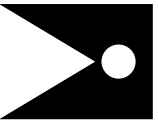


UT Date 04/13/05 Observers Farnham, Knight

Telescope 2.1m Scale 0.19 CCD f3kb Gain 2.30

Filters: 1 OH 2 UC 3 CM 4 BC 5 C2 6 GC 7 RC 8 R Program _____

| Disk Image | Title | Filt | Exp Time | UT Start | Hour Angle | Air Mass | Focus | FW HM | Comments |
|---------------|----------------|------|----------|----------|------------|----------|-------|-------|----------|
| kp050413.0001 | Dark | R | 0 | 22:19 | -0:03 | 1.000 | | | |
| kp050413.0002 | Bias | R | 0 | 22:52 | -0:02 | 1.000 | | | |
| kp050413.0003 | Bias | R | 0 | 23:01 | -5:30 | 2.759 | | | |
| kp050413.0004 | Bias | R | 0 | 23:02 | -0:47 | 1.018 | | | |
| kp050413.0005 | Bias | R | 0 | 23:03 | -0:02 | 1.000 | | | |
| kp050413.0006 | Bias | R | 0 | 23:05 | +0:00 | 1.000 | | | |
| kp050413.0007 | Bias | R | 0 | 23:06 | +0:00 | 1.000 | | | |
| kp050413.0008 | Bias | R | 0 | 23:08 | +0:00 | 2.012 | | | |
| kp050413.0009 | Bias | R | 0 | 23:09 | +0:00 | 2.012 | | | |
| kp050413.0010 | Bias | R | 0 | 23:11 | +0:00 | 2.012 | | | |
| kp050413.0011 | Bias | R | 0 | 23:12 | +0:00 | 2.012 | | | |
| kp050413.0012 | Dome Flat - R | R | 50 | 23:19 | +0:00 | 2.012 | | | |
| kp050413.0013 | Dome Flat - R | R | 50 | 23:23 | +0:00 | 2.012 | | | |
| kp050413.0014 | Dome Flat - R | R | 50 | 23:25 | +0:00 | 2.012 | | | |
| kp050413.0015 | Dome Flat - R | R | 50 | 23:28 | +0:00 | 2.012 | | | |
| kp050413.0016 | Dome Flat - R | R | 50 | 23:30 | +0:00 | 2.012 | | | |
| kp050413.0017 | Dome Flat - CM | CM | 120 | 23:34 | +0:00 | 2.012 | | | |
| kp050413.0018 | Dome Flat - CM | CM | 120 | 23:38 | +0:00 | 2.012 | | | |
| kp050413.0019 | Dome Flat - CM | CM | 120 | 23:41 | +0:00 | 2.012 | | | |
| kp050413.0020 | Dome Flat - CM | CM | 120 | 23:44 | +0:00 | 2.012 | | | |

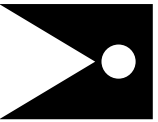


UT Date 04/13/05 Observers Farnham, Knight

Telescope 2.1m Scale 0.19 CCD f3kb Gain 2.30

Filters: 1 OH 2 UC 3 CM 4 BC 5 C2 6 GC 7 RC 8 R Program _____

| Disk Image | Title | Filter | Exp Time | UT Start | Hour Angle | Air Mass | Focus | FW HM | Comments |
|---------------|----------------|--------|----------|----------|------------|----------|-------|-------|--------------------------|
| kp050413.0021 | Dome Flat - CM | CM | 120 | 23:48 | +0:00 | 2.012 | | | |
| kp050413.0022 | Dome Flat - BC | BC | 30 | 23:52 | +0:00 | 2.012 | | | |
| kp050413.0023 | Dome Flat - BC | BC | 30 | 23:54 | +0:00 | 2.012 | | | |
| kp050413.0024 | Dome Flat - BC | BC | 30 | 23:56 | +0:00 | 2.012 | | | |
| kp050413.0025 | Dome Flat - BC | BC | 30 | 23:58 | +0:00 | 2.012 | | | |
| kp050413.0026 | Dome Flat - BC | BC | 30 | 0:00 | +0:00 | 2.012 | | | |
| kp050413.0027 | Dome Flat - GC | GC | 10 | 0:03 | +0:00 | 2.012 | | | |
| kp050413.0028 | Dome Flat - GC | GC | 10 | 0:06 | +0:00 | 2.012 | | | |
| kp050413.0029 | Dome Flat - GC | GC | 10 | 0:08 | +0:00 | 2.012 | | | |
| kp050413.0030 | Dome Flat - GC | GC | 10 | 0:09 | +0:00 | 2.012 | | | |
| kp050413.0031 | Dome Flat - GC | GC | 10 | 0:11 | +0:00 | 2.012 | | | |
| kp050413.0032 | Dome Flat - OH | OH | 1800 | 0:14 | +0:00 | 2.012 | | | |
| kp050413.0033 | Dome Flat - C2 | C2 | 30 | 1:00 | +0:00 | 2.012 | | | 16K counts hi lamp at 50 |
| kp050413.0034 | Dome Flat - C2 | C2 | 30 | 1:02 | +0:00 | 2.012 | | | |
| kp050413.0035 | Dome Flat - C2 | C2 | 30 | 1:04 | +0:00 | 2.012 | | | |
| kp050413.0036 | Dome Flat - C2 | C2 | 30 | 1:06 | +0:00 | 2.012 | | | |
| kp050413.0037 | Dome Flat - C2 | C2 | 30 | 1:08 | +0:00 | 2.012 | | | |
| kp050413.0038 | Dome Flat -RC | RC | 7 | 1:11 | +0:00 | 2.012 | | | |
| kp050413.0039 | Dome Flat -RC | RC | 7 | 1:13 | +0:00 | 2.012 | | | |
| kp050413.0040 | Dome Flat -RC | RC | 7 | 1:14 | +0:00 | 2.012 | | | |

