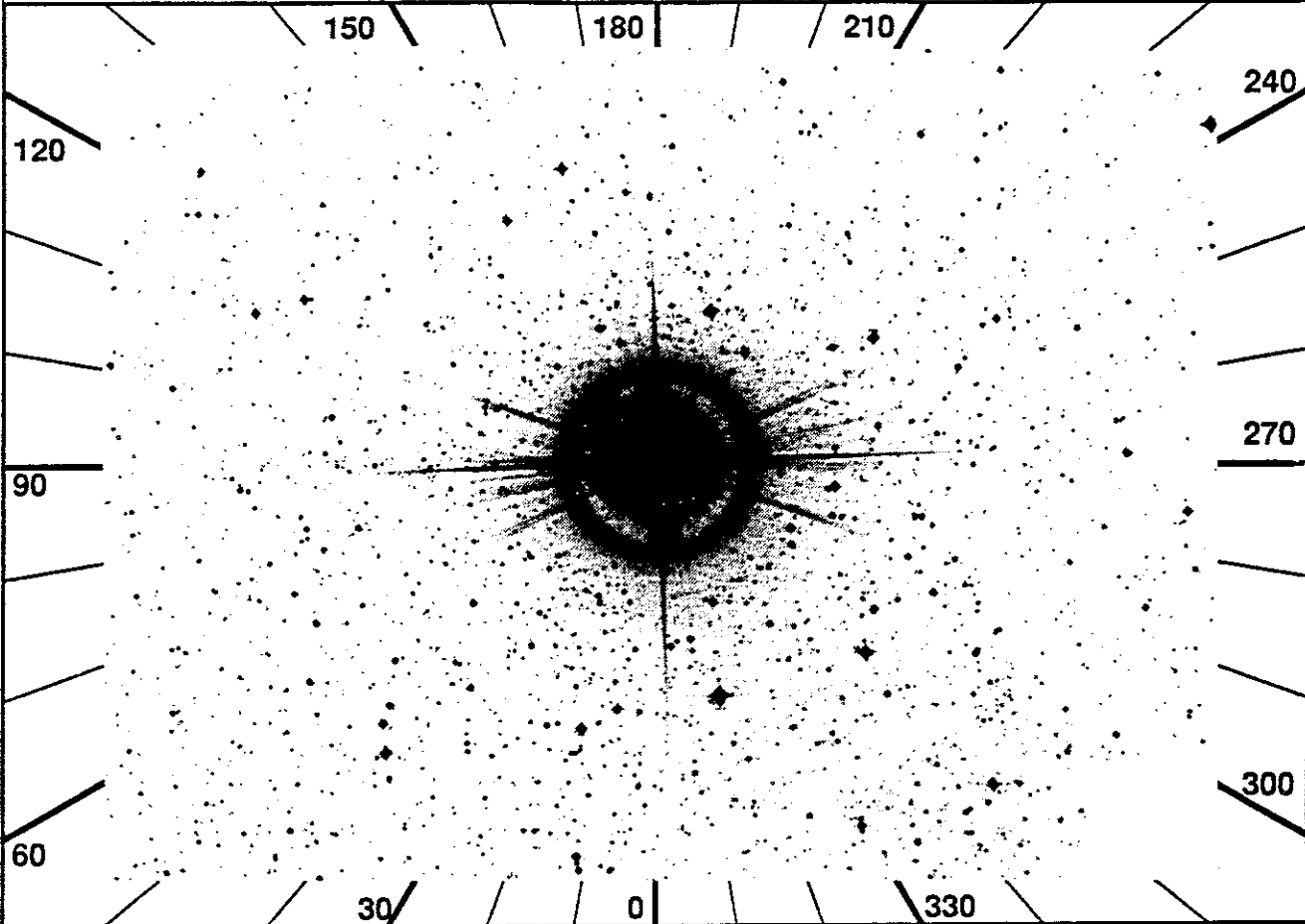


1 RA 120.4565 DEC -39.8613 ROLL 83.78  
 2 TIME 927

ID 2111-10  
 NAME ZET-PUP

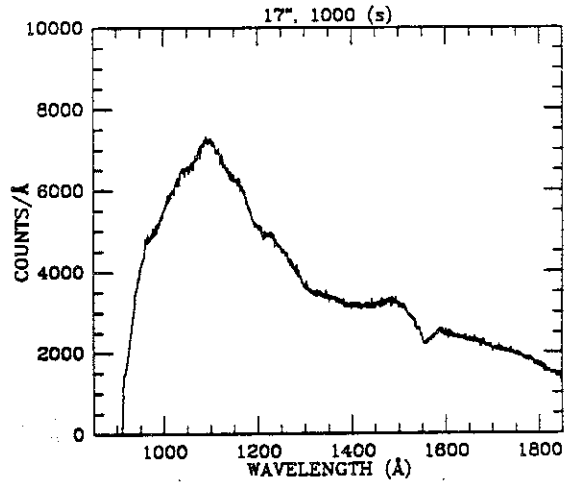


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2		
3	H	209	src	sim	3	3	4.5	1	7	1	---	---	---	---	1CM	AP		
4	S	W 118	aut	aut	2	5	5.2		11	2	---	2	2	10	8	2	9	SCAT
5	U	99	DT	-		T	F	-	-	-	-	-	-	-	-	-	-	V-BRT

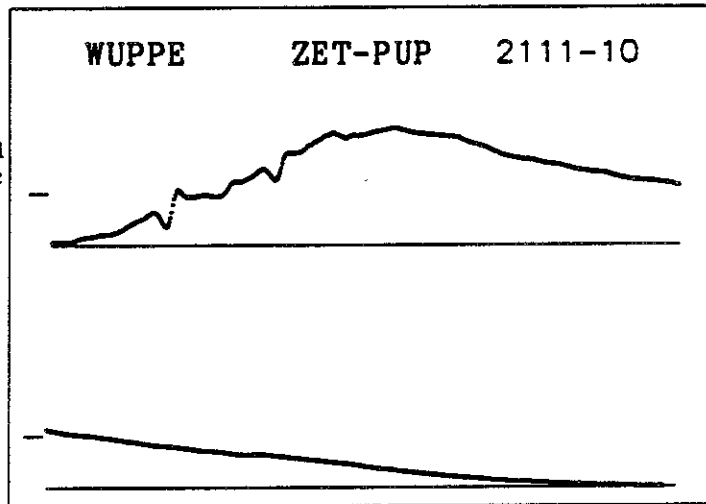
6	U		(At beginning of slew)						25	W		NOTE: WUP seqs1,4 occult
7	U	UAC	*IF UIT Door O*						26	W		apers: tgt will vanish
8	U		* ITEM 44, Chk Door C*						27	W		NOTE: Carefully monitor
9	U		Expect UIT SET,OBS err						28	W		WUP LOGR; inform POCC
10	H	JAC	VIP ON until at obs slit						29	W		*IF WUP RET SIG msg
11			Config H W U						30	W	WOB	* ITEM 8 (Pause)
12			-----						31	W		* ITEM 14 x (x=x-2)
13		JAC	All SETUP						32	W	JAC	* WUP ITEM 9 (Proceed)
14	J		Chk Stat - -LOC STB						33		JOB	Observe
15	H	TV	Verify HUT acq on TV						34		JAC	All PREVIEW
16		JAC	IMC BEGIN						35	H	HDC	(just prior to QUIT)
17			HUT ITEM 5						36	H		ITEM 61 0 (ND6 filt)
18			All BEGIN						37	H		Check 61 0_0
19	H	HSP	When actual slit pos=7						38	H	JAC	ITEM 16 I_0
20	H	JAC	ITEM 16_0 (T = 0 sec)						39			All QUIT
21	H		ITEM 16_1 (T = 100 sec)						40			-----
22	H		When log P < -5.5						41	U		(During slew)
23	H		ITEM 16_0 Repeat.						42	U	UAC	*IF next obj not V-BRT
24	H		(Cycle pump thru obs)						43	U		* ITEM 43, Chk Door O*

CRITICAL

OBJECT: 2111 Zeta Pup  
 KEYWORDS: Bright O5Iaf Star  
 COMMENTS:  
 1 cm\*\*2 aperture



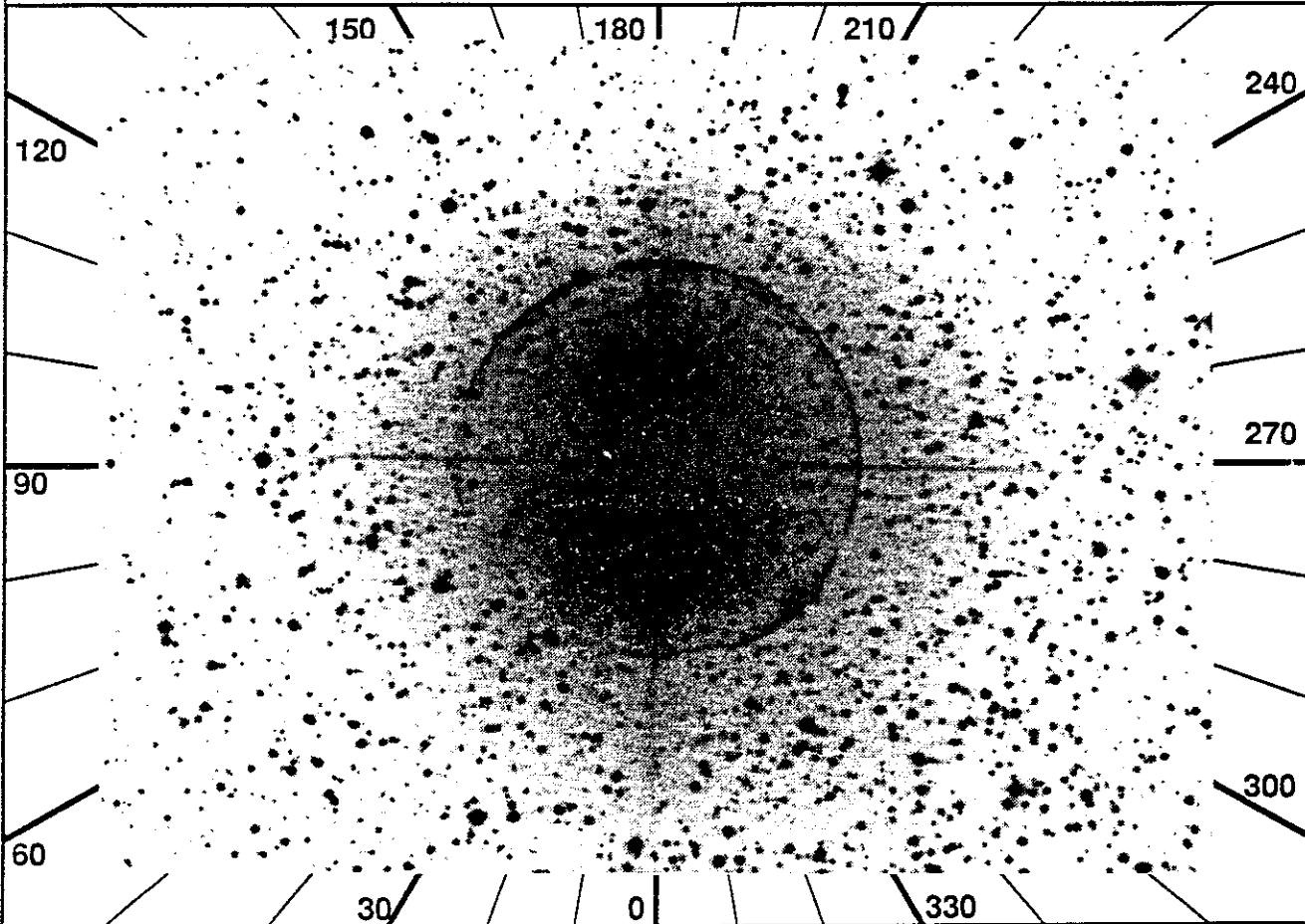
ID: 2111-10  
 Names: ZET-PUP HD66811  
 Type: O5Iaf  
 % Pol: 0.04  
 Pos Ang: 155.0  
 Comments: Instrumental scattered  
 light calibration, for specific  
 obs of circumstellar matter:  
 Aper Offset Supports obs  
 11 0 (Occult) 4114 (NGC6720)  
 2 10 4207 (Eta-Carh)  
 8 9 4109,4120 (PNs)  
 10 0 (Occult) 3108 (Bet-Pic)  
 7 45 4211 (NGC7023)  
 APERTURE MAP FO MUST BE  
 PERFORMED BEFORE THIS. DO NOT  
 LET STAR INTO OBS APER - RET  
 WILL SATURATE



UIT  
 Observation Description

1 RA 106.5893 DEC -26.3126 ROLL 28.99  
 2 TIME 1369

ID 2115-10  
 NAME DEL-CMA

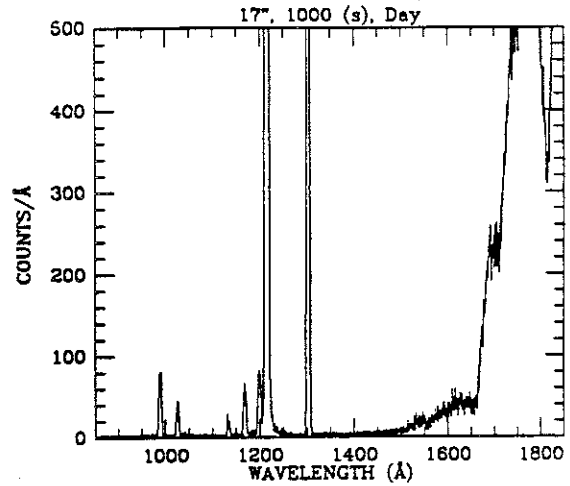


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	61	src	sim	2	2	3.5	5	7	4	---	7	2	---	SAA AC	PHDMON
4	P	W 119	aut	aut	2	5	5.1		8	6	---	---	---	---	SAA3	
5	U	99	DT	-		T	F	-	-	-	-	-	-	-	-	V-BRT

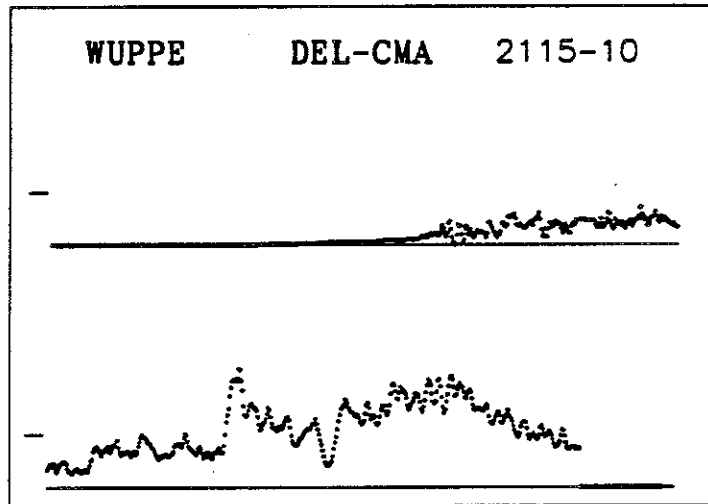
6	U	(At beginning of slew)	24	W	* ITEM 8 (Pause)
7	U	UAC *IF UIT Door O*	25	W	* ITEM 2 (Setup)
8	U	* ITEM 44, Chk Door C*	26	W	JAC * Reconfig as before
9	U	Expect UIT SET,OBS err	27	H	- After SAA exit
10	H	VIP ON until SAA exit	28	H	JAC ITEM 16 0
11	JAC	Config H W U	29	H	HUT SETUP
12		-----	30	H	Chk HUT Stat -LOC
13	H	Note: Acquisition in SAA	31		All BEGIN
14	JAC	All SETUP	32	U	JOB Observe
15	J	Chk Stat - -LOC STB	33	H	HUT will dither to ss
16	H	TV Verify HUT acq on TV	34	H	mode for part of obs.
17	JAC	IMC BEGIN	35	JAC	All PREVIEW
18		HUT ITEM 5	36		All QUIT
19	W	IF t=SAA out > 240 sec	37		-----
20	W	* Config All=No-one	38	JAC	ITEM 16 1
21	W	* All BEGIN (Begin IMC)	39	U	(During slew)
22	W	WOB * ITEM 7 t (t=SAA out)	40	U	UAC *IF next obj not V-BRT
23	W	* Wait for tim rem obj=0	41	U	* ITEM 43, Chk Door O*

*chromople*  
 2

OBJECT: 2115 Delta C Ma  
KEYWORDS: Bright F star  
COMMENTS:  
Chromospheric emission lines



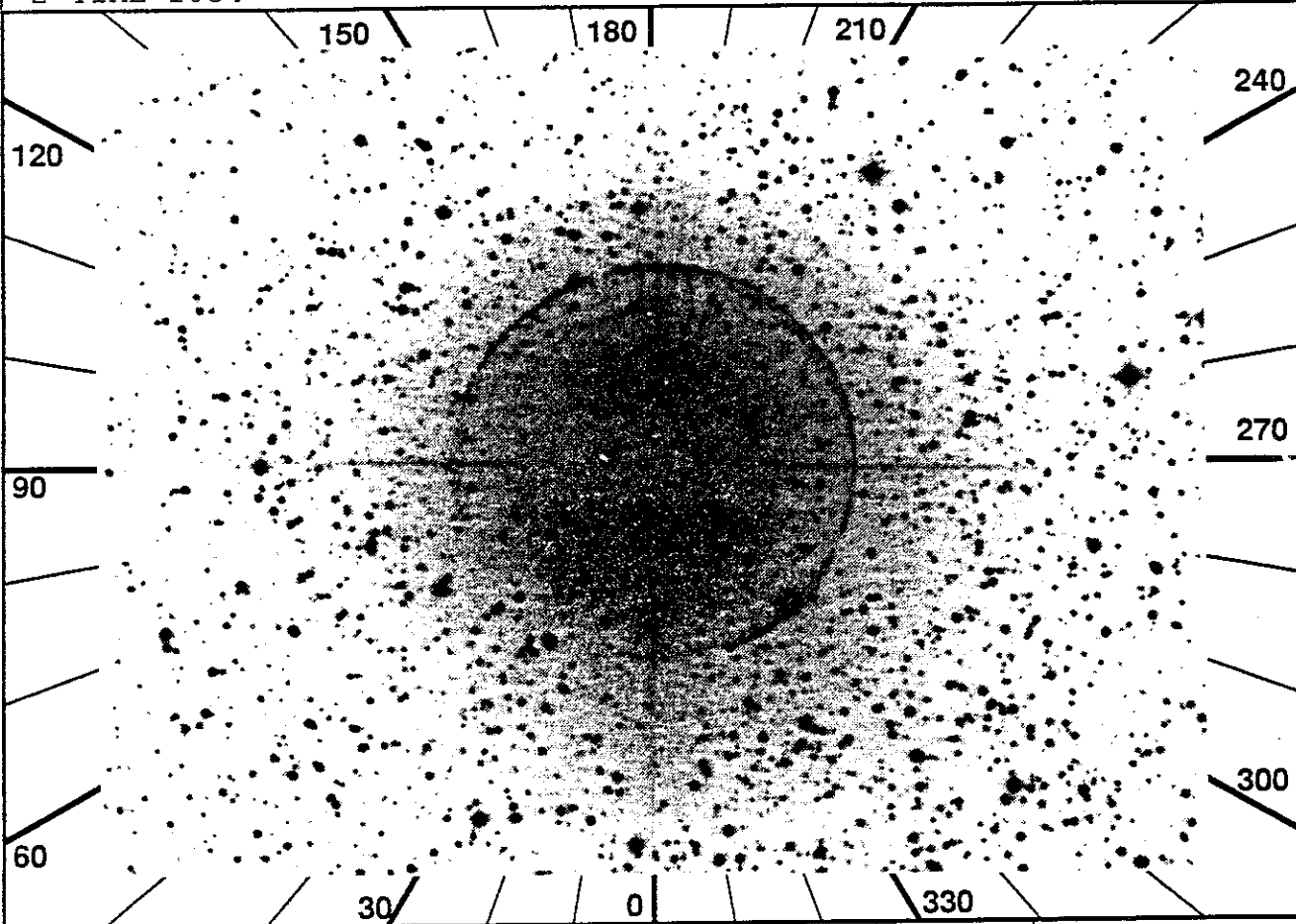
ID: 2115-10  
Names: DEL-CMA HD54605  
Type: F8Ia  
% Pol: 0.20  
Pol Var: ?  
Pos Ang: 26.0  
Mechanism: Rayleigh scattering  
by neutral-H in the photo-  
sphere due to nonradial  
pulsations or hot spots  
Comments: Weak emission (MgII).  
Acquire and begin obs in the  
SAA.



UIT  
Observation Description

1 RA 106.5893 DEC -26.3126 ROLL 241.29  
 2 TIME 1034

ID 2115-20  
 NAME DEL-CMA

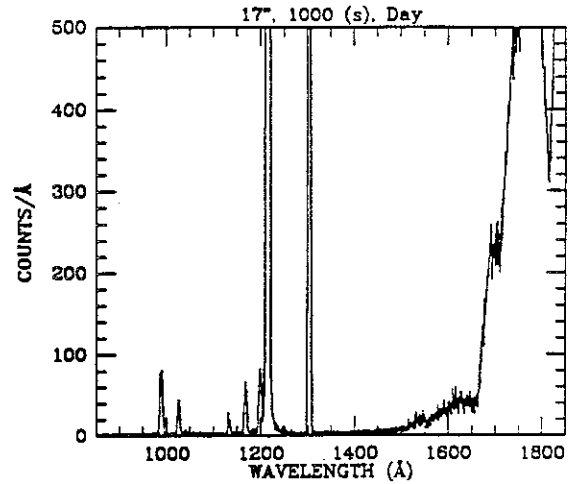


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	304	src sim	2	2	3.5	5	7	4	---	7	2	---	---	PHDMON	
4	P	W 119	aut aut	2	5	5.1		8	6	---	---	---	---	---		
5	U	99	DT -	T F	-	-	-	-	-	-	-	-	-	-	V-BRT	
6	U		(At beginning of slew)				17			All BEGIN						
7	U	UAC	*IF UIT Door O*				18			JOB Observe						
8	U		* ITEM 44, Chk Door C*				19	H		HUT will dither to ss						
9	U		Expect UIT SET,OBS err				20	H		mode for part of obs.						
10	JAC		ITEM 16 0				21		JAC	All PREVIEW						
11			Config H W U				22			All QUIT						
12			-----				23			-----						
13	JAC		All SETUP				24		JAC	ITEM 16_1						
14	U		Chk Stat -LOC -LOC STB				25	U		(During slew)						
15			IMC BEGIN				26	U	UAC	*IF next obj not V-BRT						
16			HUT ITEM 5				27	U		* ITEM 43, Chk Door O*						

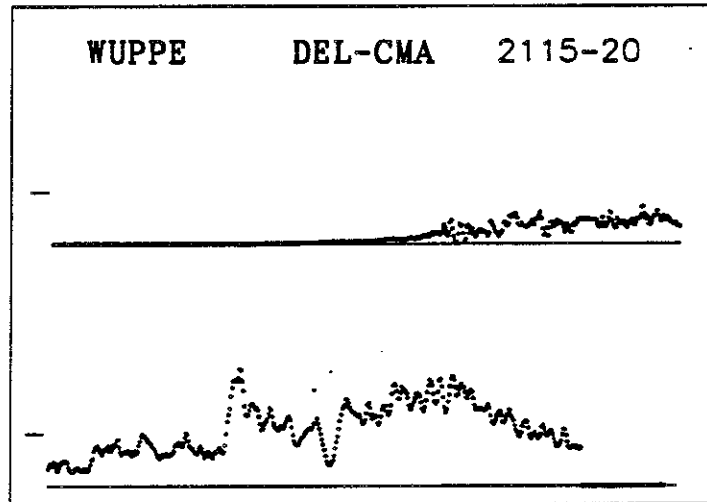
*Chromospheric lines*

2

OBJECT: 2115 Delta C Ma  
KEYWORDS: Bright F star  
COMMENTS:  
Chromospheric emission lines



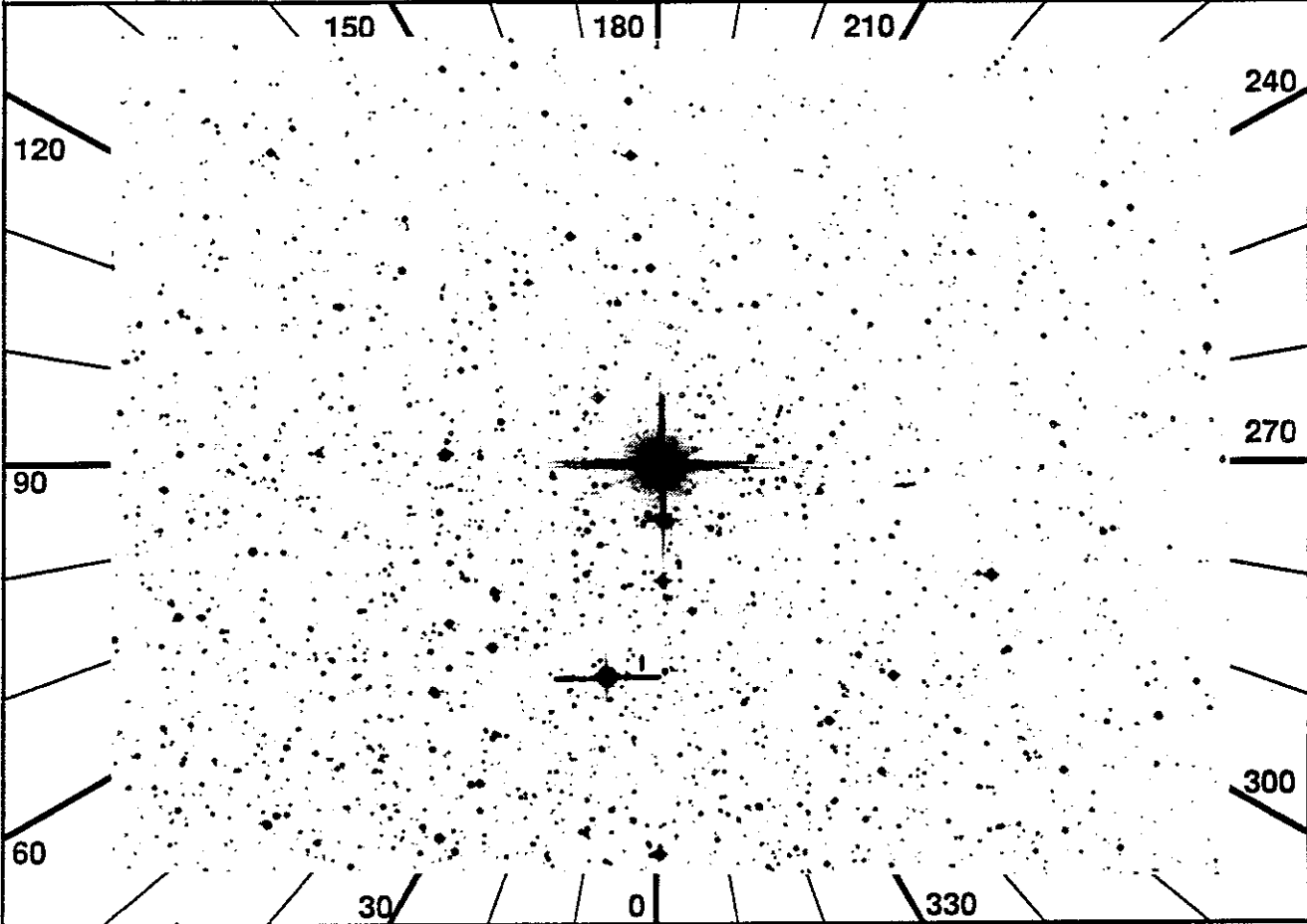
ID: 2115-20  
Names: DEL-CMA HD54605  
Type: F8Ia  
% Pol: 0.20  
Pol Var: ?  
Pos Ang: 26.0  
Mechanism: Rayleigh scattering  
by neutral-H in the photo-  
sphere due to nonradial  
pulsations or hot spots  
Comments: Weak emission (MgII)



