

UT Date 11 MAR 2005	University of Maryland / Kitt Peak National Observatory Observing Log		Weather, Moon, Notes Photometric @ sunset NEW MOON wind Naut true 2:23 about Naut true 12:48	
Page # 116				
Night # 1				
Telescope KPN0 2.1-M	CCD Characteristics		Pixel Scale 0.19"	
Observer MUELLER, FARNHAM	Gain 2.3 e/ADU R.N. 7.5 e ⁻ Linear to ~60K Readout 75 sec		E ← 18AF DISP	
Assistant —	Filters			
Inst. / CCD DIRECT CCD / F3KB	1	DH	5	CZ
	2	KVC	6	GC
	3	CN	7	RC
	4	BC	8	R

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Track Rate	Sub-Frame	Comments
1-4	shutter test.	: : :	: : :		: : :						
5	Dome	: : :	: : :		: : :		1800				
6	DOME FLAT - R	3:37:	-28:15:	2000	23:40:		50	R	OFF		LOW LAMP @ MAX (82) ~30,000 counts
7	"	HA: 00:02	: : :		: : :						
8	"	: : :	: : :		: : :						
9	"	: : :	: : :		: : :						
10	"	: : :	: : :		: : :						
11	DOME FLAT - BC	: : :	: : :		: : :		30	BC			20,000 counts High Lamp @ max
12	"	: : :	: : :		: : :						
13	"	: : :	: : :		: : :						
14	"	: : :	: : :		: : :						
15	"	: : :	: : :		: : :						
16	DOME FLAT - CN	: : :	: : :		: : :		120	CN			13,000 counts High Lamp @ max
17	"	: : :	: : :		: : :						
18	"	: : :	: : :		: : :						

UT Date		11 MAR 2005		Weather, Moon, Notes	
Page #		2 1 6		Clear / photometric	
Night #		1			
Telescope		KPN0 2.1-M		Pixel Scale 0.14"	
Observer		MUELLER, FARNHAM		E	
Assistant		-		IANE DISP	
Inst. / CCD		DIRECT CCD / F3KB			
		Filters		CCD Characteristics	
		1 OH 5 C2		Gain 2.3	
		2 UV 6 GC		R.N. 7.5e	
		3 CN 7 RC		LINEAR TO 60K	
		4 BC 8 R		Readout 75 sec	

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Track Rate	Sub-Frame	Comments
19	DOME FLAT - CN	00:00: HA	-28 :		:		120	CN			13,000 counts
20	"	:	:		:						
21	DOME FLAT - OH	:	:		:		1800	OH			9000 counts high temp @ mount
22-31	BIAS	:	:		:						900 counts
32	TWILIGHT SKY FLAT-CN	4:25:43	59:01:03	2000	1:49:		5	CN			DOME DECONTAM
33	" (TEST TO SEE IF TWI FLATS	:	:		1:51:		5	CN			~500 counts
34	" WILL WORK FOR NARROW BANDS	:	:		1:54:		30	CN			~2000 counts
35	" FILTERS)	:	:		1:57:		60	CN			~1500 counts
36	TWILIGHT SKY FLAT - BC	:	:		2:00:		90	BC			~3000 counts
37	"	:	:		2:04:		120	BC			~2000 counts
38	POINTING CHECK	:	:		:						
39	"	:	:		:						
40	"	:	:		:						
41	FOCUS FRAME	6:52:	-00:19:		:		7x10	R			MISSED. FOCUS
42	(LANDLET 98-666)	:	:		03:02:		7x10	R			FOCUS NEAR 20500
	"	:	:								Temp of Secondary 13.3C

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Page #		3 1 6		Observing Log		Clear	
Night #		1		CCD Characteristics		Pixel Scale	
Telescope		KPN0 2.1-m		Gain 2.3		0.19"	
Observer		MUELLER, FAENHAM		R.N. 7.5E		E	
Assistant		—		LINEAR TO 60K		N	
Inst. / CCD		DIRECT CCD / F3KB		Random 75 size		← 1RAE DISP	

