

338 658 (391, 720)
(389, 715) (396, 710)

41

Special things for tomorrow (MARCH 2)
unloading filter slide

make sure data is on exabyte
tar ~/stockton/nt39d

24 7695 sky flat, I filter, exp. 11 sec,
16:15:05

Reboot so halley can communicate
with trex

change to R filter

25 7696 dome flat R filter 1.6 sec

26 7697 dome flat R filter 1.6 sec

27 7698 " " 1.6 sec

FILTER CHANGE

28 7699 dome flat I filter 10 sec

29 7700 " I filter 6

30 7701 " I " 5

FILTER CHANGE

31 7702 dome flat V filter 6 sec

32 7703 dome flat V filter 6 sec

33 7704 dome flat V filter 6 sec

3 FILTER CHANGE TO B

34 7705 dome flat B filter 30 sec

35 7706 dome flat B filter 30 sec

36 7707 dome flat B filter 30 sec

} all saturated
we used I
when we wanted
V.

University of Hawaii Telescopes on Mauna Kea

OBSERVING LOG

Observer(s): *Elliot, Tholen, Young, Sybert*
 Telescope: *88"*
 Program Title: *Individual Densities*
of P & Charon

Observing dates: *Mar 1*Page: *1*Operator: *Frank*Instrumentation: *Tek 1024x1024*

Tape:

Seq.	Frame Numb.	Exp. (Sec.)	UT start Airmass	R.A. Dec (1950)	Object Description	Comments	Comments
1	7672	10x7	13:37:40		focus	B	up in focus offset 10" S
23	7674	60x4	13:58:20 1.166	15 35 00.2 -3 50 32.3	R quad	B	offset 10" N
32	7673	10x7	13:46:20		focus	B	offset 10" N
4	7675	60x4	14:06:20 1.152	15:35:00.12 -3:50:32.2	R quad	B	
5	7676	20x4	14:20:15 1.073	15:33:41.10 04:09:58.0	Midas quad	B	
6	7677	20x4	14:27:00 1.066	15:33:41.1 04:09:58.5	Midas Quad	B	
7	7678	20x4	14:33:50 1.059	15:33:41.04 04:09:58.8	Midas quad	B	
8	7679	20x4	14:41:00 1.053	15:33:41.04 04:09:58.1	Midas quad	B	ERROR WHILE ACQ (READOUT) FILE NOT COMPLETE.
9	7680	20x4	14:48:30 1.046	15:33:40.95 04:09:58.8	Midas quad	B	
10	7681	20x4	14:54:50 1.045	15:33:40.89 04:09:58.9	Midas quad	B	
11	7682	20x4	15:01:40 1.042	15:33:40.78 04:09:57.1	Midas quad	B	
12	7683	60x4	15:11:05 1.094	15:35:00.58 -3:50:29.9	R quad	B	DOME MOVED TO REDUCE WIND
13	7684	60x4	15:18:35 1.094	15:35:00.5 -3 50 29.8	R quad	B	
14	7685	60x4	15:26:00 1.094	15:35:00.42 -3 50 29.7	R quad	B	
15	7686	20x4	15:33:41 1.094	15 35 00.33 -3 50 29.5	R quad.	V	
16	7687	10x4	15:39:00 1.097	15 35 00.27 -3 50 39.4	R quad	R	
17	7688	10x4	15:43:35 1.100	15 35 00.22 -3 50 "	R quad	I	
18	7689	10x4	15:47:40 1.101	15 35 00.17 -3 50 29.2	R quad	I	
19	7690	10x4	15:52:30 1.103	15:35:00.12 -3:50:29.2	R quad	I	
20	7691	10x4	15:57:05 1.103	15:35:00.07 -3:50:29.1	R quad	I	

University of Hawaii Telescopes on Mauna Kea

OBSERVING LOG

Observer(s): Elliot, Tholen, Young, Sybert

Observing dates: Mar 1

Page: 2 of 2
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Telescope: 88"

Operator: Frank

Program Title: Individual Densities of B & C
Charon

Instrumentation: TEK 1024x1624

Tape:

Seq.	Frame Numb.	Exp. (Sec.)	UT start Airmass	R.A. Dec (1950)	Object Description	Comments	Comments
21	7692	10x4	16:02:05 1.103	16:02:05 15:35:00.01	E quad	I	
22	7693	35	16:06:50		sky flat	I	
23	7694	20	16:06:15		sky flat	I	
24	7695	11	16:15:05		sky flat	I	
25	7696	1.6			dome flat	R	
26	7697	1.6			dome flat	R	
27	7698	1.6			dome flat	R	
28	7699	10			dome flat	I	should be 6 sec. saturated
29	7700	6			dome flat	I	saturated
30	7701	5			dome flat	I	saturated
31	7702	6			dome flat	V	
32	7703	6			dome flat	V	
33	7704	6			dome flat	V	
34	7705	30			dome flat	B	
35	7706	30			dome flat	B	
36	7707	30			dome flat	B	

March 2

sky levels for T filter flats (sky flats)

file	exp	time	sky	sky - bk	sky/sec	time for 25k sky
7693	35	16:06:50	34 K	28 K	.8 K/s	31 s.
7694	20	16:11:15	34 K	28 K	1.4 K/s	18 s.
7695	11	16:15:05	32 K	26 K	2.36 K/s	11 s

Looks like Leslie's cheat sheet but one if the time is one minute later. Because twilight ~ 1 min earlier.