UIT  
Observation Description

1 RA 137.3142 DEC -44.6625 ROLL 163.23  
 2 TIME 981

ID 2118-11  
 NAME GX-VEL

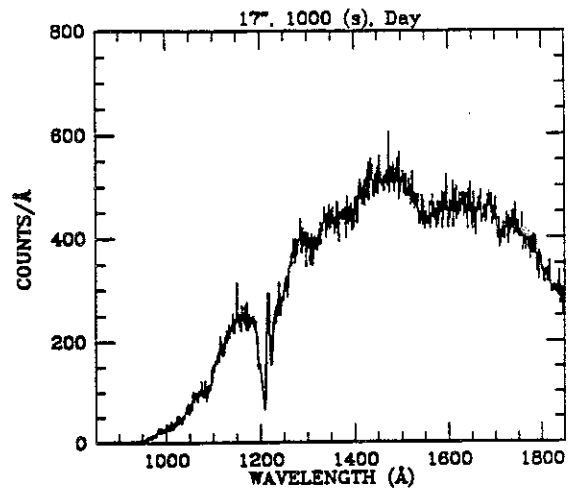


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2	
3	H	245	src	sim	6	9	3.3	2	7	4	---	-	-	---	SMALAP	C LR3	
4	S	W	120	aut	aut	5	5	5.4	8	6	---	-	-	---			
5	U	99	DT	-	T	F	-	-	-	-	-	-	-	-	V-BRT		
6	U								22	H	HDC	*	ITEM	61_0	(ND6	filt)	
7	U	UAC							23	H		*	Check	61_0_0			
8	U								24	H	HOP	*	ITEM	42_3	(door	3)	
9	U								25	H		*	ITEM	32_X	(X =	gs mag)	
10	H	JAC							26		JOB	Observe					
11									27		JAC	All	PREVIEW				
12									28	H	HDC	(just	prior	to	QUIT)		
13	JAC								29	H		ITEM	61_0	(ND6	filt)		
14	J								30	H		Check	61_0_0				
15	H	TV							31	H	JAC	ITEM	16_I				
16	JAC								32			All	QUIT				
17									33								
18									34	U		(During	slew)				
19	H	HSP							35	U	UAC	*IF	next	obj	not	V-BRT	
20	H	JAC							36	U		*	ITEM	43,	Chk	Door	O*
21	H	JOB															

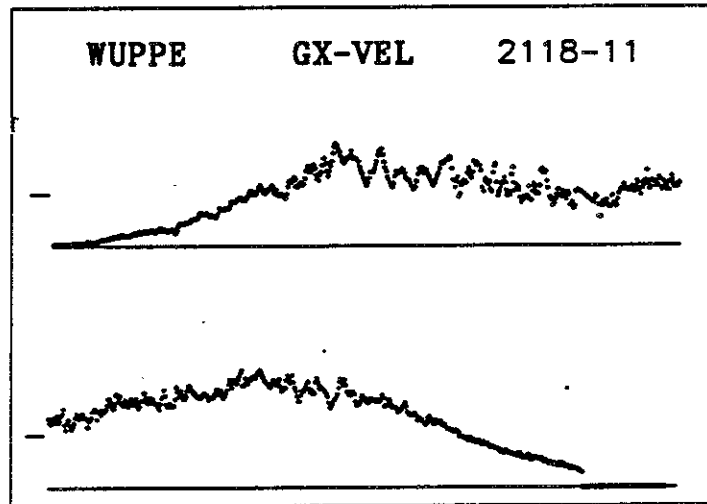
HOP + ITEM 39 - 1

3

OBJECT: 2118 GX Vel  
KEYWORDS: Bright B6 star  
COMMENTS:  
50 cm\*\*2 aperture



ID: 2118-11  
Names: GX-VEL HD79186  
Type: B5Ia  
% Pol: 2.60  
Pol Var: ?  
Pos Ang: 47.0  
Mechanism: Thomson scattering  
in ejected material  
Comments: Only one polarization  
measurement by Serkowski in  
1969.

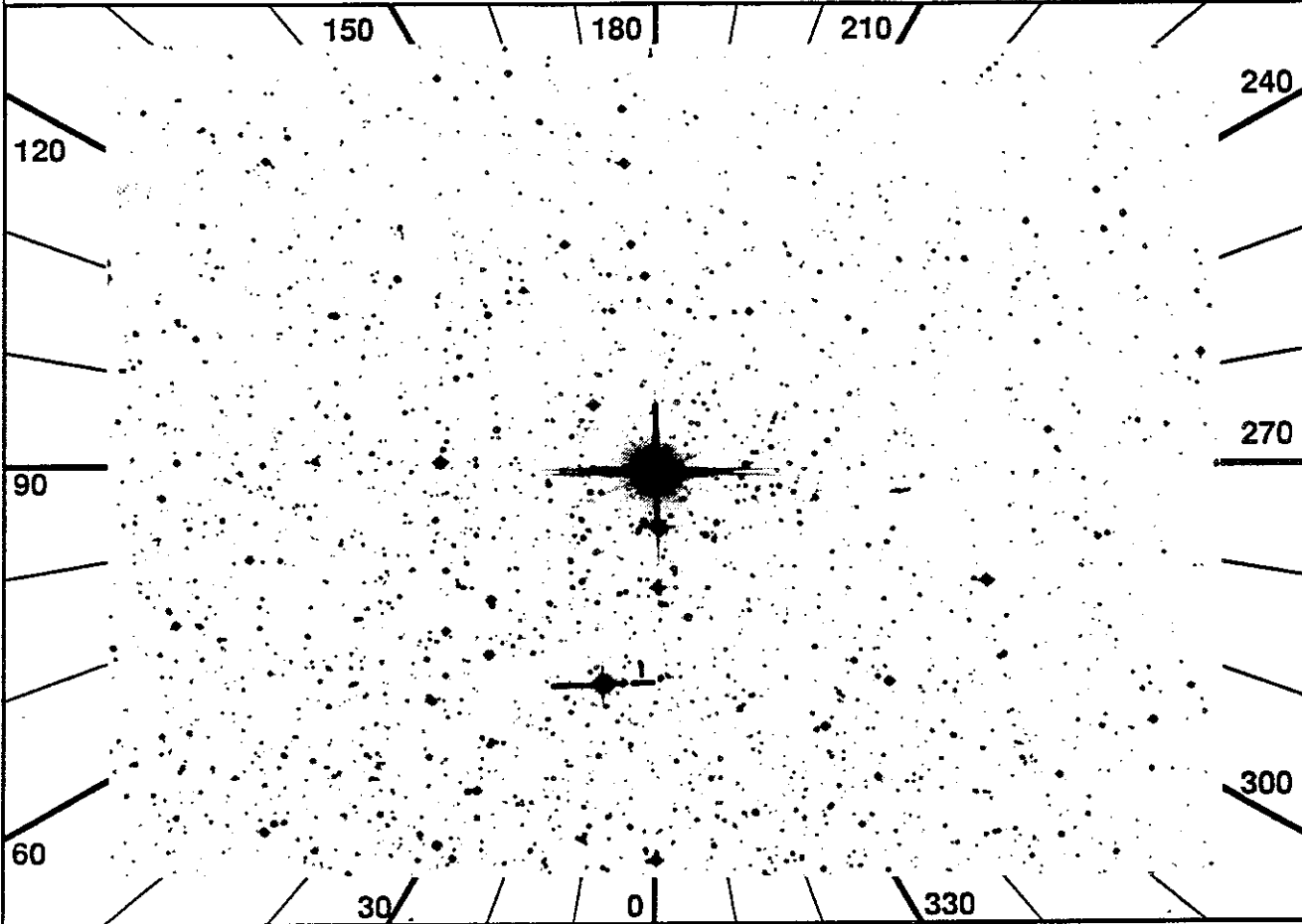


UIT  
Observation Description



1 RA 137.3141 DEC -44.6625 ROLL 163.23  
 2 TIME 744

ID 2118-12  
 NAME GX-VEL



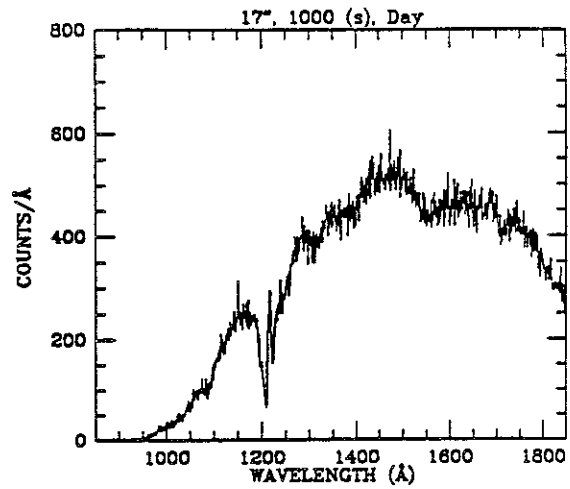
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	324	src	sim	6	9	3.3	2	7	4	---	-	-	---	SMALAP	C LR3
4	P	W 120	aut	aut	5	5	5.4		8	6	---	---	---			
5	U	99	DT	-	T	F	-	-	-	-	-	-	-	-	-	V-BRT

6	U		(At beginning of slew)						22	H	HDC	* ITEM 61_0 (ND6 filt)				
7	U	UAC	*IF UIT Door O*						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_0				
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 O*				
21	H	JOB	*IF HUT LOG_R < 3													

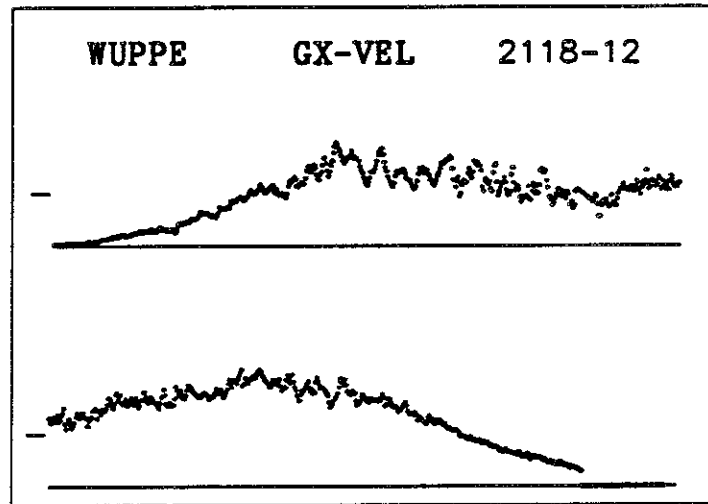
HOP \* ITEM 39\_1

3

OBJECT: 2118 GX Vel  
KEYWORDS: Bright B5 star  
COMMENTS:  
50 cm\*\*2 aperture



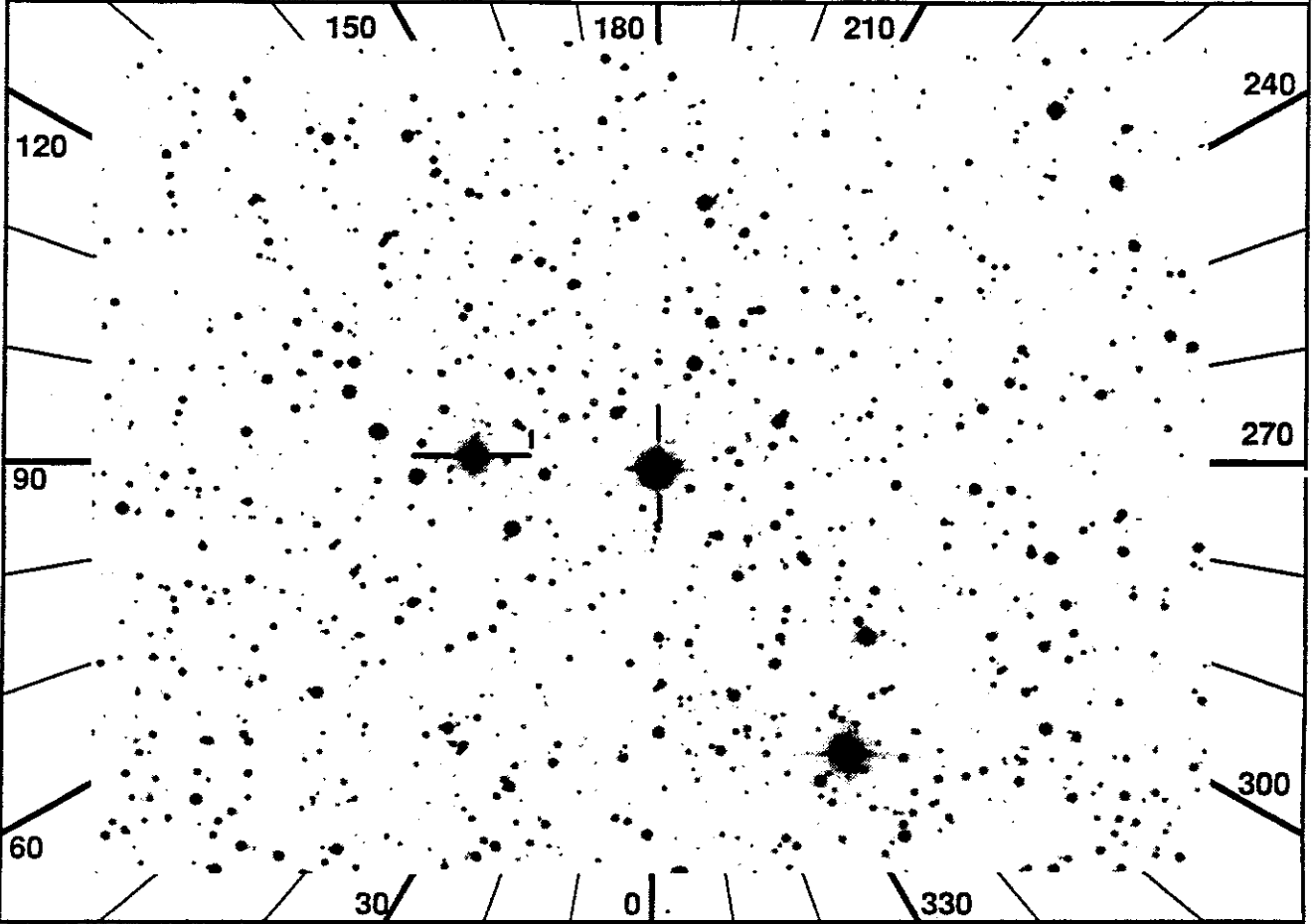
ID: 2118-12  
Names: GX-VEL HD79186  
Type: B5Ia  
% Pol: 2.60  
Pol Var: ?  
Pos Ang: 47.0  
Mechanism: Thomson scattering  
in ejected material  
Comments: Only one polarization  
measurement by Serkowski in  
1969.



UIT  
Observation Description

1 RA 96.4962 DEC -13.0199 ROLL 176.48  
 2 TIME 1517

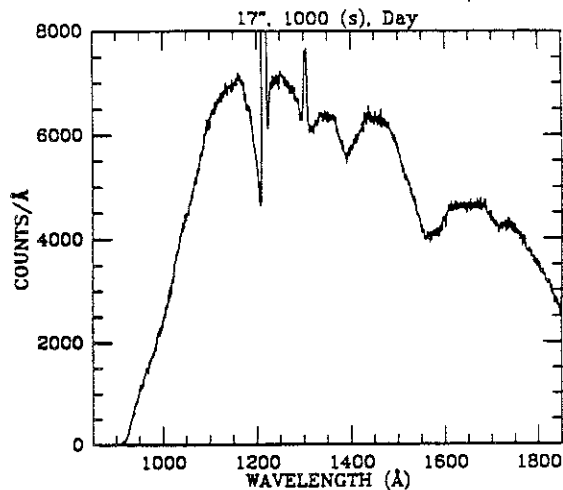
ID 2122-10  
 NAME HD45677



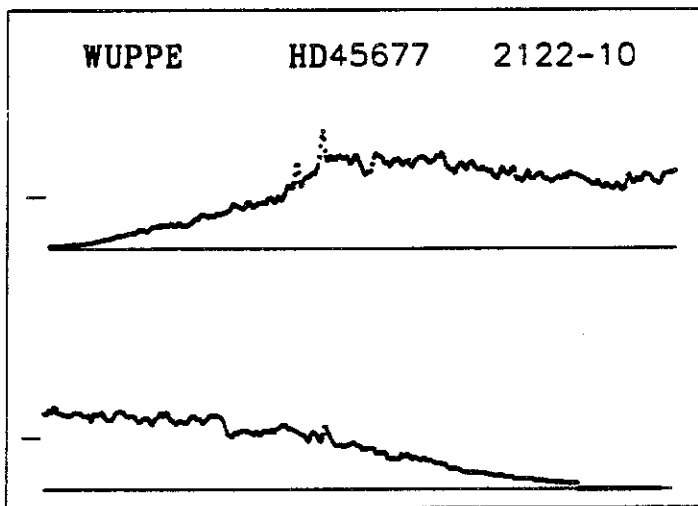
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	261	src sim	9	8	4.7	5	7	1	---	---	---	---	---	C_LR5	SAADR3
4	P	W 121	aut aut	8	7	4.6		2	6	---	---	---	---			
5	U	212	DT -	T F	31	a2	31	a4	31	a5	31	b5	-	-		
6	H	-	VIP ON until SAA exit				18	H	Chk HUT Stat -LOC							
7	JAC	Config H W U				19		All BEGIN								
8		-----				20	H	<del>JOB *IF HUT LOG R &lt; 4.4</del>								
9	H	-	Note: Acquisition in SAA				21	H	<del>HOP * ITEM 42_5 (door 5)</del>							
10	JAC	All SETUP				22		JOB Observe								
11	H	-	Chk Stat - -LOC RDY				23	H	HOP 600 sec after BEGIN,							
12	H	TV	Verify HUT acq on TV				24	H	ITEM 42 3 (shut -Y door)							
13	JAC	IMC BEGIN				25	JAC	All PREVIEW								
14		HUT ITEM 5				26		All QUIT								
15	H	-	After SAA exit				27		-----							
16	H	JAC	ITEM 16 0				28	JAC	ITEM 16_1							
17	H	HUT SETUP														

NEED TO REMOVE C\_LR5 (STEPS 20-21)  
 door cal  
 2

OBJECT: 2122 HD45667  
KEYWORDS: Reddened Be Star  
COMMENTS:  
Variable Star  
Star within 65 deg of sun



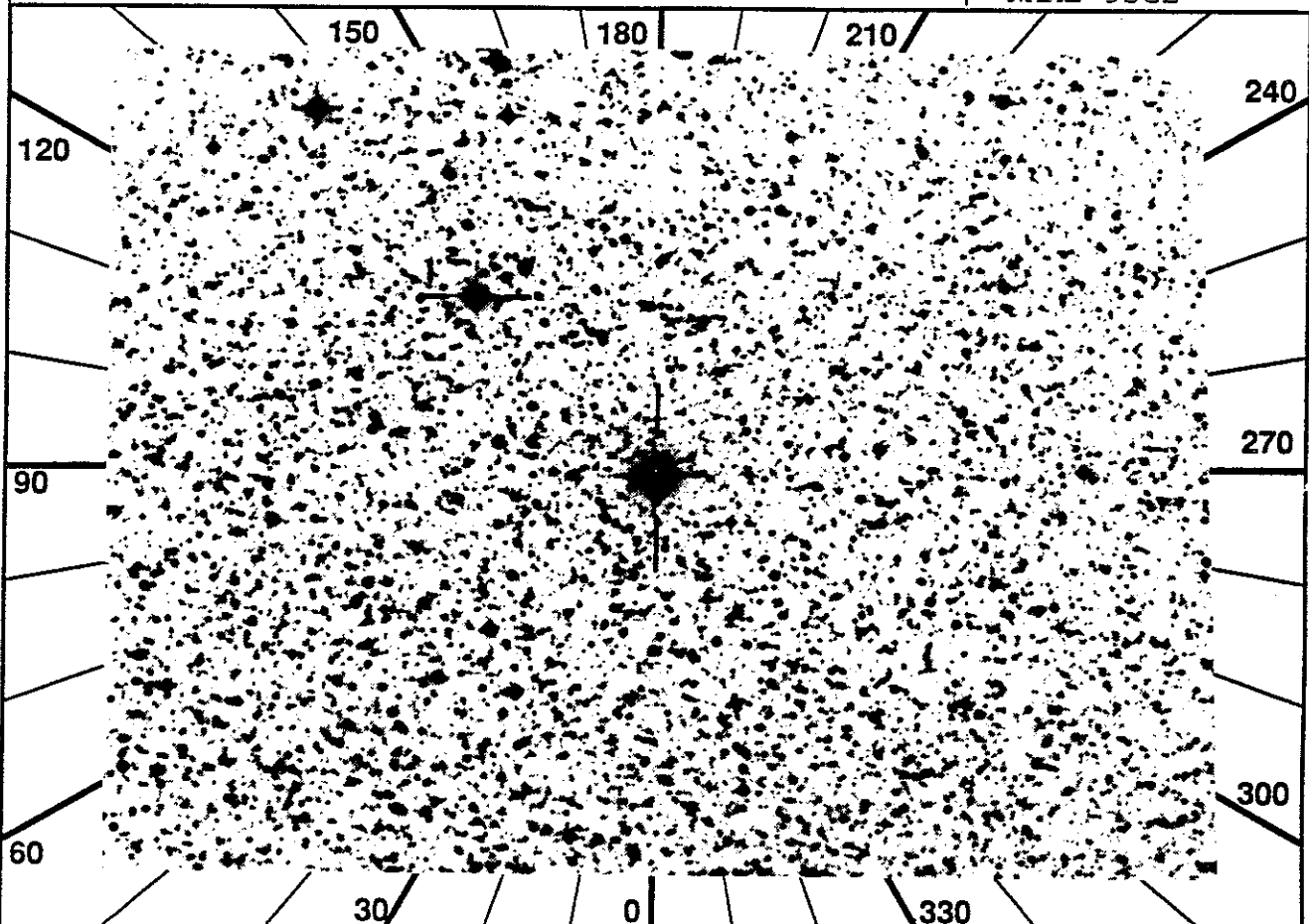
ID: 2122-10  
Names: HD45677  
Type: B0e  
% Pol: 0.4  
Pol Var: strongly variable  
Pos Ang: 170.0, varies by  
20 deg  
Mechanism: Scattering by  
large grains in a  
flattened circumstellar disk  
Comments: Strong emission  
lines (Fe, Mg).  
Polz'n and PA vary with time.  
Polz'n rises in the IR.



UIT  
Observation Description

1 RA 297.5328 DEC 18.5422 ROLL 30.11  
 2 TIME 627

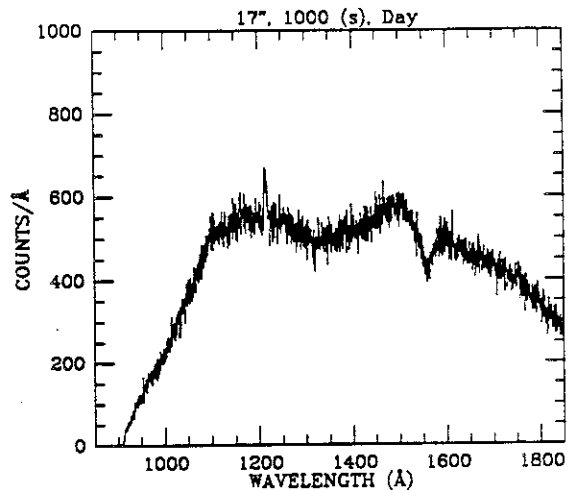
ID 2132-10  
 NAME 9SGE



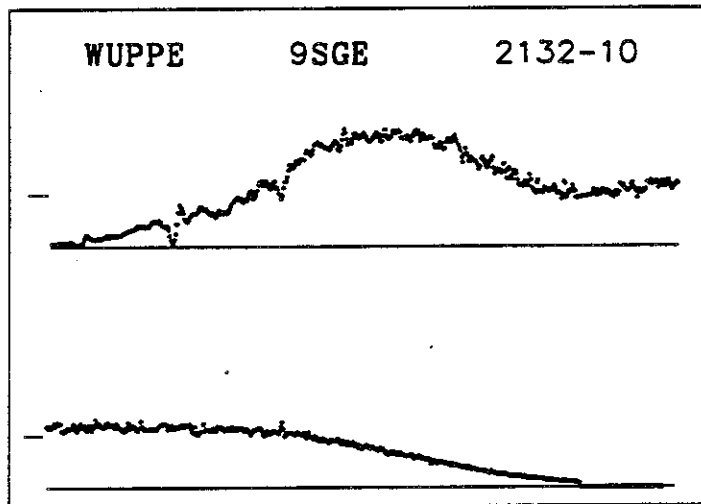
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	280	src sim	7	9	3.8	2	7	1	---	---	---	---	---	SMALAP	
4	P	W 122	aut aut	6	4	5.7		8	6	---	---	---	---	---		
5	U	99	DT -	T	F	-	-	-	-	-	-	-	-	-	V-BRT	
6	U		(At beginning of slew)													
7	U	UAC	*IF UIT Door O*					19	H	HSP	When actual slit pos=7					
8	U		* ITEM 44, Chk Door C*					20	H	JAC	ITEM 16_0					
9	U		Expect UIT SET,OBS err					21		JOB	Observe					
10	H	JAC	VIP ON until at obs slit					22		JAC	All PREVIEW					
11			Config H W U					23	H	HDC	(just prior to QUIT)					
12			-----					24	H		ITEM 61_0 (ND6 filt)					
13	JAC		All SETUP					25	H		Check 6I_0_0					
14	J		Chk Stat - -LOC STB					26	H	JAC	ITEM 16 I					
15	H	TV	Verify HUT acq on TV					27			All QUIT					
16	JAC		IMC BEGIN					28			-----					
17			HUT ITEM 5					29	U		(During slew)					
18			All BEGIN					30	U	UAC	*IF next obj not V-BRT					
								31	U		* ITEM 43, Chk Door O*					

2

OBJECT: 2132 9 Sge  
KEYWORDS: Bright OE Supergiant  
COMMENTS:



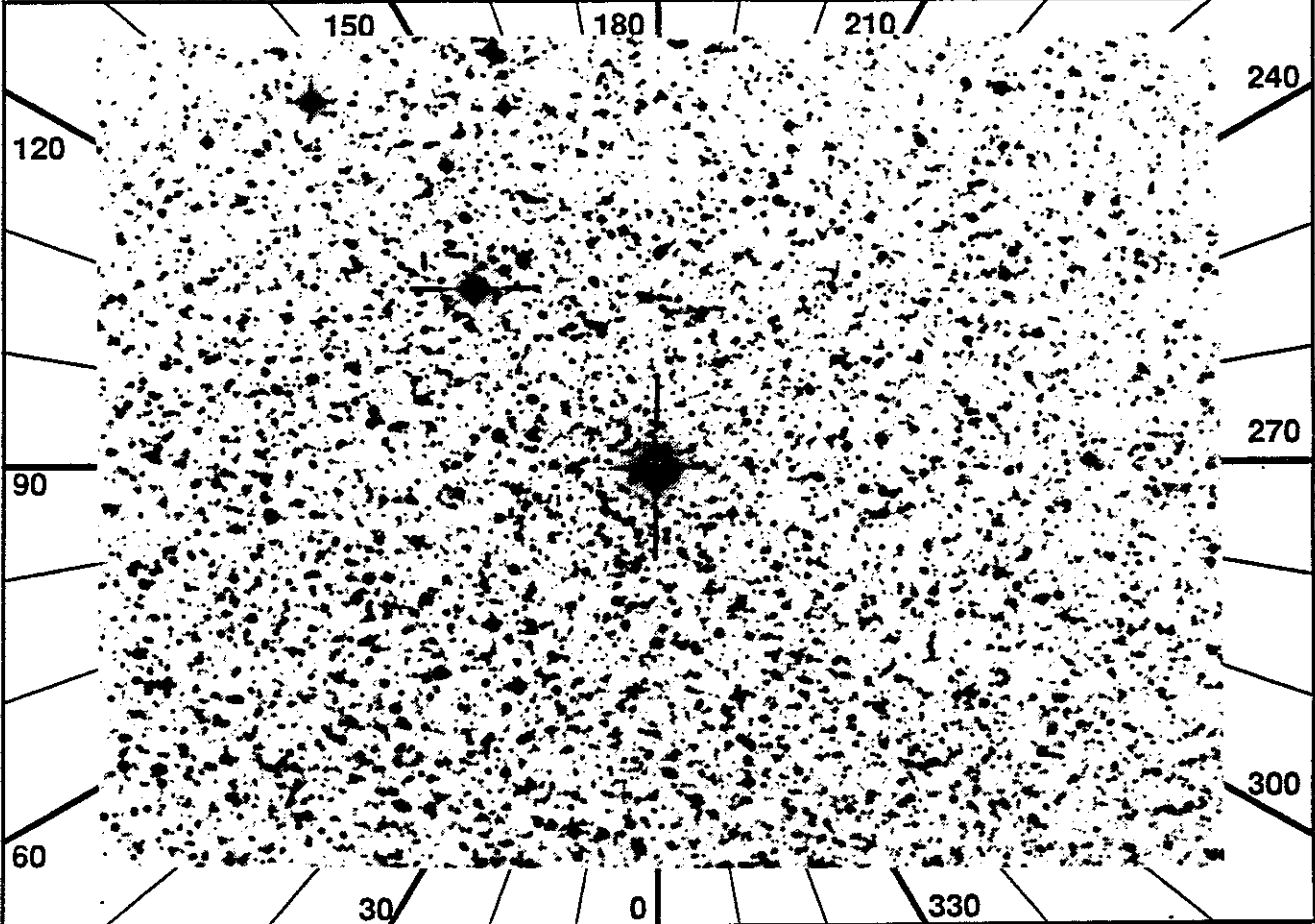
ID: 2132-10  
Names: 9SGE HD188001  
Type: O8f  
% Pol: 1.2  
Pol Var: 0.1 - 0.5  
Pos Ang: 28.0  
Mechanism: electron scattering  
Comments: NIII and CIII lines  
in emission.  
Polz'n increases toward  
shorter wavelengths.  
PA varies with wavelength.



