

UT Date		13 MAR 2005		University of Maryland / Kitt Peak National Observatory				Weather, Moon, Notes	
Page #		1 / 5		Observing Log				Checks sitting in east wing afternoon	
Night #		3		CCD Characteristics				Pixel Scale	
Telescope		KP 2.1-m		GAIN 2.3 @ADU				0.19"	
Observer		MUELLEY, FARNHAM		R.N. 7.5 e <sup>-</sup>				C	
Assistant		—		Linear to NBK				N ← 164F DISP	
Inst. / CCD		DIRECT CCD / F345		Readout 75 sec					

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Track Rate	Sub-Frame	Comments
1-10	BIAS	::	::		::						912 counts
11	DARK	::	::		::		1800				
12	DOME FLAT R	::	::		::		50	R			low count @ max 31K
13	"	::	::		::						spec of dist above 1st 4 second frame
14	"	::	::		::						
15	"	::	::		::						
16	"	::	::		::						
17	DOME FLAT CN	::	::		::		120	CN			High lamp @ max 14K
18	"	::	::		::						
19	"	::	::		::						
20	"	::	::		::						
21	"	::	::		::						
22-26	DOME FLAT BC	::	::		::		30	BC			High lamp @ Max 20K
27-31	DOME FLAT GC	::	::		::		10	GC			High lamp @ Max 21K
32-36	DOME FLAT CZ	::	::		::		30	CZ			High lamp @ 50 17K

37-41 DOME FLAT RC  
~~44 DOME FLAT OH~~  
 7 RC STOPPED  
 1800 OH  
 High lamp @ 50 22K  
 High lamp @ max

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Page #	2 1 5	Observing Log		clouds low in East
Night #	3	CCD Characteristics		moon 39.0 um
Telescope	KP 2.1 m	GAIN 2.30/ADU		sets @ 4:17 UT
Observer	MUELLER, FARMHAM	R.N. 7.5e		
Assistant		Limit to 60K		
Inst. / CCD	DIRECT CCA / F3KB	Readout time 75 sec		
		Pixel Scale		
		0.19"		
		E		

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Track Rate	Sub-Frame	Comments
42	TWILIGHT SKYFLAT BC	11:0:00	32: : :		1:54:17		180	BC	center by	not good & lighter than	29K TEST IMAGE FOR COMP
43	" " " CN	: : :	: : :		1:58: : :		180	CN	sage by no other structure	19%	3K TO DOME FLORA
44	FOCUS	: : :	: : :		: : :		7x7	R	TEMP		2010 0.95" Sky
45	COMET MACHOZE 2009 QZ	8:01:40	64:41:38	2000	2:41: : :	1.663	90	R			49K
46	"	: : :	: : :		2:47:16	1.661	900	CN			4K
47	"	: : :	: : :		3:04:52	1.656	900	BC			7.5K
48	"	: : :	: : :		3:23: : :	1.653	900	C2			19K
49	"	: : :	: : :		3:41: : :	1.649	900	GC			10K
50	"	: : :	: : :		3:56:51	1.648	900	RC			19K
51	"	: : :	: : :		4:23: : :	1.649	900	CN			4K
52	"	: : :	: : :		4:40:42	1.651	900	OH			
53	HD 72526	8:33:25	-0:18:29	2000	5:05:30	1.192	9	RC			12K (poor focus)
54	"	: : :	: : :		5:08:00	1.193	9	GC			8K "
55	"	: : :	: : :		5:11:00	1.196	5	C2			30K better focus
56	"	: : :	: : :		5:13:14	1.197	10	BC			30K

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Page #	3 / 5					light wind - may get telescope shake in West.	
Night #	3					Pixel Scale 0.19	
Telescope	KPNO 2.1m					E	
Observer	MUELLER FARNHAM					Gain 2.3	
Assistant	-					RN. 7.5	
Inst. / CCD	DIRECT CCD/F3KB					bin to 60K	
						Readout 75 sec	
						N	
						0.19	
						E	
						N	

