Frame prefix: Sp97h

Telescope: 61"

Date: Dec 19/20 Friday

Focus: —

Iris: 200

Tailpiece:

Balance: 300

Humidity: 95

Temp: 20/22

Sheet #: 1

Observers: Fink, Fenn, Collins

Guidepoint:

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
Dec 19/20	- Friday night - snowed; new accumulation ~ 4"								
	- Looked up both cameras Spec camera bias 1200 noise 16.								
	- next morning (Sat) bias 1300 noise 30 ? (turned off image camera; no difference)								
	- 144 files used 20% available deleted Free 84%								
001	) Both quickly tested with new spectrograph camera								
002	)								
Dec 20 (Sat)	- Did not open except for the above two test exposures - Heavy								
	Cloud cover & high humidity								
Dec 21 (Sun)	- Did not open due to heavy cloud cover & high humidity.								
	Snow accumulation = 10-12".								
Dec 22 (Mon)	- Did not open due to intermittent heavy clouds, haze								
	& high humidity (95% - 100% all night)								

(Note: there is a discrepanc the humidity gauge on the wall by the white board reads 100%.)

Frame prefix: SP97H

Telescope: 61"

Date: Dec 23/24 Tue.

Focus: 3450
Iris: 300
Tailpiece: N-S
Balance: 350

Humidity: 80%

Sheet #: 2

Observers: Fevig, Collins

Temp: 23/16

Guidepoint: 347.1, 395.3

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
X	6:00pm - Heavy clouds at lower elevations. We are waiting for a								
X	dark cloud (heading at us) to pass.								
X	6:30pm - We see condensation on the secondary mirror. We have turned								
X	on all the lights upstairs in the hope it will evaporate (sublime). We								
X	won't open the mirror covers for the primary until the secondary is								
X	free of condensation.								
X	Decided to go to Kowal 2 since Hartley 2's Airmass was already high.								
X	Acquired Kowal 2 @ 3:20. Too dim for spectra (see images). We suspect								
X	condensation on guider camera CCD window... applying heat for ~20 min.								
X	Trying Hartley 2 since Kowal 2 was too dim. Discontinued heating guider camera								
X	CCD window... images have improved somewhat. Did not appear to be frost								
X	on spec. camera CCD window when I did a sample star image								
003	Hartley 2	1200	0.5	—	4:03	22:50:36	-08:25:21.7	2.96→ 3.65	Poor spectrum. May be condensation on window
X	We took the spec camera off to check for condensation... alot of								
X	condensation found. Brought camera to warm room to evaporate condensation								
X	11:40pm - Fog rolled in. Humidity rose. Closed up quickly.								
Dec	24/25 - Did not open due to cloud cover, snow, and high humidity								

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Telescope: 61"

Sheet #: 3

Frame prefix: SP97H

Date: Dec 25/26 Thur

Focus:
Iris: 300
Tailpiece: N-S
Balance: 350

Humidity: 70%

Temp: 6°/12°

Guidepoint:

Observers: Fevig, Collins

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
X	Blowing snow, high humidity + haze did not allow us to								
X	open (Dec 25/26).								

Frame prefix: TI974

Telescope: 61"

Date: Dec 23/24 Tue.

Focus: 3450
Iris: 300
Tailpiece: N-S
Balance: 350

Humidity: 80%

Sheet #: 1

Observers: Fevig, Collins

Temp: 23/16

Guidepoint: 347.1, 395.3

Exp. #	Object	Exp. time	Filter (slit)	Counts: Peak/Phot	UT time Start	RA α	Dec δ	SecZ	Comments: seeing, moon, LHA, VME crashes, clouds, etc.
001	Kowal 2	120	B/Di		~3:20	23:20:38	+06:39:28.0	1.47	opened at UT 2:26 (7:30 local time) seeing ~3-4arcsec. Double images in image.
002	" "	"	"						
003	" "	"	"	too low to measure	~3:40				
004	Hartley 2	60	"	1411	~4:09	22:50:37	-08:25:17	3.22	
005	"	"	"	1419	~4:12	"	"	3.31	
006	"	"	"	1467	~4:14			3.[illegible]	