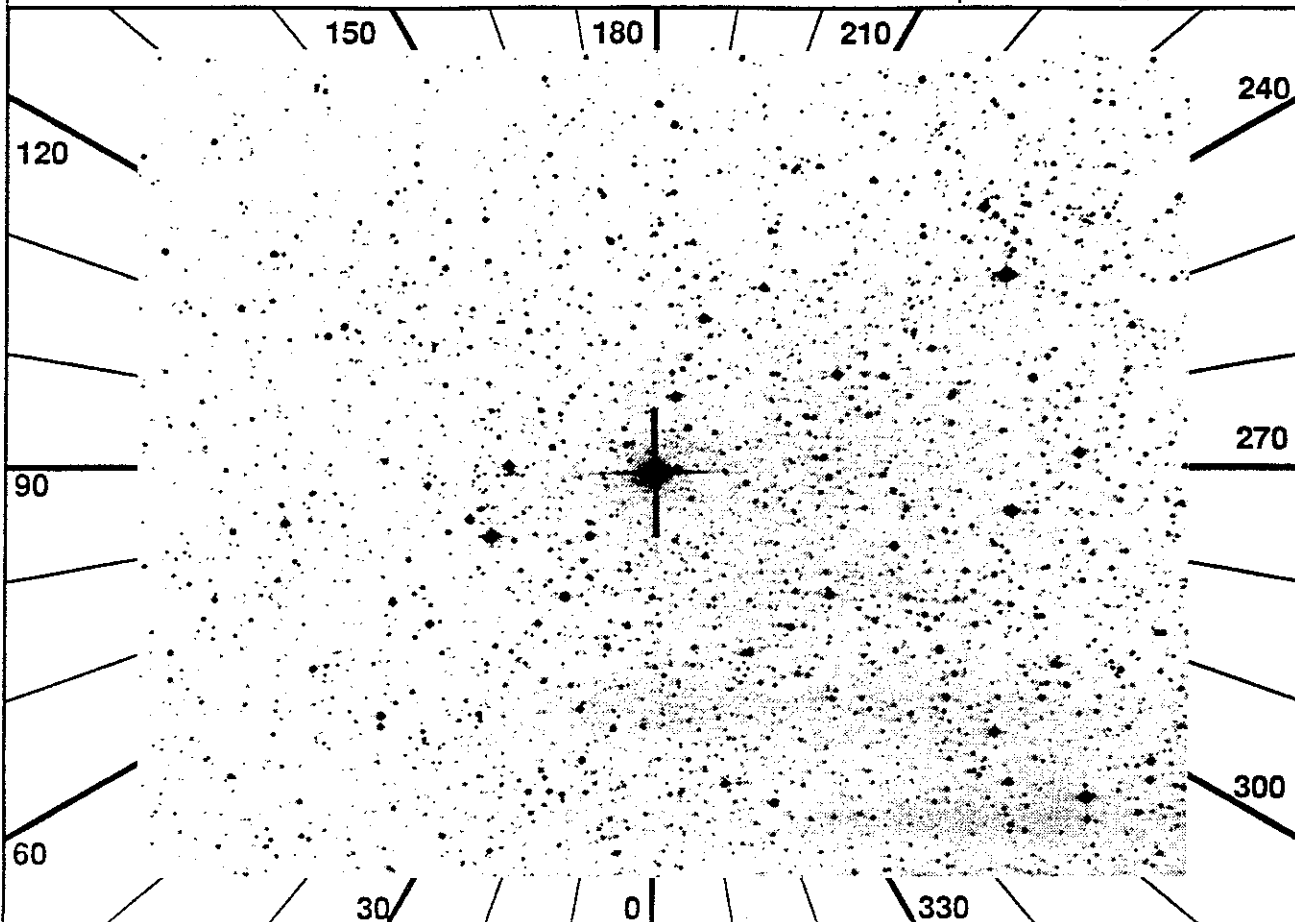


1 RA 135.0549 DEC -40.3570 ROLL 307.53

ID 3807-11

2 TIME 1765

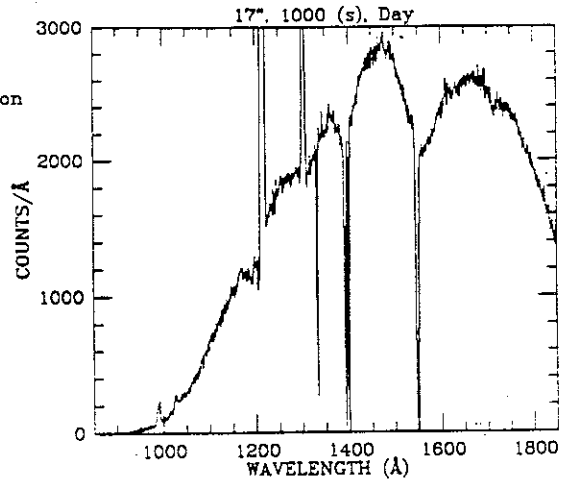
NAME VELA-X-1



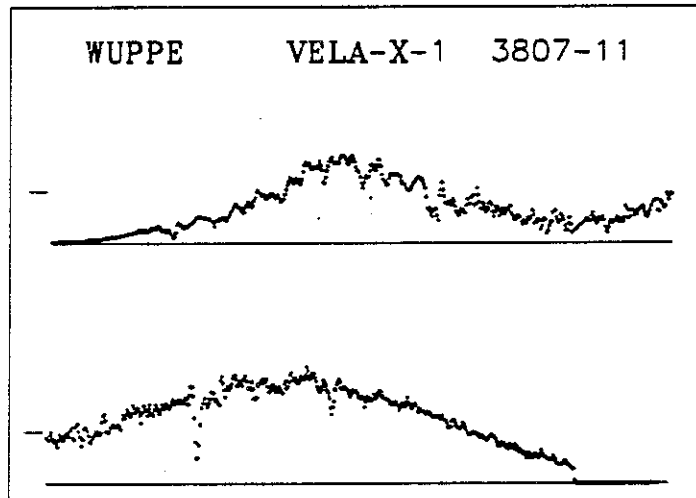
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2	
3	H	187	src	sim	7	7	4.2	5	7	1	---	-	-	---	SAA	AC DOOR2	
4	W	170	aut	aut	7	7	4.5		2	6	---	-	-	---			
5	S	U	246	DT	-	T	F	31 a5	31	b5		-	-	-			
6	H	-	VIP ON until SAA exit				17	H	HUT SETUP								
7	JAC	Config H W U				18	H	Chk HUT Stat -LOC									
8	-----																
9	H	-	Note: Acquisition in SAA				19		All BEGIN								
10	JAC	All SETUP				20		JOB Observe									
11	H	JAC	Chk Stat - -LOC RDY				21	H	HOP 800 sec after BEGIN,								
12	H	TV	Verify HUT acq on TV				22	H	ITEM 42_3 (shut -Y door)								
13	JAC	IMC BEGIN				23	JAC	All PREVIEW									
14		HUT ITEM 5				24		All QUIT									
15	H	-	After SAA exit				25	-----									
16	H	JAC	ITEM 16_0				26	JAC	ITEM 16_1								

door cal  
2

OBJECT: 3807 Vela X-1  
KEYWORDS: X-ray binary with massive companion  
COMMENTS:  
Spectrum primarily from reddened B0.5Ib star



