

3 C007588

	UT	α	δ	1950, from TV display
1	13 52 00		-3 50 35.8	
2	13 53 10		-3 50 45.8	
3	13 54 20	15 34 59.88	-3 50 55.7	Pluto quad
4	13 55 30	-3 50 55.7	-3 51 05.6	

4 C007589

	UT	α	δ	B quad
1	14 00 00	15 34 59.81	-3 50 35.4	
2	14 01 10	15 34 59.79	-3 50 45.3	
3	14 02 20	15 34 59.78	-3 50 55.3	
4	14 03 30	15 34 59.77	-3 51 05.3	

change to .0047 North track rate, to compensate for drift

5 C007590

	UT	α	δ	
1	14 04 45	15 34 59.75	-3 50 30.0 ?	
2	14 08 55	15 34 59.74	-3 50 42.7	
3	14 10 05	15 34 "	-3 50 52.4	
4	14 11 15	15 34 "	-3 51 02.1	

ra rate looks pretty good. reset δ rate to what it was -

6 C007591

	UT	α	δ
1	14 15 35	15 34 59.71	-3 50 34.0
2	14 16 45	15 34 59.71	-3 50 43.9

Move to Midas

7 C007592

	UT	α	δ	
1	14 21 05	15 26 35.97	+6 06 19.0	Not saved. Pointing check

df 174038 12
start autoguiding

7 C007592

	UT	α	δ	Midas quad
1	14 24 20	15 26 35.97	06 06 08.1	
2	14 25 20	"	"	
3	14 26 20	"	"	
4	14 27 20			

[New ftp procedures here : do an ftp then → halley
~ one second after Dave says "mark," so we know the computer got Jim's carriage return

8 C007593

	UT	α	δ
1	14 31 25	15 26 37.10	06 06 09.1
2	14 32 25		
3	14 33 25		
4	14 34 25		

Reading out done in bin-by-bin mode
/dev /ca: 1 / 0 error

reset looping

FATAL ERROR. OUTPUT FILE MAY BE CORRUPTED.

Simultaneous w/
an ftp

			UT	α	δ	
8	7594	1	14 48 40	15 26 36.98	+6 06 07.9	Midas quad
		2	14 49 40			
		3	14 50 40			
		4	14 51 40			

clock's been reset on trex - the header's time should be close

9	7595	1	14 55 00	15 26 36.98	6 06 08.1	
		2	14 56 00			
		3	14 57 00			
		4	14 58 00			

antigrader's doing it's job.

10	7596	1	15 01 55	15 26 36.84	6 06 08.4	
		2	15 02 55			
		3	15 03 55			
		4	15 04 55			

trex all fixed to kepler + cleaned out.

11	7597	1	15 08 10			
		2	15 09 10			
		3	15 10 10			
		4	15 11 10			

12	7598	1	15 16 19	exp 10		
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13	7599	1	15 20 10.5	}	15 35 01.07	-3 50 30.3
		2	15 21 20			
		3	15 22 30		15 35 01.07	-3 50 40.3
		4	15 23 40			
		5	15 24 50		15 35 01.04	-3 51 00.2

V FILTER

14	7600	1	15 29 16	15 35 00.93	-3 50 30.0	
		2	15 29 46		-3 50 40.1	
		3	15 30 10		-3 50 50.1	
		4	15 30 45		-3 51 00.1	

15	7601	1	15 34 25	15 35 00.85	-3 50 30.8	
		2	15 34 55		40.8	
		3	15 35 25			
		4	15 35 55		00.8	

change to R2 filter

										α				δ
16	7602		1	15	39	35		15	35	00.82	-3	50	30.7	
			2	15	39	55		15	"		-3	50	40.7	
			3	15	40	20		15	"		-3	50	50.7	
			4	15	44	40		15			-3	51	00.7	

I think this should be 40 (cho)

17	7603	1	15 44 10	15 35 00.77	-3 50 30.7
		2	15 44 30	15 35 00.75	-3 50 40.6
		3	15 44 50	15 35 00.75	-3 50 50.6
		4	15 45 10	15 35 00.75	-3 51 00.6

Change to I

18	7604	1	15 48 45	15 35 00.80	-3 50 30.6
		2	15 49 03	.79	40.5
		3	15 49 25	.79	50.5
		4	15 49 45	.79	51 00.5

19	7605	1	15 53 35	15 35 00.74	-3 50 30.5
		2	15 53 55		40.5
		3	15 54 15		50.5
		4	15 54 35		51 00.4

last night I: last tracked in 15:52 7540

sky 9.4K peak 19K

20	7606	1	15 58 15	15 35 00.69	-3 50 30.4
		2	15 58 35		40.4
		3	15 58 55		50.4
		4	15 59 15		51 00.4

now 512 sky + bias ~ 15K

21	7607	1	16 03 30	15 35 00.64	-3 50 30.43
		2	16 03 55		-3 50 40.3
		3	16 04 10		50.3
		4	16 04 30		00.4

16 08 00

25s.

Drive 0 ft.

22 7608

Flats, for the next.

25K sky + bias

Winds 9-12 mph.

Clear sky.