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Track Rate	Sub-Frame	Comments
57	HD 72526	8:33:25	-0:18:29	2000	5:15:38	1.200	20	CN			25K
58	"	:	:		5:19:40	1.204	120	OH			2000 count peak but poor focus, 12.5 seconds
59	HD 37112	5:36:04	-0:46:48	2000	5:26	2.24	300	OH			25K
60	"	:	:		5:37	2.35	30	CN			25K
61	"	:	:		5:39:25	2.398	15	BC			25K
62	"	:	:		5:42:04	2.445	10	C2			25K
63	"	:	:		5:44:30	2.492	15	GC			18K
64	"	:	:		5:47:30	2.551	15	RC			12K
65	"	:	:		5:50:19	2.614	300	OH			
66	LANDOLT 97-224	5:58:46	-0:04:50	2000	6:01:10	2.345	30	R		(Be careful - at 10)	<del>Start</del> EK
67	"	:	:		6:04:38	2.405	5	R		the faint 2th by	<del>25K</del> 800
68	"	:	:		6:15:50	2.628	10	R		the faintest one	12.50 count
69	COMET MACHHOLZ 2004 Q2	8:05:04	84:34:53		6:27:10	1.686	90	R			36000
70	"	:	:		6:31:39	1.688	900	CN		SEEKING IS GETTING WORSE	3.9K
71	"	:	:		:	1.699	900	BC			5.7K

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Page #		4 1 5		Observing Log				Clear photometric	
Night #		3		CCD Characteristics				power went out @ 8:15 UT	
Telescope		KPN0 2.1m		Pixel Scale				0.19"	
Observer		MUELLER, FARNHAM		Filters				E	
Assistant		-		1 DH 5 C2					
Inst. / CCD		DIRECT CCD / F3KB		2 UV 6 GC					
				3 CN 7 RC					
				4 BC 8 R					
				Gain 2.3					
				R.N. 7.5					
				Linear to 60k					
				Readout 75sec					

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Track Rate	Sub-Frame	Comments
72	COMET MACHHAZE 2004 Q2	08:05:03	04:39:22	2000	7:11:34	1.714	900	C2			17K
73	"	:	:		7:28:37	1.727	900	CN			
74	COMET TEMPEL 1	13:29:34	11:27:18	2000	7:57:10	1.153	300	R			
75	"	:	:		8:05:50	1.138	<del>770</del>	CN			power surge! lost evening
76	COMET MACHHAZE 2004 Q2	08:07:16	04:42:22	2000	8:46:11	1.797	90	R			NO TRACKING IN DEC!
77	PG 1323-086	13:25:39	08:50:17		9:40:00	1.322	20	R			max ~50K
78	"	:	:		9:42:55	1.323	20	R			
79	23 SEX	10:21:02	2:17:23	2000	9:52:59	1.859	7	RC			33K
80	"	:	:		9:56:07	1.889	7	GC			26K
81	"	:	:		9:58:44	1.917	5	C2			57K
82	"	:	:		10:02:30	1.963	7	BC			38K seeing ~1.6"
83	"	:	:		10:05	2.0	15	CN			32K
84	"	:	:		10:08:00	2.026	120	TH			12K
85	PG 1047+03	:	:		10:17:01	1.879	20	R			
86	"	:	:		10:20:50	1.919	30	R			

UT Date	13 MAR 2005	University of Maryland / Kitt Peak National Observatory				Weather, Moon, Notes	
Page #	5 / 5	Observing Log				clear	
Night #	3	CCD Characteristics				Next dawn starts @ 12:47	
Telescope	KFNO 2.1m	Filters				clear @ Sunrise	
Observer	MUCKER, FARHAM	1	OH	5	C2	Pixel Scale 0.19	
Assistant	-	2	MC	6	GC	E	
Inst. / CCD	DIRECT CCD / F3KB	3	CN	7	RC	Lines to 60K	
		4	BC	8	R	Readout 7.5 sec	

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Track Rate	Sub-Frame	Comments
87	COMET TEMPEL 1	13:29:33	11:27:39	2000	10:35:32	1.105	300	R		cal bundle attached	20K
88	"	:	:		10:43:40	1.115	300	R		4/11	
89	"	:	:		10:51	1.125	<del>900</del>	CN			LOST TRACKING! Aborted @ ~9min
90	"	:	:		11:13:50	1.169	900	BC			1.7K
91	"	:	:		11:30:42	1.209	900	C2			3K
92	"	:	:		11:48:32	1.261	900	GC			2K
93	"	:	:		12:10:38	1.343	600	R			
94	"	:	:		12:24:55	1.408	900	CN			1.1K
95	HD 120086	13:47:08	-2:26:47	2000	12:49:00	1.735	10	RC			23K NUT TW
96	"	:	:		12:51:30	1.751	10	GC			30K
97	"	:	:		12:55:46	1.770	5	C2			30K
98	"	:	:		12:56:25	1.792	10	<del>BC</del> C2			45K
99	"	:	:		13:00:	1.815	<del>10</del> 10	<del>CN</del>			35K
100	"	:	:		:	1.813	<del>10</del>	<del>BC</del>			30
101	"	:	:		13:04:24	1.865	120	CH			