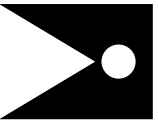
UT Date 03/12/05 Observers Mueller and FarnhamTelescope 2.1m Scale 0.19 CCD F3KB Gain 1.00Filters: 1 OH 2 UV 3 CM 4 BC 5 C2 6 GC 7 RC 8 R Program Tempel 1, Machholz

Disk Image	Title	Filter	Exp Time	UT Start	Hour Angle	Air Mass	Focus	FW HM	Comments
nb0001	Bias	CM	0	21:39	+0:00	1.000			
nb0002	Bias	CM	0	21:42	+0:00	1.000			
nb0003	Bias	CM	0	21:43	+0:00	1.000			
nb0004	Bias	CM	0	21:44	+0:00	1.000			
nb0005	Bias	CM	0	21:46	+0:00	1.000			
nb0006	Bias	CM	0	21:47	+0:00	1.000			
nb0007	Bias	CM	0	21:49	+0:00	1.000			
nb0008	Bias	CM	0	21:50	+0:00	1.000			
nb0009	Bias	CM	0	21:52	+0:00	1.000			
nb0010	Bias	CM	0	21:53	+0:00	1.000			
nb0011	Dark frame	CM	0	21:57	+0:00	1.000			
nb0012	dflat R	R	50	23:05	+0:00	2.012			Low lamp @max, 29000 counts
nb0013	dflat R	R	50	23:08	+0:00	2.012			
nb0014	dflat R	R	50	23:10	+0:00	2.012			
nb0015	dflat R	R	50	23:12	+0:00	2.012			
nb0016	dflat R	R	50	23:15	+0:00	2.012			
nb0017	dflat CM	CM	120	23:18	+0:00	2.012			high lamp @max, 14000 counts
nb0018	dflat CM	CM	120	23:22	+0:00	2.012			
nb0019	dflat CM	CM	120	23:25	+0:00	2.012			
nb0020	dflat CM	CM	120	23:29	+0:00	2.012			

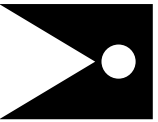


UT Date 03/12/05 Observers Mueller and Farnham

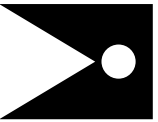
Telescope 2.1m Scale 0.19 CCD F3KB Gain 1.00

Filters: 1 0H 2 UV 3 CM 4 BC 5 C2 6 GC 7 RC 8 R Program Tempel 1, Machholz

Disk Image	Title	Filt	Exp Time	UT Start	Hour Angle	Air Mass	Focus	FW HM	Comments
nb0021	dflat CM	CM	120	23:32	+0:00	2.012			
nb0022	Dflat BC	BC	30	23:36	+0:00	2.012			high lamp @max, 20k
nb0023	Dflat BC	BC	30	23:38	+0:00	2.012			
nb0024	Dflat BC	BC	30	23:40	+0:00	2.012			
nb0025	Dflat BC	BC	30	23:42	+0:00	2.012			
nb0026	Dflat BC	BC	30	23:44	+0:00	2.012			
nb0027	Dflat GC	GC	7	23:48	+0:00	2.012			
nb0028	Dflat GC	GC	10	23:51	+0:00	2.012			high lamp @max, 20k
nb0029	Dflat GC	GC	10	23:53	+0:00	2.012			
nb0030	Dflat GC	GC	10	23:54	+0:00	2.012			
nb0031	Dflat GC	GC	10	23:56	+0:00	2.012			
nb0032	Dflat C2	C2	30	23:58	+0:00	2.012			high lamp @50 19k
nb0033	Dflat C2	C2	30	0:00	+0:00	2.012			
nb0034	Dflat C2	C2	30	0:02	+0:00	2.012			
nb0035	Dflat C2	C2	30	0:04	+0:00	2.012			
nb0036	Dflat C2	C2	30	0:06	+0:00	2.012			
nb0037	Dflat RC	RC	7	0:09	+0:00	2.012			
nb0038	Dflat RC	RC	7	0:11	+0:00	2.012			
nb0039	Dflat RC	RC	7	0:12	+0:00	2.012			
nb0040	Dflat RC	RC	7	0:14	+0:00	2.012			

UT Date 03/12/05 Observers Mueller and FarnhamTelescope 2.1m Scale 0.19 CCD F3KB Gain 1.00Filters: 1 OH 2 UV 3 CM 4 BC 5 C2 6 GC 7 RC 8 R Program Tempel 1, Machholz

Disk Image	Title	Filter	Exp Time	UT Start	Hour Angle	Air Mass	Focus	FW HM	Comments
nb00041	Dflat RC	RC	7	0:16	+0:00	2.012			
nb00042	Dflat OH	OH	1800	0:18	+0:00	2.012			
nb00043	Dflat UVC	UV	300	1:00	+0:00	2.012			high lamp @max, 11k
nb00044	Dflat UVC	UV	300	1:07	+0:00	2.012			
nb00045	Dflat UVC	UV	300	1:13	+0:00	2.012			
nb00046	Dflat UVC	UV	300	1:20	+0:00	2.012			
nb00047	Dflat UVC	UV	300	1:26	+0:00	2.012			
nb00048	Dflat OH	OH	1800	2:08	+0:00	2.012			
nb00049	Dflat OH	OH	1800	2:40	+0:00	2.012			
nb00050	Dflat OH	OH	1800	3:11	+0:00	2.012			
nb00051	Dflat OH	OH	1800	3:44	+0:00	2.012			
nb00052	Dflat UVC	UV	300	4:19	+0:00	2.012			
nb00053	Dflat UVC	UV	300	4:26	+0:00	2.012			
nb00054	Dflat UVC	UV	300	4:34	+0:00	2.012			
nb00055	focus R	R	7	4:58	+0:12	1.001			
nb00056	focus R	R	7	5:07	+0:21	1.003	20670	0.9	Temp 12.5
nb00057	Machholz	R	90	5:32	+1:42	1.676	20460		46k
nb00058	Machholz	CM	900	5:38	+1:48	1.678			4k
nb00059	Machholz	BC	900	5:56	+2:06	1.687			6k
nb00060	Machholz	OH	900	6:16	+2:26	1.698	20550		1200 counts