UIT  
Observation Description

1 RA 297.5328 DEC 18.5422 ROLL 147.66  
 2 TIME 1415

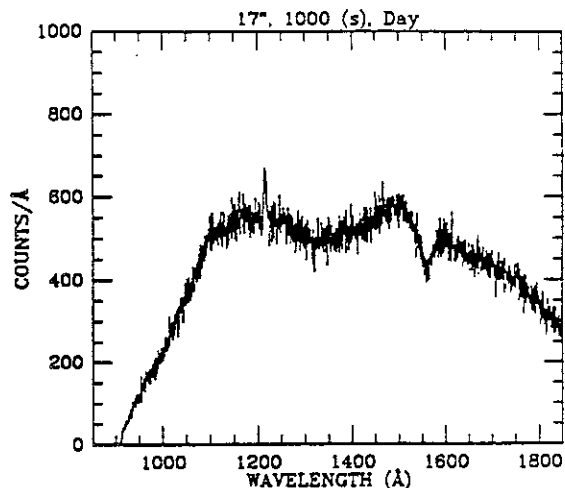
ID 2132-21  
 NAME 9SGE



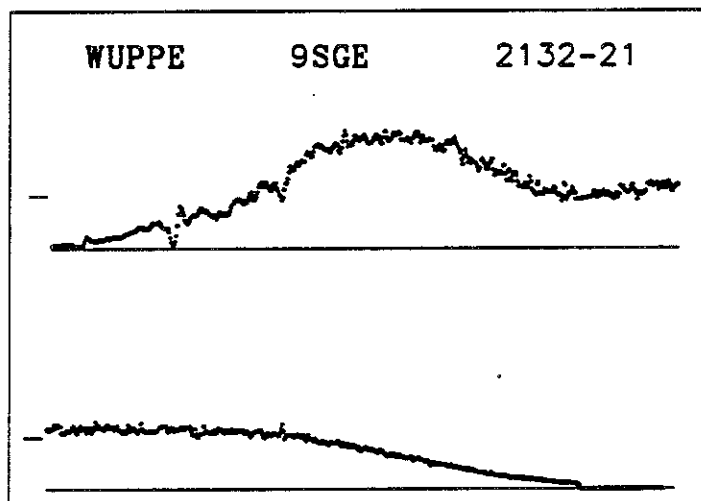
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	88	src sim	7	9	3.8	2	7	1	---	---	---	---	---	SMALAP	
4	P	W 122	aut aut	6	4	5.7		8	6	---	---	---	---	---		
5	U	99	DT -	T	F	-	-	-	-	-	-	-	-	-	V-BRT	
6	U		(At beginning of slew)					19	H	HSP	When actual slit pos=7					
7	U	UAC	*IF UIT Door O*					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					
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: 2132 9 Sge  
KEYWORDS: Bright OE Supergiant  
COMMENTS:



ID: 2132-21  
Names: 9SGE HD188001  
Type: O8f  
% Pol: 1.2  
Pol Var: 0.1 - 0.5%  
Pos Ang: 28.0  
Mechanism: electron scattering  
Comments: NIII and CIII lines  
in emission.  
Polz'n increases toward  
shorter wavelengths.  
PA varies with wavelength.

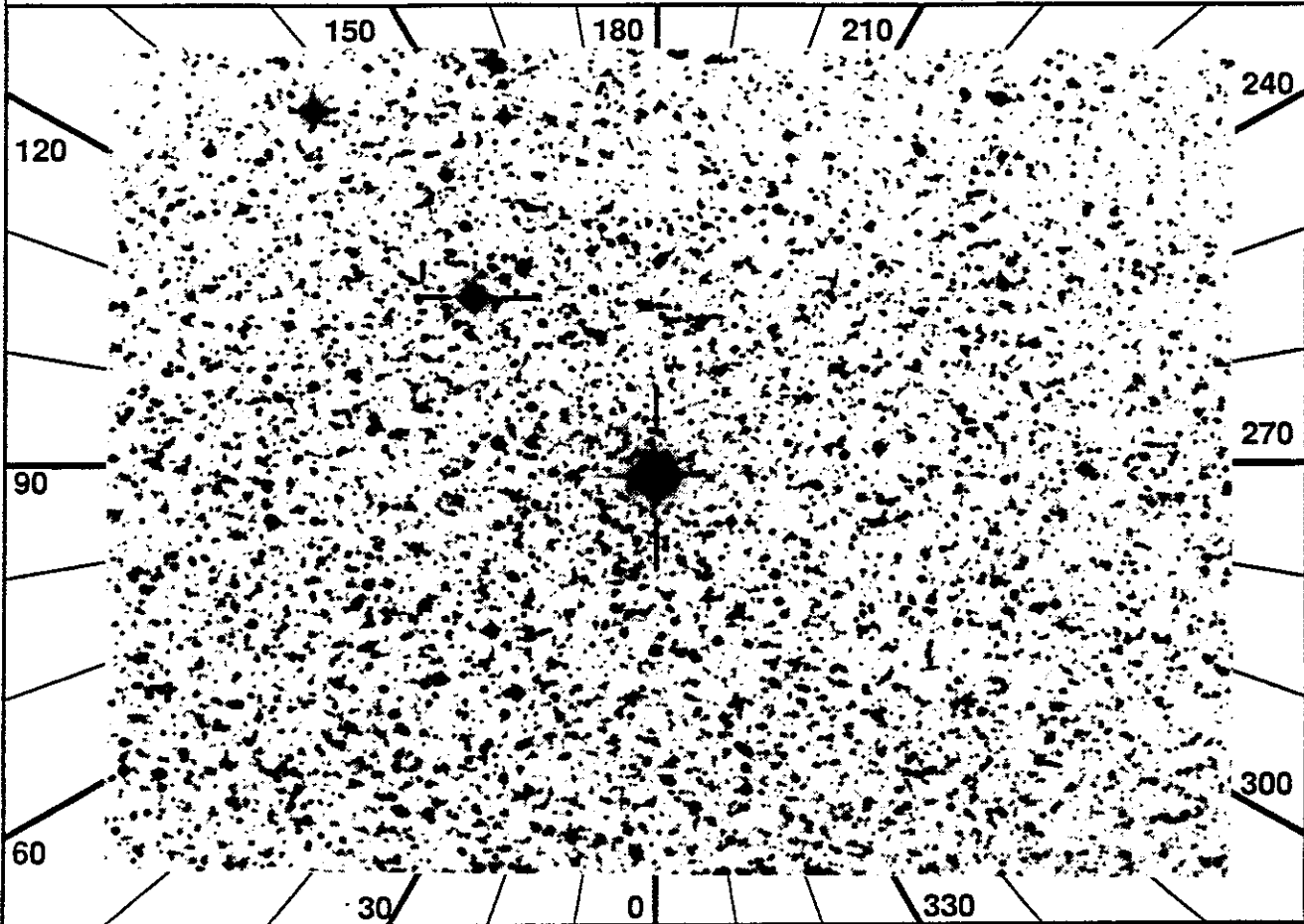


UIT  
Observation Description



1 RA 297.5328 DEC 18.5422 ROLL 147.66  
 2 TIME 697

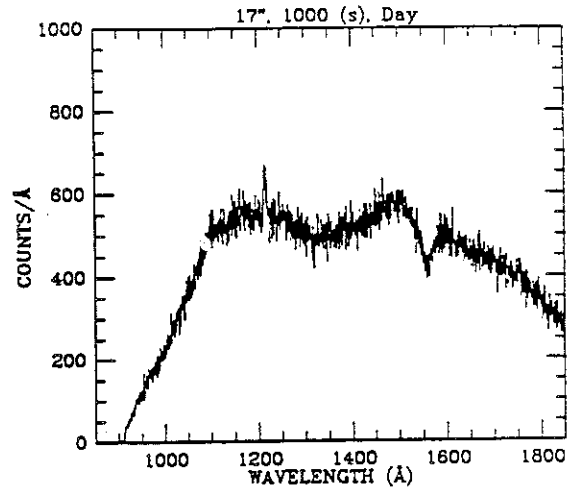
ID 2132-22  
 NAME 9SGE



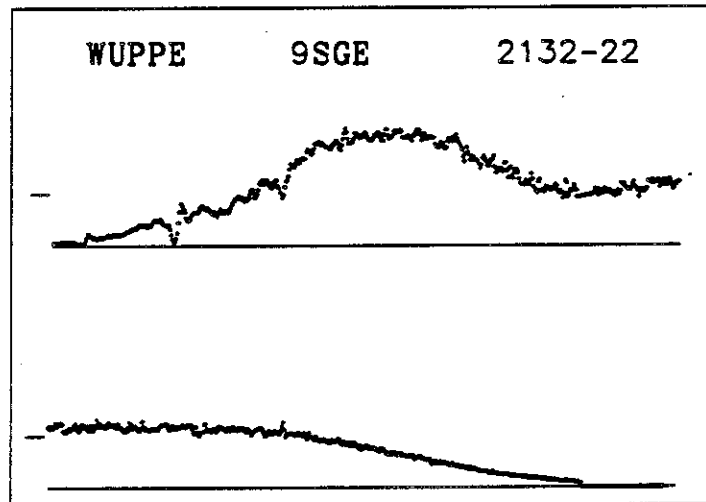
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	317	src	sim	7	9	3.8	2	7	1	---	---	---	---	SMALAP	
4	P	W 122	aut	aut	6	4	5.7		8	6	---	---	---			
5	U	99	DT	-	T	F	-	-	-	-	-	-	-	-	V-BRT	
6	U		(At beginning of slew)				19	H	HSP	When actual slit pos=7						
7	U	UAC	*IF UIT Door O*				20	H	JAC	ITEM 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						
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: 2132 9 Sge  
KEYWORDS: Bright OE Supergiant  
COMMENTS:



ID: 2132-22  
Names: 9SGE HD188001  
Type: O8f  
% Pol: 1.2  
Pol Var: 0.1 - 0.5  
Pos Ang: 28.0  
Mechanism: electron scattering  
Comments: NIII and CIII lines  
in emission.  
Polz'n increases toward  
shorter wavelengths.  
PA varies with wavelength.



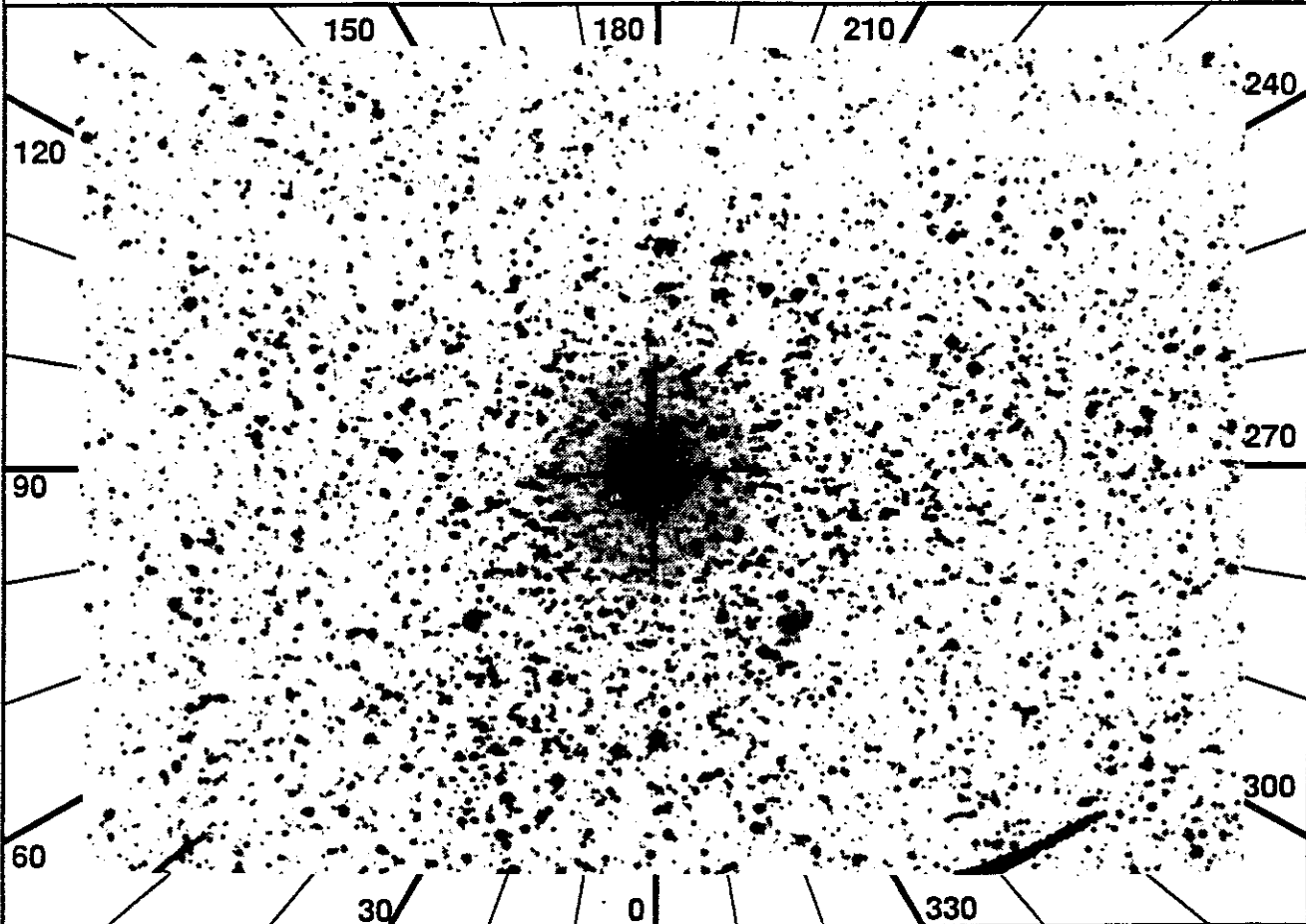
UIT  
Observation Description

1 RA 303.9854 DEC 37.8765 ROLL 154.21

ID 2133-11

2 TIME 1479

NAME P-CYG

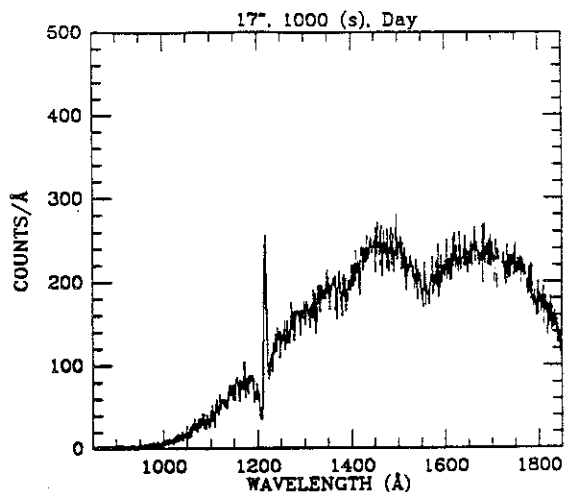


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	227	src	sim	5	5	3.2	2	7	4	---	---	---	---	SMALAP	C LR3
4	P	W	120	aut	aut	5	5	5.4	8	6	---	---	---	---		
5	U	220	DT	-	T	F	31	a1	47	a2	-	-	-	-		AS2DFL
6	I		CMD	WRI	3900	F0023B30			20	H	HDC	*	ITEM	61_0	(ND6	filt)
7	I		CMD	WRI	3900	F0023D32			21	H		*	Check	61_0_0		
8	H	JAC	VIP	ON	until	at	obs	slit	22	H	HOP	*	ITEM	42_3	(door	3)
9			Config	H	W	U			23	H		*	ITEM	32_X	(X =	gs mag)
10			-----						24		JOB	Observe				
11	JAC		All	SETUP					25		JAC	All	PREVIEW			
12	H		Chk	Stat	-	-	LOC	RDY	26	H	HDC	(just	prior	to	QUIT)	
13	H	TV	Verify	HUT	acq	on	TV		27	H		ITEM	61_0	(ND6	filt)	
14	JAC		IMC	BEGIN					28	H		Check	61_0_0			
15			HUT	ITEM	5				29	H	JAC	ITEM	16_I			
16			All	BEGIN					30			All	QUIT			
17	H	HSP	When	actual	slit	pos=7			31			-----				
18	H	JAC	ITEM	16_0					32	I		CMD	ISS_3928			
19	H	JOB	*IF	HUT	LOG_R	< 3										

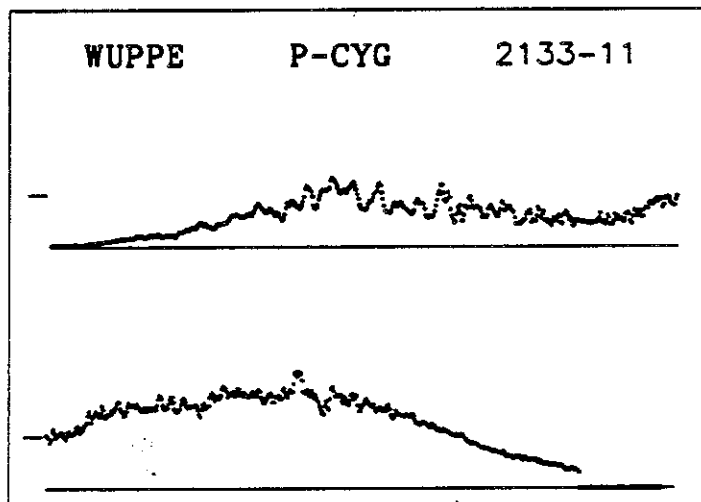
HOP\*ITEM 39\_1

3

OBJECT: 2133 P Cyg  
KEYWORDS: Bright BI Supergiant  
COMMENTS:  
50 cm\*\*2 aperture



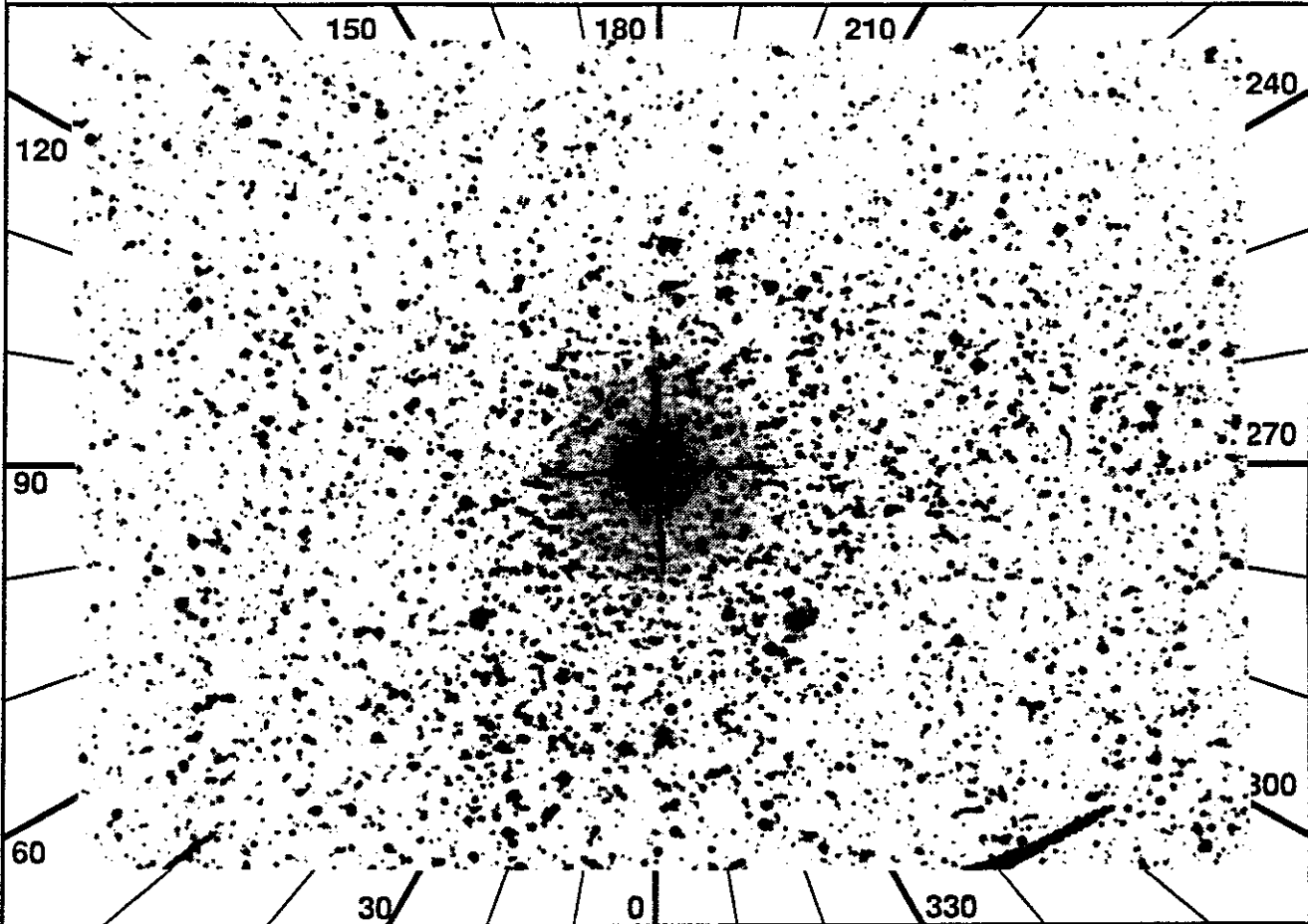
ID: 2133-11  
Names: P-CYG HD193237  
Type: BIIape  
% Pol: 1.5  
Pol Var: 0.4%  
Pos Ang: 34.0, variable  
Mechanism: electron scattering  
Comments: Continue obs into the  
SAA. In outburst - Polz'n may  
vary by about 0.5%. PA and  
Polz'n vary with wavelength  
and with time.



