

| | | | | | |
|-------------|-------------------|---|----|-------------------------------------|----|
| UT Date | 11 APRIL 2005 | University of Maryland / Kitt Peak National Observatory | | Weather, Moon, Notes | |
| Page # | 1 / 5 | Observing Log | | fluffy clouds around during the day | |
| Night # | 3 | Pixel Scale | | 0.14" | |
| Telescope | KPND 2.1 m | CCD Characteristics | | | |
| Observer | FARNHAM, KNIGHT | GAIN: 2.3 e-/ADU | | | |
| Assistant | — | READ NOISE: 7.5 e | | | |
| Inst. / CCD | DIRECT CCD / F3K8 | LINEAR TD: 60K | | | |
| | | READ TIME: 75 sec | | | |
| | | Filters | | | |
| | | 1 | OH | 5 | CZ |
| | | 2 | HC | 6 | GC |
| | | 3 | CN | 7 | RC |
| | | 4 | BC | 8 | R |

New moon

| 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 FOCUS @ 20900 |
| 17-21 | Dome Flat - CN | : | : | | : | | 120 | CN | high lamp @ max |
| 22-26 | DOME FLAT - BC | : | : | | : | | 30 | BC | " |
| 27-36 | DOME FLAT - GC | : | : | | : | | 10 | GC | " |
| 37-38 | DOME FLAT - OH | : | : | | : | | 1800 | OH | " |
| 39-43 | DOME FLAT - CZ | : | : | | : | | 30 | CZ | high lamp @ 50 |
| 44-48 | DOME FLAT - RC | : | : | | : | | 7 | RC | " |
| 49 | FOCUS | : | : | | 2:44:50 | 2.490 | 7 x 5 | | seeing ~1.6" best @ 20850 |
| 50 | LANDOLT 104-443 | 12:42:16 | -0:24:41 | 2000 | 2:44:50 | 2.490 | 180 | R | ~8K |
| 51 | " | : | : | | 2:50: | 2.35 | 180 | R | |
| 52 | " | : | : | | 2:55: | 2.2 | 180 | R | |
| 53 | COMET TEMPEL 1 | 13:13:21 | 13:09:51 | 2000 | 3:06:00 | 2.07 | 300 | R | problem with guide |
| 54 | " | : | : | | 3:21:30 | 1.887 | 300 | R | 17K better. |

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|-------------|-------------------|---|--|--|--|----------------------|
| UT Date | 11 APRIL 2005 | University of Maryland / Kitt Peak National Observatory | | | | Weather, Moon, Notes |
| Page # | 2 1 5 | Observing Log | | | | Photometric |
| Night # | 3 | | | | | |
| Telescope | KPND 2.1m | CCD Characteristics | | | | Pixel Scale |
| Observer | FARNHAM, KNIGHT | GAIN: 2.3 e ⁻ /ADU | | | | 0.19" |
| Assistant | — | READ NOISE: 7.5 e ⁻ | | | | E |
| Inst. / CCD | DIRECT CCD / F3K8 | LINEAR TD: 60K | | | | |
| | | READ TIME: 75 sec | | | | N |

| Frame # | Object | R.A. | Dec. | Epoch | Start UT | Airmass | Exp. | Filter | Comments |
|---------|-----------------------|----------|----------|-------|----------|---------|------|--------|------------------------------|
| 55 | LANDOLT 104-443 | 12:42:16 | -0:24:41 | 2000 | 3:31: | 1.04 | 150 | R | 8K |
| 56 | " | : | : | | 3:35: | 1.802 | 150 | R | |
| 57 | COMET MACHOLZ 2004 Q2 | 11:42:34 | 71:52:13 | 2000 | 3:47:15 | 1.370 | 300 | R | FOCUS 206500 WRONG RATES. |
| 58 | " | : | : | | 3:57:30 | 1.359 | 300 | R | 50K |
| 59 | " | : | : | | 4:05:26 | 1.351 | 900 | CN | |
| 60 | " | : | : | | 4:23:30 | 1.336 | 900 | BC | |
| 61 | " | : | : | | 4:40: | 1.32 | 900 | C2 | |
| 62 | " | : | : | | 4:57:34 | 1.315 | 900 | GC | |
| 63 | " | : | : | | 5:15:23 | 1.308 | 1800 | OH | |
| 64 | " | : | : | | 5:40: | 1.302 | 400 | CN | |
| 65 | LANDOLT 104-443 | 12:42:16 | -0:24:41 | 2000 | 6:20:58 | 1.201 | 150 | R | frame 20800 exp 1.6" |
| 66 | " | : | : | | 6:25:30 | 1.191 | 150 | R | |
| 67 | COMET TEMPEL 1 | 13:13:13 | 13:09:48 | 2000 | 6:38:00 | 1.073 | 300 | R | ~15K |
| 68 | " | : | : | | 6:46:40 | 1.067 | 1800 | OH | ~40 counts per |
| 69 | " | : | : | | 7:10:55 | 1.056 | 900 | CN | 175 counts per |

