

17	COO7539	UT	α	δ	
1		15 47 50	15 35 02.30	3 50 30.6	B quad
2		15 48 10		40.5	
3		15 48 30		50.5	
4		15 48 50			

18	COO7540	1	15 52 10	-3 50 30.5	B quad
		2	15 52 30	40.4	
		3	15 52 50	50.4	
		4	15 53 10	00.4	

Drive off Start twilight flats

19	COO7541	15 57 40	15 57 HA	- 3 51 00.4	100s
			MM 00 28 45.28		
		row 512	~ 26000		

20	COO7542	50s	row ~ 23K	16:08:33	
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21	COO7543	25s	row ~		
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change to R. Turn dome light on

22 COO7544 to 24 COO7546 dome flats in R @ 1.6s

25 7547-27 7549 dome flats in ~~15~~ @ 6.0s

28 (7548) - 30 (7550) dome flats in B @ 30s
crash during 7548

Space constraints in /usr2/scr/obs-4/analdir/192Feb28.
Can't keep all of last night's data in the
scratch parts here at once.
Look at midas frames now, so we don't have
to keep them around.

DARK 1080 sec (18min)

checking exposure times

7534

B filter 60 sec exposure

PEAK

9264

12th mag.

60^{sec} 15 fine

B filter

"

4476

P

7535

V filter

12th mag

PEAK = 3999

10 sec exp. → should use 20 sec on V

FWHM = 5.72

P

PEAK = 1487

7537

R filter

12th mag

PEAK = 6869

5 sec exp → use 10 seconds

P

PEAK = 2048

7538

I filter

12th mag

PEAK = 29550

FWHM = 3.95 SKY = 7055

(10 sec exp)

USE 10 sec

P

PEAK = 6865

FWHM = 3.94 SKY = 6823

13th

PEAK = 11171

FWHM = 3.95 SKY = 6844

7540

(20 min after twilight)

I filter

12th

PEAK = 19208 FWHM = 4.66 SKY = 9423

flattening 7537

7534

steps

① - ⑥

pp. 19-20

R filter

mean = 6083 6076

step ①

mean = 6101

step ⑤

→ no starfish.

CAN DO SOME FLAT ON R

University of Hawaii Telescopes on Mauna Kea

OBSERVING LOG

Observer(s): *ELL 1027, THOLEN, Young*Observing dates: *92 feb 28*Page: *1 of 2*Telescope: *88"*Operator: *Frank Cheigh*Program Title: *Individual Densities of B & Charon*Instrumentation: *TEK 1024² / 8B/F5*

Tape:

Seq.	Frame Numb.	Exp. (Sec.)	UT start of 1 st exp. Airmass	R.A. Dec (1950)	Object Description filter	Comments	Comments
1	7523	10x7	13 37 42		focus B field B	1 st 2 times approx.	
2	7524	20x7 4	13 55 00 1.077	15:20:12.57 07 51 43	midas para quad	B	pointing check Midas moving #2 was 5 sec late SE. focus 4930
3	7525	20x4	14 03 00 1.069	15:20:12.55 07 51 42.3	midas quad	B	
4	7526	20x4	14 10 00 1.061	15 20 12.46 07 51 42.5	midas quad	B	#4 was 1/2 sec late?
5	7527	20x4	14 18 00 1.052	15 20 12.44 07 51 43.4	midas quad	B	
6	7528	20x4	14 25 00 1.044	15 20 14.4 07 51 43	midas quad	B	1/2 way across chip. #3 blended w/ star
7	7529	20x4	14 32 00 1.039	15 20 14.4 07 51 43	midas quad	B	
8	7530	20x4	14 40 00 1.033	15 20 12.25 07 51 43.5	midas quad	B	
9	7531	60x4	14 48 15 1.109	15 35 02.7 -3 50 31.6	B quad	B	
10	7532	60x4	14 55 55 1.109	15 35 02.7 -3 50 31.5	B quad	B	
11	7533	60x4	15:04:55 1.098	15 35 02.7 -3 50 31.3	B quad	B	
12	7534	60x4	15:13:10 1.098	15 35 02.7 -3 50 31.2	B quad	B	
13	7535	10x4	15:21:00 1.094	15 35 02.3 -3 50 30.9	B quad	V	Shapes not as round as in B. Possibly due scaling on TV display
X 14	7536	10x4	15:25:30 1.094	15 35 02.3 -3 50 30.9	B quad	V	Not all saved. Ch reboot during readout
15	7537	50x4	15:38:40	15 35 02.3 -3 50 30.9	B quad	R	
16	7538	10x4	15:47:25 1.096	15 35 02.3 -3 50 30.5	B quad	I	
17	7539	10x4	15:47:50	15 35 02.3 -3 50 30.6	B quad	I	
18	7540	10x4	15:52:10 1.099	15 35 02.3 -3 50 30.5	B quad	I	
19	7541	100	15:57:40 1.099	HA 0 28 45 -3 50 00.4	sky flat	I	Drive off but stars still evident
20	7542	50	16:03:36 -	HA 0 28 45 dec -3 50 00.4	sky flat	I	