UIT  
Observation Description

1 RA 303.9854 DEC 37.8765 ROLL 154.21  
 2 TIME 336

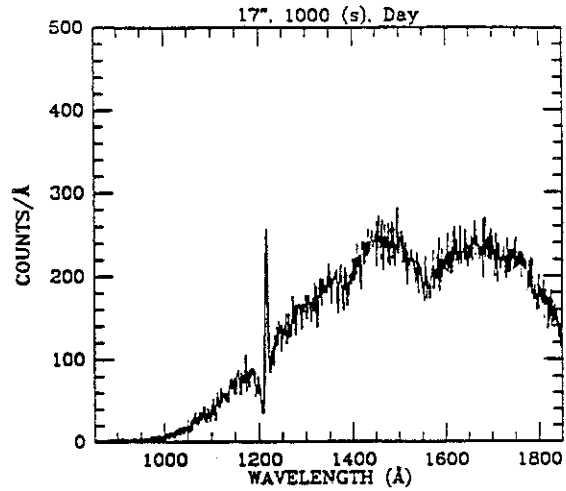
ID 2133-12  
 NAME P-CYG



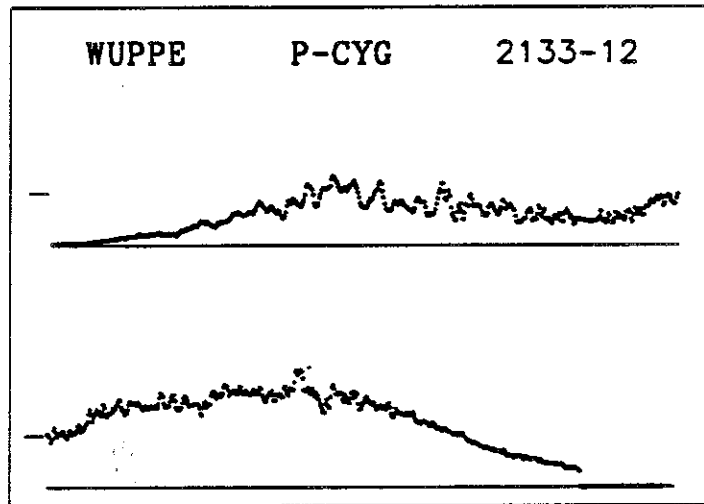
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	268	src	sim	5	5	3.2	2	7	X	---	---	---	---	SMALAP	C LR3
4	S	W	120	aut	aut	5	5	5.4	8	6	---	---	---	---		
5	U	16	DT	-	T	F	31	a5	-	-	-	-	-	-	AS2DFL	
6	I		CMD	WRI	3900	F0023B30			20	H	HDC	*	ITEM	61	0	(ND6 filt)
7	I		CMD	WRI	3900	F0023D32			21	H		*	Check	6I	0	0
8	H	JAC	VIP	ON	until	at	obs	slit	22	H	HOP	*	ITEM	42	3	(door 3)
9			Config	H	W	U			23	H		*	ITEM	32	X	(X = gs mag)
10			-----						24	JOB	Observe					
11	JAC	All	SETUP						25	JAC	All	PREVIEW				
12	H	Chk	Stat	-	-	LOC	RDY		26	H	HDC	(just	prior	to	QUIT)	
13	H	TV	Verify	HUT	acq	on	TV		27	H		ITEM	61	0	(ND6 filt)	
14	JAC	IMC	BEGIN						28	H		Check	6I	0	0	
15			HUT	ITEM	5				29	H	JAC	ITEM	16	I		
16			All	BEGIN					30			All	QUIT			
17	H	HSP	When	actual	slit	pos=7			31			-----				
18	H	JAC	ITEM	16	0				32	I		CMD	ISS	3928		
19	H	JOB	*IF	HUT	LOG_R	< 3										
			HOP	*	ITEM	39.1										

3

OBJECT: 2133 P Cyg  
KEYWORDS: Bright BI Supergiant  
COMMENTS:  
50 cm\*\*2 aperture



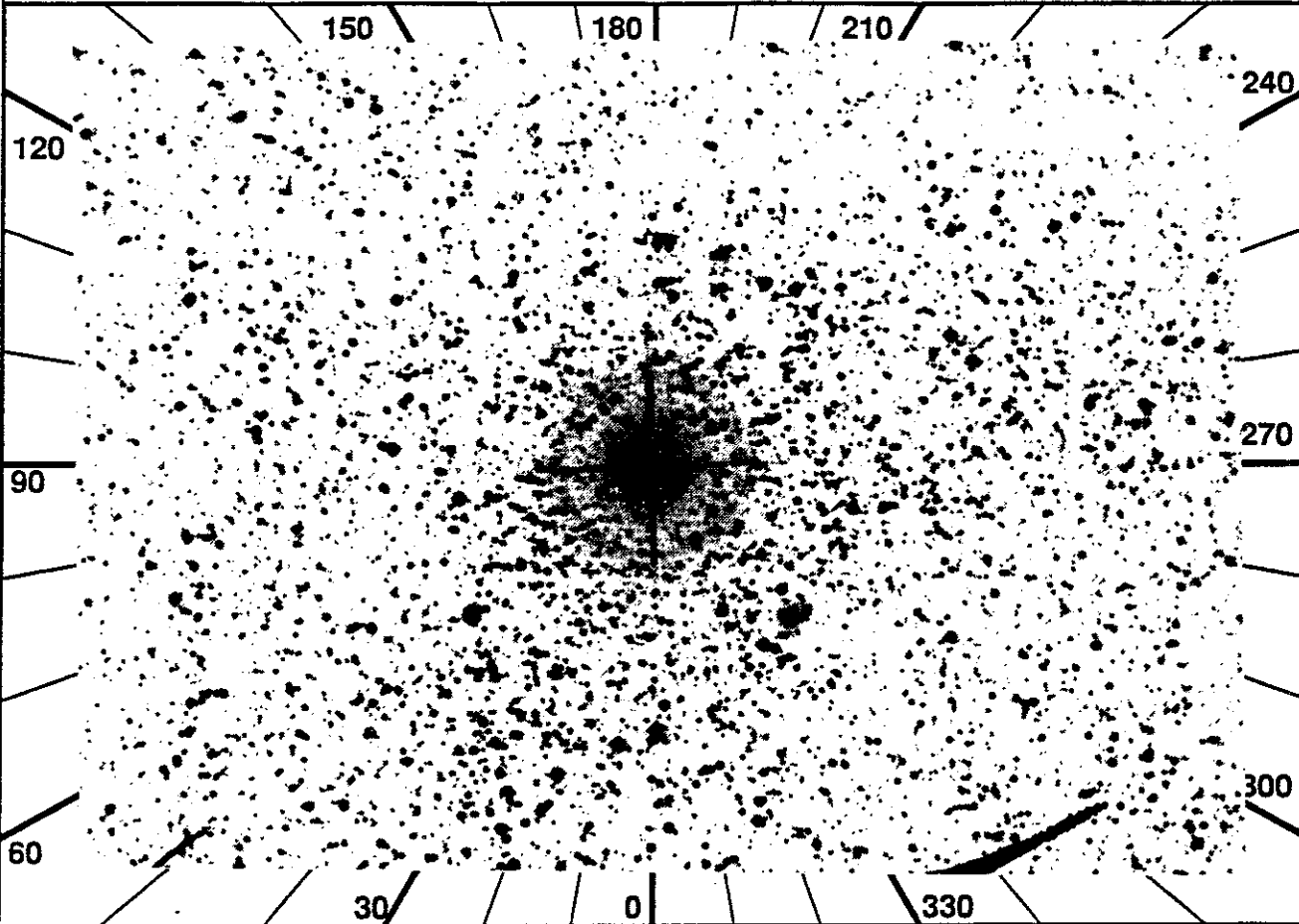
ID: 2133-12  
Names: P-CYG HD193237  
Type: B1Iape  
% Pol: 1.5  
Pol Var: 0.4%  
Pos Ang: 34.0, variable  
Mechanism: electron scattering  
Comments: In outburst - Pol  
may vary by about 0.5%. PA &  
Polz'n vary with wavelength  
and with time.



UIT  
Observation Description

1 RA 303.9854 DEC 37.8765 ROLL 161.40  
 2 TIME 1838

ID 2133-20  
 NAME P-CYG

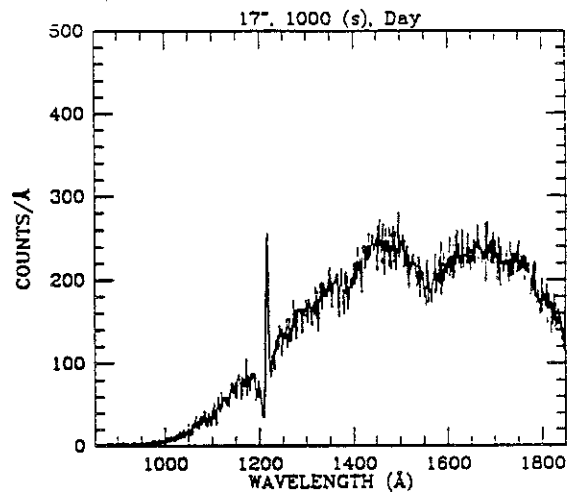


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	184	src sim	5	5	3.2	2	7	4	---	---	---	---	---	SMALAP	C LR3
4	P	W 120	aut aut	5	5	5.4		8	6	---	---	---	---	---	SAAL	
5	U	236	DT -	T F	31	b1	31	b5								AS2DFG

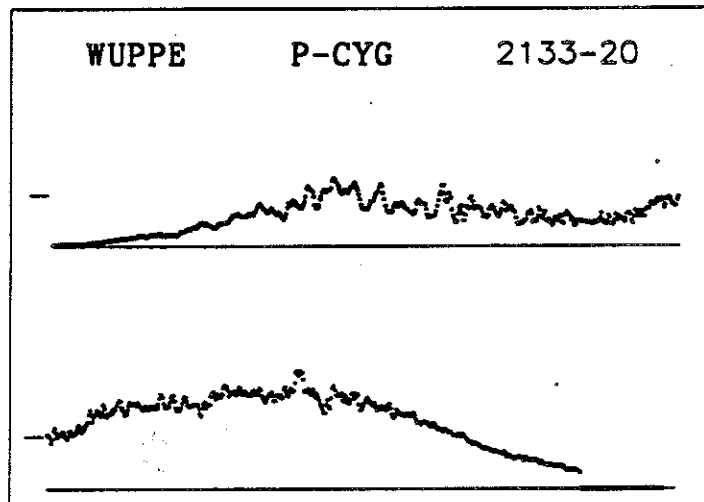
6 I	CMD WRI 3900 F0023135	24	JOB	Observe
7 I	CMD WRI 3900 F0023335	25 H	HDC	(just prior to QUIT)
8 H	JAC VIP ON until at obs slit	26 H		ITEM 61 0 (ND6 filt)
9	Config H W U	27 H		Check 61 0 0
10	-----	28 H	JAC	ITEM 16 1
11	JAC All SETUP	29 W	JOB	Wait foF time avail=0
12 H	Chk Stat - -LOC RDY	30 W	JAC	UIT QUIT
13 H	TV Verify HUT acq on TV	31		-----
14	JAC IMC BEGIN	32 W		NOTE: SAA OBS-NO IPS HLD
15	HUT ITEM 5	33 W	WOB	ITEM 8 (Pause)
16	All BEGIN	34 W		ITEM 2 (Setup)
17 H	HSP When actual slit pos=7	35 W		Chk WUP Stat -LOC
18 H	JAC ITEM 16 0	36 W		ITEM 7 t (t=SAAout/mnvr)
19 H	JOB *IF HUT LOG R < 3	37 W	JOB	Observe
20 H	HDC * ITEM 61 0 (ND6 filt)	38 W	JAC	All PREVIEW
21 H	* Check 61 0 0	39 W	WOB	Wait for time rem obj=0
22 H	HOP * ITEM 42 3 (door 3)	40 W	JAC	All QUIT
23 H	* ITEM 32 X (X = gs mag)	41 I		CMD ISS 3928

3 HOP \* ITEM 39.1

OBJECT: 2133 P Cyg  
KEYWORDS: Bright B1 Supergiant  
COMMENTS:  
50 cm\*\*2 aperture



ID: 2133-20  
Names: P-CYG HD193237  
Type: B1Iape  
% Pol: 1.5  
Pol Var: 0.4%  
Pos Ang: 34.0, variable  
Mechanism: electron scattering  
Comments: In outburst - Pol  
may vary by about 0.5%. PA &  
Polz'n vary with wavelength  
and with time.

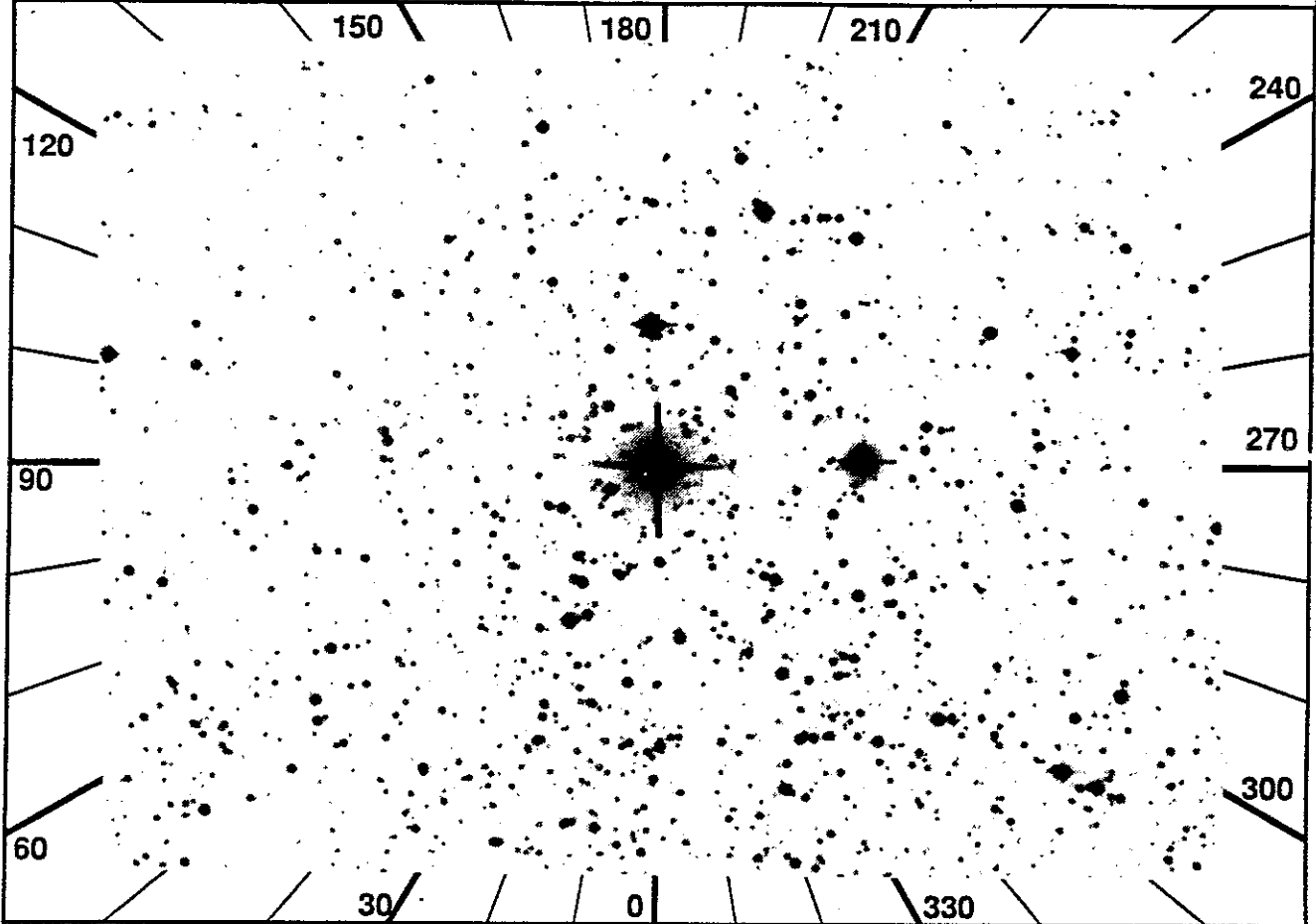


UIT  
Observation Description



1 RA 111.2175 DEC -22.9841 ROLL 267.98  
 2 TIME 1367

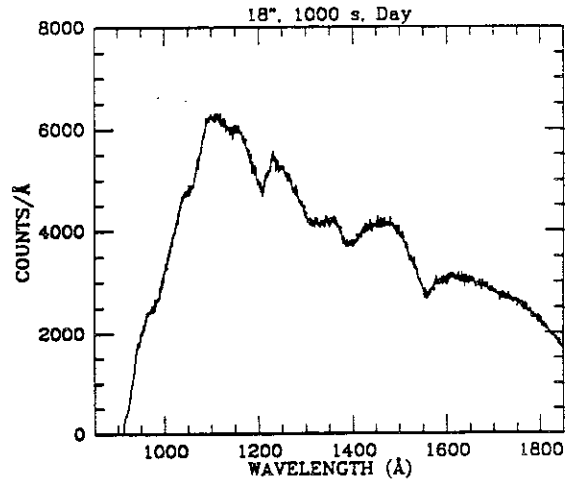
ID 2215-10  
 NAME FY-CMA



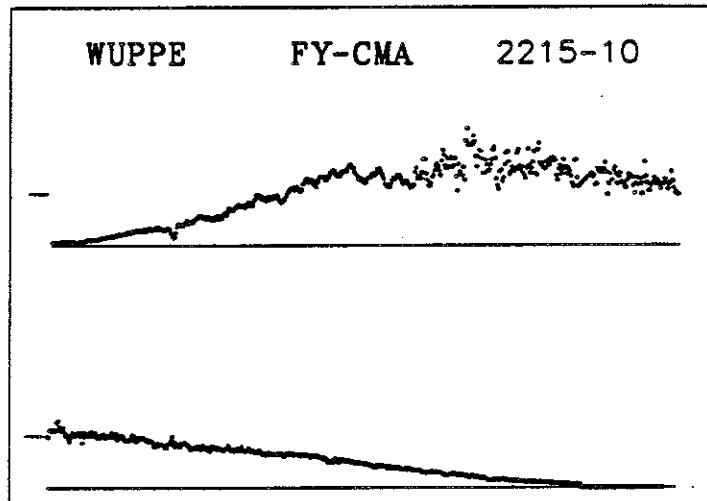
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	149	src	sim	6	6	4.3	2	7	1	---	---	---	---	SM	SAA
4	P	W	124	aut	aut	6	3	6.2	8	6	---	---	---	---		
5	U	99	DT	-	T	F	-	-	-	-	-	-	-	-	V-BRT	
6	U								21	H					Chk	HUT Stat -DET
7	U	UAC							22						All	BEGIN
8	U								23	H	HSP				When	actual slit pos=7
9	U								24	H	JAC				ITEM	16_0
10	H	JAC							25		JOB				Observe	
11									26		JAC				All	PREVIEW
12									27	H	HDC				(just	prior to QUIT)
13	H	-							28	H					ITEM	61_0 (ND6 filt)
14	JAC								29	H					Check	61_0_0
15	J								30	H	JAC				ITEM	16_I_
16	H	TV							31						All	QUIT
17	JAC								32							
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*

2

OBJECT: 2215 FY-CMA  
KEYWORDS: Be Star  
COMMENTS:  
Observe with 50 cm<sup>2</sup> aperture.  
Any non-airglow em. lines?



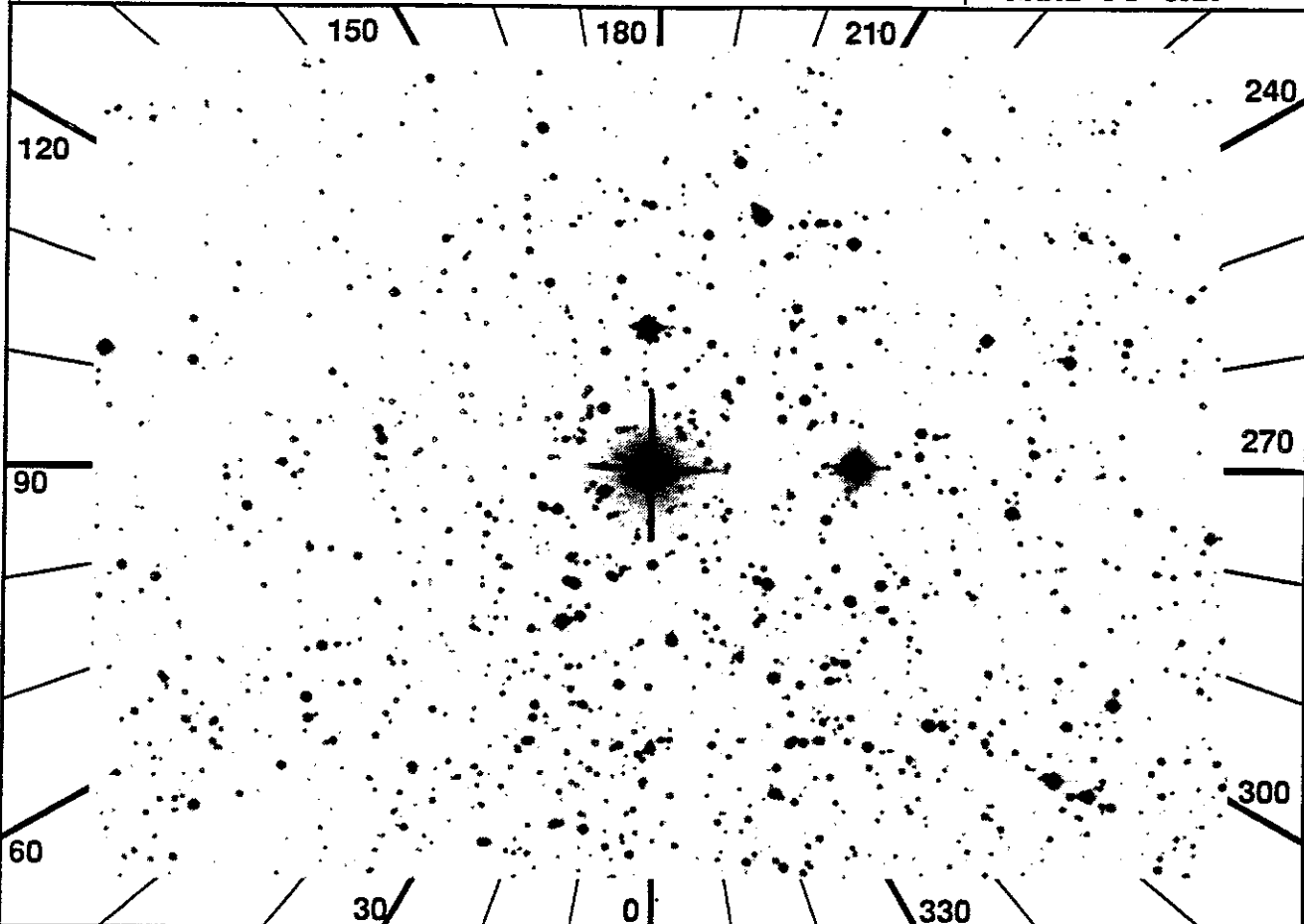
ID: 2215-10  
Names: FY-CMA HD58978  
Type: B0.5IVe  
% Pol: 1.15 (PBO)  
Pcl Var: yes  
Pos Ang: 160.25 (PBO)  
Mechanism: free-free disk  
Comments: strong & var C IV  
absorp; lg var opt pol;  
look for line eff and  
var; this is second ptg,  
occurs later in mission  
(>48 hr after first);  
acquire in SAA  
NOTE: DETECTOR IN FAST MODE-  
DO NOT EXPECT ON-LINE  
SPECTRUM.



UIT  
Observation Description

1 RA 111.2175 DEC -22.9841 ROLL 310.65  
 2 TIME 1667

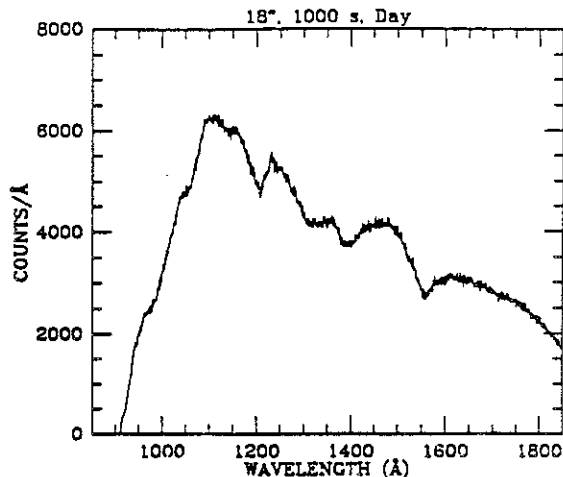
ID 2215-20  
 NAME FY-CMA



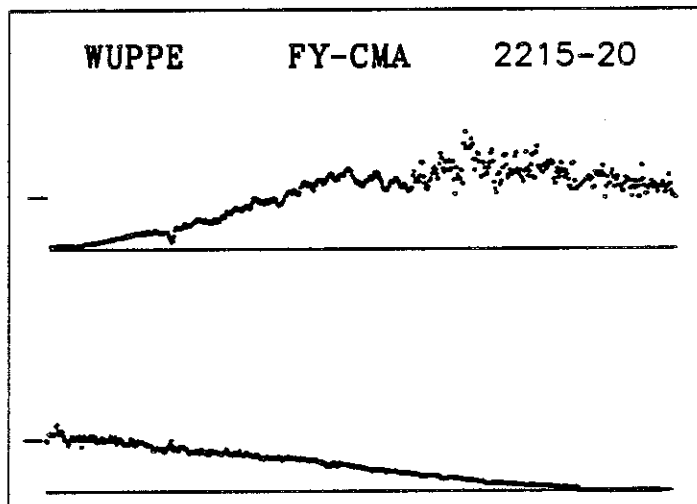
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	108	src	sim	6	6	4.3	2	7	1	---	---	---	---	SMALAP	
4	P	W	124	aut	aut	6	3	6.2	8	6	---	---	---	---		
5	U	99	DT	-	T	F	-	-	-	-	-	-	-	-	V-BRT	
6	U								19	H	HSP				When actual slit pos=7	
7	U	UAC							20	H	JAC	ITEM	16	0		
8	U								21		JOB	Observe				
9	U								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: 2215 FY-CMA  
KEYWORDS: Be Star  
COMMENTS:  
Observe with 50 cm<sup>2</sup> aperture.  
Any non-airglow em. lines?



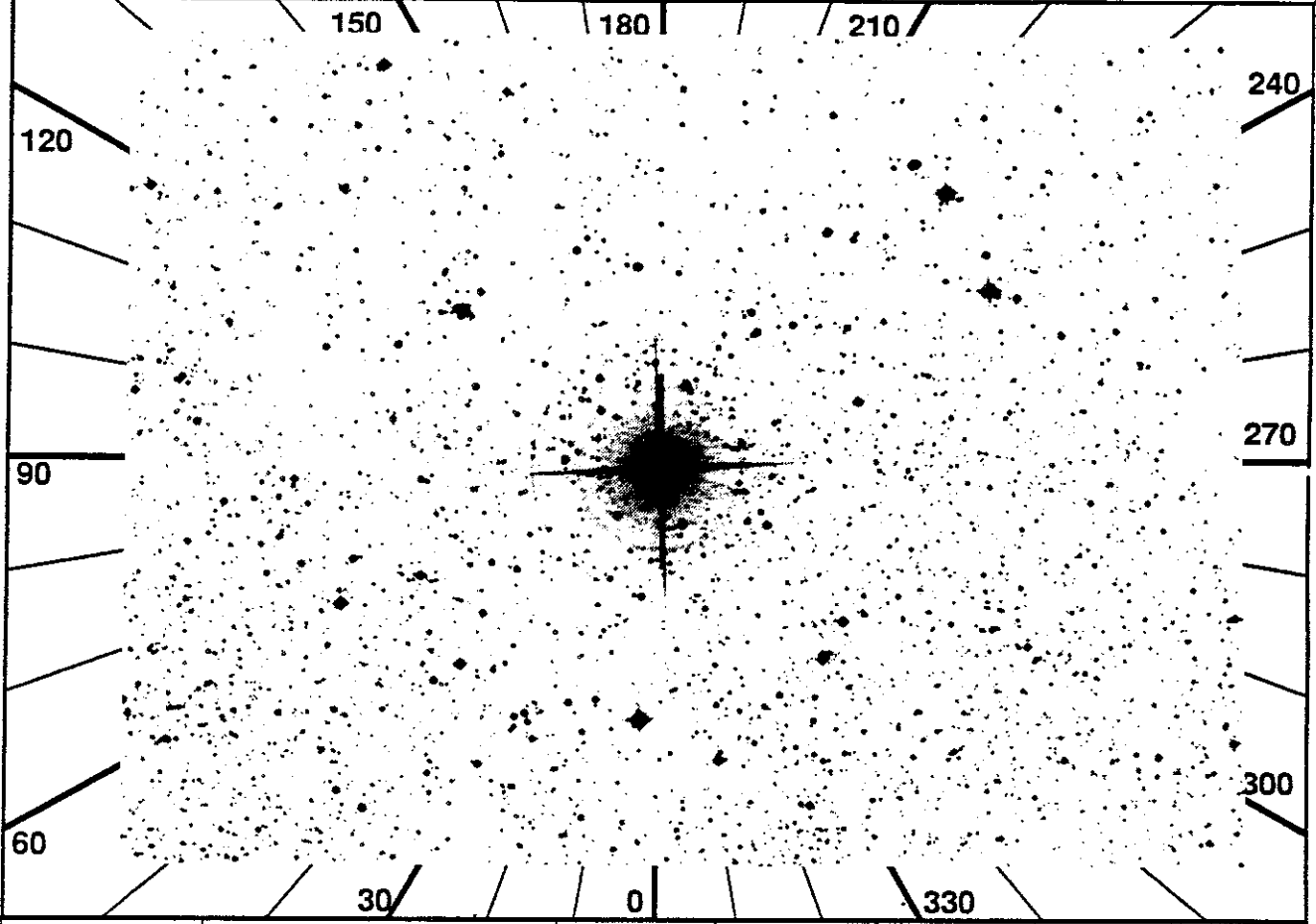
ID: 2215-20  
Names: FY-CMA HD58978  
Type: B0.5IVe  
% Pol: 1.15 (PBO)  
Pol Var: yes  
Pos Ang: 160.25 (PBO)  
Mechanism: free-free disk  
Comments: strong & var C IV  
absorp; lg var opt pol;  
look for line eff and  
var; this is first ptg,  
(>48 hr before second)  
NOTE: DETECTOR IN FAST MODE-  
DO NOT EXPECT ON-LINE  
SPECTRUM.