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|----------------------------------|--|---|----|---|----|-----------------------------|--|
| UT Date 11 April 2005 | | University of Maryland / Kitt Peak National Observatory | | | | Weather, Moon, Notes | |
| Page # 3 / 5 | | Observing Log | | | | photometric wind ~15 mph | |
| Night # 3 | | Filters | | | | Pixel Scale 0.19" | |
| Telescope KPND 2.1-m | | 1 | DH | 5 | CZ | E | |
| Observer FARNHAM, KNIGHT | | 2 | UC | 6 | GC | | |
| Assistant — | | 3 | CN | 7 | RC | | |
| Inst. / CCD DIRECT CCD / F3KB | | 4 | BC | 8 | R | | |
| | | CCD Characteristics | | | | | |
| | | GAIN: 2.3 e-/ADU | | | | | |
| | | READ NOISE: 7.5 e- | | | | | |
| | | LINEAR TD: 60K | | | | | |
| | | READ TIME: 75 μ s | | | | | |

| Frame # | Object | R.A. | Dec. | Epoch | Start UT | Airmass | Exp. | Filter | Comments |
|---------|--------------------|----------|----------|-------|----------|---------|------|--------|-------------------------------------|
| 70 | COMET TEMPEL 1 | 13:13:16 | 13:09:29 | 2000 | 7:37:02 | 1.059 | 900 | BC | |
| 71 | " | : | : | | 7:54:09 | 1.066 | 900 | CZ | |
| 72 | " | : | : | | 8:11:18 | 1.079 | 900 | GC | |
| 73 | " | : | : | | 8:28:08 | 1.097 | 900 | RC | |
| 74 | " | : | : | | 8:45:35 | 1.122 | 300 | R | |
| 75 | HD 120086 | 13:47:19 | -2:26:36 | 2000 | 8:54:08 | 1.254 | 10 | RC | BK |
| 76 | " | : | : | | 8:57:03 | 1.258 | 10 | GC | 1BK |
| 77 | " | : | : | | 8:59:26 | 1.262 | 10 | CZ | 32K |
| 78 | " | : | : | | 9:01:39 | 1.266 | 15 | BC | 40K |
| 79 | " | : | : | | 9:04:53 | 1.271 | 30 | CN | 55K |
| 80 | " | : | : | | 9:07:27 | 1.276 | 180 | DH | 45K |
| 81 | LANDOLT 110-232 | 18:40:48 | 00:01:58 | 2000 | 9:17:56 | 1.439 | 30 | R | KEYWORD FILTERS WRANGLY SAYS "1" |
| 82 | " | : | : | | 9:21: | 1.89 | 30 | R | |
| 83 | LANDOLT PG1528+062 | 15:30:45 | 6:01:11 | 2000 | 9:29:12 | 1.113 | 30 | R | 45K |
| 84 | " | : | : | | 9:32:40 | 1.112 | 30 | R | |

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|-------------|-------------------|---|-------------|----------------------|
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| Page # | 4 1 5 | Observing Log | | <i>photometric.</i> |
| Night # | 3 | CCD Characteristics | | |
| Telescope | KPNO 2.1m | Gain: 2.3 | Pixel Scale | |
| Observer | FARNHAM, KNIGHT | READ NOISE: 7.5 | 0.14" | |
| Assistant | — | LINEAR TD: 6.0 K | E | |
| Inst. / CCD | DIRECT CCD / F3KB | READ TIME: 75 sec | N | |