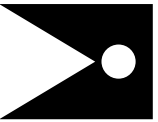


UT Date 04/13/05 Observers Farnham, Knight

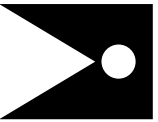
Telescope 2.1m Scale 0.19 CCD f3kb Gain 2.30

Filters: 1 OH 2 UC 3 CM 4 BC 5 C2 6 GC 7 RC 8 R Program _____

| Disk Image | Title | Filter | Exp Time | UT Start | Hour Angle | Air Mass | Focus | FW HM | Comments |
|---------------|------------------------|--------|----------|----------|------------|----------|-------|-------|----------|
| kp050413.0041 | Dome Flat -RC | RC | 7 | 1:16 | +0:00 | 2.012 | | | |
| kp050413.0042 | Dome Flat -RC | RC | 7 | 1:18 | +0:00 | 2.012 | | | |
| kp050413.0043 | Dome Flat - R | R | 50 | 1:21 | +0:00 | 2.012 | | | |
| kp050413.0044 | Dome Flat - R | R | 50 | 1:24 | +0:00 | 2.012 | | | |
| kp050413.0045 | Dome Flat - R | R | 50 | 1:26 | +0:00 | 2.012 | | | |
| kp050413.0046 | Dome Flat - R | R | 50 | 1:28 | +0:00 | 2.012 | | | |
| kp050413.0047 | Dome Flat - R | R | 50 | 1:31 | +0:00 | 2.012 | | | |
| kp050413.0048 | Focus | R | 7 | 2:23 | -0:50 | 1.036 | | | |
| kp050413.0049 | Focus | R | 7 | 2:28 | -0:44 | 1.033 | | | |
| kp050413.0050 | Comet Machholz 2004 Q2 | CM | 900 | 2:40 | -3:07 | 1.447 | | | |
| kp050413.0051 | Comet Machholz 2004 Q2 | BC | 900 | 2:58 | -2:49 | 1.416 | | | |
| kp050413.0052 | Comet Machholz 2004 Q2 | R | 300 | 3:16 | -2:31 | 1.389 | | | |
| kp050413.0053 | Comet Tempel 1 | R | 300 | 3:27 | -3:45 | 1.735 | | | |
| kp050413.0054 | Comet Tempel 1 | R | 300 | 3:33 | -3:39 | 1.676 | | | |
| kp050413.0055 | Saturn | CM | 2 | 3:52 | +2:21 | 1.191 | | | |
| kp050413.0056 | Saturn | CM | 20 | 3:55 | +2:24 | 1.198 | | | |
| kp050413.0057 | Saturn | GC | 1 | 3:58 | +2:27 | 1.208 | | | |
| kp050413.0058 | Saturn | RC | 1.5 | 4:01 | +2:29 | 1.216 | | | |
| kp050413.0059 | Saturn | RC | 1 | 4:03 | +2:32 | 1.223 | | | |
| kp050413.0060 | Saturn | C2 | 0.5 | 4:06 | +2:34 | 1.231 | | | |