[illegible]

OBSERVING FEB 29

Midas ~4:15

Separation + orientation 14:00 .59" = 2.7 pix

16:00 .647" = 2.9 pix

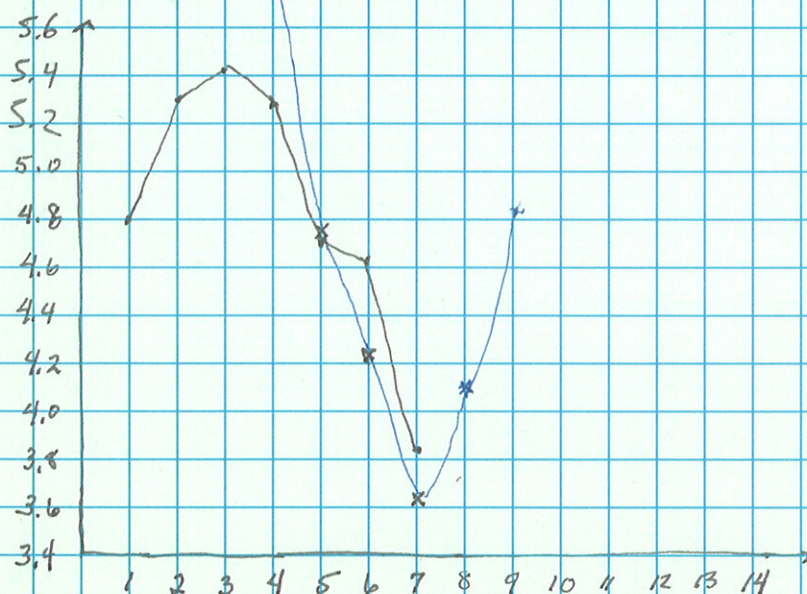
4930 old focus

C00 7585 is Alan's file

Focus

1	C00 7586 C00 7868	focus	UT / watch			PA	ELL	FWHM	
	1	4885	13	31	45	-88	.076	4.81	
	2	4900	13	32	15	-39	.021	5.34	
	3	4915	13	32	40	27	.074	5.43	
	4	4930	13	33	05	88	.081	5.27	
	5	4945	13	33	30	-49	.136	4.71	
	6	4960	13	34	00	-90	.089	4.66	
	7	4975	13	34	25	and 5	3	51 38	-10 .061 3.86

C00 7587	1	5005	13	40	15	-53	.064	4.84
	2	4990	13	40	43	-82	.135	4.16
	* 3	4975	13	41	07	-42	.034	3.65
	4	4960	13	41	30	-49	.036	4.22
	5	4945	13	41	54	-32	.001	4.73
	6	4930	13	42	18	84	.097	5.85
	7*	4915	13	42	40	-78	.044	6.14



13 53 10