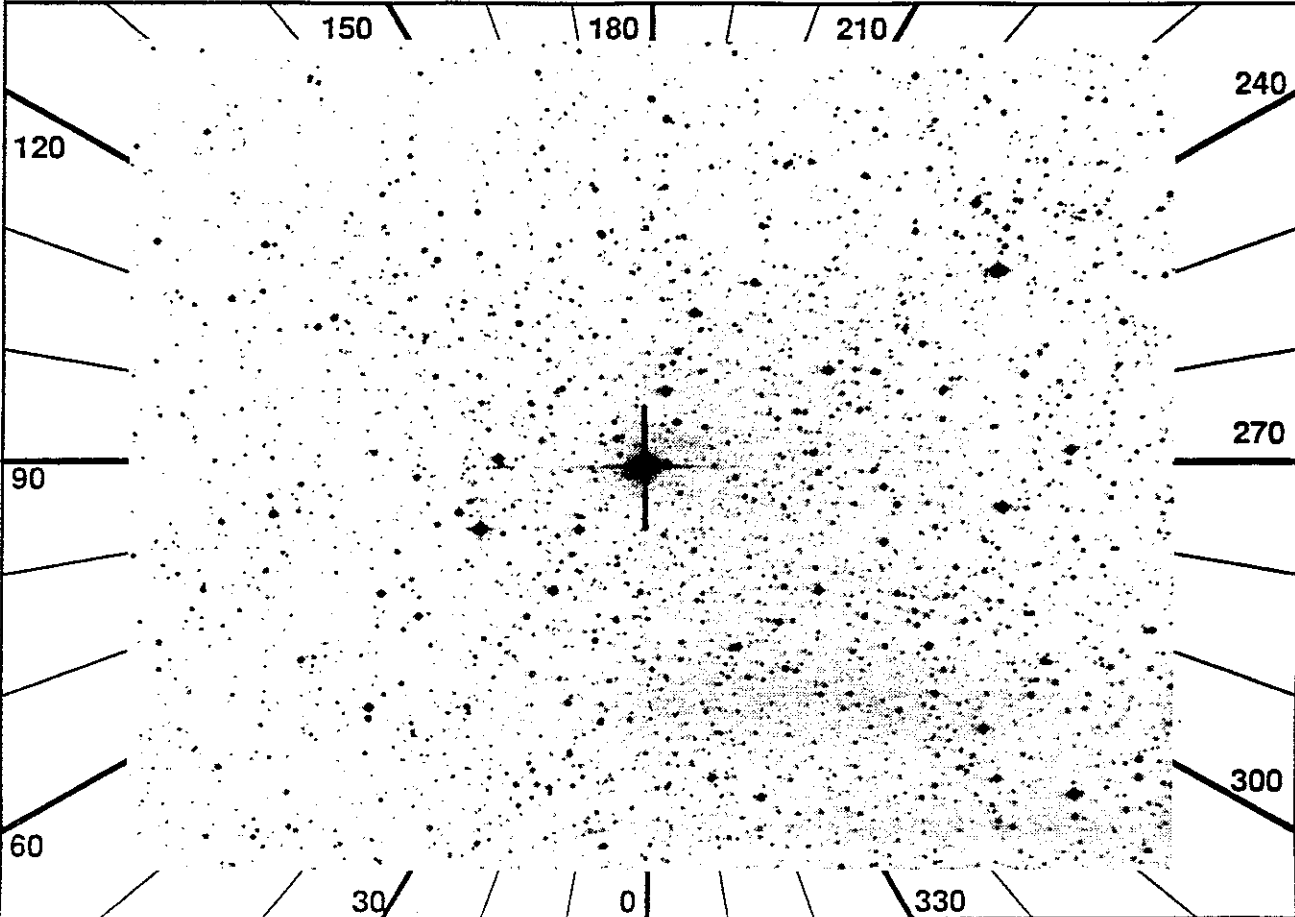
ID: 3807-11  
Names: VELA-X-1 HD77581  
Type: B0.5Ibe  
Pol: 3.32  
Pol Var: yes  
Pos Ang: 84.2  
Mechanism: Thomson scattering  
from density enhancements  
in the stellar wind  
Comments: X-ray source  
exhibiting rapid variations.  
Variable with P = 8.96 days.  
Scattering region changes  
on timescale of 10 days.  
UIT secondary target is in  
WUPPE PTL.  
Co-pointing with BBXRT.



UIT  
Observation Description

1 RA 135.0549 DEC -40.3570 ROLL 307.53  
 2 TIME 1690

ID 3807-12  
 NAME VELA-X-1

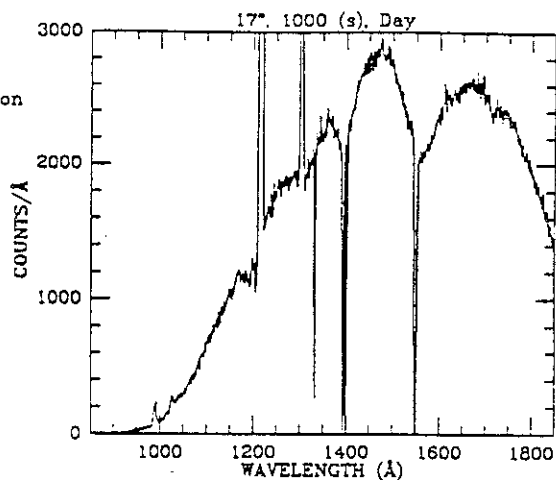


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	S	H	291	src	sim	7	7	4.2	5	7	1	---	---	---	SAA	3M
4	W	170	aut	aut	7	7	4.5	2	6	---	---	---	---	---		
5	U	247	DT	-	T	F	31	a2	31	a4	-	-	-	-		
6	H	-	VIP ON until SAA exit				16	H	JAC	ITEM 16 0						
7	JAC	Config H W U				17	H	HUT SETUP								
8	-----															
9	H	-	Note: Acquisition in SAA				18	H	Chk HUT Stat -LOC							
10	JAC	All SETUP				19		All BEGIN								
11	H	Chk Stat - -LOC RDY				20	JOB	Observe								
12	H	TV	Verify HUT acq on TV				21	JAC	All PREVIEW							
13	JAC	IMC BEGIN				22		All QUIT								
14	-----															
14	H	-	HUT ITEM 5				24	JAC	ITEM 16_1							
15	H	-	After SAA exit													

