

UT Date	2005 July 5	University of Maryland / Kitt Peak National Observatory		Weather, Moon, Notes
Page #	1 15	Observing Log		Clean at sunset
Night #	4	CCD Characteristics		Summit @ 2:40 UT
Telescope	KPND 4M	Gain: 3e/APU		
Observer	FARHAM, LI	Read Noise: 6e- ⁿ		
Assistant	ED EASTBURN	LINEAR TO: 20K		
Inst. / CCD	MOSAIC	READ TIME: 156 sec		
		Pixel Scale		0.26
		Filters		
1	V	5	CN	
2	R	6	C3	
3	OH	7	BC	
4	UC	8	C2	
		9 RC		10 COT

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Comments
6-10	DOME FLAT R	:	:	Shipped 1-5 (inst prot. didn't read numbers)	:	:	12	R	LOW LAMP @ 53V
11-15	DOME FLAT CN	:	:	:	:	:	20	CN	HIGH LAMP @ 53V
16-20	DOME FLAT BC	:	:	:	:	:	5	BC	"
21-25	DOME FLAT GC	:	:	:	:	:	10	GC	HIGH LAMP @ 33V
26-30	DOME FLAT C2	:	:	:	:	:	6	C2	
31-35	BIAS	:	:	:	:	:			
36	FOCUS NARROW BAND	:	:	:	:	:	9x20sec	BC	Bad @ -11900
37	FOCUS BROADBAND	:	:	:	:	:	9x10sec	R	Best @ -10450
38	Comet Tempel 1	13:34:08	-9:59:40	2000	3:54:09	1.507	180	R	38 pix = 1"
39	"	:	:	:	4:00:20	1.531	180	R	Saturated
40	"	:	:	:	4:10:10	1.571	600	CN	"
41	"	:	:	:	4:27:44	1.657	600	BC	
42	"	:	:	:	4:44:42	1.763	180	R	Saturated center
43	"	:	:	:	4:57:39	1.814	120	R	good
44	"	:	:	:	4:58:54	1.873	600	CN	

UT Date 2005 July 5	University of Maryland / Kitt Peak National Observatory		Weather, Moon, Notes photometric
Page # 2 / 5	Observing Log		
Night # 4	CCD Characteristics		Pixel Scale 0.26
Telescope KPN0 4M	GAIN: 3e/APU		
Observer FARNHAM, LI	READ NOISE: 6e		
Assistant ED EASTBURN	LINEAR TO: 20k		
Inst. / CCD MDSAIL	READ TIME: 156 sec		
	Filters		
	1: V	5: CN	
	2: R	6: C3	
	3: OH	7: BC	
	4: UC	8: C2	

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Comments
45	Comet Tempel 1	13:39:08	-9:59:40	2000	05:12:27	1.999	600	BC	
46	"	:":	:":	"	05:28:11	2.181	120	R	
47	"	:":	:":	"	05:33:23	2.252	120	R	
48	"	:":	:":	"	05:41:40	2.380	600	C2	
49	"	:":	:":	"	05:55:22	2.629	600	GC	
50	"	:":	:":	"	6:10:10	2.984	600	CN	
51	"	:":	:":	"	6:23:50	3.420	180	R	
52	"	:":	:":	"	06:30:02	3.680	220	R	
53	HD 120086	13:46:56	-2:30:46	2000	06:43:13	3.065	1	GC	Defocused @ -11:00
54	"	:":	:":	"	06:46:40	3.170	2	GC	"
55	"	:":	:":	"	06:50:32	3.307	1.5	C2	"
56	"	:":	:":	"	06:53:46	3.433	2	BC	"
57	"	:":	:":	"	06:57:41	3.599	2	CN	"
58	Comet Machholz	13:19:33	30:59:41	2000	07:08:18	2.414	180	R	
59	"	:":	:":	"	07:15:08	2.545	180	R	

UT Date	2005 July 5	University of Maryland / Kitt Peak National Observatory		Weather, Moon, Notes
Page #	3 / 5	Observing Log		Photometric
Night #	4	Filters		
Telescope	KPND 4m	1: V	5: CN	Pixel Scale
Observer	FARNHAM, LI	2: R	6: C3	0.26
Assistant	EP EASTBURN	3: OH	7: BC	
Inst. / CCD	MOSAIC	4: WC	8: C2	
		CCD Characteristics		
		GAIN: 3e/APU		
		READ NOISE: 6e		
		LINEAR TD: 20K		
		READ TIME: 156 sec		