23	7609	1	16 12 35	15 s.exp.	30 K
24	7610	1	16 16 42	8 sec exp.	29 K

University of Hawaii Telescopes on Mauna Kea

OBSERVING LOG

Observer(s): *Elliot, Tholen, Young, Gilbert*
 Telescope: *88"*
 Program Title:

Observing dates: *1992 Feb 29*
 Operator: *Frank*
 Instrumentation:

Page: *1 of 2*
 Tape:

Seq.	Frame Numb.	Exp. (Sec.)	UT start Airmass	R.A. Dec (1950)	Object Description	Comments	Comments
1	7586 <i>7588</i>	10x7	13:31:45		focus on E field	B	focus frame offset 10" S
2	7587	10x7	13:40:15		focus on E field	B	offset 10" N
3	7588	60x4	13:52:08 1.191	15 34 59.98 -3 50 35.18	B quad	B	focus 49.75 at
4	7589	60x4	14:00:00 1.175	15 34 59.81 -3 50 35.4	B quad	B	
5	7590	60x4	14:07:45 1.159	15 34 59.75 -3 50 30.0	B quad	B	
6	7591	60x2	14:15:35 1.147	15 34 59.71 -3 50 34.0	B pair	B	
7	7592	20x4	14:24:20 1.054	15 34 35.97 +6 06 08.1	Midas quad	B	midas on N edge.
8	7594	20x4	14:48:40 1.035	15 26 36.92 6 06 07.9	midas quad	B	midas right in the middle
9	7595	20x4	14:55:00 1.033	15 26 36.92 6 06 08.1	midas quad	B	
10	7596	20x4	15:01:55 1.031	15 26 36.84 6 06 08.4	midas quad	B	#1 may be slow
11	7597	20x4	15:08:10 1.030	15 26 36.8 6 06 08.9	midas quad	B	#1 may be slow made it on frame
12	7598	10	15:06:19	15 26 39 -6 06 09	midas	B	# 121024 540 star in frame 190" Not lost frame
13	7599	60x5	15:20:10.5	15 35 01.07 -3 50 30.3	B "quad"	B	#1 and #2 AT SAME POS'N #1 may be late. 5 exposures taken
14	7600	20x4	15:29:10	15 35 00.93 -3 50 30.0	B quad.	V	
15	7601	20x4	15:34:25 1.093	15 35 00.85 -3 50 30.7	B quad	V	
16	7602	10x4	15:39:35	15 35 00.82 -3 50 30.7	B quad	R	
17	7603	10x4	15:44:40 1.094	15 35 00.77 -3 50 30.7	B quad	R	
18	7604	10x4	15:48:45	15 35 00.80 -3 50 30.6	B quad	I	
19	7605	10x16	15:53:35	15 35 00.14 -3 50 30.5	B quad	I	
20	7606	10x4	15:58:15	15 35 00.69 -3 50 30.4	B quad	I	

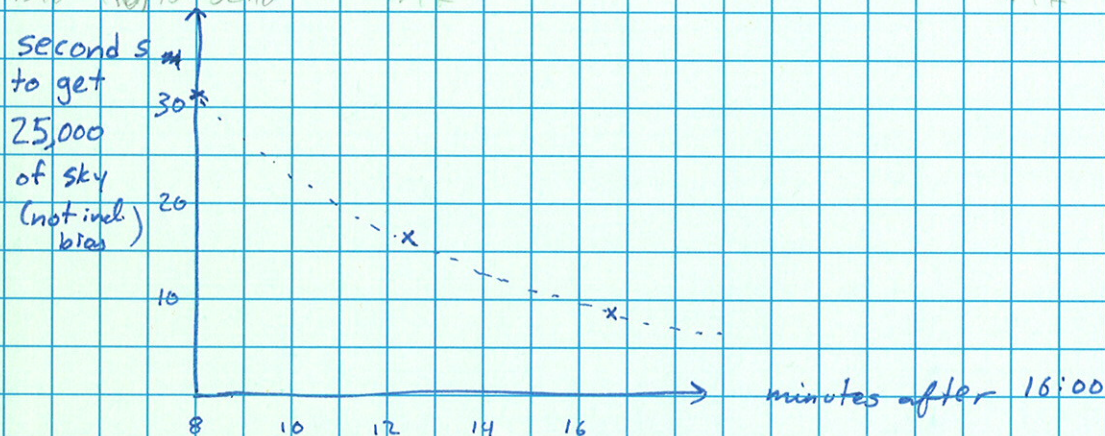
OBSERVING LOG

Tape:

[illegible]

Sky levels for I flats

file	start time (exposure)	ADU/pix sec (incl bias)	(ignore this column)	sky $\bar{x}$ 6000	sky/sec	sky/sec + bias	time for 25K of sky
7608 (25)	16:08	2.6×10^4	1.04×10^3 /pix/sec	2.0×10^4	$.8 \times 10^4 = 8K$	14K	31s
7609 (15)	16:12:35	2.9×10^4	1.9×10^3 /pix/sec	2.3×10^4	1.5K	6.5K	177s
7610 (8)	16:16:42	2.8K		2.2K	2.8K	8.8K	9s
7540 (40)	15:52:10	9.4K		3.4K	.085K		291 = 5m



Looking at an R frame 7603

which 12 mag has the lowest FWHM? 1 4.42 2 4.39 3 4.59 4 4.77

Contour plots of 12 mag #2 843,375 & B#2 476,234

roughly:

similar to the eye.

Is the PSF the same over the chip?

#223 17.5 mag NE corner look at 2nd exposure

Star#	Mag	location	e	PA	FWHM	PA $\bar{e}$	PA	FWHM
#223	17.5	NE corner	.172	-24	4.42			
#220	15.0	NE corner	.102	-28	4.38	.125	-28.6	4.44
#215	15.5	N, ^{mid} near B	.101	-34	4.53			
# ?		SE (800,893)	.107	-28	4.23	.086	-38	4.26
#218	15.9	SE	.065	-48	4.29			
#202	13.3	SW	.089	-37	4.36			
#203	13.1	SW	.114	-30	4.55	.095	-33	4.43
#206	12.4	SW	.082	-33	4.39			