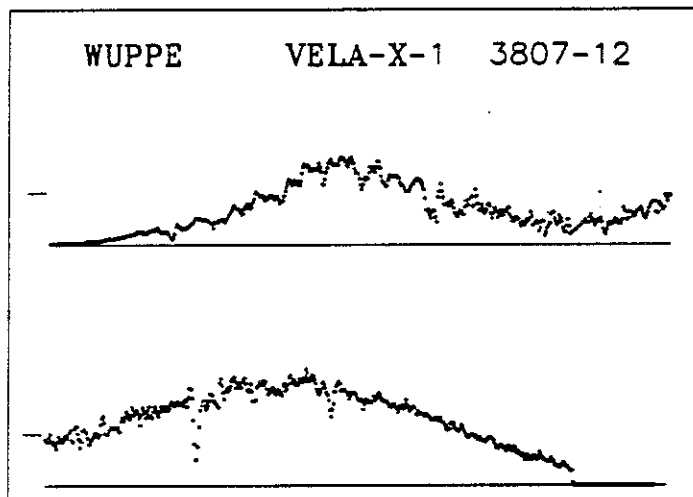
*dump this box*

*3*

OBJECT: 3807 Vela X-1  
KEYWORDS: X-ray binary with massive companion  
COMMENTS:  
Spectrum primarily from reddened B0.5IB star



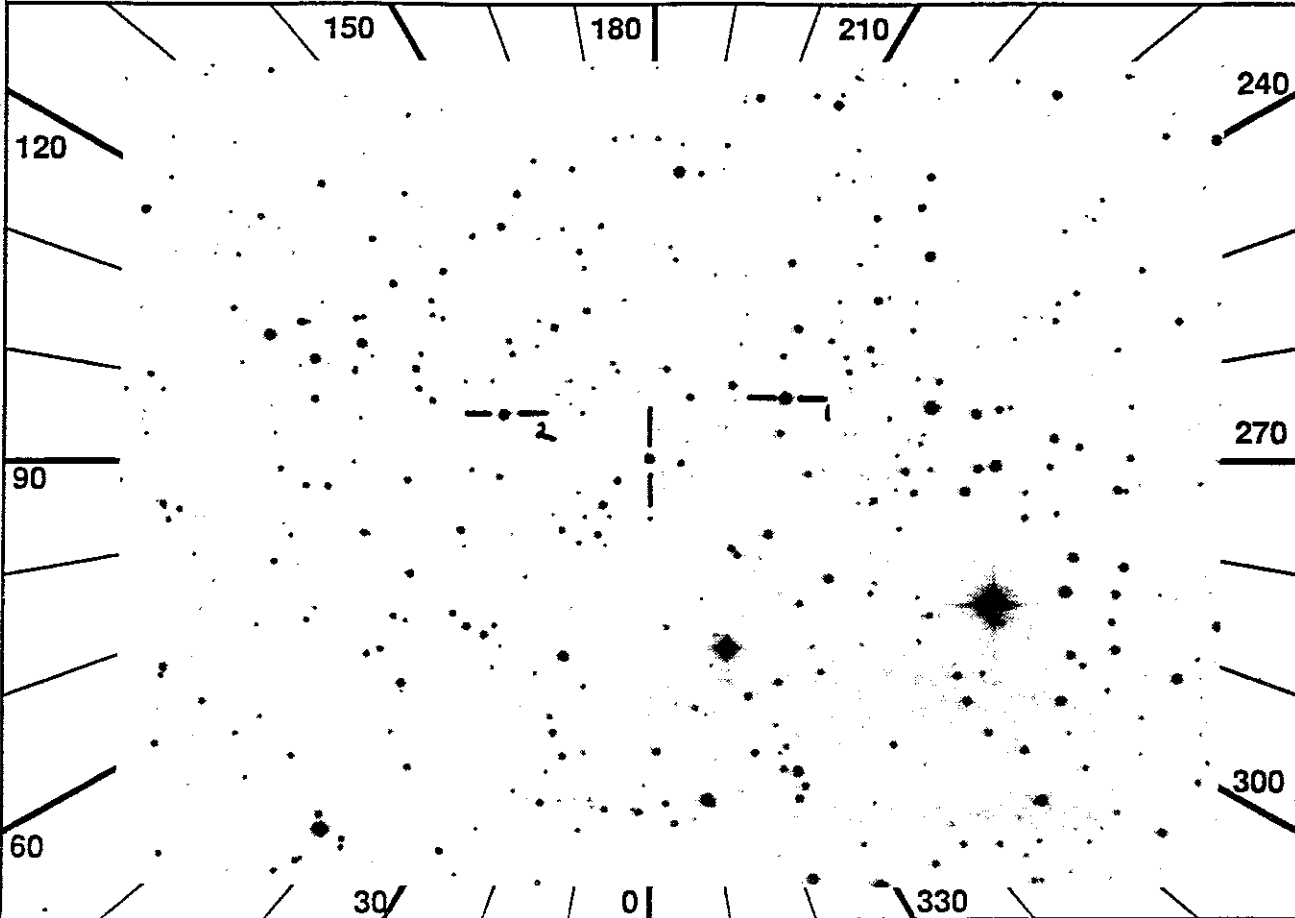
ID: 3807-12  
Names: VELA-X-1 HD77581  
Type: B0.5Ibe  
% Pol: 3.32  
Pol Var: yes  
Pos Ang: 84.2  
Mechanism: Thomson scattering  
from density enhancements  
in the stellar wind  
Comments: X-ray source  
exhibiting rapid variations.  
Variable with P = 8.96 days.  
Scattering region changes  
on timescale of 10 days.  
HUT secondary target is in  
WUPPE PTL.  
Co-pointing with BBXRT.



UIT  
Observation Description

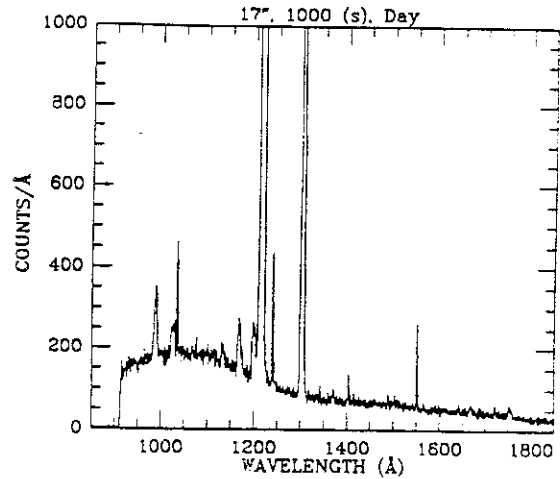
1 RA 254.0070 DEC 35.4180 ROLL 202.52  
 2 TIME 1663