UT Date 04/13/05 Observers Farnham, KnightTelescope 2.1m Scale 0.19 CCD f3kb Gain 2.30Filters: 1 OH 2 UC 3 CM 4 BC 5 C2 6 GC 7 RC 8 R Program _____

| Disk Image | Title | Filter | Exp Time | UT Start | Hour Angle | Air Mass | Focus | FW HM | Comments |
|---------------|------------------------|--------|----------|----------|------------|----------|-------|-------|----------|
| kp050413.0061 | Saturn | UC | 10 | 4:08 | +2:36 | 1.238 | | | |
| kp050413.0062 | Comet Machholz 2004 Q2 | CM | 900 | 4:18 | -1:29 | 1.319 | | | |
| kp050413.0063 | Comet Machholz 2004 Q2 | BC | 900 | 4:35 | -1:11 | 1.306 | | | |
| kp050413.0064 | Comet Machholz 2004 Q2 | CM | 900 | 4:52 | -0:54 | 1.297 | | | |
| kp050413.0065 | Comet Machholz 2004 Q2 | C2 | 900 | 5:10 | -0:37 | 1.290 | | | |
| kp050413.0066 | Comet Machholz 2004 Q2 | CM | 900 | 5:29 | -0:18 | 1.285 | | | |
| kp050413.0067 | Comet Machholz 2004 Q2 | BC | 900 | 5:46 | -0:00 | 1.284 | | | |
| kp050413.0068 | Comet Machholz 2004 Q2 | CM | 900 | 6:04 | +0:16 | 1.285 | | | |
| kp050413.0069 | Comet Tempel 1 | R | 300 | 6:26 | -0:45 | 1.075 | | | |
| kp050413.0070 | Comet Tempel 1 | R | 300 | 6:33 | -0:38 | 1.070 | | | |
| kp050413.0071 | Comet Tempel 1 | CM | 900 | 6:41 | -0:31 | 1.065 | | | |
| kp050413.0072 | Comet Tempel 1 | BC | 900 | 6:58 | -0:14 | 1.058 | | | |
| kp050413.0073 | Comet Tempel 1 | C2 | 900 | 7:15 | +0:02 | 1.057 | | | |
| kp050413.0074 | Comet Tempel 1 | R | 300 | 7:32 | +0:20 | 1.060 | | | |
| kp050413.0075 | Comet Machholz 2004 Q2 | CM | 900 | 7:43 | +1:56 | 1.342 | | | |
| kp050413.0076 | Comet Machholz 2004 Q2 | BC | 900 | 8:00 | +2:13 | 1.362 | | | |
| kp050413.0077 | Comet Machholz 2004 Q2 | CM | 900 | 8:19 | +2:31 | 1.387 | | | |
| kp050413.0078 | Comet Machholz 2004 Q2 | C2 | 900 | 8:36 | +2:49 | 1.414 | | | |
| kp050413.0079 | Comet Machholz 2004 Q2 | CM | 900 | 8:58 | +3:10 | 1.452 | | | |
| kp050413.0080 | Comet Machholz 2004 Q2 | CM | 900 | 9:29 | +3:42 | 1.520 | | | |



UT Date 04/13/05 Observers Farnham, Knight

Telescope 2.1m Scale 0.19 CCD f3kb Gain 2.30

Filters: 1 OH 2 UC 3 CM 4 BC 5 C2 6 GC 7 RC 8 R Program _____

| Disk Image | Title | Filt | Exp Time | UT Start | Hour Angle | Air Mass | Focus | FW HM | Comments |
|---------------|------------------------|------|----------|----------|------------|----------|-------|-------|----------|
| kp050413.0081 | Comet Machholz 2004 Q2 | CM | 900 | 9:48 | +4:00 | 1.565 | | | |
| kp050413.0082 | Comet Machholz 2004 Q2 | CM | 900 | 10:06 | +4:19 | 1.616 | | | |
| kp050413.0083 | Comet Tempel 1 | R | 300 | 10:30 | +3:18 | 1.525 | | | |
| kp050413.0084 | Comet Tempel 1 | R | 300 | 10:37 | +3:26 | 1.576 | | | |
| kp050413.0085 | Comet Tempel 1 | R | 300 | 10:44 | +3:32 | 1.625 | | | |
| kp050413.0086 | Comet Machholz 2004 Q2 | CM | 900 | 10:58 | +5:10 | 1.788 | | | |
| kp050413.0087 | Comet Machholz 2004 Q2 | CM | 900 | 11:15 | +5:28 | 1.858 | | | |
| kp050413.0088 | Comet Tempel 1 | R | 300 | 11:39 | +4:28 | 2.265 | | | |
| kp050413.0089 | Comet Tempel 1 | R | 300 | 11:46 | +4:35 | 2.387 | | | |
| kp050413.0090 | Comet Tempel 1 | R | 300 | 11:53 | +4:41 | 2.524 | | | |
| kp050413.0091 | Comet Tempel 1 | R | 300 | 12:00 | +4:48 | 2.686 | | | |