UIT  
Observation Description

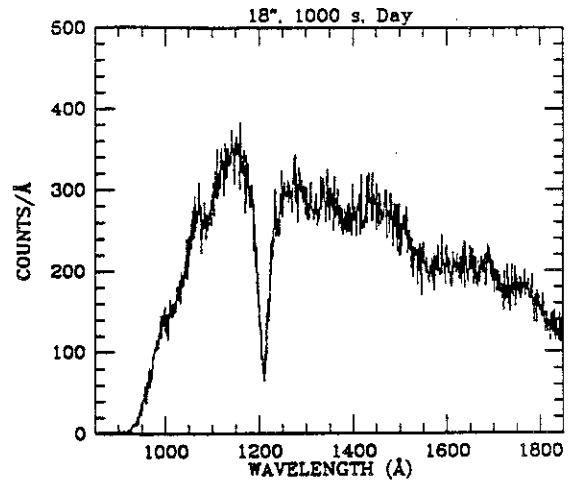
1 RA 157.5604 DEC -61.4277 ROLL 347.50  
 2 TIME 1242

ID 2217-10  
 NAME P-CAR

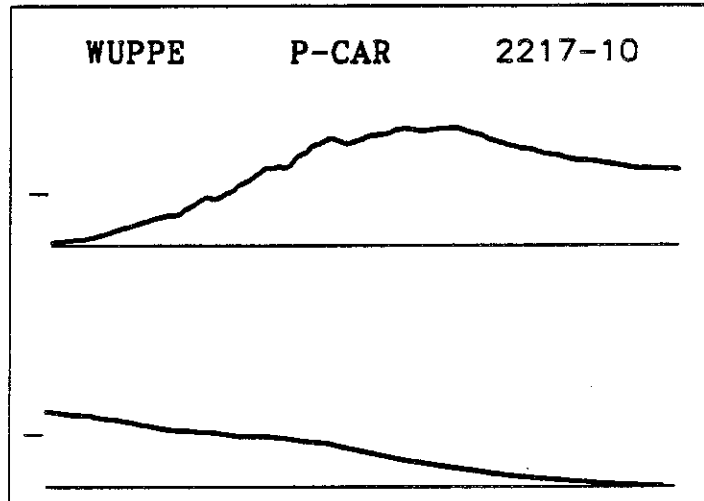


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	50	src	sim	4	4	3.3	1	7	4	---	---	---	---	P-CAR	
4	P	W	125	aut	aut	4	1	6.9	8	6	---	---	---	---		
5	U	99	DT	-	T	F	-	-	-	-	-	-	-	-	V-BRT	
6	U								26	H						
7	U	UAC							27	H						
8	U								28	H	JOB					
9	U								29	H	HDC					
10	H	JAC							30	H						
11									31	H	HOP					
12									32	H						
13	H	-							33	H	JAC					
14	JAC								34		JOB					
15	J								35	JAC						
16	H	TV							36	H	HDC					
17	JAC								37	H						
18									38	H						
19	H	-							39	H	JAC					
20	H	JAC							40							
21	H								41							
22									42	U						
23	H	HSP							43	U	UAC					
24	H	JAC							44	U						
25	H															

OBJECT: 2217 P-CAR  
KEYWORDS: Be Star  
COMMENTS:  
Observe with 1 cm<sup>2</sup> aperture.



ID: 2217-10  
Names: P-CAR HD91465  
Type: B4Ve  
% Pol: 1.00  
Pol Var: unknown  
Pos Ang: 74.0  
Mechanism: free-free disk  
Comments: moderate C IV abs;  
moderate opt pol; night  
obs, but not required if  
slip.  
NOTE: DETECTOR IN FAST MODE-  
DO NOT EXPECT ON-LINE  
SPECTRUM.



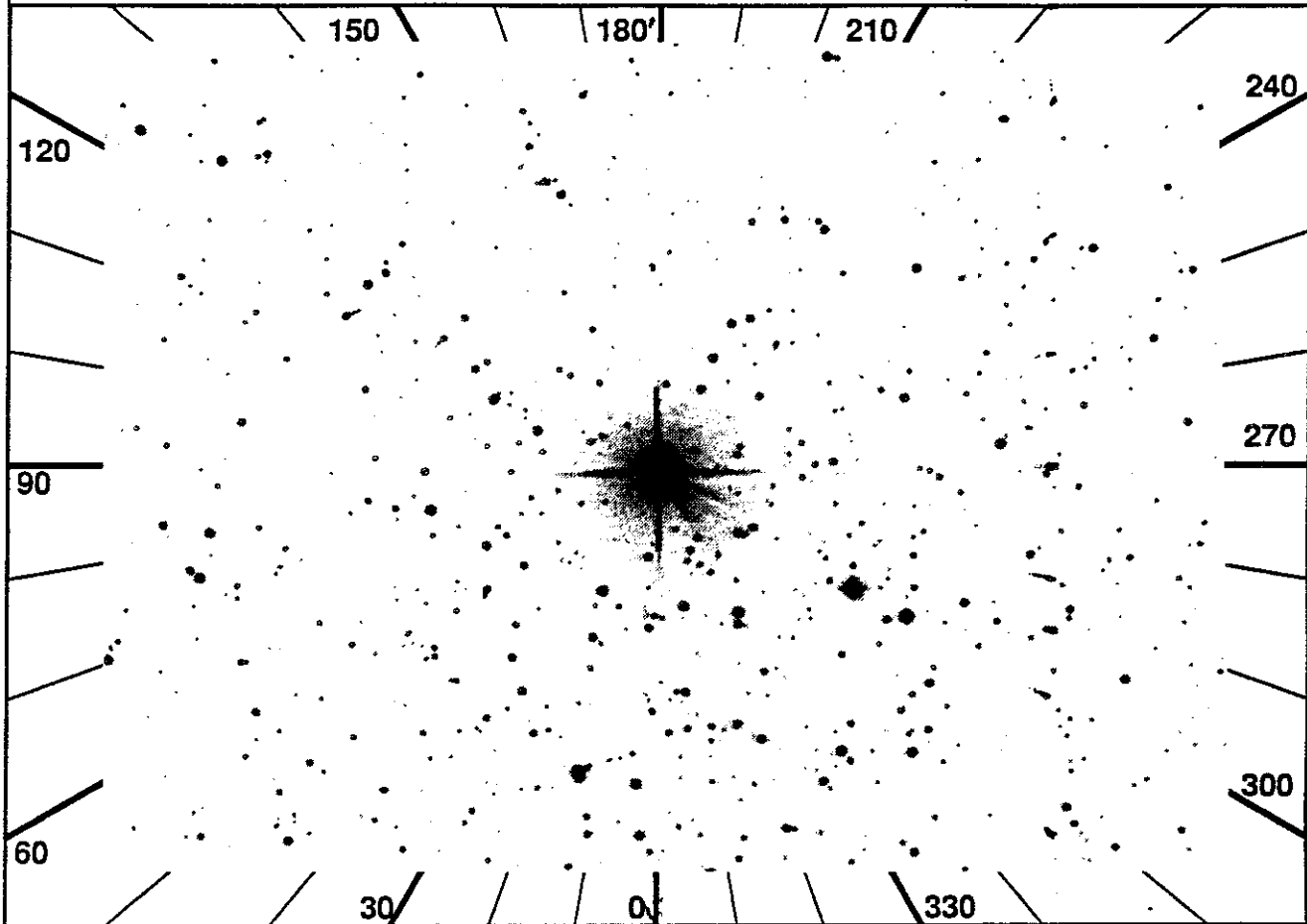
UIT  
Observation Description

1 RA 238.8463 DEC -14.1366 ROLL 129.43

ID 2222-10

2 TIME 1273

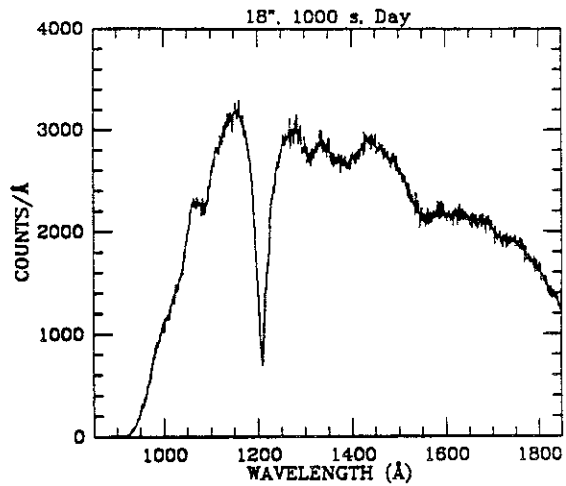
NAME 48LIB



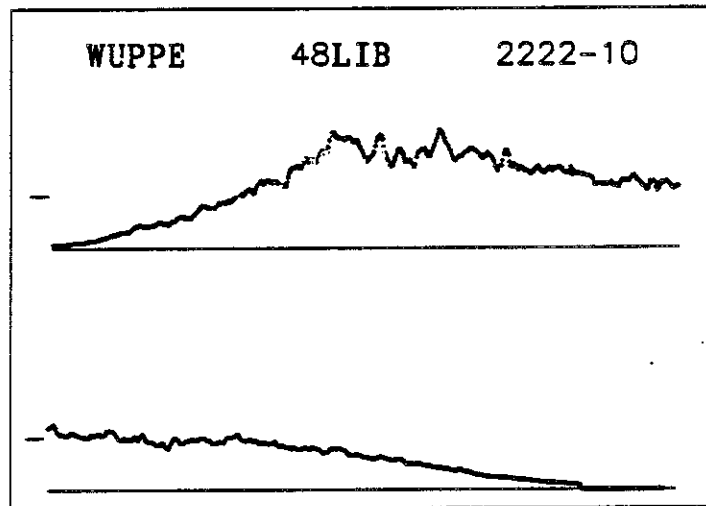
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	188	src sim	6	6	4.3	2	7	1	----	-	-	----	-	-	SMALAP
4	P	W	126	aut	aut	5	3	6.1	8	6	----	-	-	----	-	-
5	U	99	DT	-		T	F	-	-	-	-	-	-	-	-	V-BRT
6	U								19	H	HSP					When actual slit pos=7
7	U	UAC							20	H	JAC					ITEM 16_0
8	U								21		JOB					Observe
9	U								22		JAC					All PREVIEW
10	H	JAC							23	H	HDC					(just prior to QUIT)
11									24	H						ITEM 61_0 (ND6 filt)
12									25	H						Check 6I_0_0
13	JAC								26	H	JAC					ITEM 16_I
14	J								27							All QUIT
15	H	TV							28							
16	JAC								29	U						(During slew)
17									30	U	UAC					*IF next obj not V-BRT
18									31	U						* ITEM 43, Chk Door O*

2

OBJECT: 2222 48LIB  
KEYWORDS: Be Star  
COMMENTS:  
Observe with 50 cm2 aperture.  
Any non-airglow em. lines?



ID: 2222-10  
Names: 48LIB HD142983  
Type: B3IVE-sh  
% Pol: 0.76 (PBO)  
Pol Var: yes  
Pos Ang: 109.7 (PBO)  
Mechanism: free-free disk  
Comments: moderate C IV abs;  
moderate opt pol.  
NOTE: DETECTOR IN FAST MODE-  
DO NOT EXPECT ON-LINE  
SPECTRUM.

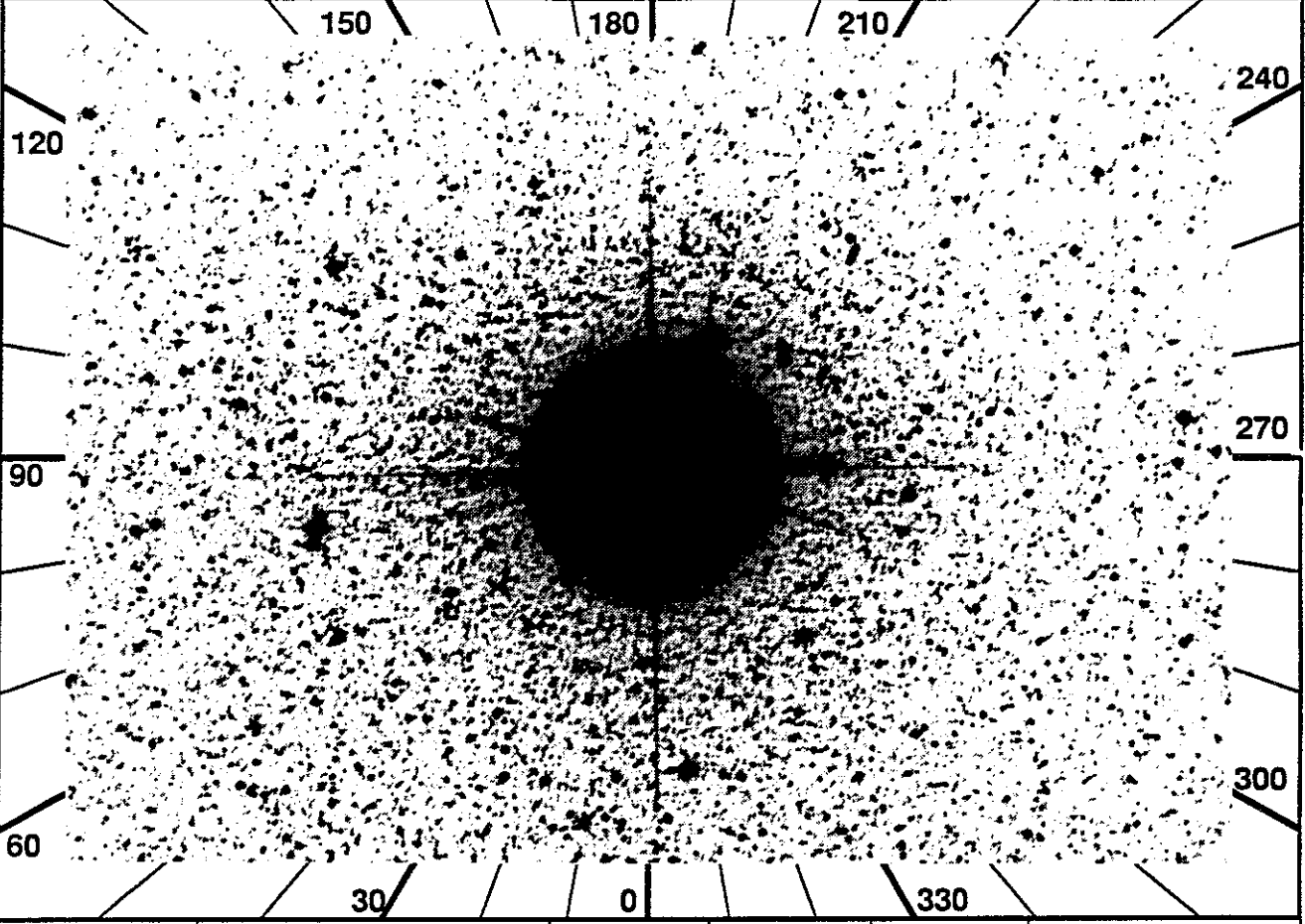


UIT  
Observation Description



1 RA 275.2133 DEC -34.4103 ROLL 327.55  
 2 TIME 327

ID 2226-10  
 NAME EPS-SGR

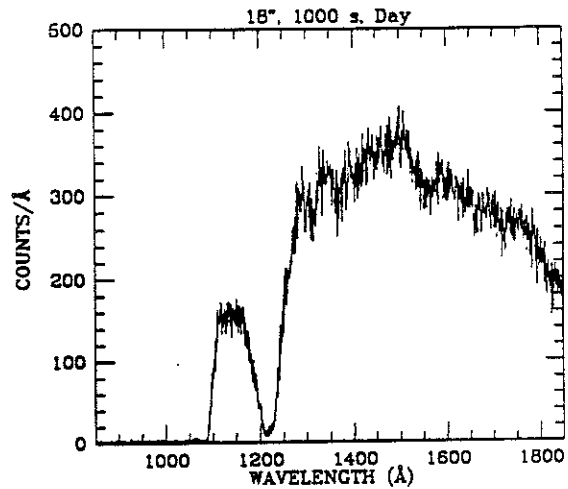


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	S	H	273	src	sim	3	3	3.3	1	7	4	---	---	---	1CM	AP C LR2
4	W	127	aut	aut	2	2	6.7		8	6	---	---	---			
5	U	99	DT	-	TF	-	-	-	-	-	-	-	-	-	-	V-BRT

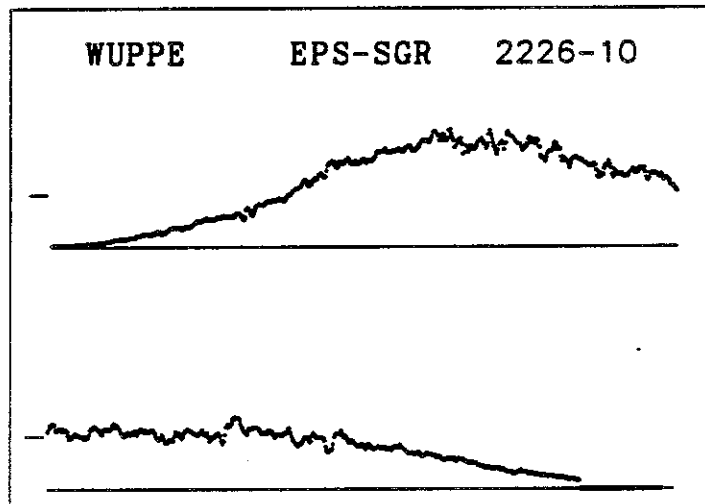
6 U	(At beginning of slew)	24 H	(Cycle pump thru obs)
7 U	UAC *IF UIT Door O*	25 H	JOB *IF HUT LOG R < 3
8 U	* ITEM 44, Chk Door C*	26 H	HDC * ITEM 61_0 (ND6 filt)
9 U	Expect UIT SET,OBS err	27 H	* Check 61_0_0
10 H	JAC VIP ON until at obs slit	28 H	HOP * ITEM 42_2 (door 2)
11	Config H W U	29 H	* ITEM 32_X (X = gs mag)
12	-----	30 H	JAC * Leave pump off til end
13	JAC All SETUP	31	JOB Observe
14 J	Chk Stat - -LOC STB	32	JAC All PREVIEW
15 H	TV Verify HUT acq on TV	33 H	HDC (just prior to QUIT)
16	JAC IMC BEGIN	34 H	ITEM 61_0 (ND6 filt)
17	HUT ITEM 5	35 H	Check 61_0_0
18	All BEGIN	36 H	JAC ITEM 16_1
19 H	HSP When actual slit pos=7	37	All QUIT
20 H	JAC ITEM 16_0 (T = 0 sec)	38	-----
21 H	ITEM 16_1 (T = 100 sec)	39 U	(During slew)
22 H	When log P < -5.5	40 U	UAC *IF next obj not V-BRT
23 H	ITEM 16_0 Repeat.	41 U	* ITEM 43, Chk Door O*

CRITICAL HUT DETECTOR SAFETY

OBJECT: 2226 EPS-SGR  
KEYWORDS: Be Star  
COMMENTS:  
Start with 1 cm<sup>2</sup> aperture.  
Go to 50 cm<sup>2</sup> if possible.  
Any non-airglow em. lines?



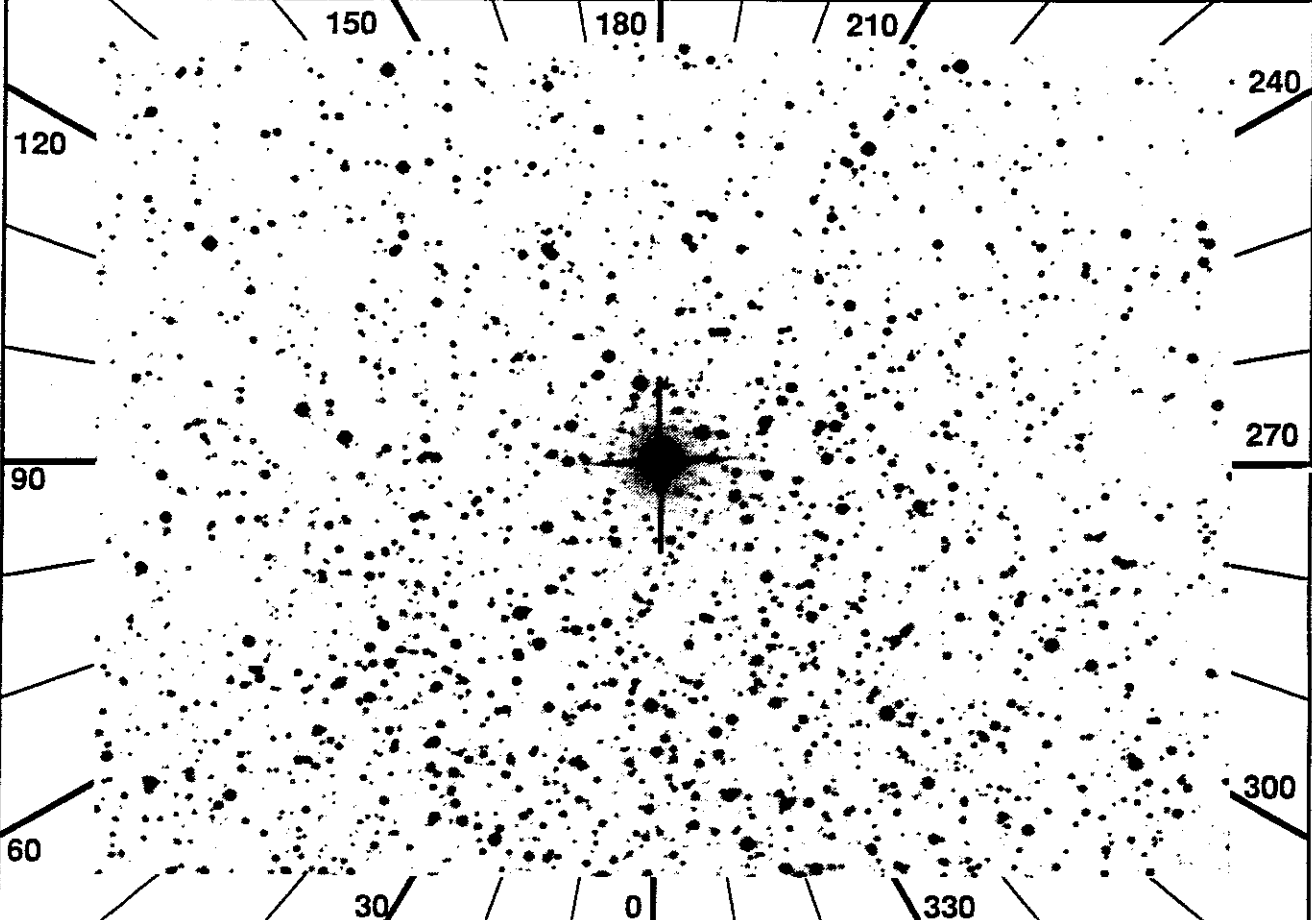
ID: 2226-10  
Names: EPS-SGR HD169022  
Type: B9.5III  
% Pol: 0.04 (Serkowski 1970)  
Pol Var: unknown  
Pos Ang: 99 (Serkowski 1970)  
Mechanism: dust?  
Comments: Cote IR excess attrib  
to dust, not free-free; not  
a known Be star; X-ray source  
Co-pointing with BBXRT.  
NOTE: DETECTOR IN FAST MODE-  
DO NOT EXPECT ON-LINE  
SPECTRUM.



UIT  
Observation Description

1 RA 328.5513 DEC 65.0830 ROLL 11.52  
 2 TIME 1285

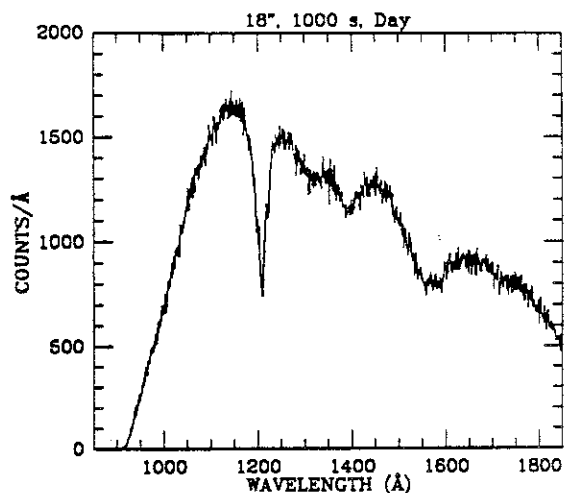
ID 2230-10  
 NAME HD208682



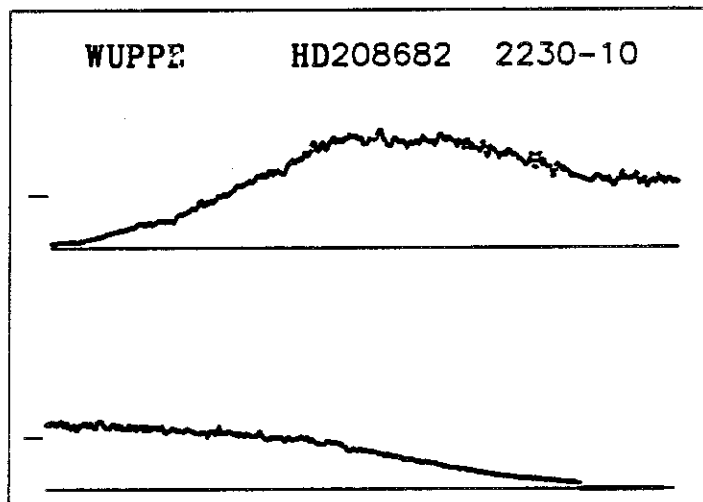
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	122	src	sim	7	7	4.0	2	7	1	---	---	---	---	SMALAP	
4	P	W	128	aut	aut	6	4	5.8	8	6	---	---	---	---		
5	U	99	DT	-	T	F	-	-	-	-	-	-	-	-	V-BRT	AS2DFA
6	U								21	H	HSP	When	actual	slit	pos=7	
7	U	UAC							22	H	JAC	ITEM	16	0		
8	U								23		JOB	Observe				
9	U								24	H	JAC	All	PREVIEW			
10	I								25	H	HDC	(just	prior	to	QUIT)	
11	I								26	H		ITEM	61	0	(ND6	filt)
12	H	JAC							27	H		Check	6I	0_0		
13									28	H	JAC	ITEM	16	I_		
14									29			All	QUIT			
15	JAC								30			-----				
16	J								31	I		CMD	ISS_3928			
17	H	TV							32	U		(During	slew)			
18	JAC								33	U	UAC	*IF	next	obj	not	V-BRT
19									34	U		* ITEM	43,	Chk	Door	O*
20																

2

OBJECT: 2230 HD208682  
KEYWORDS: Be Star  
COMMENTS:  
Observe with 50 cm2 aperture.  
Any non-airglow em. lines?



ID: 2230-10  
Names: HD208682  
Type: B2Ve  
% Pol: 0.60 (PBO)  
Pol Var: yes?  
Pos Ang: 109.8 (PBO)  
Mechanism: free-free disk  
Comments: moderate C IV abs;  
moderate opt pol; double  
star; mag diff=2.2;  
sep=1.1 arcsec; extend  
obs into SAA if possible.  
IUE data used for simulated  
spectrum is that of 66 Oph.