ID 3814-11  
 NAME HER-X-1

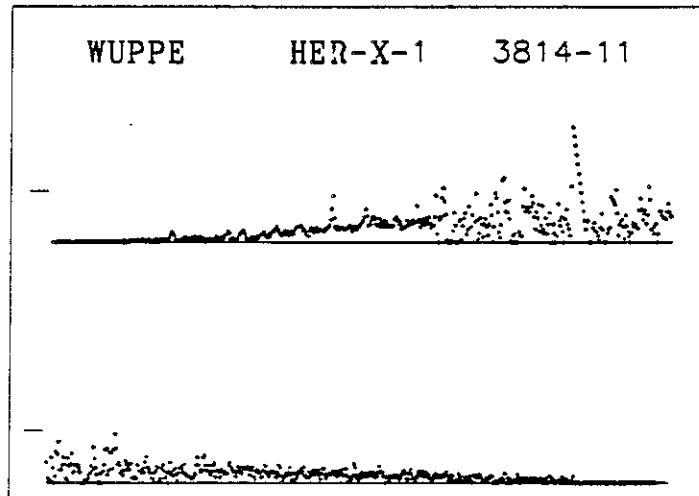


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	P H 152	src sim	15 14	3.0	5	7	4	---	-	-	---	-	-	---	HER-X1	
4	W 171	aut aut	14 11	2.8		2	2	---	-	-	---	-	-	---		
5	U 101	DT 153	T F	31 a1	31 b1	-	-	-	-	-	-	-	-	-		
6	JAC	ITEM 16 0				14			JOB	Observe						
7		Config H W U				15	H			Must keep high time mode						
8		-----				16	H			*IF LOG_R > 3.7						
9	JAC	All SETUP				17	H	HOP	*	ITEM 40 1 (mask 1216)						
10		Chk Stat -LOC -LOC RDY				18	JAC		All	PREVIEW						
11		IMC BEGIN				19			All	QUIT						
12		HUT ITEM 5				20			-----							
13		All BEGIN				21	JAC		ITEM	16_1						

OBJECT: 3814 Her X-1  
KEYWORDS: X-ray binary in low mass system  
COMMENTS:  
Eclipse and non-eclipse observations  
Variable 13.5-15  
Pulsator 1.2 second period  
Out of eclipse spectrum shown  
Eclipse spectrum similar with lower rate



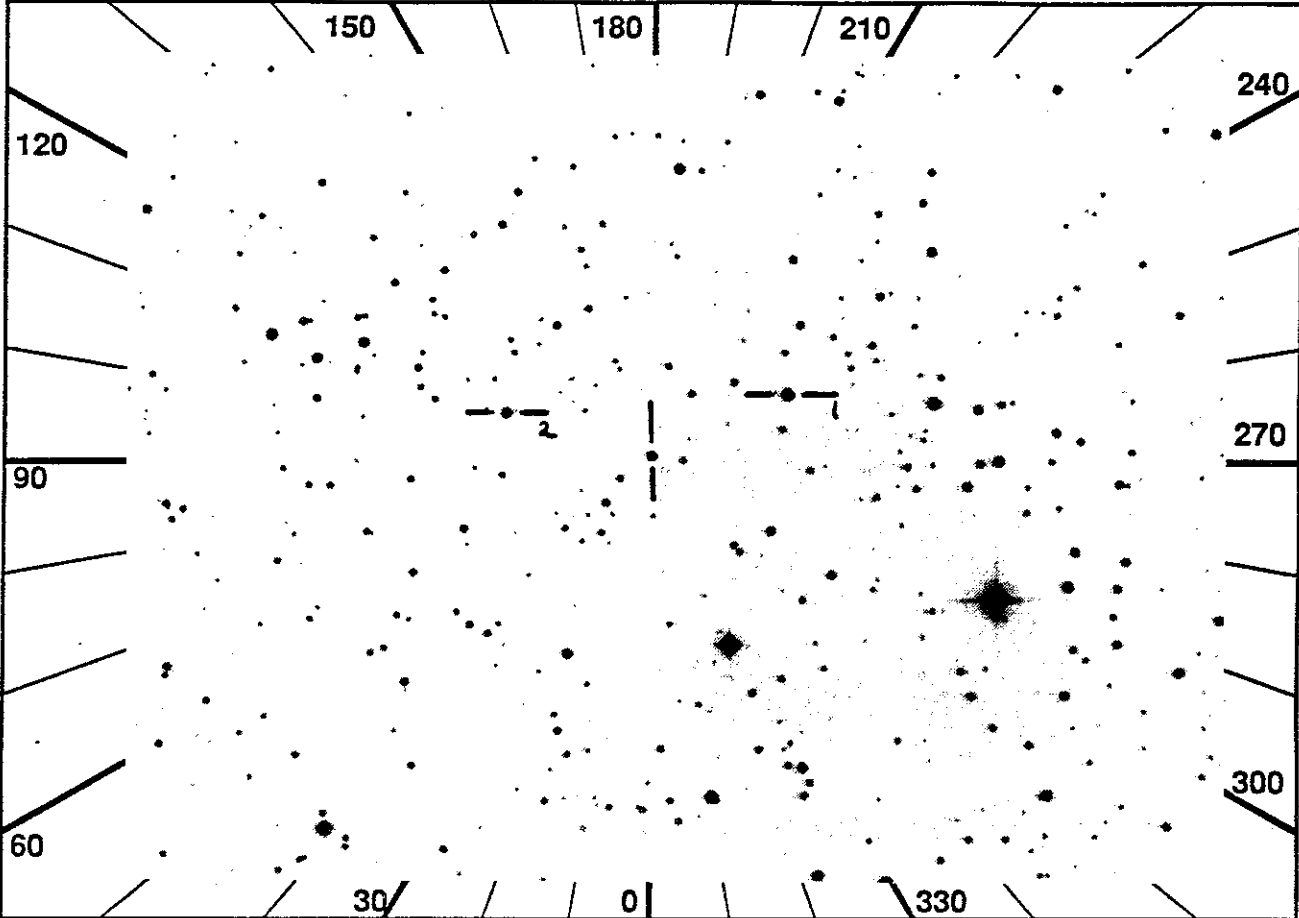
ID: 3814-11  
Names: HER-X-1 HZ-HER  
Type: A9+B  
% Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments: Low polz'n  
X-ray source  
HUT prime target in WUPPE PTL.  
Co-pointing with BBXRT.