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Comments
60	Comet Machholz	13:19:33	30:59:41	2000	07:23:56	2.737	900	CN	
61	"	:	:	"	07:43:46	3.299	"	"	Lost tracking @ 854.75 sec - STOP
62	PG 1528 + 062	15:30:26	5:57:09	2000	08:13:00	2.235	2	R	Saturated (lose to
63	"	:	:	"	08:16:43	2.298	1.5	R	
64	"	:	:	"	08:20:57	2.371	1.5	"	
65	107-215 Landolt	15:38:34	0:47:34	2000	08:29:14	2.771	3	V	
66	"	:	:	"	08:36:24	2.969	10	V	
67	"	:	:	"	08:41:03	3.114	10	V	mt saved
68	"	:	:	"	08:54:12	3.622	10	V	
69	"	:	:	"	08:58:37	3.836	8	R	Lost tracking. Back imaging
70	HD 187350	19:49:10	-1:10:13	2000	09:13:24	1.225	2	GC	HB standard. Saturated
71	"	:	:	"	09:16:35	1.229	1	GC	Still Saturated
72	"	:	:	"	09:20:39	1.234	1	GC	defocus @ -11400
73	"	:	:	"	09:25:52	1.240	1	C2	"
74	"	:	:	"	09:28:59	1.245	1	BC	"

UT Date	2005 July 5	University of Maryland / Kitt Peak National Observatory		Weather, Moon, Notes
Page #	4 / 5	Observing Log		Photometric
Night #	4	CCD Characteristics		Pixel Scale
Telescope	KPND 4m	GAIN: 3e/ADU		0.26
Observer	FARNHAM, LI	READ NOISE: 6e		
Assistant	ED EASTBURN	LINEAR TO: 20K		
Inst. / CCD	MOSAIC	READ TIME: 15680		

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Comments
75	HD 187350	19:49:10	-1:10:13	2000	09:31:20	1.251	1	CN	defocus @ -11400
76	PG 1633+099	16:35:00	09:43:35	2000	09:45:43	2.603	6	R	not saved
77	"	:	:	"	09:44:35	2.695	3	R	18k peak
78	"	:	:	"	09:53:27	2.795	2	R	13k OK!
79	"	:	:	"	10:00:43	3.006	2	"	
80	"	:	:	"	10:04:16	3.123	2	"	
81	"	:	:	"	10:16:48	3.619	2	"	
82	Landolt 113-337	21:40:26	0:23:32	2000	10:21:31	1.174	1.5	R	not saved
83	"	:	:	"	10:26:50	1.175	1	"	defocused @ -10800
84	"	:	:	"	10:31:21	1.177	1	"	"
85	Comet NEAT 2001 Q4	2:03:55	60:06:25	2000	10:38:19	1.484	600	R	
86	"	:	:	"	10:51:18	1.440	"	"	
87	HD 170783	18:30:41	04:33:27	2000	11:09:55	2.332	2	GC	defocused @ -11270
88	"	:	:	"	11:13:04	2.301	1.5	C2	17k peak
89	"	:	:	"	11:16:15	2.357	2	BC	11k.

9 RC 10.00+

UT Date: 2005 July 5
 Page #: 515
 Night #: 4
 Telescope: KPND 4-M.
 Observer: PARENHAM, LI
 Assistant: ED EASTBURN
 Inst. / CCD: MOSAIC

University of Maryland / Kitt Peak National Observatory
 Observing Log

Filters: 1: V, 2: R, 3: OH, 4: UC, 5: S, 6: C3, 7: BCL, 8: C2

CCD Characteristics: GAIN: 30/ADU, READ NOISE: 6e⁻, LINEAR TO: 20k, READ TIME: 156μs

Pixel Scale: 0.26

Weather, Moon, Notes: photometric

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Comments
90	HD 170783	18:30:41	04:33:27	2000	11:19:27	2.417	2	CN	defocused @ -11270
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9-RC 1060