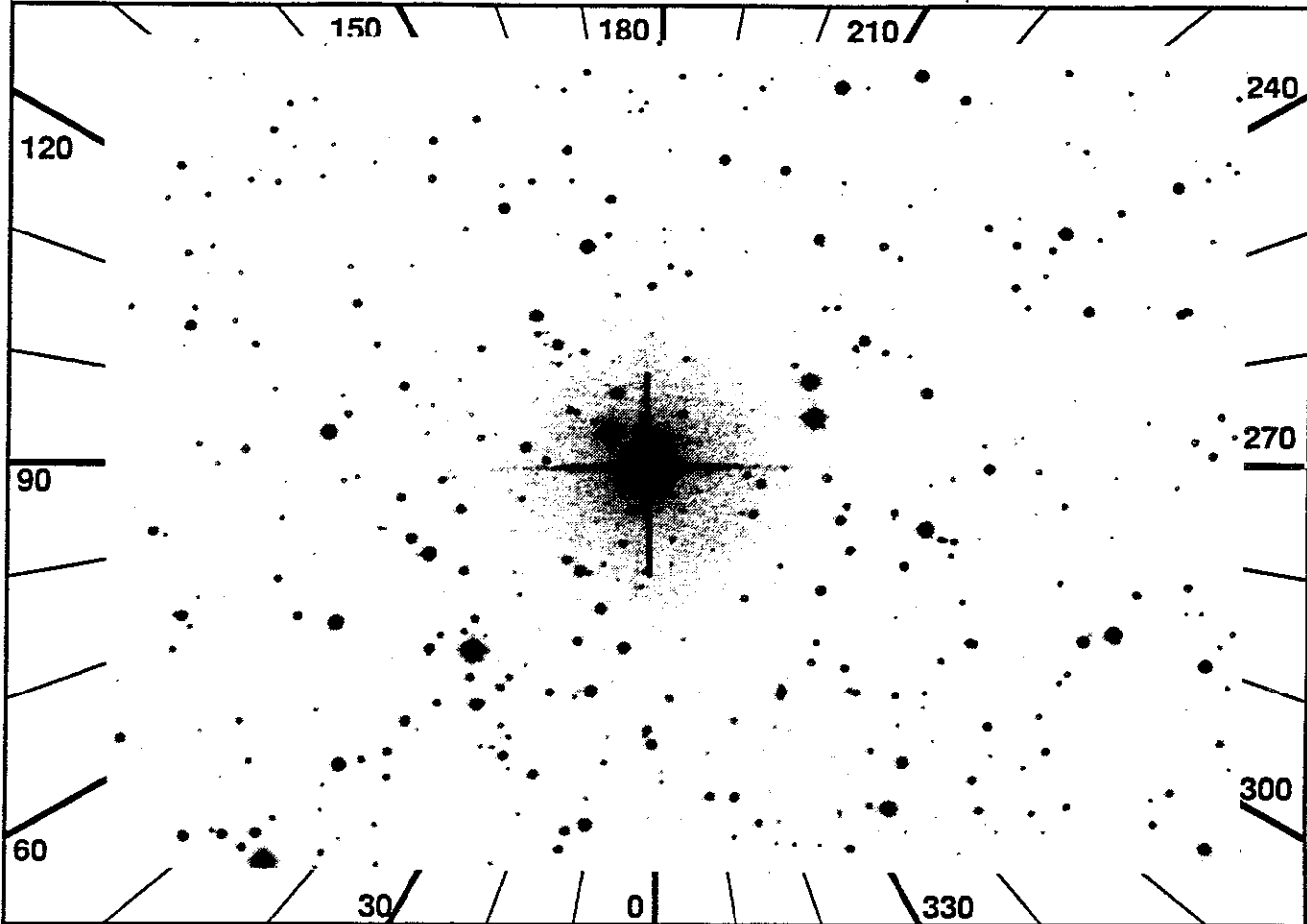
UIT  
Observation Description

1 RA 323.5709 DEC -19.6910 ROLL 57.35

ID 2234-10

2 TIME 329 MANOPS

NAME EPS-CAP

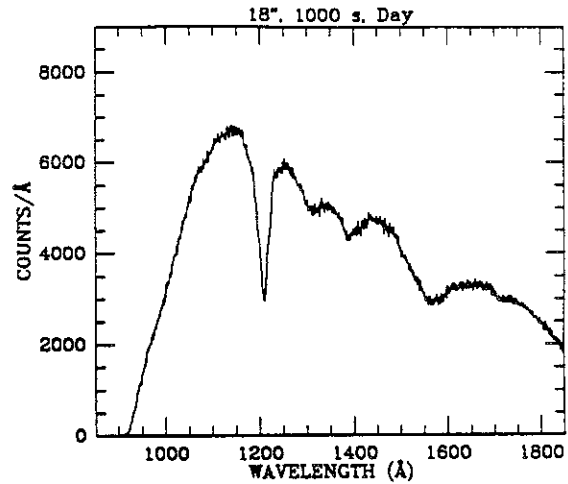


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	253	src	sim	5	5	4.6	2	7	1	---	---	---	---	SM	SAA
4	P	W 129	aut	aut	5	2	6.5		8	6	---	---	---	---	SAA3	
5	U	99	DT	-		T	F	-	-	-	-	-	-	-	-	V-BRT

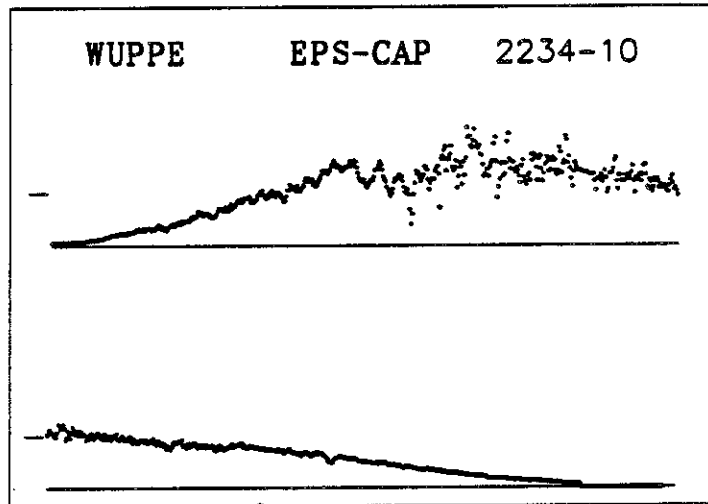
6 U	(At beginning of slew)	25 W	* ITEM 2 (Setup)
7 U	UAC *IF UIT Door O*	26 W	JAC * Reconfig as before
8 U	* ITEM 44, Chk Door C*	27 H	- After SAA exit
9 U	Expect UIT SET,OBS err	28 H	JAC HUT SETUP
10 H	JAC VIP ON until at obs slit	29 H	Chk HUT Stat -DET
11	Config H W U	30	All BEGIN
12	-----	31 H	HSP When actual slit pos=7
13 H	- Note: Acquisition in SAA	32 H	JAC ITEM 16_0
14	JAC All SETUP	33	JOB Observe
15 J	Chk Stat - -LOC STB	34	JAC All PREVIEW
16 H	TV Verify HUT acq on TV	35 H	HDC (just prior to QUIT)
17	JAC IMC BEGIN	36 H	ITEM 61_0 (ND6 filt)
18	HUT ITEM 5	37 H	Check 6I_0_0
19 W	IF t=SAA out > 240 sec	38 H	JAC ITEM 16 I_
20 W	* Config All=No-one	39	All QUIT
21 W	* All BEGIN (Begin IMC)	40	-----
22 W	WOB * ITEM 7_t (t=SAA out)	41 U	(During slew)
23 W	* Wait for tim rem obj=0	42 U	UAC *IF next obj not V-BRT
24 W	* ITEM 8 (Pause)	43 U	* ITEM 43, Chk Door O*

2

OBJECT: 2234 EPS-CAP  
KEYWORDS: Be Star  
COMMENTS:  
Observe with 50 cm<sup>2</sup> aperture.  
Any non-airglow em. lines?



ID: 2234-10  
Names: EPS-CAP HD205637  
Type: B3IIIe  
% Pol: 0.52 (PBO)  
Pol Var: yes  
Pos Ang: 151.2 (PBO)  
Mechanism: free-free disk  
Comments: moderate var C IV  
abs; variable pol; Cote-Waters  
extreme star on pol vs 12 um  
excess diagram; acq and obs  
in SAA if possible.  
NOTE: DETECTOR IN FAST MODE-  
DO NOT EXPECT ON-LINE  
SPECTRUM.



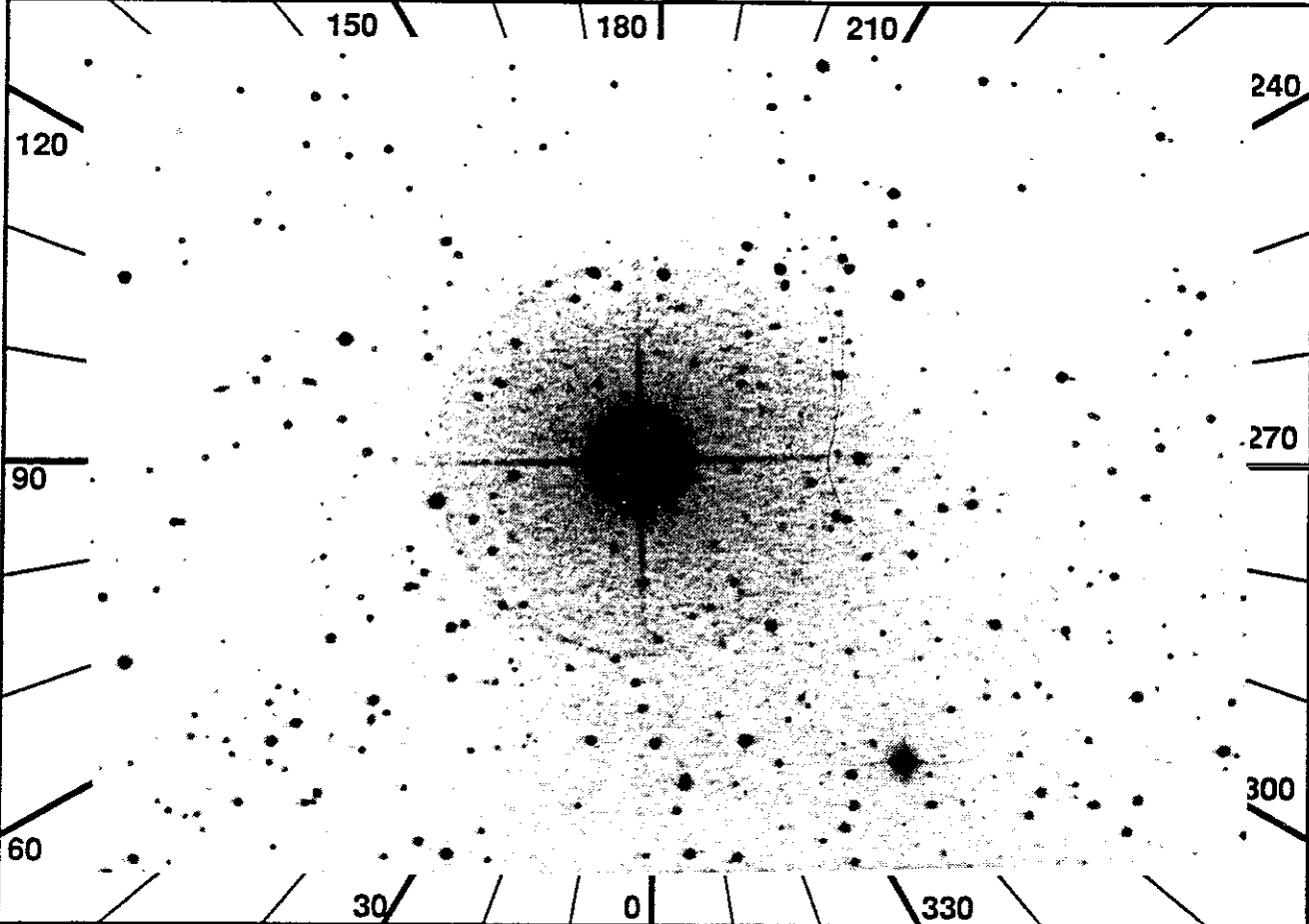
UIT  
Observation Description

1 RA 335.6808 DEC 1.1230 ROLL 84.20

ID 2235-10

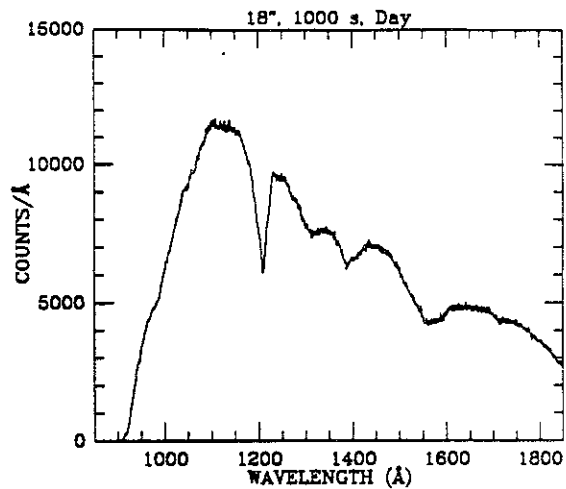
2 TIME 334 MANOPS

NAME PI-AQR

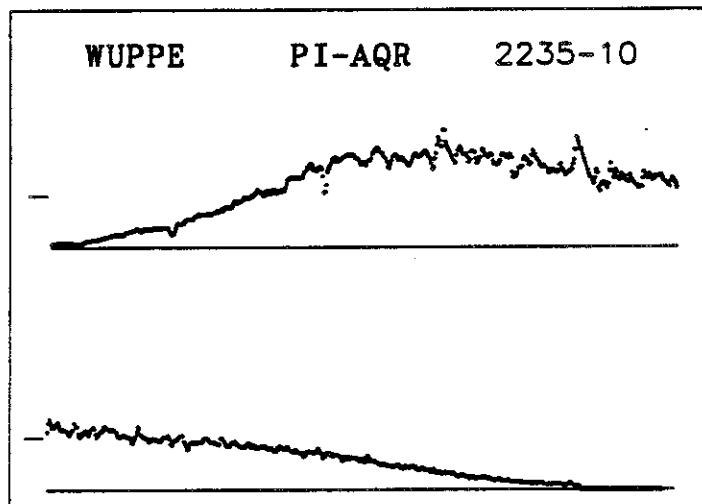


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2	
3	H	91	src	sim	5	5	4.8	2	7	1	---	---	---	---	SMALAP		
4	P	W	129	aut	aut	5	2	6.5	8	6	---	---	---	---	SAA1		
5	U	99	DT	-	T	F	-	-	-	-	-	-	-	-	V-BRT		
6	U		(At beginning of slew)						24	H	Check 61_0_0						
7	U	UAC	*IF UIT Door O*						25	H	JAC	ITEM 16_I_0					
8	U		* ITEM 44, Chk Door C*						26	W	JOB	Wait for time avail=0					
9	U		Expect UIT SET,OBS err						27	W	JAC	UIT QUIT					
10	H	JAC	VIP ON until at obs slit						28		-----						
11			Config H W U						29	W	NOTE: SAA OBS-NO IPS HLD						
12			-----						30	W	WOB	ITEM 8 (Pause)					
13	J	JAC	All SETUP						31	W	ITEM 2 (Setup)						
14	J		Chk Stat - -LOC STB						32	W	Chk WUP Stat -LOC						
15	H	TV	Verify HUT acq on TV						33	W	ITEM 7_t (t=SAAout/mnvr)						
16	J	JAC	IMC BEGIN						34	W	JOB	Observe					
17			HUT ITEM 5						35	W	JAC	All PREVIEW					
18			All BEGIN						36	W	WOB	Wait for time rem obj=0					
19	H	HSP	When actual slit pos=7						37	W	JAC	All QUIT					
20	H	JAC	ITEM 16_0						38	U	(During slew)						
21			JOB Observe						39	U	UAC	*IF next obj not V-BRT					
22	H	HDC	(just prior to QUIT)						40	U	* ITEM 43, Chk Door O*						
23	H		ITEM 61_0 (ND6 filt)														

OBJECT: 2235 PI-AQR  
KEYWORDS: Be Star  
COMMENTS:  
Observe with 50 cm<sup>2</sup> aperture.  
Any non-airglow em. lines?



ID: 2235-10  
Names: PI-AQR HD212571  
Type: B1IIIe  
% Pol: 1.26 (PBO)  
Pol Var: yes  
Pos Ang: 156.7 (PBO)  
Mechanism: free-free disk  
Comments: strong C IV abs;  
lg var opt pol; look for  
line eff & var; this is  
the first ptg, early in  
mission (>48 hr before  
second ptg); extend into  
SAA if possible.  
NOTE: DETECTOR IN FAST MODE-  
DO NOT EXPECT ON-LINE  
SPECTRUM.



UIT  
Observation Description

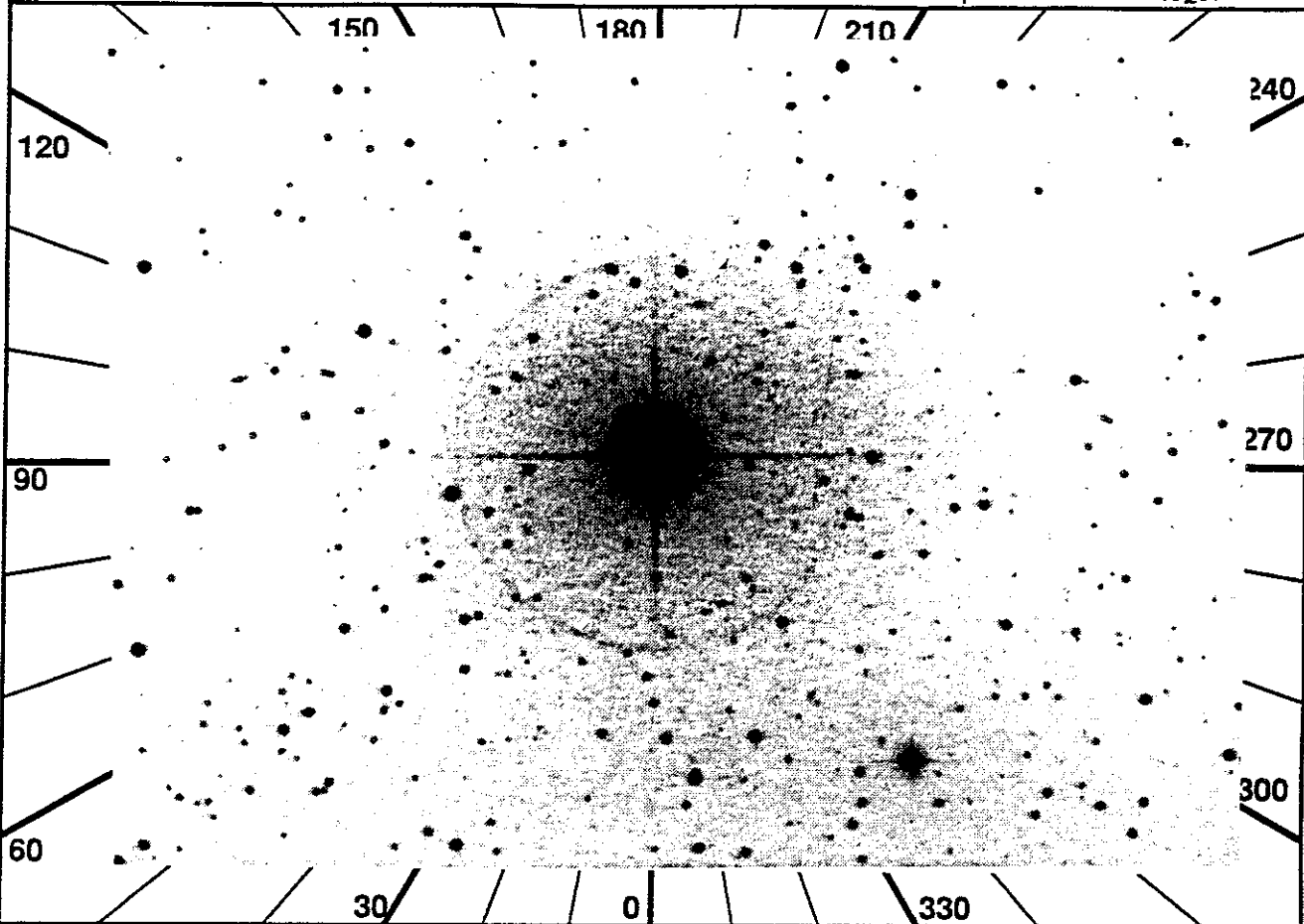


1 RA 335.6808 DEC 1.1230 ROLL 91.24

ID 2235-21

2 TIME 1187

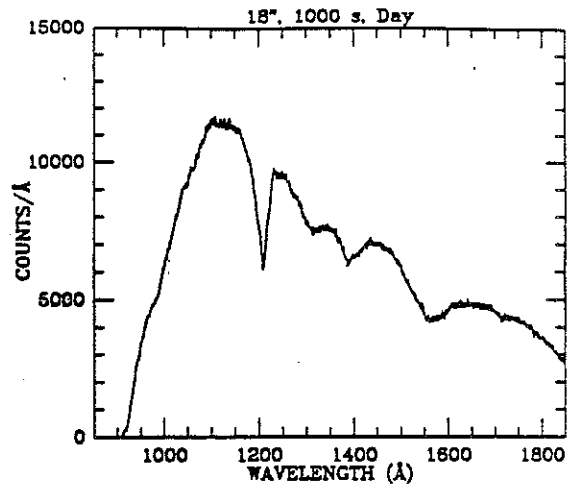
NAME PI-AQR



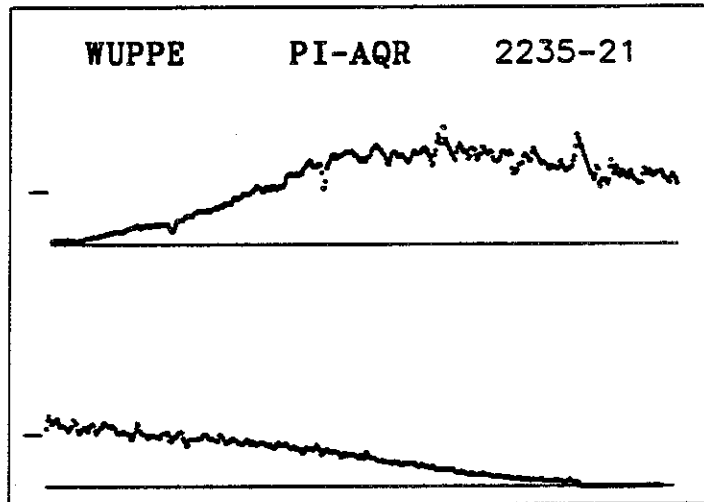
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	202	src	sim	5	5	4.8	2	7	1	---	---	---	---	SMALAP	DOOR5
4	P	W 129	aut	aut	5	2	6.5		8	6	---	---	---			
5	U	99	DT	-		T	F	-	-	-	-	-	-	-	V-BRT	
6	U		(At beginning of slew)			23	H		ITEM 42_1 (1 cm2 door)							
7	U	UAC	*IF UIT Door O*			24	H	JAC	500 sec after BEGIN,							
8	U		* ITEM 44, Chk Door C*			25	H		ITEM 16_1							
9	U		Expect UIT SET,OBS err			26	H		When log P < -5.5							
10	H	JAC	VIP ON until at obs slit			27	H		ITEM 16_0 (T = 0 sec)							
11			Config H W U			28	H		ITEM 16_1 (T = 100 sec)							
12			-----			29	H		(Cycle pump thru obs)							
13	JAC		All SETUP			30	H		All PREVIEW							
14	J		Chk	Stat	-	-	LOC	STB	31	H	HDC	(just prior to QUIT)				
15	H	TV	Verify HUT acq on TV			32	H		ITEM 61_0 (ND6 filt)							
16	JAC		IMC BEGIN			33	H		Check 61_0_0							
17			HUT ITEM 5			34	H	JAC	ITEM 16_1							
18			All BEGIN			35	H		All QUIT							
19	H	HSP	When actual slit pos=7			36	H		-----							
20	H	JAC	ITEM 16_0			37	U		(During slew)							
21			JOB Observe			38	U	UAC	*IF next obj not V-BRT							
22	H	HOP	400 sec after BEGIN,			39	U		* ITEM 43, Chk Door O*							

*don cal*  
2

OBJECT: 2235 PI-AQR  
KEYWORDS: Be Star  
COMMENTS:  
Observe with 50 cm2 aperture.  
Any non-airglow em. lines?



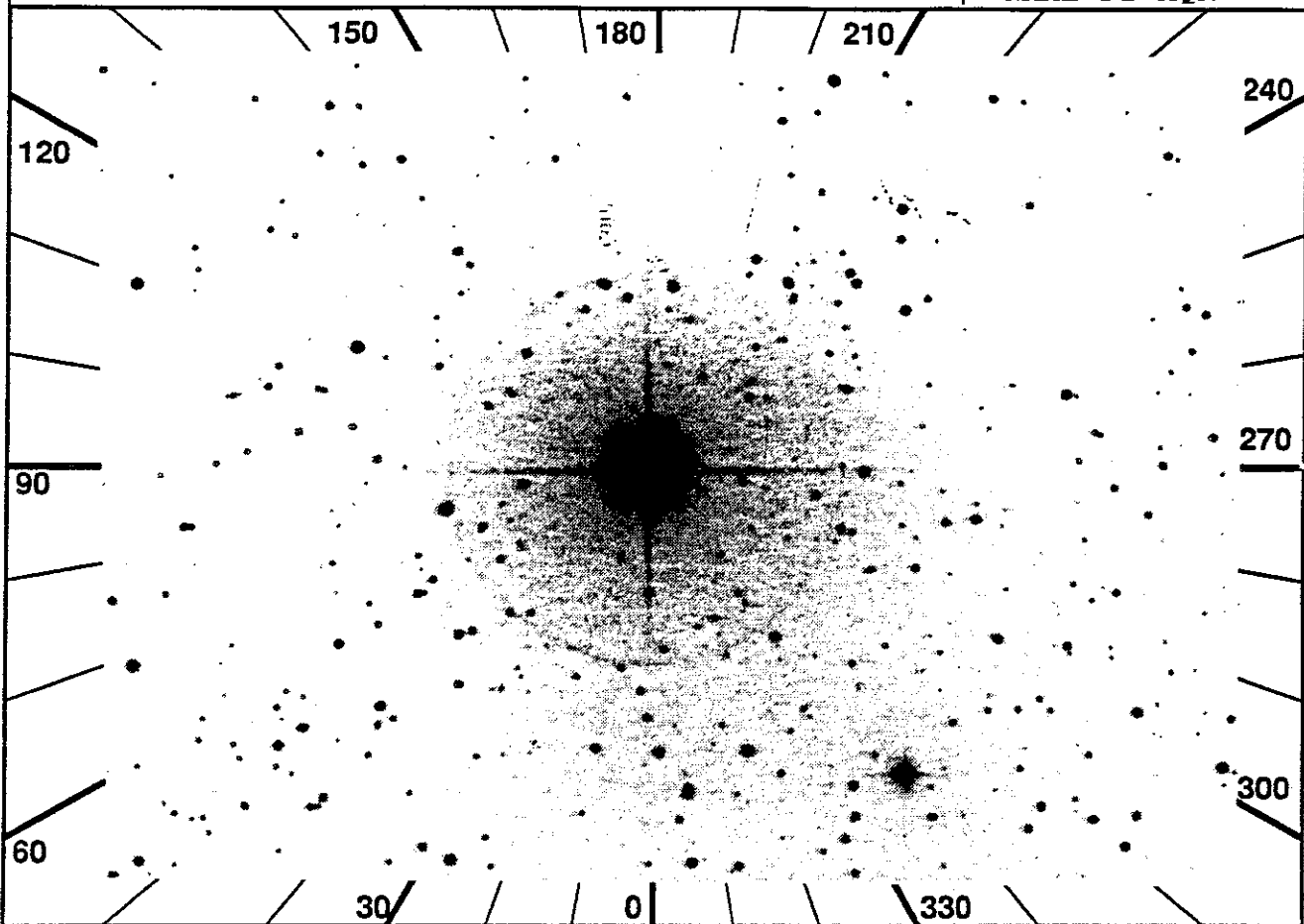
ID: 2235-21  
Names: PI-AQR HD212571  
Type: B1IIIe  
% Pol: 1.26 (PBO)  
Pol Var: yes  
Pos Ang: 156.7 (PBO)  
Mechanism: free-free disk  
Comments: strong C IV abs;  
lg var opt pol; look for  
line eff & var; this is  
part of the second ptg,  
later in mission (>48 hr  
after first ptg).  
NOTE: DETECTOR IN FAST MODE-  
DO NOT EXPECT ON-LINE  
SPECTRUM.