UIT  
Observation Description

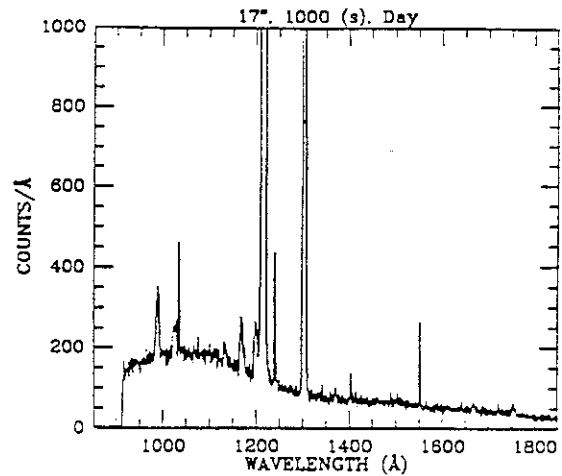
1 RA 254.0070 DEC 35.4180 ROLL 202.52  
 2 TIME 2461

ID 3814-12  
 NAME HER-X-1

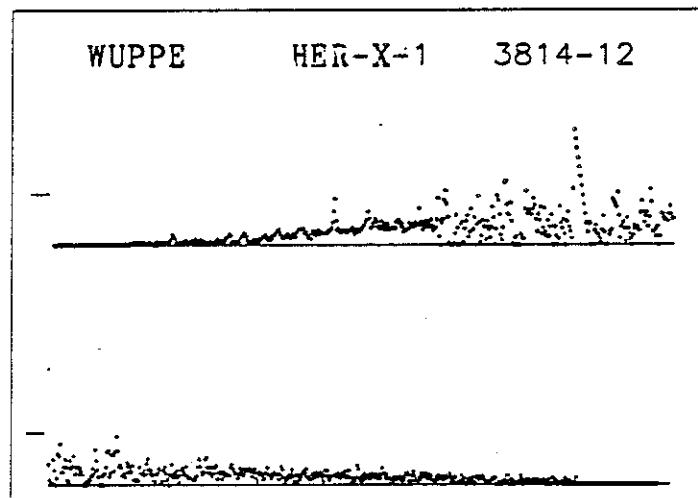


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	P	H	212	src	sim	15	14	3.0	5	7	4	---	---	---	HER-X1	
4		W	171	aut	aut	14	11	2.8		2	2	---	---	---		
5		U	240	DT	-	T	F	20	b5	11	b5	---	---	---	LTSTRT	
6	JAC	ITEM	16	0						16	U	UIT	BEGIN			
7		Config	H	W	U					17	U	JAC	Config with UIT			
8		-----								18	JOB	Observe				
9	JAC	All	SETUP							19	H	Must	keep high time mode			
10		Chk	Stat	-LOC	-LOC	RDY				20	H	*IF	LOG R > 3.7			
11		IMC	BEGIN							21	H	HOP	* ITEM 40 1 (mask 1216)			
12		HUT	ITEM	5						22	JAC	All	PREVIEW			
13	U	Config	without	UIT						23		All	QUIT			
14		All	BEGIN							24		-----				
15	U	JOB	Wait	for	TIME	AVAIL	2184			25	JAC	ITEM	16_1			

OBJECT: 3814 Her X-1  
KEYWORDS: X-ray binary in low mass system  
COMMENTS:  
Eclipse and non-eclipse observations  
Variable 13.5-15  
Pulsator 1.2 second period  
Out of eclipse spectrum shown  
Eclipse spectrum similar with lower rate



ID: 3814-12  
Names: HER-X-1 H3-HER  
Type: A9+B  
Pol:  
Pol Var:  
Pos Ang:  
Mechanism:  
Comments: Low polz'n  
X-ray source  
HUT prime target in WUPPE PTL.  
Co-pointing with BBXRT.

