

UT Date		2005 JUN 4		Weather, Moon, Notes	
Page #		1 1 4		Clear during the day Clear @ Sunset.	
Night #		1		looks like its photometer	
Telescope		KPN0 2.1m		Pixel Scale 0.19"	
Observer		FARNHAM, MUELLER		E	
Assistant				N	
Inst. / CCD		DIRECT CCD/F3KB		CCD Characteristics	
		Filters		GAIN: 2.3e/APD READ NOISE: 7.5e ⁻ LINEAR TO: 60K READ TIME: 75 sec	
		1 : OH		5 C2	
		2 : VV		6 GC	
		3 : CN		7 RC	
		4 : BC		8 R	

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	COMNTS	Comments
1-2	DARK (2)	:	:	:	:				~820	~816 B22
3-12	BIAS (10)	:	:	:	:				819	~819 counts
13-22	DOME FLAT - R	:	:	:	:		50	R	28K	Low lamp @ max
23-27	DOME FLAT - CN	:	:	:	:		120	CN	13K	high lamp @ max
28-32	DOME FLAT - BC	:	:	:	:		30	BC	18K	"
33-34	DOME FLAT - OH	:	:	:	:		1800	OH	9K	"
35-39	DOME FLAT - GC	:	:	:	:		10	GC	19K	"
40-49	DOME FLAT - C2	:	:	:	:		30	C2	14K	high lamp @ 50
50-59	DOME FLAT - RC	:	:	:	:		7	RC	19K	"
60	FOCUS	HA012:	25:50:	:	:		7 x 5 sec	BC	Slugo 4100	hot @ 20000 ~2" Spax
61	"	:	:	:	:		7 x 5 sec	BC	FOCUS 20600	~1" seeing?
62	COMET MACHINER 2004 Q2	12:47:25	44:02:00	2000	3:39:	1.024	300	R	~8K	
63	"	:	:	:	3:47:28	1.026	900	CN	~150 net	stopped early because good stars hit edge
64	"	:	:	:	4:05:	1.035	889	CN		
65	"	:	:	:	4:22:30	1.043	600	R		

UT Date	2005 JUN 4	University of Maryland / Kitt Peak National Observatory				Weather, Moon, Notes	
Page #	2 / 4	Observing Log				Photometric	
Night #	1	CCD Characteristics				- Seeing is poor & variable	
Telescope	KFNO 2.1m	GAIN: 2.3				concern about "waves" going over	
Observer	FARNHAM, MUELLER	READ NOISE: 7.5				but might just be display of min.	
Assistant	---	LINEAR TO: 60K				bricks.	
Inst. / CCD	DIRECT CCD / F3KB	READ TIME: 75 sec					
		Filters		Pixel Scale			
		1	DH	5	CZ	0.19"	
		2	UV	6	GC	E	
		3	CN	7	RC		
		4	BC	8	R		

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Comments
66	COMET TEMPEL 1	12:58:26	2:03:34	2000	4:43:49	1.207	300	R	8K
67	"	:	:		4:50:46	1.223	600	R	
68	"	:	:		5:06:30	1.250	900	CN	
69	"	:	:		5:24:10	1.294	900	BC	1200
70	"	:	:		5:42:16	1.394	900	CZ	
71	"	:	:		5:59:16	1.423	900	GC	
72	"	:	:		6:16:	1.506	600	R	
73	"	:	:		6:28:56	1.580	600	R	
74	"	:	:		6:41:20	1.665	900	CN	
75	"	:	:		6:59:20	1.819	900	BC	
76	"	:	:		7:10:18	2.020	600	R	
77	PG 1323-086	13:25:49	-8:50:22	2000	7:35:10	2.304	20	R	
78	"	:	:		7:39:50	2.431	20	R	
79	"	:	:		7:41:17	2.491	20	R	
80	COMET MACHHOLZ 2004B2	12:47:32	44:03:39	2000	7:55:45	1.601	600	R	poor guiding