| Frame # | Object | R.A. | Dec. | Epoch | Start UT | Airmass | Exp. | Filter | Comments |
|---------|---------------------------------------|----------|----------|-------|----------|---------|------|--------|------------------|
| 85 | LANDOLT 111-2008 | 19:38:20 | 0:31:39 | 2000 | 9:37:40 | 2.484 | 30 | R | 15K |
| 86 | " | : | : | | 9:40:06 | 2.431 | 30 | R | |
| 87 | HD 187350 | 19:49:31 | -1:05:42 | 2000 | 9:46:08 | 2.637 | 30 | RC | 18K |
| 88 | " | : | : | | 9:49:10 | 2.56 | 30 | GC | 18K |
| 89 | " | : | : | | 9:51:45 | 2.513 | 30 | BC | 18K |
| 90 | " | : | : | | 9:54:30 | 2.461 | 30 | C2 | 36K |
| 91 | " | : | : | | 9:57:08 | 2.411 | 30 | CN | 8K |
| 92 | " | : | : | | 9:59:52 | 2.362 | 180 | DH | 1500 |
| 93 | COMET MACHHOLS 2004 Q2 | 11:42:57 | 71:43:46 | 2000 | 10:11:48 | 1.625 | 900 | CN | ~700 counts max. |
| 94 | " | : | : | | 10:29:04 | 1.676 | 900 | BC | |
| 95 | TEMPEL 1 CALIBRATION FIELD FEB 3 2005 | 13:13:20 | 8:58:46 | 2000 | 10:51:20 | 1.688 | 300 | R | |
| 96 | " MAR 14 2005 | 13:29:24 | 11:32:51 | 2000 | 11:03:22 | 1.603 | 300 | R | |
| 97 | TEMPEL 1 CAL FIELD MAR 13, 2005 | 13:29:32 | 11:28:05 | 2000 | 11:12:30 | 1.676 | 300 | R | |
| 98 | COMET TEMPEL 1 | 13:12:59 | 13:10:32 | 2000 | 11:21:26 | 1.878 | 300 | R | |
| 99 | " | : | : | | 11:28:24 | 1.959 | 300 | R | |

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|-------------|-------------------|--|---|--|----------------------|--|
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| Page # | 5 / 5 | | Observing Log | | photometric | |
| Night # | 3 | | CCD Characteristics | | Pixel Scale | |
| Telescope | KPN0 2.1M | | GAIN: 2.3 | | 0.14" | |
| Observer | FARUHAN, KNIGHT | | READ NOISE: 7.5 | | E | |
| Assistant | --- | | LINEAR TD: 6.D | | | |
| Inst. / CCD | DIRECT CCD / F3KB | | READ TIME: 75 Sec | | N | |

| Frame # | Object | R.A. | Dec. | Epoch | Start UT | Airmass | Exp. | Filter | Comments |
|---------|----------------|----------|----------|-------|----------|---------|------|--------|-------------|
| 100 | COMET TEMPEL 1 | 13:12:59 | 13:10:32 | 2000 | 11:35:15 | 2.049 | 300 | R | |
| 101 | HD 129956 | 14:45:30 | 00:43:02 | 2000 | 11:46:13 | 1.600 | 5 | RC | 25K |
| 102 | " | : | : | | 11:48:48 | 1.617 | 5 | GC | 32K |
| 103 | " | : | : | | 11:51:08 | 1.633 | 5 | CZ | 60K |
| 104 | " | : | : | | 11:53:31 | 1.651 | 5 | BC | 50K |
| 105 | " | : | : | | 11:55:48 | 1.668 | 53 | ENTCZ | 32K |
| 106 | " | : | : | | 11:58:50 | 1.690 | 5 | CN | 10K |
| 107 | " | : | : | | 12:01:01 | 1.706 | 20 | OH | 1400 not |
| 108 | " | : | : | | 12:04:00 | 1.731 | 5 | RC | 20K |
| 109 | " | : | : | | 12:06:00 | 1.748 | 5 | GC | 20K |
| 110 | " | : | : | | 12:11:16 | 1.792 | 5 | CZ | X Saturated |
| 111 | " | : | : | | 12:14: | 1.8 | 5 | BC | 40K |
| 112 | " | : | : | | 12:17:10 | 1.898 | 10 | CN | 33K |
| 113 | " | : | : | | 12:19:05 | 1.867 | 60 | DH | 3.5K |
| | | : | : | | : | | | | |

WARNING: TIME TOO SHORT TO TRAY SHUTTER