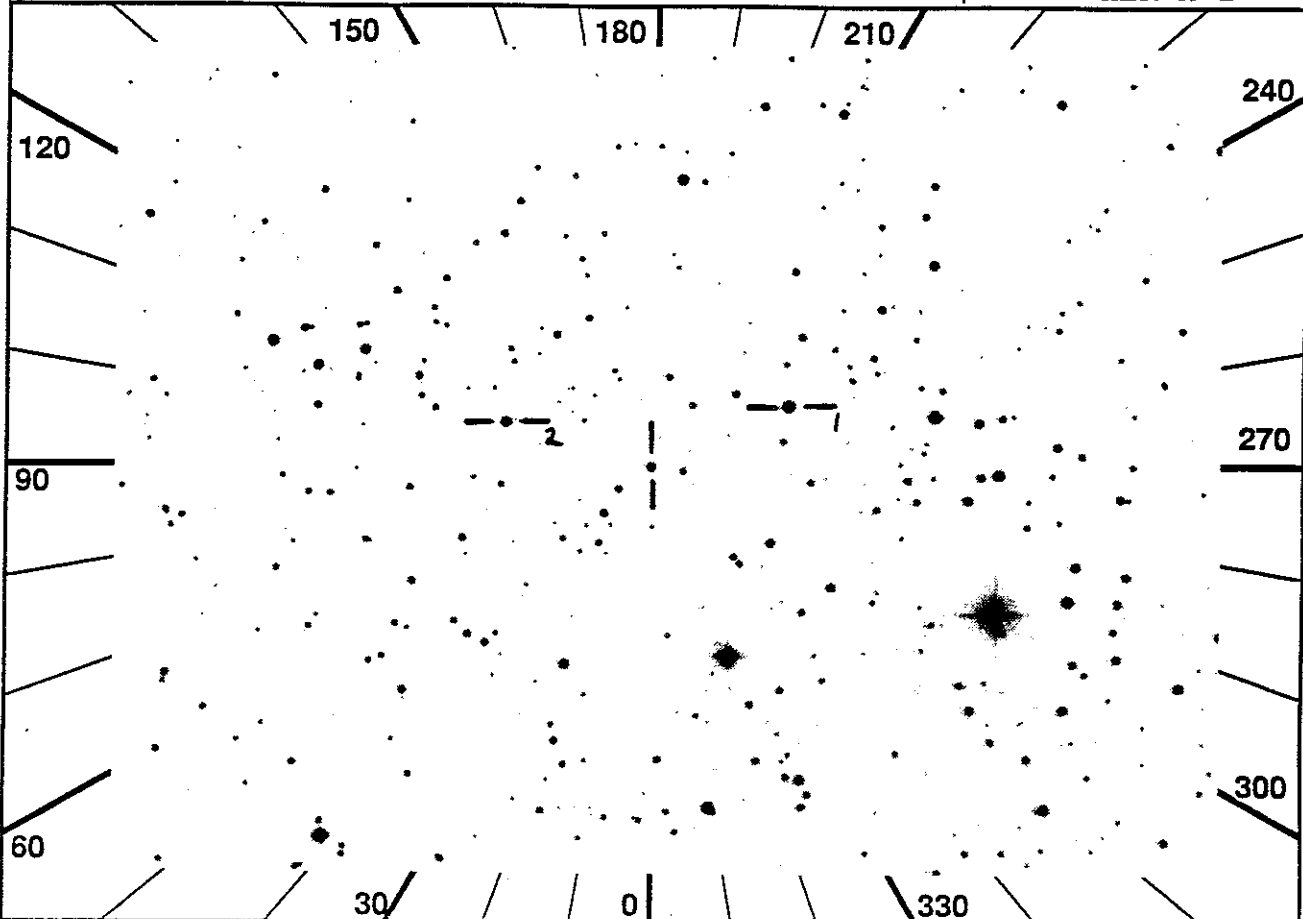


UIT  
Observation Description



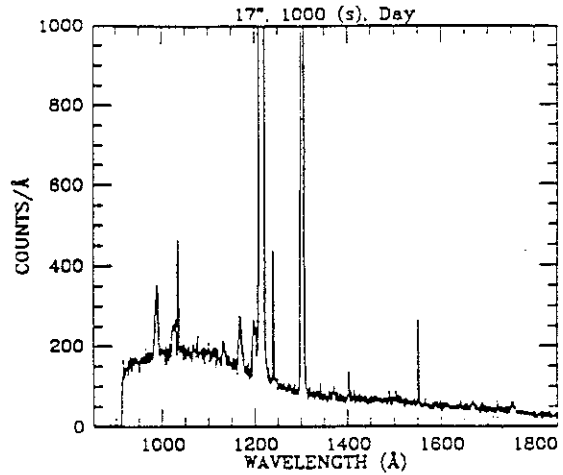
1 RA 254.0070 DEC 35.4180 ROLL 204.67  
 2 TIME 2024

ID 3814-20  
 NAME HER-X-1

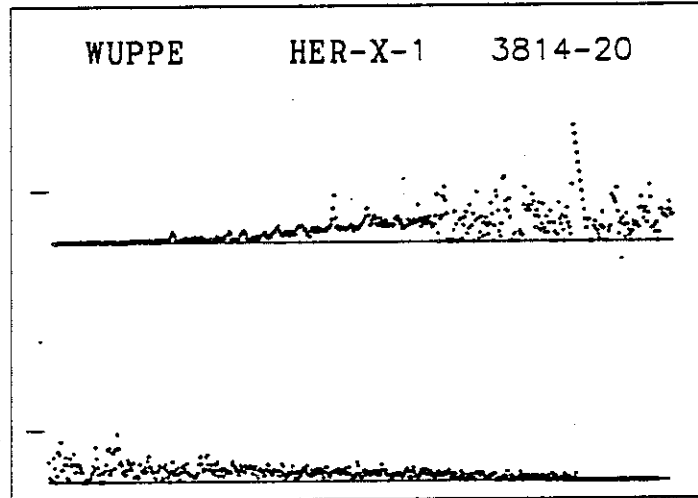


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	P H	232	src sim	15	14	3.0	5	7	4	---	---	---	---	---	HER-X1	
4	W	171	aut aut	14	11	2.8		2	2	---	---	---	---			
5	U	237	DT -	T F	11	a6		2	b5	---	---	---	---			
6	JAC	ITEM	16_0					14	JOB	Observe						
7		Config	H W U					15	H	Must keep high time mode						
8		-----						16	H	*IF LOG R > 3.7						
9	JAC	All	SETUP					17	H	HOP * ITEM 40_1 (mask 1216)						
10		Chk	Stat	-LOC	-LOC	RDY		18	JAC	All PREVIEW						
11		IMC	BEGIN					19		All QUIT						
12		HUT	ITEM	5				20		-----						
13		All	BEGIN					21	JAC	ITEM 16_1						

OBJECT: 3814 Her X-1  
KEYWORDS: X-ray binary in low mass system  
COMMENTS:  
Eclipse and non-eclipse observations  
Variable 13.5-15  
Pulsator 1.2 second period  
Out of eclipse spectrum shown  
Eclipse spectrum similar with lower rate



ID: 3814-20  
Names: HER-X-1 HZ-HER  
Type: A9+B  
Pol:   
Pol Var:   
Pos Ang:   
Mechanism:   
Comments: Low polz'n  
X-ray source  
HUT prime target in WUPPE PTL.  
Co-pointing with BBXRT.