March 2, 1992 Observing

Midas ~ 4138

filters blown off before 1st observers
wind > 30

1 C007754

offset 10¹¹s

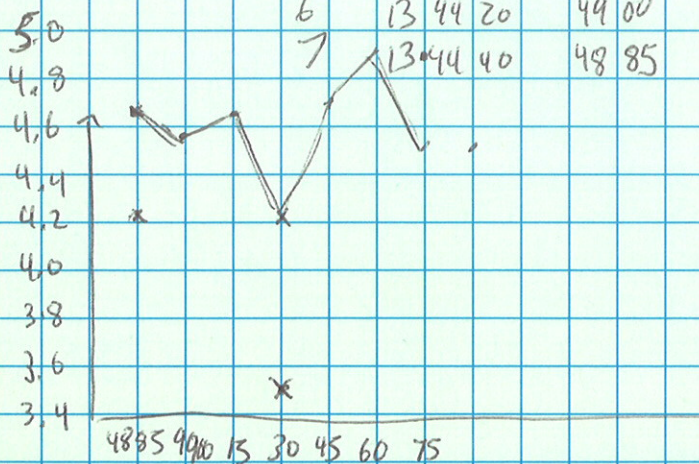
FOCUS FRAME

1	13 34 00	4931	4.22
2	13 35 10	4985	4.66
3	13 35 33	4900	4.57
4	13 36 00	4913	4.64
5	13 36 25	4930	3.50
6	13 36 50	4945	4.72
7	13 37 25	4960	4.89
8	13 37 50	4975	4.53

Flare off

2

1	13 41 55	4975	4.9
2	13 42 25	4960	5.2
3	13 42 55	4945	4.88
4	13 43 30	4930	3.82
5	13 43 55	4915	3.72
6	13 44 20	4900	3.52
7	13 44 40	4885	5.01

offset 10¹¹ N

3915

March 2

DOME OFF

Pluto Quad		(60 sec ^{exposure} x 4)		Blue Filter		δ (1950)	
3	cφφ 7756	1	13:50:50	15 34	56.66	-3:50:21.3	1.175 Air mass
		2	13:52:00		56.64	31.2	
		3	13:53:10		56.63	41.2	
		4	13:54:20		56.62	51.2	

Least wind shake should be early (now)

Pluto Quad		(60 x 4 sec exposure)		Blue			
4	cφφ 7757	1	13:58:40	15 34	56.57	-3 50 21.1	1.172 Air mass
		2	14:00:00		56.55	31.1	(ftp was still running)
		3	14:01:10		56.54	41.0	
		4	14:02:20		56.52	51.0	

Pluto Quad 60 sec exposures Blue

5	C007758	1	14:07:20	15 34	56.47	-3 50 21.0	1.172 air mass
		2	14:08:35	15 34	56.45	-3 50 30.9	
		3	14:09:45		56.44	40.9	
		4	14:10:55		56.42	50.9	

Pluto Quad 60 sec exposures each Blue

6	C007759	1	14:15:30	15 34	56.37	-3 50 20.8	
		2	14:16:40		56.36	30.8	1.172
		3	14:17:50		56.34	40.7	
		4	14:19:00		56.33	50.7	

Wait slows ftp to > 60 seconds (w/69) → so when ftp ing during an exposure don't type wait. • looks like bkgrd is brighter
update dome. maybe a dome cut

Pluto Quad 60 sec exposures B filter

7	C007760	1	14:23:20	15 34	56.28	-3 50 20.7	1.126
		2	14:24:30	15 34	56.27	-3 50 30.6	(airmass from monitor)
		3	14:25:40		56.25	40.6	
		4	14:26:50		56.24	50.7	

Don't Trust Airmass from Monitor

~~Photo~~ Filter Change to V

Photo Quad V Filter 20 second exposure time

8	C007761	1	14:31:25	15 34	56.19	-3 50	20.5	1.115
		2	14:31:55		56.18		30.5	
		3	14:32:25		56.17		40.5	
		4	14:32:55		56.17		50.5	

Change filter back to B to do Midas

Move to Midas: DOME ON.

~~Midas Quad B filter 20 exp every minute.~~

9 C007762

1
2
3
4

Test exposure - field looks good

start guiding

Midas Quad B filter 20 sec exp

9	C007762	1	14:39:45	15 41	39.09	01 54	42.4	
		2	14:40:45	15 41	40.01	01 54	42.4	
		3	14:41:45		39.96		42.3	1.068
		4	14:42:45		39.99		42.5	

Midas ~~Q~~ not visible in 7762, it should move into frame in next image.

Midas Quad B 20 sec exp.

10	C007763	1	14:46:15	15 41	39.94	01 54	42.9	1.065
		2	14:47:15		39.92		43.0	
		3	14:48:15		39.90		42.5	
		4	14:49:15		39.89		42.5	

Got 3 Midas in 7763