

UT Date		12 APRIL 2005		University of Maryland / Kitt Peak National Observatory				Weather, Moon, Notes	
Page #		1 3		Observing Log				Mostly clear during the day	
Night #		4		CCD Characteristics				Lots of cirrus in west @ Summit	
Telescope		KPM 2.1m		GAIN: 2.3 e <sup>-</sup> /ADU				Moon ~ 5% illum, set at 5:10	
Observer		FARUHAM, KNAIGHT		READ NOISE: 7.5 e <sup>-</sup>					
Assistant		—		LINEAR TD: 60K					
Inst. / CCD		PIREOT CCD / F3KB		READ TIME: 75 sec					
				Filters				Pixel Scale	
				1 OH 5 CZ				0.19"	
				2 UC 6 GC				E	
				3 CN 7 RC					
				4 BC 8 R					

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Comments
1	DARK FRAME	:	:		:		1800		
2-11	BIAS	:	:		:				820 counts
12-16	DOME FLAT - R	:	:		:		50	R	Low lamp @ max
17-21	DOME FLAT - CN	:	:		:		120	CN	High lamp @ max
22-26	DOME FLAT - BC	:	:		:		30	BC	"
27-31	DOME FLAT - GC	:	:		:		10	GC	"
32-33	DOME FLAT - OH	:	:		:		1800	OH	"
34-38	DOME FLAT - CZ	:	:		:		30	CZ	High lamp @ 50
39-43	DOME FLAT - RC	:	:		:		7	RC	"
44	FOCUS	mini zenith			:		7 x 7 sec	R	staked near frame.
45	"	:	:		:		7 x 7 sec	R	Seeing 6" @ 1.2"
46	COMET TEMPEL 1	13:12:29	13:08:54	2000	2:47:30	2.286	300	R	not guiding - notated guide
47	"	:	:		2:59:20	2.098	300	R	
48	"	:	:		3:07:05	1.991	300	R	
49	LANEART 104-443	12:42:16	-0:24:41	2000	3:14:50	1.975	150	R	JUST IN CASE IT IS PHOT
50	"	X not phot.				1.926	150	R	

UT Date		12 APRIL 2005		University of Maryland / Kitt Peak National Observatory		Weather, Moon, Notes	
Page #		2 1 3		Observing Log		Coma in west	
Night #		4		CCD Characteristics		heavier stuff in South,	
Telescope		KAO 2.1m		Filters		Pixel Scale	
Observer		FARNHAM, KNIGHT		1 DH 5 C2		0.14	
Assistant		—		2 UC 6 GC		E	
Inst. / CCD		DIRECT CCD / F3KB		3 CN 7 RC			
				4 BC 8 R			
				GAIN: 2.3			
				READ NOISE: 7.5			
				LINEAR TD: 60K			
				READ TIME: 75 sec			

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Comments
51	COMET MACHADZE 2004 QZ	11:44:29	71:20:30	2000	3:29:30	1.380	300	R	42K
52	"	:	:	2000	3:37:10	1.371	900	CN	1K net.
53	"	:	:		3:54:36	1.351	900	BC	2K net. star trails are mistletoe
54	"	:	:		4:12:50	1.333	900	C2	6K <del>Bad guiding or clouds?</del>
55	"	:	:		4:30:14	1.320	900	GC	3.5K
56	"	:	:		4:47:50	1.310	900	CN	
57	"	:	:		5:11:56	1.299	1000	OH	500 net
58	"	:	:		5:44:	1.293	900	CN	
59	COMET TEMPEL 1	13:12:14	13:12:23	2000	6:07:05	1.100	300	R	cal fields obtained 4/14
60	"	:	:		6:14:32	1.091	900	CN	
61	"	:	:		6:31:51	1.074	900	BC	
62	"	:	:		6:48:41	1.063	900	C2	
63	"	:	:		7:06:30	1.057	900	GC	
64	"	:	:		7:24:08	1.057	300	R	
65-70	JUPITER	12:49:	-3:34:		:				UC, CN, C2, GC, RC

UT Date		12 APRIL 2005		University of Maryland / Kitt Peak National Observatory				Weather, Moon, Notes	
Page #		3 1 3		Observing Log					
Night #		4		CCD Characteristics				Pixel Scale	
Telescope		KFD0 2.1-m		GAIN: 2.3				0.19	
Observer		FARNHAM, KNIGHT		READ NOISE: 7.5				E	
Assistant		—		LINEAR TD: 60K				N	
Inst. / CCD		DIRECT CCD / F3K8		READ TIME: 75 sec					

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Comments
71	COMET MACHHOLZ 2004 Q2	11:44:44	71:14:13	2000	8:22:20	1.397	300	R	
72	"	:	:		8:32:14	1.412	900	CN	
73	"	:	:		8:49:40	1.440	900	BC	
74	"	:	:		9:06:09	1.471	900	CN	
75	"	:	:		9:23:40	1.507	900	CN	
76	"	:	:		9:41:15	1.540	900	CN	
77	"	:	:		9:59:20	1.594	900	BC	cloud - possibly may be different,
78	"	:	:		10:16:	1.64	900	CN	passing clouds
79	COMET TEMPEL 1	13:12:11	13:08:57	2000	10:41:20	1.571	300	R	
80	"	:	:		10:48:04	1.619	300	R	
81	COMET MACHHOLZ 2004 Q2	11:44:56	71:10:29	2000	11:02:	1.795	900	CN	
82	"	:	:		11:19:10	1.862	900	BC	
83	"	:	:		11:26:20	1.934	900	CN	
84	COMET TEMPEL 1	13:12:01	13:10:06	2000	11:56:39	2.495	300	R	
85	"	:	:		12:03:49	2.648	300	R	