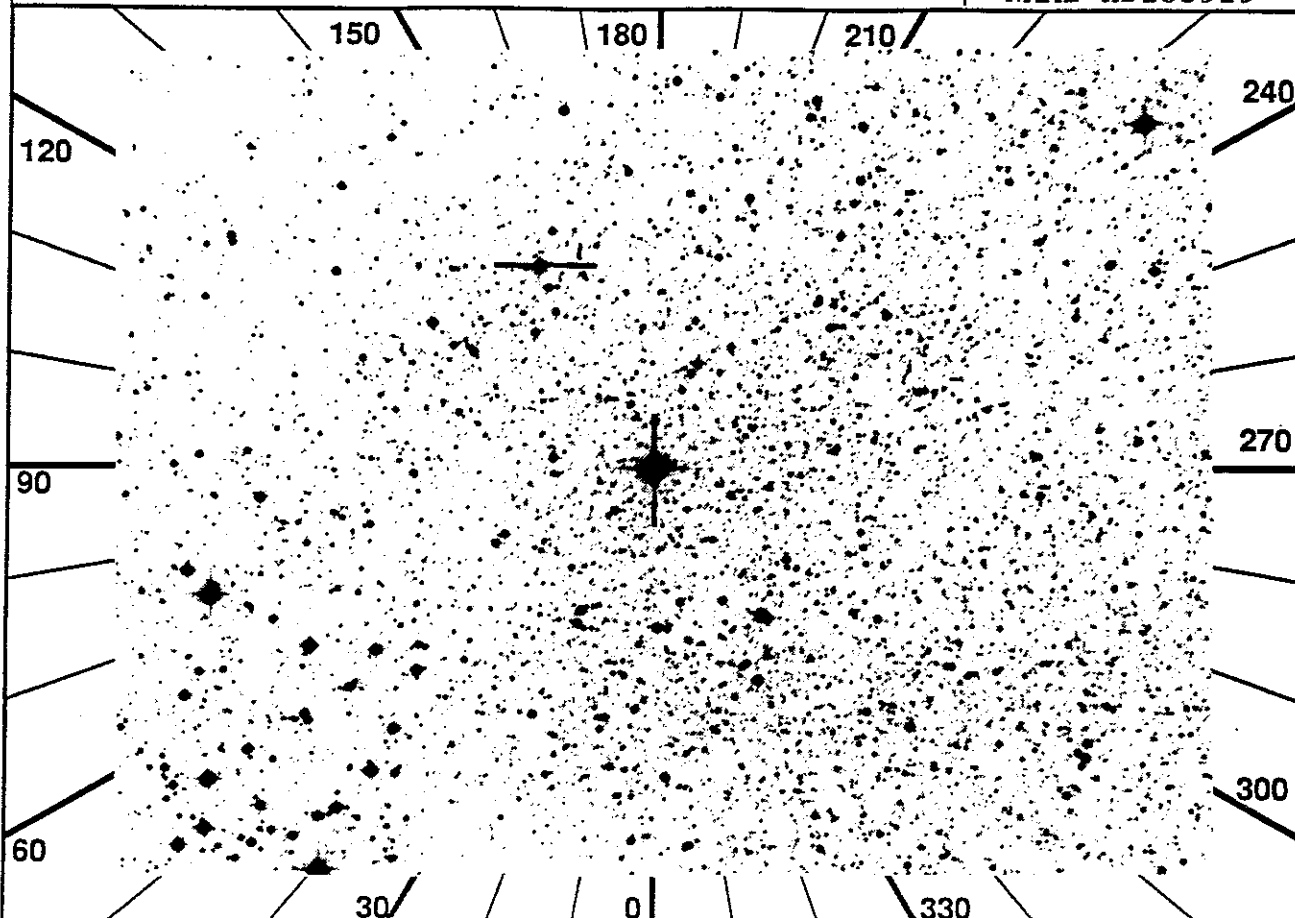
UIT  
Observation Description

1 RA 255.1362 DEC -37.7747 ROLL 94.23

ID 3815-10

2 TIME 2017

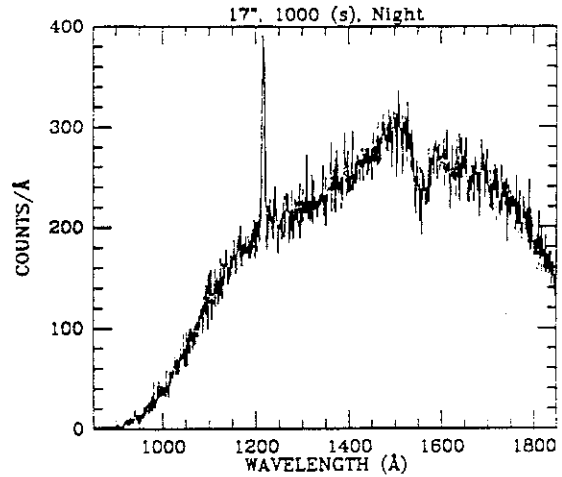
NAME HD153919



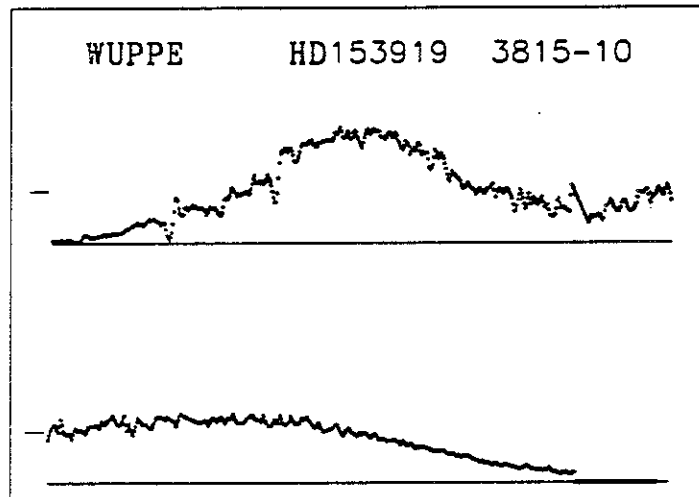
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	190	src	sim	7	9	3.3	2	7	4	---	---	---	---	SMALAP	C LR3
4	P	W 172	aut	aut	7	5	5.2		8	6	---	---	---			
5	U	99	DT	-	T	F	-	-	-	-	-	-	-	-	-	V-BRT
6	U		(At beginning of slew)				22	H	HDC	*	ITEM	61	0	(ND6	filt)	
7	U	UAC	*IF UIT Door 0*				23	H		*	Check	61	0	0		
8	U		* ITEM 44, Chk Door C*				24	H	HOP	*	ITEM	42	3	(door	3)	
9	U		Expect UIT SET,OBS err				25	H		*	ITEM	32	X	(X =	gs mag)	
10	H	JAC	VIP ON until at obs slit				26		JOB	Observe						
11			Config H W U				27		JAC	All PREVIEW						
12			-----				28	H	HDC	(just	prior	to	QUIT)			
13	JAC		All SETUP				29	H		ITEM	61	0	(ND6	filt)		
14	J		Chk Stat - -LOC STB				30	H		Check	61	0	0			
15	H	TV	Verify HUT acq on TV				31	H	JAC	ITEM	16	I	-			
16	JAC		IMC BEGIN				32			All	QUIT					
17			HUT ITEM 5				33			-----						
18			All BEGIN				34	U		(During	slew)					
19	H	HSP	When actual slit pos=7				35	U	UAC	*IF	next	obj	not	V-BRT		
20	H	JAC	ITEM 16 0				36	U		*	ITEM	43,	Chk	Door	0*	
21	H	JOB	*IF HUT LOG_R < 3													
			HOP *ITEM 39_1													

2

OBJECT: 3815 HD153919  
KEYWORDS: Massive X-ray Binary  
COMMENTS:  
Spectrum of reddened O6.5Ia star  
50 cm<sup>2</sup> aperture

