

UT Date 2005 July 8  
 Page # 1 1 3  
 Night # 7  
 Telescope KPNO 4-m  
 Observer FARNHAM  
 Assistant HAL HALBERDL  
 Inst. / CCD MDSAIC

University of Maryland / Kitt Peak National Observatory  
 Observing Log

Filters		CCD Characteristics		Pixel Scale
1	V	5	CN	0.26"
2	R	6	C3	
3	DH	7	BC	
4	MVC	8	CZ	

GAIN: 3e/APM  
 READ NOISE: 6e N  
 LINEAR TO: 20K  
 READ TIME: 156 sec E

Weather, Moon, Notes  
 clouds around during the day  
 clouds in the east  
 Windy

9 RC 10 COT

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Comments
1-5	BIAS	:	:		:				
6-7	DOME FLAT R	:	:		:		12	R	LOW LAMP @ 53V
8-9	DOME FLAT V	:	:		:		12	V	"
10-11	DOME FLAT CN	:	:		:		20	CN	HIGH LAMP @ 53V
12-13	DOME FLAT BC	:	:		:		5	BC	"
14-15	DOME FLAT GC	:	:		:		10	GC	HIGH LAMP @ 33V
16-17	DOME FLAT CZ	:	:		:		6	CZ	"
18	FOCUS NARROWBAND	:	:		:		9x 20 sec	BC	Bad @ -11850
19	FOCUS BROADBAND	:	:		:		9x 10 sec	R	Bad @ -10350
20	COMET TEMPEL 1	13:44:47	-11:10:14	2000	3:52:05	1.553	120	R	17K
21	"	:	:		3:58:09	1.578	120	R	
22	"	:	:		4:05:13	1.610	600	BC	WIND SHAKE?
23	"	:	:		4:19:38	1.68	600	CN	power right on & star...
24	"	:	:		4:32:40	1.763	120	R	CIRRS?
25	"	:	:		4:37:46	1.799	120	R	

UT Date	2005 July 8	University of Maryland / Kitt Peak National Observatory		Weather, Moon, Notes
Page #	2 / 3	Observing Log		clouds in the east
Night #	7	Filters		circus overhead?
Telescope	KPN0 4-M	1 V	5 CN	Bad Seeing
Observer	FARHAM	2 R	6 C3	
Assistant	HAL HALBEDEL	3 DH	7 BC	
Inst. / CCD	MOSAIC	4 UC	8 CZ	
		CCD Characteristics		Pixel Scale
		GAIN: 3E/APM		0.26"
		READ NOISE: 6e <sup>-</sup> N		
		LINEAR TO: 20K		
		READ TIME: 156 sec		E

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Comments
26	FOCUS	: : @ Commit	: :		: :		9x10	R	BEST @ -10400 Seeing ~1.6"
27	COMET TEMPEL 1	13:44:47	-11:10:13	2000	4:55:04	1.938	600	BC	} not guiding @ commit
28	"	: :	: :		5:08:23	2.073	600	CN	
29	"	: :	: :		5:21:40	2.238	150	R	→ NOT GUIDING - SAVED RE STARTED
30	"	: :	: :		5:29:25	2.358	150	R	
31	"	: :	: :		5:36:20	2.463	600	BC	
32	"	: :	: :		5:49:58	2.735	600	CN	frames 10800 should be 11800
33	"	: :	: :		6:03:08	3.076	600	CN	
34	"	: :	: :		6:16:19	3.522	150	R	
35	"	: :	: :		: :		120	R	
36	COMET MACHHOLE 2004 Q2	13:22:45	29:53:55	2000	6:35:35	2.077	180	R	
37	"	: :	: :		6:41:49	2.166	600	R	sat nearby
38	"	: :	: :		6:55:43	2.382	300	R	
39	"	: :	: :		7:05:10	2.973	300	R	MOVED SO CAN FILL GAPS
40	"	: :	: :		7:13:48	2.761	300	R	"
	"				7:22:06	2.972	600	R	

2005 July 8		University of Maryland / Kitt Peak National Observatory				Weather, Moon, Notes	
UT Date	3 / 3	Observing Log				cirrus?	
Page #	7					seeing is a little better	
Night #	KPNO 4-M	Filters				clouds around horizon @ twilight	
Telescope	FARNHAM	1	V	5	CN	Pixel Scale 0.26"	
Observer	HAL HALBEDEL	2	R	6	C3	GAIN: 3 e-/ADU READ NOISE: 6 e <sup>-</sup> N	
Assistant	MDSAIL	3	OH	7	BC	LINEAR TO: ZOK	
Inst. / CCD		4	UC	8	C2	READ TIME: 156 $\mu$ s E	

Frame #	Object	R.A.	Dec.	Epoch	Start UT	Airmass	Exp.	Filter	Comments
42	ASTEROID 10783 1991 RB9	21:23:55	-12:58:33	2000	7:39:47	1.699	600	R	
43	"	:	:		7:52:53	1.635	600	V	
44	"	:	:		8:06:07	1.580	600	R	
45	"	:	:		8:20:45	1.531	600	V	TUMBLING SATELLITE / AIRBORNE
46	"	:	:		8:36:20	1.489	600	R	Seeing ~ 1.2 pix
47	COMET NEAT 2001 Q4	2:04:01	60:17:26	2000	8:54:59	1.940	600	R	
48	"	:	:		9:07:57	1.854	600	R	
49	ASTEROID 55434 2001 TZ66	21:51:25	-11:21:25	2000	9:24:04	1.409	600	R	
50	"	:	:		9:37:40	1.391	600	V	
51	"	:	:		9:51:48	1.379	600	R	
52	COMET NEAT 2001 Q4	2:04:48	60:21:23	2000	10:25:54	1.495	600	R	
53	"	:	:		10:36:38	1.451	600	R	
54	ASTEROID 55434 2001 TZ66	21:51:49	-11:17:09	2000	10:58:20	1.398	600	R	start <del>at</del> twilight
55	"	:	:		11:06:50	1.419	600	V	
56	"	:	:		11:20:46	1.446	600	R	start Naut.