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Page #	3 1 4	Observing Log		photometric?
Night #	1	CCD Characteristics		Quasi photometric - large going through
Telescope	KARO 2.1 m	Pixel Scale		0.19"
Observer	FARNHAM, MUELLEN	Filters		
Assistant		1	DH	
Inst. / CCD	DIRECT CCD / F314B	2	UV	
		3	CN	
		4	BC	
		5	CZ	
		6	GC	
		7	RC	
		8	R	
		GAIN: 2.3 e/ADU		
		READ NOISE: 7.5 e		
		LINEAR TO: 60K		
		READ TIME: 75 sec		

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Comments
81	COMET MACHOLZ 2004 QZ	12:47:32	44:05:39	2000	8:14:20	1.826	600	R	
82	"	:	:		8:26:23	1.931	900	CN	
83	"	:	:		8:43:40	2.115	600	R	
84	LANDOLT PG15257071	15:28:13	-7:15:54	2000	9:04:17	1.90	20	R	8K
85	"	:	:		9:07:18	1.925	20	R	
86	HD 129956	14:45:29	0:43:06	2000	9:11:42	2.174	5	CN	8K
87	"	:	:		9:14:05	2.220	5	BC	20K
88	"	:	:		9:16:30	2.245	5	GC	40K
89	"	:	:		9:19:30	2.297	5	CZ	20K
90	"	:	:		9:22:44	2.350	5	CZ	50K
91	HD 170783	18:31:04	4:37:37	2000	9:28:00	1.130	20	CN	12K
92	"	:	:		9:31:08	1.131	20	BC	13K
93	"	:	:		9:34:02	1.133	20	GC	50K
94	"	:	:		9:37:31	1.135	0	CZ	50K
95	"	:	:		9:39:20	1.137	20	CN	15K
96	"	:	:		9:42:47	1.139	20	BC	50K

UT Date	2005 JUN 4	University of Maryland / Kitt Peak National Observatory		Weather, Moon, Notes
Page #	4 / 4	Observing Log		<i>Quasi-photometric</i>
Night #	1	CCD Characteristics		Pixel Scale
Telescope	KPND 2.1m	GAIN: 23 READ NOISE: 7.5 LINEAR TO: 60K READ TIME: 75Sec		0.9
Observer	FARNHAM, MUELLER	Filters		E
Assistant		1: OH	5: CZ	
Inst. / CCD	DIRECT CCD / F3KB	2: UV	6: GC	
		3: CN	7: RC	
		4: BC	8: R	N

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Counts	Comments
97	LANDOLT 110-232	18:40:48	0:01:35	2000	9:47:08	1.189	20	R	20K	
98	"	:	:		9:49:50	1.190	20	R		
99	HD 149363	:	:		9:54:10	1.726	20	CN	18K	
100	"	:	:		9:56:40	1.744	15	BC	30K	
101	"	:	:		9:59:12	1.763	10	GC	12K	
102	"	:	:		10:01:30	1.781	10	CZ	30K	
103	LANDOLT PL 1633+099	16:35:34	9:47:04	2000	10:15:09	1.994	20	R	12K	
104	"	:	:		10:17:10	1.510	40	R	20K	
105	COMET NEAT 2001 Q4	1:46:37	57:35:53	2000	10:39:00	2.080	300	R	1100 mt.	
106	"	:	:		10:44:50	2.022	600	R	3.2K	
107	"	:	:		10:57:22	1.962	600	R		Start next Twilight
108	HD 219188	23:13:56	4:59:38	2000	11:24:36	1.368	120	CZ		
109	HD 219188	:	:		:	:				Saturated
110	"	:	:		11:27:21	1.358	5	CZ	20K	
111	"	:	:		11:29:40	1.349	10	GC	30K	
112	"	:	:		11:32:03	1.340	15	BC	50K	
113	"	:	:				20	CN	40K	