UIT  
Observation Description

1 RA 335.6808 DEC 1.1230 ROLL 91.24  
 2 TIME 639

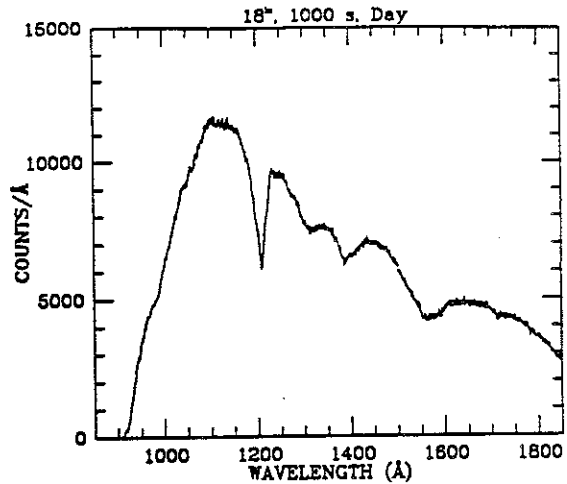
ID 2235-22  
 NAME PI-AQR



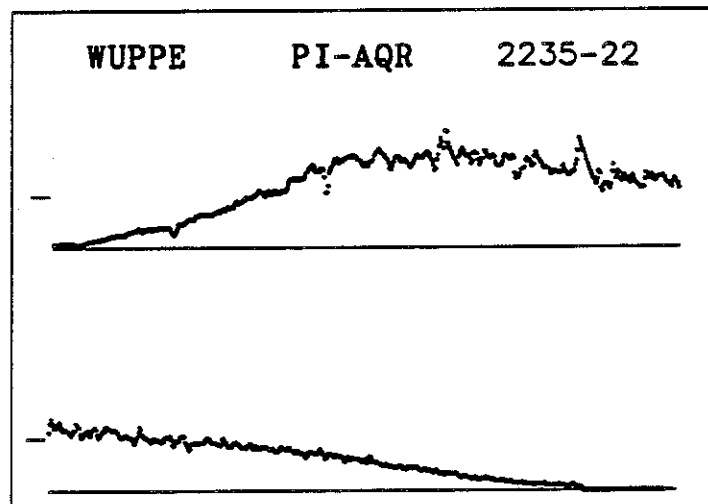
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	239	src	sim	5	5	4.8	2	7	1	---	---	---	---	SMALAP	
4	P	W 129	aut	aut	5	2	6.5		8	6	---	---	---			
5	U	99	DT	-		T	F	-	-	-	-	-	-	-	-	V-BRT
6	U		(At beginning of slew)				19	H	HSP	When actual slit pos=7						
7	U	UAC	*IF UIT Door O*				20	H	JAC	ITEM 16_0						
8	U		* ITEM 44, Chk Door C*				21		JOB	Observe						
9	U		Expect UIT SET,OBS err				22	H	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 61_0_0						
13	J	JAC	All SETUP				26	H	JAC	ITEM 16_1_0						
14	J		Chk Stat -		-LOC STB		27			All QUIT						
15	H	TV	Verify HUT acq on TV				28			-----						
16	J	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: 2235 PI-AQR  
KEYWORDS: Be Star  
COMMENTS:  
Observe with 50 cm<sup>2</sup> aperture.  
Any non-airglow em. lines?



ID: 2235-22  
Names: PI-AQR HD212571  
Type: B1IIIe  
% Pol: 1.26 (PBO)  
Pol Var: yes  
Pos Ang: 156.7 (PBO)  
Mechanism: free-free disk  
Comments: strong C IV abs;  
lg var opt pol; look for  
line eff & var; this is  
part of the second ptg,  
later in mission (>48 hr  
after first ptg).  
NOTE: DETECTOR IN FAST MODE-  
DO NOT EXPECT ON-LINE  
SPECTRUM.



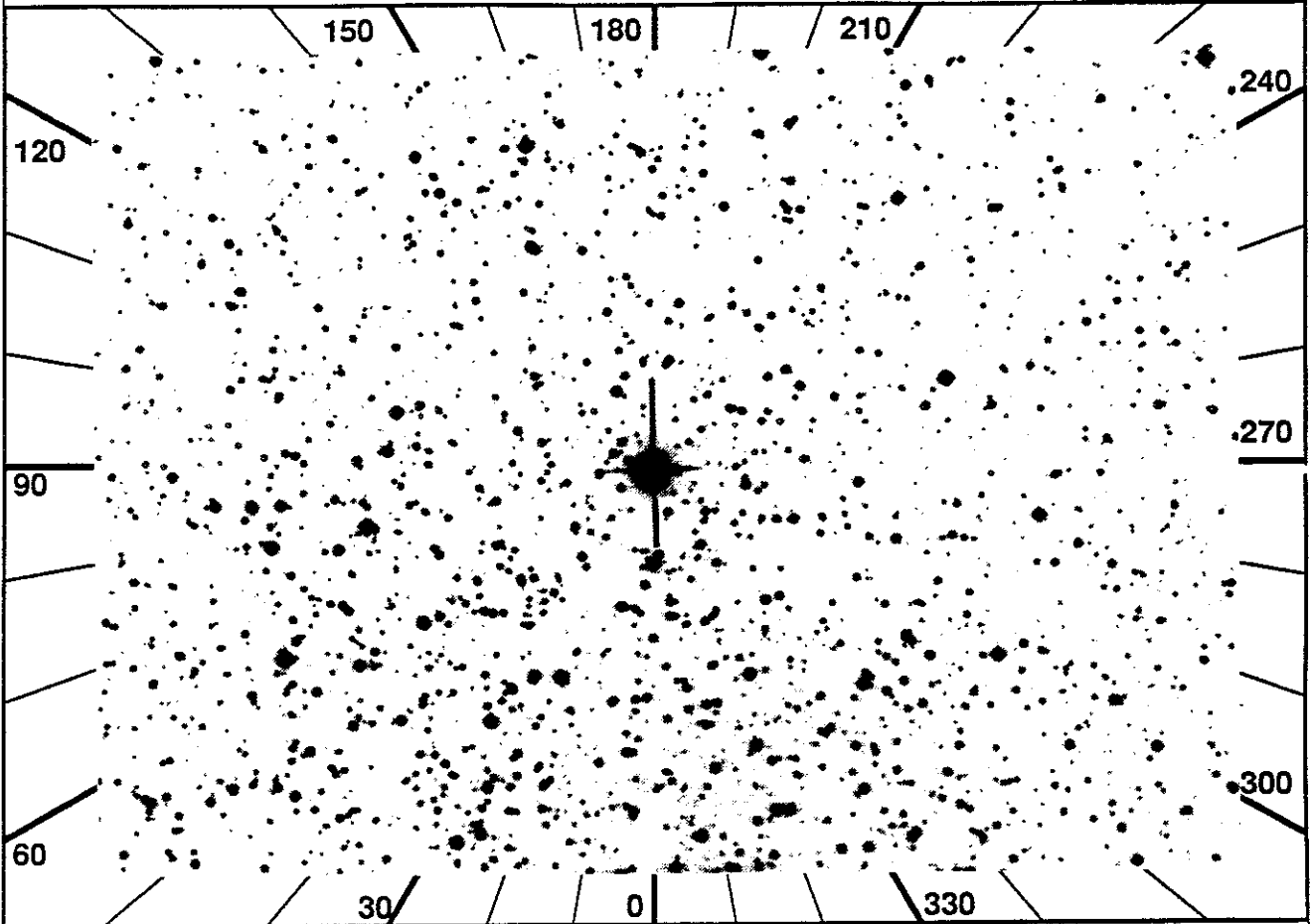
UIT  
Observation Description

1 RA 103.0337 DEC -23.8643 ROLL 284.73

ID 2302-11

2 TIME 1140

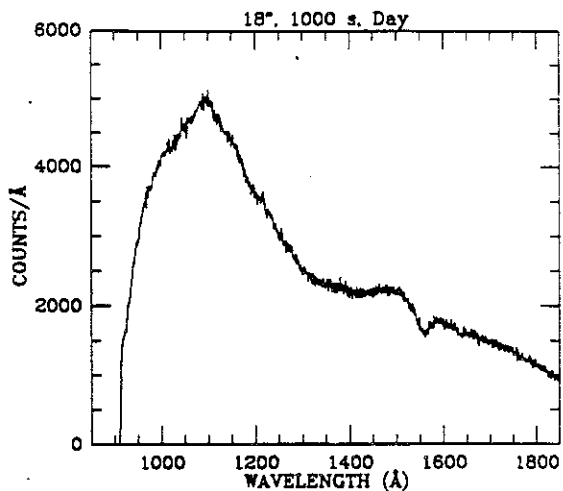
NAME EZ-CMA



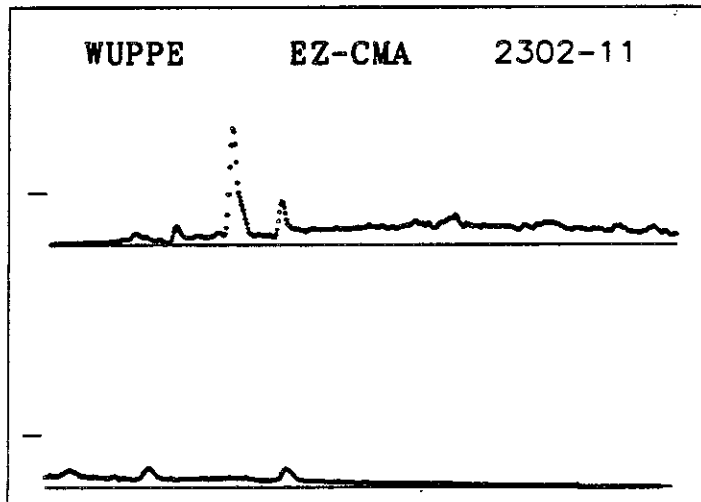
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	198	src sim	8	8	4.5	2	7	1	---	---	---	---	---	SMALAP	DOORS5
4	S	W 134	aut aut	7	2	5.7		8	6	---	---	---	---	---	VARWRN	
5	U	99	DT -	T F	-	-	-	-	-	-	-	-	-	-	V-BRT	
6	U		(At beginning of slew)				24	H	HOP	400 sec after BEGIN, <i>ITEM 16</i>						
7	U	UAC	*IF UIT Door O*				25	H		ITEM 42_1 (1 cm2 door)						
8	U		* ITEM 44, Chk Door C*				26	H	JAC	500 sec after BEGIN,						
9	U		Expect UIT SET,OBS err				27	H		ITEM 16_1						
10	W		NOTE: var tgt- adj tv,sp				28	H		When log_P < -5.5						
11	W		if reqd: WUP ALT-02,03				29	H		ITEM 16_0 (T = 0 sec)						
12	H	JAC	VIP ON until at obs slit				30	H		ITEM 16_1 (T = 100 sec)						
13			Config H W U				31	H		(Cycle pump thru obs)						
14			-----				32	U		All PREVIEW						
15	JAC		All SETUP				33	H	HDC	(just prior to QUIT)						
16	J		Chk Stat - -LOC STB				34	H		ITEM 61_0 (ND6 filt)						
17	H	TV	Verify HUT acq on TV				35	H		Check 61_0_0						
18	JAC		IMC BEGIN				36	H	JAC	ITEM 16_I						
19			HUT ITEM 5				37	U		All QUIT						
20			All BEGIN				38	U		-----						
21	H	HSP	When actual slit pos=7				39	U		(During slew)						
22	H	JAC	ITEM 16_0				40	U	UAC	*IF next obj not V-BRT						
23	JOB		Observe				41	U		* ITEM 43, Chk Door O*						

CRITICAL HUT DETECTOR SAFETY

OBJECT: 2302 EZ-CMA  
KEYWORDS: Wolf Rayet Star  
COMMENTS:  
Observe with 50 cm<sup>2</sup> aperture.  
Any non-airglow em. lines?



ID: 2302-11  
Names: EZ-CMA HD50896  
Type: WN5+?  
% Pol: ~0.5%  
Pol Var: yes  
Pos Ang: ~150  
Mechanism: e scat, needs high  
S/N for lines, mult epochs  
Comments: P varies with phase,  
.2% < P < .9%, p=3.77d, also longer  
term variations. Binary with  
neutron star companion or  
spotted, rotating single  
star? Strongest emline HeII  
1640, then NIV 1718, CIV 1550,  
variable. Known to show line  
features.  
NOTE: DETECTOR IN FAST MODE-  
DO NOT EXPECT ON-LINE  
SPECTRUM.



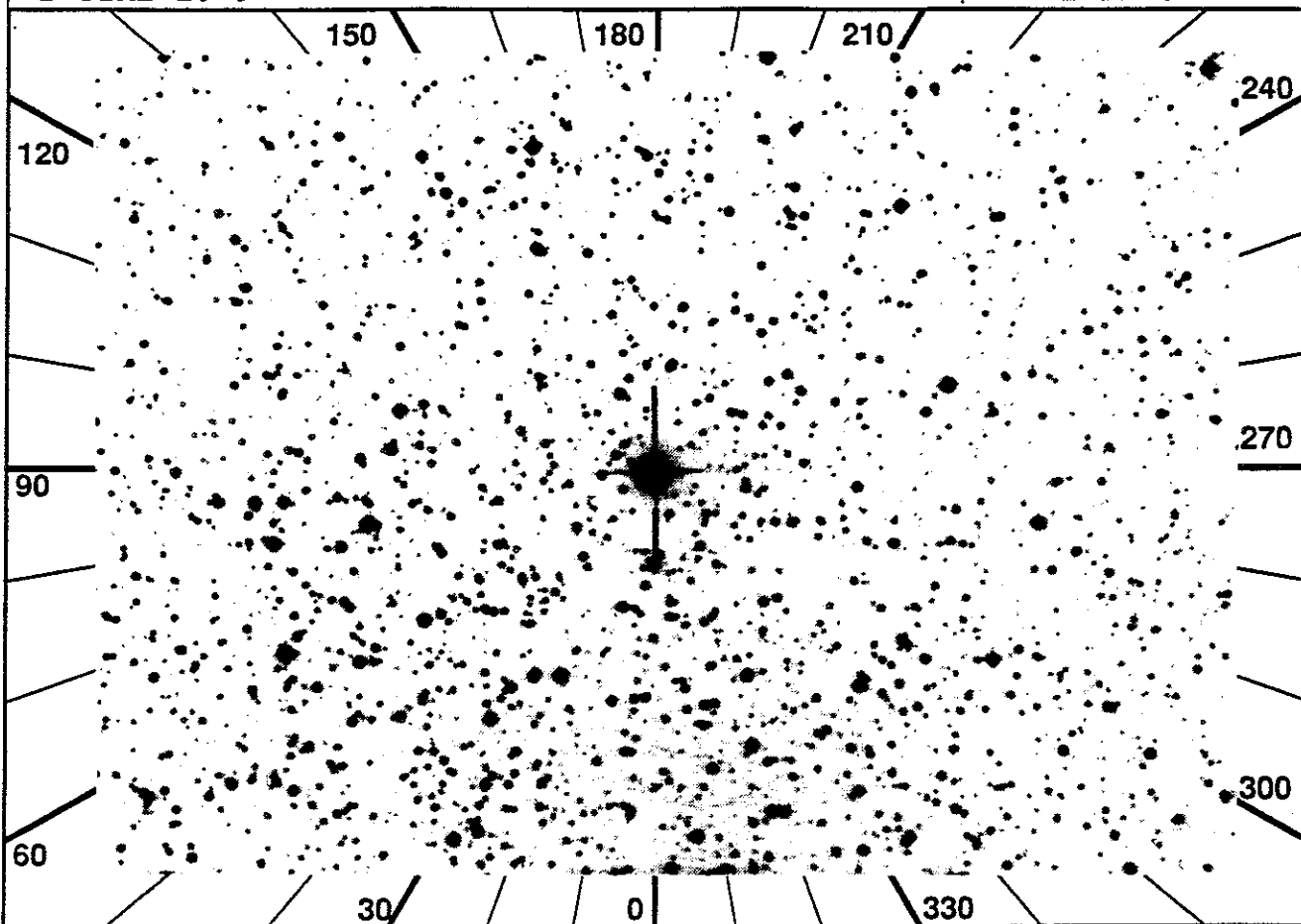
UIT  
Observation Description

1 RA 103.0337 DEC -23.8643 ROLL 284.73

ID 2302-12

2 TIME 1879

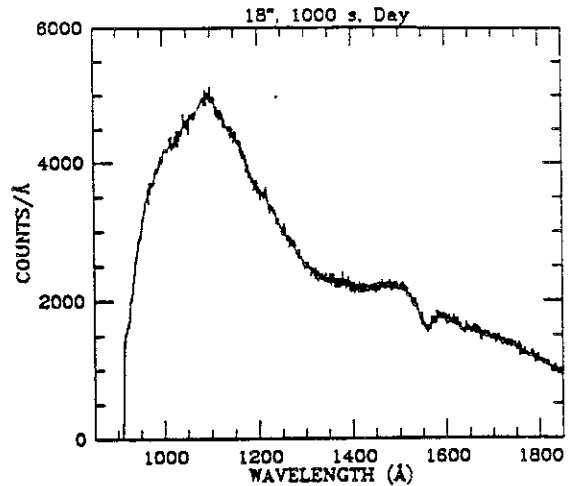
NAME EZ-CMA



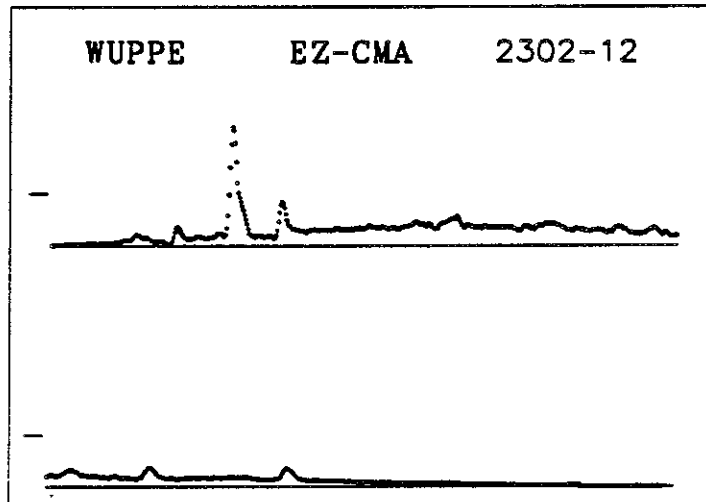
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	293	src sim	8	8	4.5	2	7	1	---	---	---	---	---	SM	SAA
4	P	W 134	aut aut	7	2	5.7		8	6	---	---	---	---	---	VARWRN	
5	U	99	DT -	T	F	-	-	-	-	-	-	-	-	-	V-BRT	
6	U		(At beginning of slew)					22	H	JAC	HUT	SETUP				
7	U	UAC	*IF UIT Door O*					23	H		Chk	HUT	Stat	-DET		
8	U		* ITEM 44, Chk Door C*					24			All	BEGIN				
9	U		Expect UIT SET,OBS err					25	H	HSP	When	actual	slit	pos=7		
10	W		NOTE: var tgt- adj tv, sp					26	H	JAC	ITEM	16_0				
11	W		if reqd: WUP ALT-02,03					27		JOB	Observe					
12	H	JAC	VIP ON until at obs slit					28		JAC	All	PREVIEW				
13			Config H W U					29	H	HDC	(just	prior	to	QUIT)		
14			-----					30	H		ITEM	6I_0	(ND6	filt)		
15	H	-	Note: Acquisition in SAA					31	H		Check	6I_0_0				
16	JAC		All SETUP					32	H	JAC	ITEM	16_I				
17	J		Chk Stat - -LOC STB					33			All	QUIT				
18	H	TV	Verify HUT acq on TV					34			-----					
19	JAC		IMC BEGIN					35	U		(During	slew)				
20			HUT ITEM 5					36	U	UAC	*IF	next	obj	not	V-BRT	
21	H	-	After SAA exit					37	U		* ITEM	43,	Chk	Door	O*	

2

OBJECT: 2302 EZ-CMA  
 KEYWORDS: Wolf Rayet Star  
 COMMENTS:  
 Observe with 50 cm<sup>2</sup> aperture.  
 Any non-airglow em. lines?



ID: 2302-12  
 Names: EZ-CMA HD50896  
 Type: WN5+?  
 % Pol: ~0.5%  
 Pol Var: yes  
 Pos Ang: ~150  
 Mechanism: e scat, needs high  
 S/N for lines, mult epochs  
 Comments: P varies with phase,  
 .2% < P < .9%, p=3.77d, also longer  
 term variations. Binary with  
 neutron star companion or  
 spotted, rotating single  
 star? Strongest emline HeII  
 1640, then NIV 1718, CIV 1550,  
 variable. Known to show line  
 features.  
 NOTE: DETECTOR IN FAST MODE-  
 DO NOT EXPECT ON-LINE  
 SPECTRUM.

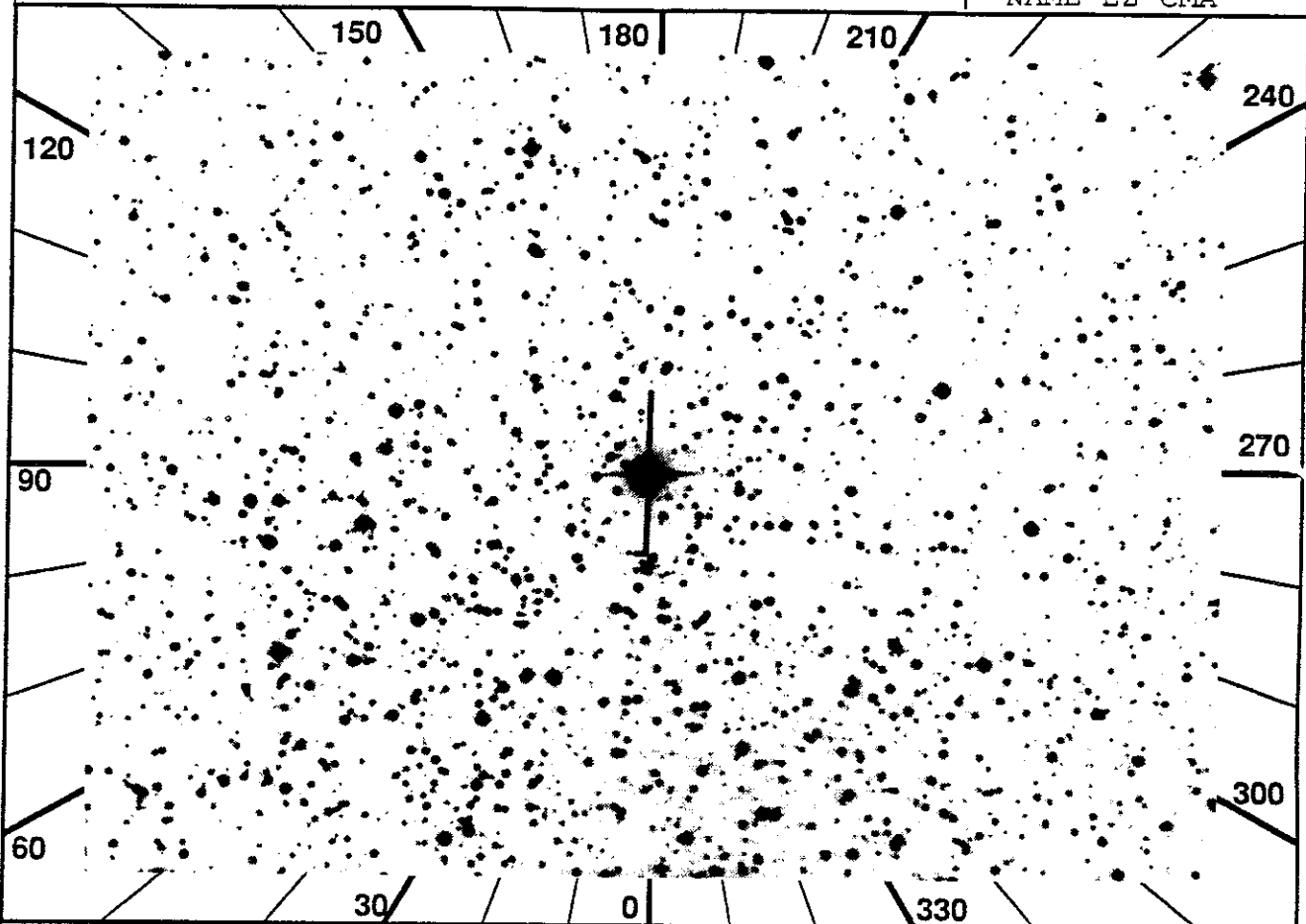


UIT  
 Observation Description



1 RA 103.0337 DEC -23.8643 ROLL 284.73  
 2 TIME 1474

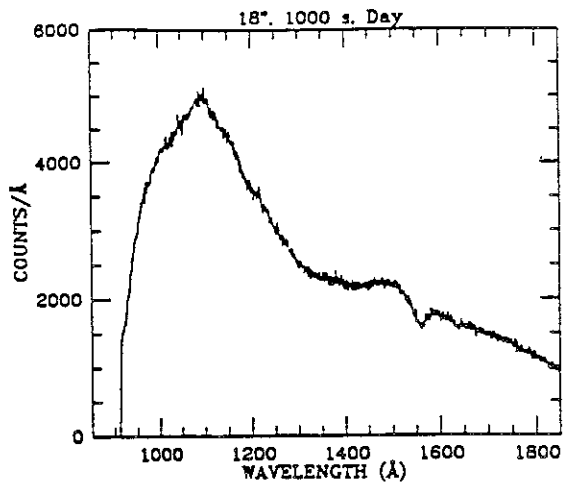
ID 2302-13  
 NAME EZ-CMA



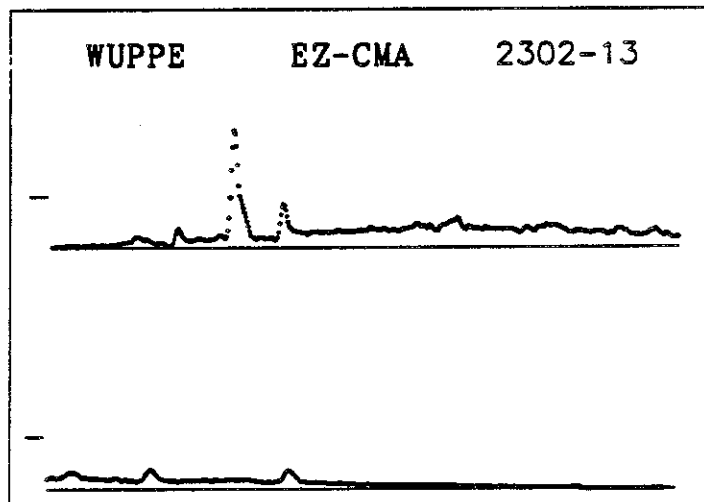
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	295	src sim	8	8	4.5	2	7	1	---	---	---	---	---	DR6SAA	
4	P	W 134	aut aut	7	2	5.7		8	6	---	---	---	---	---	VARWRN	
5	U	99	DT -	T F	-	-	-	-	-	-	-	-	-	-	V-BRT	
6	U		(At beginning of slew)				26	H	JAC	ITEM	16_0					
7	U	UAC	*IF UIT Door O*				27		JOB	Observe						
8	U		* ITEM 44, Chk Door C*				28	H	HOP	500 sec after BEGIN,						
9	U		Expect UIT SET,OBS err				29	H		ITEM 42_1 (1 cm2 door)						
10	W		NOTE: var tgt- adj tv,sp				30	H	JAC	600 sec after BEGIN,						
11	W		if reqd: WUP ALT-02,03				31	H		ITEM 16_1						
12	H	JAC	VIP ON until at obs slit				32	H		When log P < -5.5						
13			Config H W U				33	H		ITEM 16_0 (T = 0 sec)						
14			-----				34	H		ITEM 16_1 (T = 100 sec)						
15	H	-	Note: Acquisition in SAA				35	H		(Cycle pump thru obs)						
16	JAC		All SETUP				36			All PREVIEW						
17	J		Chk Stat - -LOC STB				37	H	HDC	(just prior to QUIT)						
18	H	TV	Verify HUT acq on TV				38	H		ITEM 61_0 (ND6 filt)						
19	JAC		IMC BEGIN				39	H		Check 6I_0_0						
20			HUT ITEM 5				40	H	JAC	ITEM 16_I_						
21	H	-	After SAA exit				41			All QUIT						
22	H	JAC	HUT SETUP				42			-----						
23	H		Chk HUT Stat -DET				43	U		(During slew)						
24			All BEGIN				44	U	UAC	*IF next obj not V-BRT						
25	H	HSP	When actual slit pos=7				45	U		* ITEM 43, Chk Door O*						

JA-682 CRITICAL HUT 2-49 *door cal* TGT/ASTRO1/FINAL  
 DETECTOR SAFETY *2*

OBJECT: 2302 EZ-CMA  
KEYWORDS: Wolf Rayet Star  
COMMENTS:  
Observe with 50 cm<sup>2</sup> aperture.  
Any non-airglow em. lines?