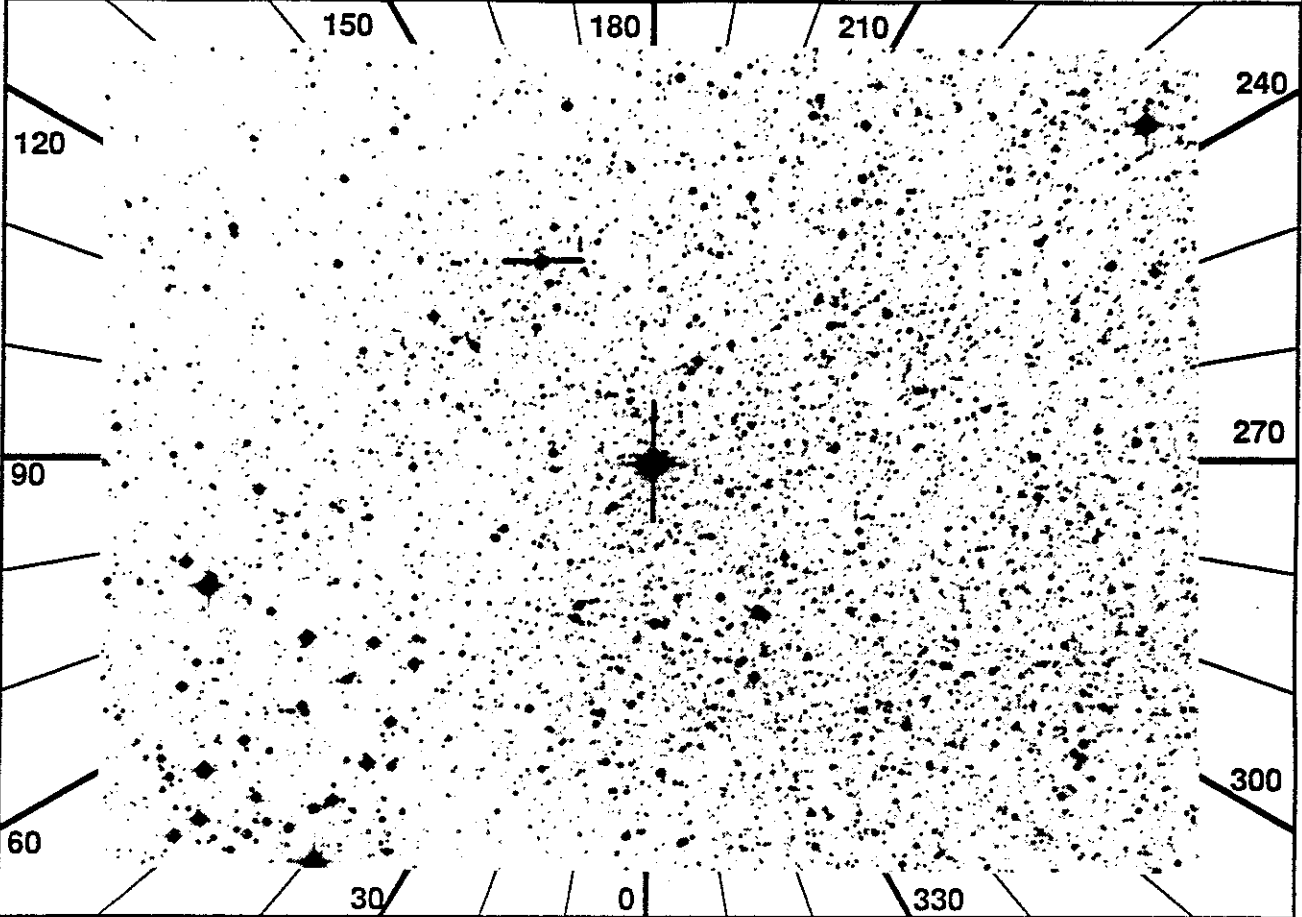


ID: 3815-10  
Names: HD153919 1700-37  
Type: O6  
Pol: 2.1  
Pol Var: 1.9 - 2.2  
Pos Ang: 5 - 10  
Mechanism: Thomson or  
Rayleigh scattering  
Comments: Scattering region  
changes over a timescale  
of about 10 days.  
Controversy about  
polarization mechanism.  
Co-pointing with BBXRT.



UIT  
Observation Description

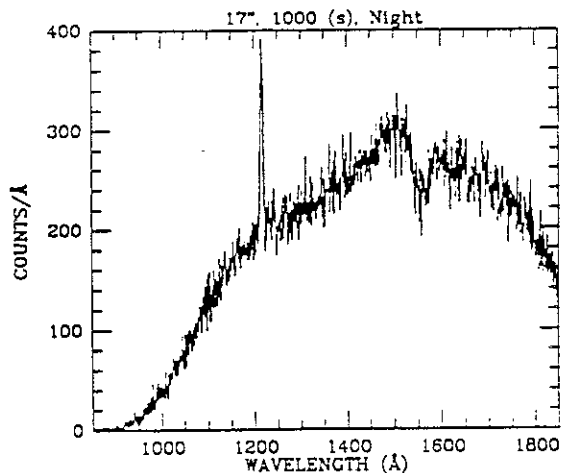
1 RA 255.1362 DEC -37.7747 ROLL 44.60 ID 3815-20  
 2 TIME 1916 NAME HD153919



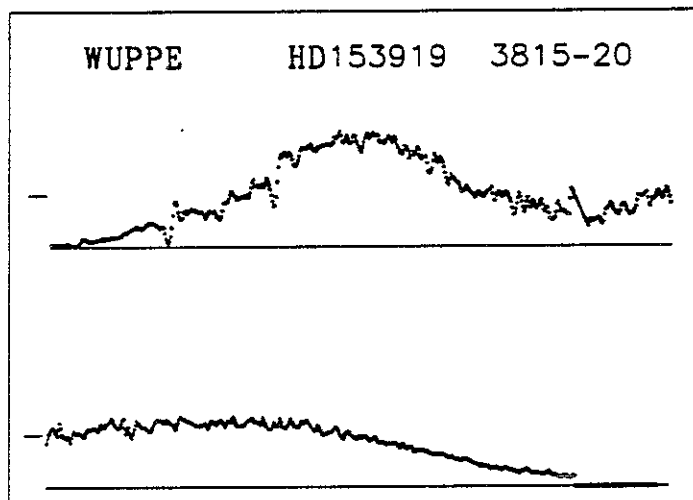
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	222	src sim	7	9	3.3	2	7	4	---	---	---	---	---	SMALAP	C LR3
4	P	W 172	aut aut	7	5	5.2		8	6	---	---	---	---	---	SAA1	
5	U	99	DT -	T F	-	-	-	-	-	-	-	-	-	-	V-BRT	
6	U		(At beginning of slew)				26	JOB	Observe							
7	U	UAC	*IF UIT Door 0*				27	H	HDC	(just prior to QUIT)						
8	U		* ITEM 44, Chk Door C*				28	H		ITEM 61_0 (ND6 filt)						
9	U		Expect UIT SET,OBS err				29	H		Check 6I_0_0						
10	H	JAC	VIP ON until at obs slit				30	H	JAC	ITEM 16_I_						
11			Config H W U				31	W	JOB	Wait for time avail=0						
12			-----				32	W	JAC	UIT QUIT						
13	JAC		All SETUP				33			-----						
14	J		Chk Stat - -LOC STB				34	W		NOTE: SAA OBS-NO IPS HLD						
15	H	TV	Verify HUT acq on TV				35	W	WOB	ITEM 8 (Pause)						
16	JAC		IMC BEGIN				36	W		ITEM 2 (Setup)						
17			HUT ITEM 5				37	W		Chk WUP Stat -LOC						
18			All BEGIN				38	W		ITEM 7 t (t=SAAout/mnvr)						
19	H	HSP	When actual slit pos=7				39	W	JOB	Observe						
20	H	JAC	ITEM 16_0				40	W	JAC	All PREVIEW						
21	H	JOB	*IF HUT_LOG_R < 3				41	W	WOB	Wait for time rem obj=0						
22	H	HDC	* ITEM 61_0 (ND6 filt)				42	W	JAC	All QUIT						
23	H		* Check 6I_0_0				43	U		(During slew)						
24	H	HOP	* ITEM 42_3 (door 3)				44	U	UAC	*IF next obj not V-BRT						
25	H		* ITEM 32_X (X = gs mag)				45	U		* ITEM 43, Chk Door 0*						

HOP \* ITEM 39\_!

OBJECT: 3815 HD153919  
KEYWORDS: Massive X-ray Binary  
COMMENTS:  
Spectrum of reddened O6.5Ia star  
50 cm\*\*2 aperture



ID: 3815-20  
Names: HD153919 1700-37  
Type: O6  
Pol: 2.1  
Pol Var: 1.9 - 2.2  
Pos Ang: 5 - 10  
Mechanism: Thomson or  
Rayleigh scattering  
Comments: Scattering region  
changes over a timescale  
of about 10 days.  
Controversy about  
polarization mechanism.



UIT  
Observation Description