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Track Rate	Sub-Frame	Comments
42	FOCUS	:	:	:	:						
43	FOCUS 2AND 98-666	06:52:12	-00:19:17	2000	:		7 X 7	R		Temp of Secondary 13.39C	BEST @ 20518 4.18 pix - 0.91
44	FOCUS CN filter	:	:		3:20:00	1.187	7 X 20	CN		guiding	stars are elongated
45	LANDOLT 98-666	06:52:12	-00:19:17		3:34:25	1.195	5	R		not guiding	still elongated - w/ appropriate
46	"	:	:		3:36:40	1.198	5	R	FOCUS 20570		
47	COMET MACHHOLZ 2004 QZ	7:16:41	+84:51:47	2000	4:32:25	1.663	120	R	WRONG DEC RATE (WRONG DIR)	SHOULDN'T MATTER	HAD TO REMOVE SLEW LIMIT TO GET THESE OUT OF FOCUS
48	"	:	:		4:51:44	1.669	900	CN	Slight problem tracking		
49	"	7:17:12	84:51:		5:11:25	1.675	900	BC			
50	LANDOLT 98-666	6:52:12	-00:19:17		5:38:15	1.518	5	R			
51	COMET MACHHOLZ	7:18:22	84:51:36		6:00:10	1.700	900	OH	non-sat tracking is		~400 with
52	"	:	:		6:10:40	1.711	900	OH		not smooth - stars	
53	"	:	:		6:38:49	1.724	900	CN		we jumpy	
54	"	:	:		6:58:08	1.739	900	BC			
55	COMET TEMPELT	13:29:48	11:15:42		7:36:49	1.222	300	R			~15K
56	"	:	:		7:45:38	1.199	300	R			Common to map increased ~6K

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Page #		4 1 6		clear	
Night #		1			
Telescope		KPN 2.1-M		Pixel Scale 0.19"	
Observer		MUELLER, FARGHAM		CCD Characteristics	
Assistant		-		GAIN 2.3	
Inst. / CCD		DIRECT CCD / F3KB		R.N., 7.5	
				LINEAR TO 60K	
				Readout 75 sec	
				N ← 12AF DISPLAY	
				E	

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Track Rate	Sub-Frame	Comments
57	COMET TEMPEL 1	13:29:46	11:15:42	2000	7:53:21	1.181	300	R			
58	COMET MACHHOLZ ^{2004 Q2}	7:20:48	84:50:57	2000	8:10:55	1.803	900	CN			
59	"	:	:		8:28:44	1.821	900	BC			
60	"	:	:		8:46:22	1.840	120	R			center pixel may be saturated
61	"	:	:		8:52:46	1.847	900	R			
62	"	:	:		8:55:54	1.851	900	CN			
63	HD 97991	11:16:10	-3:27:58	2000	9:29:47	1.439	5	C2			~60K
64	"	:	:		9:33:30	1.454	7	GC			~35K
65	"	:	:		9:35:44	1.463	7	RC			~28K
66	"	:	:		9:38:14	1.473	7	BC			~48K
67	"	:	:		9:40:52	1.485	12	CN			48K
68	"	:	:		9:43:25	1.496	12	UV			45K
69	"	:	:		9:46:45	1.512	60	OH			25K
70	HD 120086	13:47:19	-2:26:37	2000	9:55:23	1.212	60	OH			23K
71	"	:	:		9:59:00	1.212	12	UV			28K

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Page # 5 1 6		Observing Log		Clear, Seeing may be getting worse	
Night # 1		Filters		Pixel Scale 0.19"	
Telescope KPNO 2.1-m		1	OH	5	CZ
Observer MUELLER FARNHAM		2	VV	6	GC
Assistant —		3	CN	7	RC
Inst. / CCD DIRECT CCD / F3KB		4	BC	8	R
		CCD Characteristics		← 18AF DSP	
		6.1N 2.3		E	
		R.N. 7.5		N	
		Linear to box			
		Readout 75 sec			

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Track Rate	Sub-Frame	Comments
72	HD 120086	13:47:19	-2:26:37	2000	10:03:00	1.212	15	CN			42K
73	"	:	:		10:05:10	1.212	9	BC			42K
74	"	:	:		10:07:42	1.213	5	CZ			23K
75	"	:	:		10:10:00	1.214	9	GC			34K
76	"	:	:		10:12:35	1.215	9	RC			32K
77	COMET TEMPEL 1	13:24:41	11:21:44	2000	10:20:05	1.083	300	R			missed comet
78	"	:	:		10:33:20	1.095	300	R			9K, BAD FOCUS
79	"	:	:		10:42:50	1.006	900	CN			~120 counts
80	"	:	:		11:02:30	1.134	900	BC			~400 counts
81	"	:	:		11:21:29	1.170	900	CN			
82	LANDOLT 111-2088	19:38:10	0:31:14	2000	11:51:48	2.257	5	R			
83	HD 187350	19:49:33	-1:06:03	2000	12:01:33	2.364	300	OH			5000 counts
84	"	:	:		12:09:23	2.231	60	CN			70000 counts
85	"	:	:		12:12:57	2.177	30	BC			40000 counts
86	COMET TEMPEL 1	13:24:46	11:16:51	2000	12:23:06	1.365	300	BC			