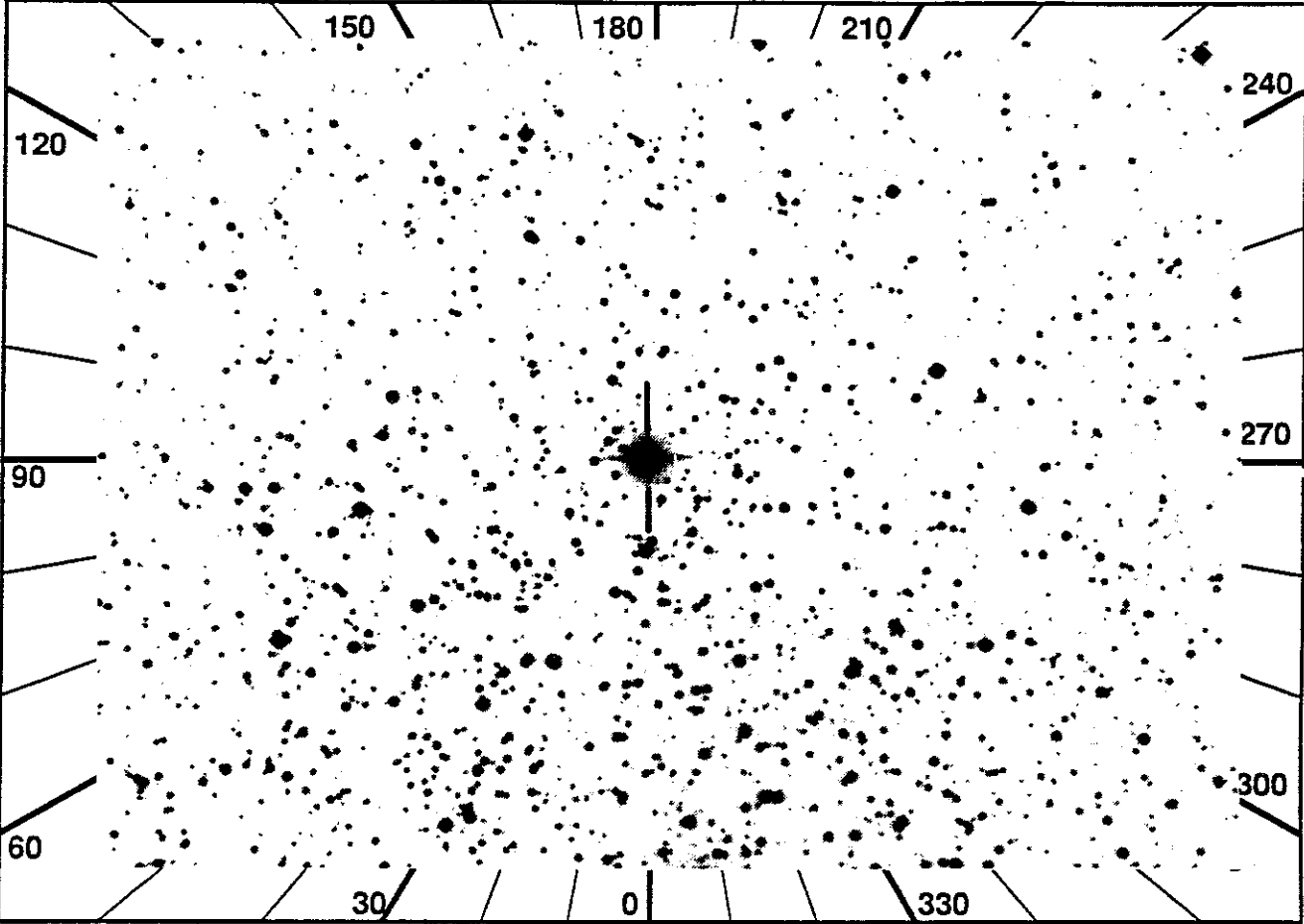
ID: 2302-13  
Names: EZ-CMA HD50896  
Type: WN5+?  
% Pol: ~0.5%  
Pol Var: yes  
Pos Ang: ~150  
Mechanism: e scat, needs high  
S/N for lines, mult epochs  
Comments: P varies with phase,  
.2% < P < .9%, p = 3.77d, also longer  
term variations. Binary with  
neutron star companion or  
spotted, rotating single  
star? Strongest emline HeII  
1640, then NIV 1718, CIV 1550,  
variable. Known to show line  
features.  
NOTE: DETECTOR IN FAST MODE-  
DO NOT EXPECT ON-LINE  
SPECTRUM.



UIT  
Observation Description

1 RA 103.0337 DEC -23.8643 ROLL 284.74  
 2 TIME 946

ID 2302-90  
 NAME EZ-CMA

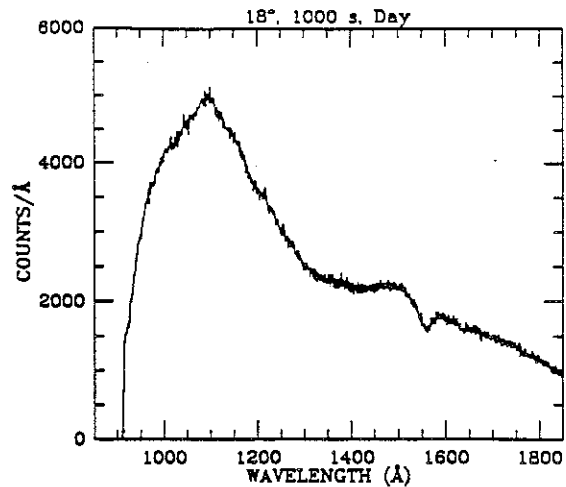


SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	P	H	82	src	sim	8	8	4.5	2	7	1	---	---	---	<del>STATST</del>	PTEST
4	W	134	aut	aut	7	2	5.7	8	6	---	---	---	---	---	VARWRN	
5	U	99	DT	-	T	F	-	-	-	-	-	-	-	-	-	V-BRT
6	U									22	JAC	IMC	BEGIN			
7	U	UAC								23		HUT	ITEM 5			
8	U									24			All BEGIN			
9	U									25	H	HSP	When actual slit pos=7			
10	W									26	H	JAC	ITEM 16 0			
11	W									27		JOB	Observe			
12	H	JAC								28		JAC	All PREVIEW			
13										29	H	HDC	(just prior to QUIT)			
14	H	IST								30	H		ITEM 61 0 (ND6 filt)			
15	H									31	H		Check 6I 0 0			
16	H									32	H	JAC	ITEM 16 I			
17										33			All QUIT			
18		JAC								34						
19	H	IST								35	U		(During slew)			
20	J	JAC								36	U	UAC	*IF next obj not V-BRT			
21	H	TV								37	U		* ITEM 43, Chk Door O*			

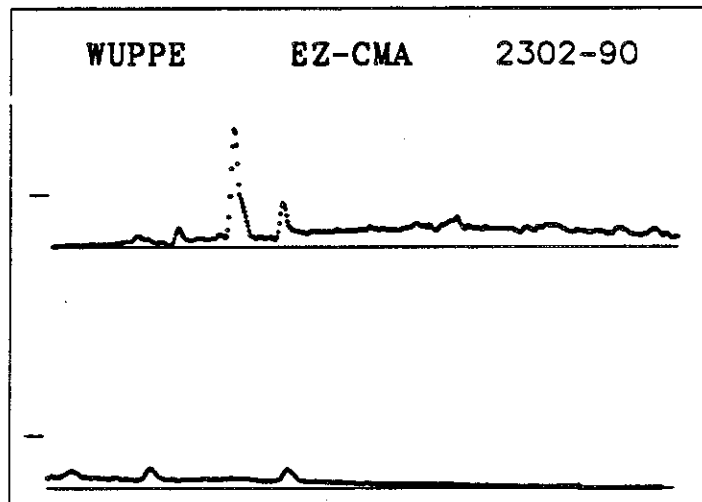
*pressure test*  
 2

*Give crew a heads up*

OBJECT: 2302 EZ-CMA  
KEYWORDS: Wolf Rayet Star  
COMMENTS:  
Observe with 50 cm<sup>2</sup> aperture.  
Any non-airglow em. lines?



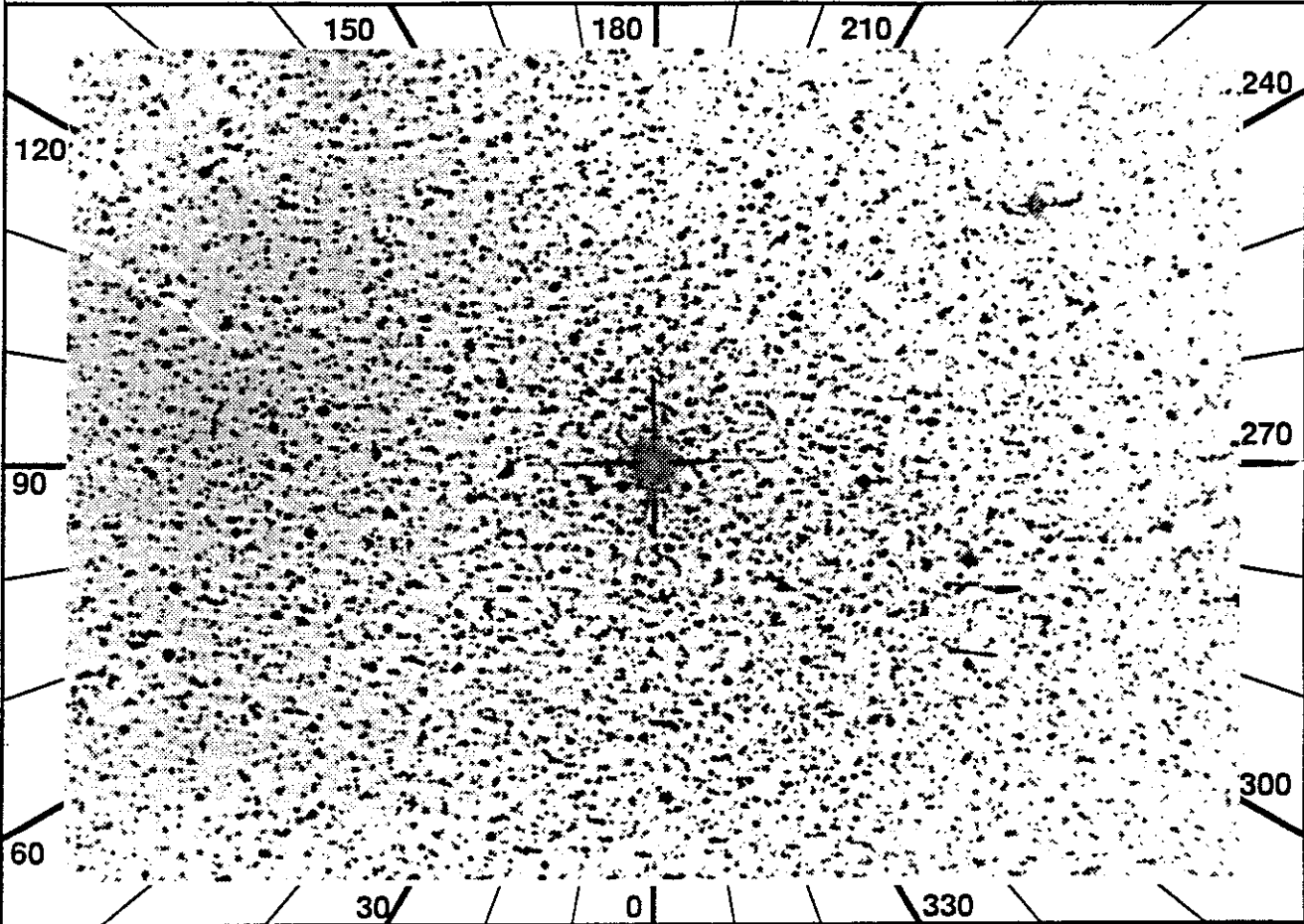
ID: 2302-90  
Names: EZ-CMA IPS-CTA  
Type: WN5+?  
% Pol: ~0.5%  
Pol Var: yes  
Pos Ang: ~150  
Mechanism: e scat, needs high  
S/N for lines, mult epochs  
Comments: P varies with phase,  
.2% < P < .9%, p=3.77d, also longer  
term variations. Binary with  
neutron star companion or  
spotted, rotating single  
star? Strongest emline HeII  
1640, then NIV 1718, CIV 1550,  
variable. Known to show line  
features.  
NOTE: DETECTOR IN FAST MODE-  
DO NOT EXPECT ON-LINE  
SPECTRUM.



UIT  
Observation Description

1 RA 196.2170 DEC -65.0393 ROLL 254.38  
 2 TIME 1942 MANOPS

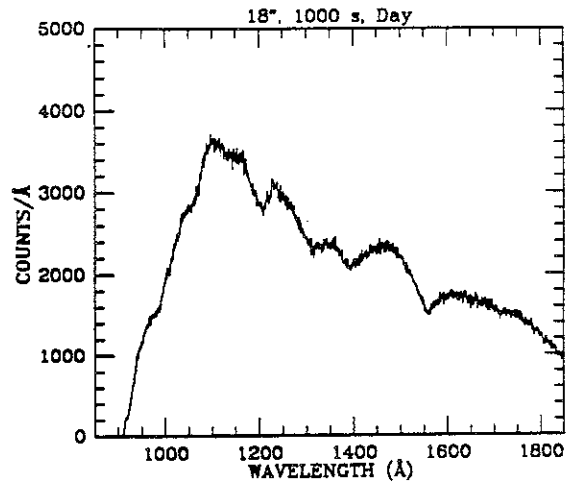
ID 2307-10  
 NAME THT-MUS



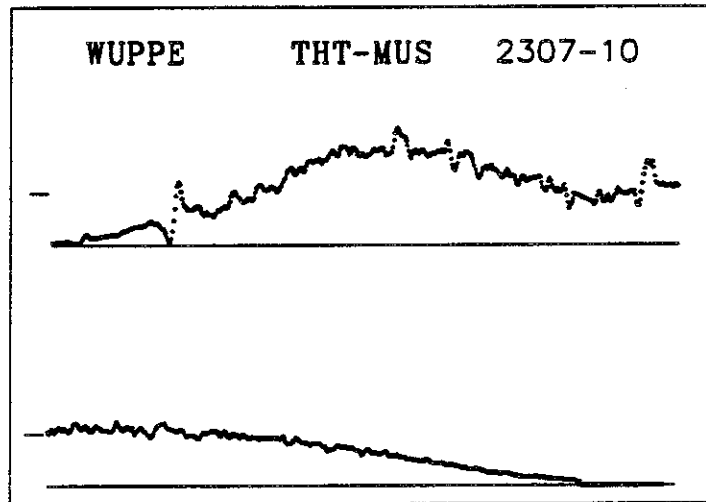
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2
3	H	252	src sim	6	6	4.3	2	7	1	---	---	---	---	---	SM	SAA
4	P	W 135	aut aut	6	3	6.0		8	6	---	---	---	---			
5	U	99	DT -	TF -	-	-	-	-	-	-	-	-	-	-	V-BRT	AS2DF4
6	U		(At beginning of slew)				24	H	-	After SAA exit						
7	U	UAC	*IF UIT Door O*				25	H	JAC	HUT SETUP						
8	U		* ITEM 44, Chk Door C*				26	H		Chk HUT Stat -DET						
9	U		Expect UIT SET,OBS err				27			All BEGIN						
10	I		CMD WRI_3900_F0024E7E				28	H	HSP	When actual slit pos=7						
11	I		CMD WRI_3900_F002517E				29	H	JAC	ITEM 16_0						
12	I		CMD WRI_3900_F0024E81				30		JOB	Observe						
13	I		CMD WRI_3900_F0025181				31		JAC	All PREVIEW						
14	I		NOTE:defect center 12x12				32	H	HDC	(just prior to QUIT)						
15	H	JAC	VIP ON until at obs slit				33	H		ITEM 61_0 (ND6 filt)						
16			Config H W U				34	H		Check 6I_0_0						
17			-----				35	H	JAC	ITEM 16 I_						
18	H	-	Note: Acquisition in SAA				36			All QUIT						
19	JAC		All SETUP				37			-----						
20	J		Chk Stat - -LOC STB				38	I		CMD ISS_3928						
21	H	TV	Verify HUT acq on TV				39	U		(During slew)						
22	JAC		IMC BEGIN				40	U	UAC	*IF next obj not V-BRT						
23			HUT ITEM 5				41	U		* ITEM 43, Chk Door O*						

W-R  
 2

OBJECT: 2307 THT-MUS  
KEYWORDS: Wolf Rayet Star  
COMMENTS:  
Observe with 50 cm<sup>2</sup> aperture.  
Look for em. lines and/or  
P-Cygni stellar wind features.



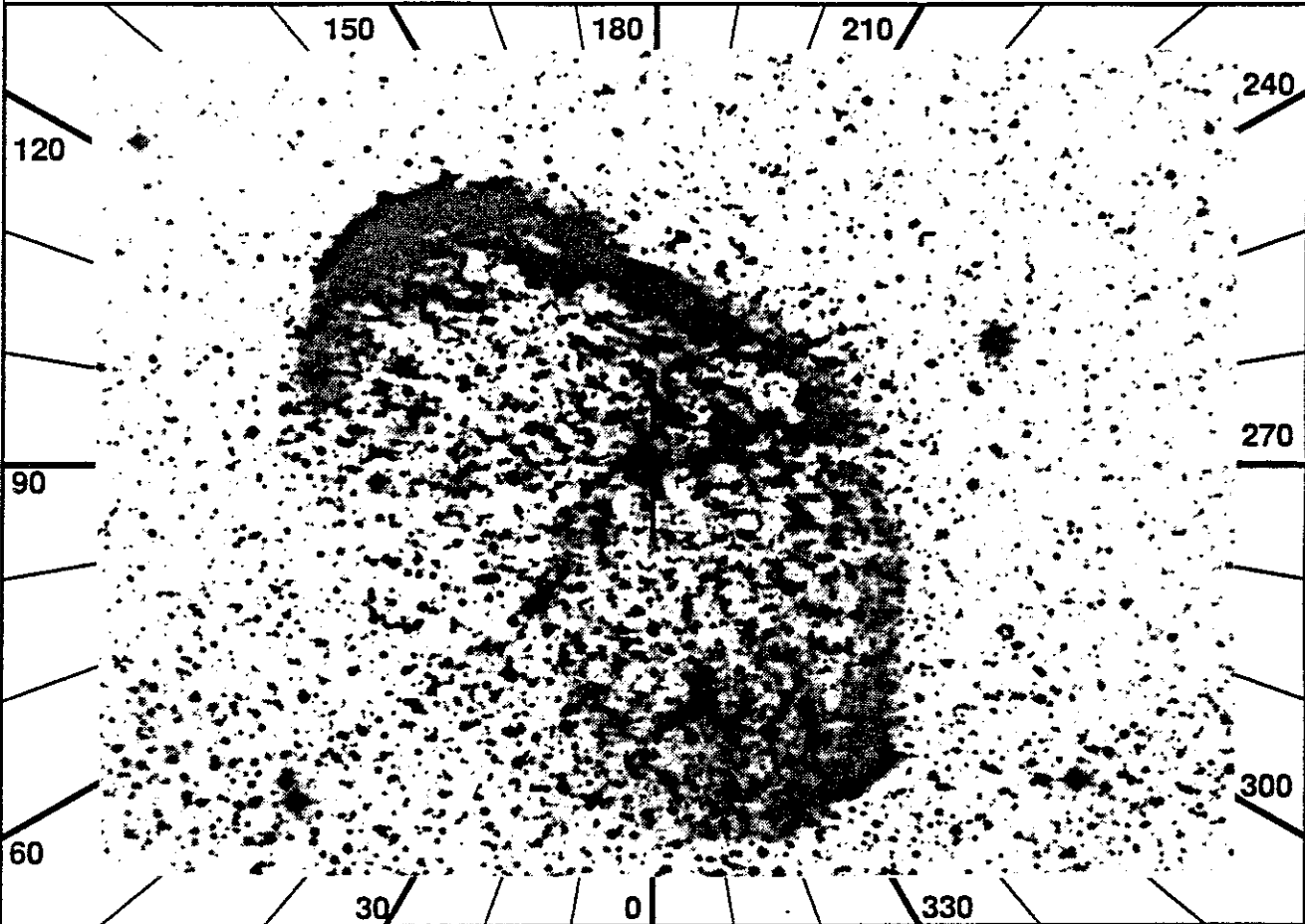
ID: 2307-10  
Names: THT-MUS HD113904  
Type: WC6+O9.5I  
% Pol: ~1.4  
Pol Var: yes  
Pos Ang: 82  
Mechanism: e scat, needs high  
S/N for lines.  
Comments: P varies semi-  
regularly,  $1.4\% < P < 1.6\%$ ,  
 $p=18.34d$ . Variations due to  
blobby O9.5I wind? Strongest  
emlines CIII 2300, CIV 1550,  
SiIV 1400.  
NOTE: DETECTOR IN FAST MODE-  
DO NOT EXPECT ON-LINE  
SPECTRUM.



UIT  
Observation Description

1 RA 302.5711 DEC 38.2040 ROLL 14.40  
 2 TIME 1439

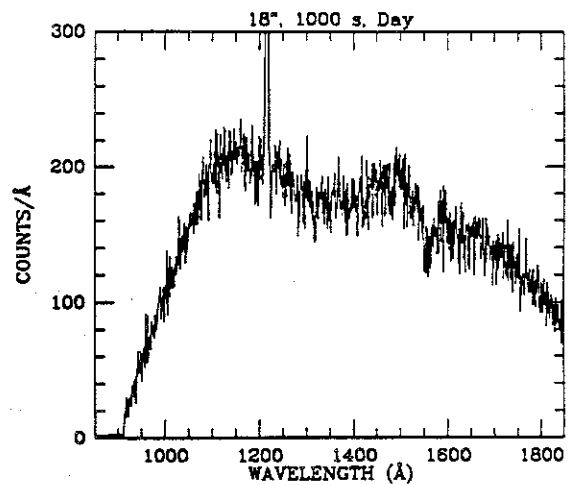
ID 2311-10  
 NAME HD192163



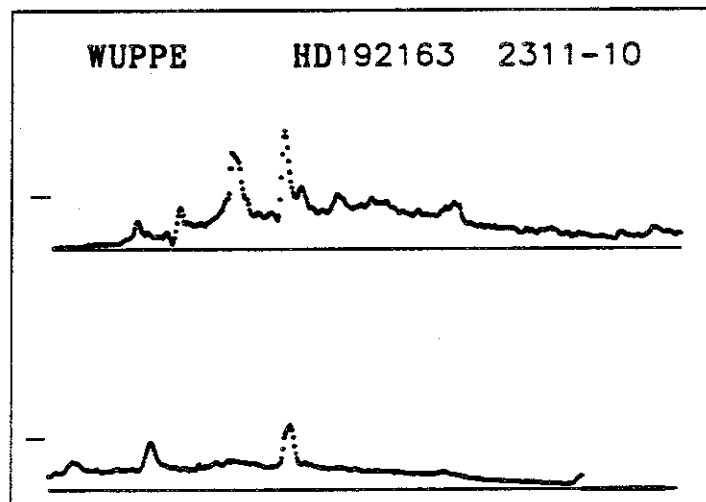
SEQ	LOC	OBS	MAG	LGR	D	A	FM	OF	A	FM	OF	A	FM	OF	ALT1	ALT2	
3	H	163	src	sim	8	8	3.2	2	7	4	---	---	---	---	SMALAP	C LR3	
4	P	W 136	aut	aut	7	5	4.7		8	6	---	---	---	---	VARWRN		
5	U	194	DT	-	T	F	31	a1	31	b1	62	b5	62	a2	62	a5	AS2DFB
6	I		CMD	WRI	3900	F0026667			20	H	JOB	*IF	HUT	LOG	R	< 3	← HOP * ITEM 39_1
7	W		NOTE:	var	tḡ	- adj	tv, sp		21	H	HDC	* ITEM	61	0	(ND6	filt)	
8	W		if	reqd:	WUP	ALT-02,03			22	H		* Check	6I	0_0			
9	H	JAC	VIP	ON	until	at obs	slit		23	H	HOP	* ITEM	42	3	(door	3)	
10			Config	H	W	U			24	H		* ITEM	32	X	(X =	gs mag)	
11			-----						25		JOB	Observe					
12	JAC		All	SETUP					26	JAC	All	PREVIEW					
13	H		Chk	Stat	-	-LOC	RDY		27	H	HDC	(just	prior	to	QUIT)		
14	H	TV	Verify	HUT	acq	on	TV		28	H		ITEM	61	0	(ND6	filt)	
15	JAC		IMC	BEGIN					29	H		Check	6I	0_0			
16			HUT	ITEM	5				30	H	JAC	ITEM	16	I			
17			All	BEGIN					31			All	QUIT				
18	H	HSP	When	actual	slit	pos=7			32			-----					
19	H	JAC	ITEM	16_0					33	I		CMD	ISS_3928				

3

OBJECT: 2311 HD192163  
KEYWORDS: Wolf Rayet Star  
COMMENTS:  
Observe with 50 cm<sup>2</sup> aperture.  
Look for em. lines and/or  
P-Cygni stellar wind features.



ID: 2311-10  
Names: HD192163 WR136  
Type: WN6+?  
% Pol: 1.4  
Pol Var: PBO Lyot stable  
within .1%  
Pos Ang: 176.5  
Mechanism: e scat, needs high  
S/N for lines  
Comments: Strongest emline  
HeII 1640, p=4.5 d.  
Known to show line features.



UIT  
Observation Description