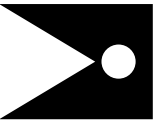


UT Date 03/12/05 Observers Mueller and Farnham

Telescope 2.1m Scale 0.19 CCD F3KB Gain 1.00

Filters: 1 OH 2 UV 3 CM 4 BC 5 C2 6 GC 7 RC 8 R Program Tempel 1, Machholz

Disk Image	Title	Filter	Exp Time	UT Start	Hour Angle	Air Mass	Focus	FW HM	Comments
nb0061	Machholz	OH	900	6:35	+2:44	1.709			
nb0062	Machholz	CM	900	6:54	+3:04	1.722	20610		trailing not perfect
nb0063	Machholz	BC	900	7:11	+3:21	1.735			
nb0064	Machholz	C2	900	7:32	+3:42	1.752			drifting not perfect 23k
nb0065	Machholz	R	90	7:49	+3:59	1.767	20580		
nb0066	Machholz	CM	900	7:53	+4:03	1.771			
nb0067	HD72526	OH	300	8:21	+3:41	2.084	20590	1.4	4k
nb0068	HD72526	UV	180	8:29	+3:49	2.197			50k
nb0069	HD72526	CM	30	8:35	+3:54	2.284			30k
nb0070	HD72526	BC	15	8:37	+3:57	2.329			40k
nb0071	HD72526	C2	7	8:40	+4:00	2.386			30k
nb0072	HD72526	GC	15	8:42	+4:02	2.421			28k
nb0073	HD72526	RC	15	8:45	+4:05	2.470			30k
nb0074	SA 100-267	R	5	8:52	+3:52	2.267			
nb0075	SA 100-267	R	20	8:55	+3:55	2.321			
nb0076	SA 100-267	R	30	9:01	+4:01	2.423	20490		
nb0077	SA 100-267	R	30	9:03	+4:03	2.466	20590		
nb0078	Tempel 1	R	300	9:13	-0:23	1.073			20k
nb0079	Tempel 1	RC	900	9:22	-0:14	1.070	20900		3k
nb0080	Tempel 1	GC	900	9:40	+0:04	1.069			2k

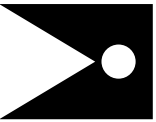


UT Date 03/12/05 Observers Mueller and Farnham

Telescope 2.1m Scale 0.19 CCD F3KB Gain 1.00

Filters: 1 OH 2 UV 3 CM 4 BC 5 C2 6 GC 7 RC 8 R Program Tempel 1, Machholz

Disk Image	Title	Filter	Exp Time	UT Start	Hour Angle	Air Mass	Focus	FW HM	Comments
nb0081	Tempel 1	C2	900	9:57	+0:21	1.073	20920		2.7k
nb0082	Tempel 1	BC	900	10:15	+0:39	1.083			1.7k
nb0083	Tempel 1	CM	900	10:33	+0:57	1.099	20980		1.1k
nb0084	Tempel 1	R	300	10:52	+1:16	1.124	20855		19k
nb0085	Tempel 1	OH	1800	11:00	+1:24	1.136			.9k
nb0086	Tempel 1	CM	900	11:34	+1:58	1.209			
nb0087	Tempel 1	R	300	11:52	+2:16	1.261			
nb0088	HD149363	RC	9	12:06	-0:34	1.287	20820		12k
nb0089	HD149363	GC	9	12:09	-0:31	1.284			15k
nb0090	HD149363	C2	7	12:12	-0:28	1.282			20k
nb0091	HD149363	BC	9	12:14	-0:26	1.280			10k
nb0092	HD149363	CM	20	12:16	-0:23	1.278			18k
nb0093	HD149363	OH	120	12:19	-0:21	1.277			13k
nb0094	PG1633+099	R	5	12:26	-0:14	1.082			totally out of focus
nb0095	PG1633+099	R	5	12:32	-0:08	1.081	20780		focus better but still bad
nb0096	PG1633+099	R	5	12:35	-0:06	1.080	20860	1.1	focus good 5k
nb0097	PG1323-086	R	10	12:44	+3:12	2.086			out of focus
nb0098	PG1323-086	R	10	12:47	+3:15	2.126		1.5	focus better
nb0099	HD120086	RC	9	12:51	+2:58	1.722	20710		focus not bad 6k
nb0100	HD120086	GC	9	12:55	+3:01	1.746	20775		focus better 15k

UT Date 03/12/05 Observers Mueller and FarnhamTelescope 2.1m Scale 0.19 CCD F3KB Gain 1.00Filters: 1 OH 2 UV 3 CM 4 BC 5 C2 6 GC 7 RC 8 R Program Tempel 1, Machholz

Disk Image	Title	Filt	Exp Time	UT Start	Hour Angle	Air Mass	Focus	FW HM	Comments
nb0101	HD120086	C2	7	12:57	+3:04	1.767	20810		focus much better 35k
nb0102	HD120086	BC	10	12:59	+3:06	1.787			30k
nb0103	HD120086	CM	30	13:02	+3:09	1.810			50k
nb0104	HD120086	OH	180	13:05	+3:12	1.838			15k