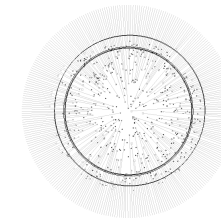
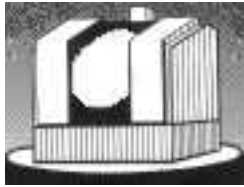


UT Date 04/14/2024 Observers RH

Focus 1.07 Filter none

| File          | Title   | Grat | Exp | UT    | RA          | Dec        | HA     | Air  | Prop            | Comments |
|---------------|---------|------|-----|-------|-------------|------------|--------|------|-----------------|----------|
| bias.2597     | parked  | 270  | 0   | 22:18 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| bias.2598     | parked  | 270  | 0   | 22:19 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| bias.2599     | parked  | 270  | 0   | 22:20 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| bias.2600     | parked  | 270  | 0   | 22:21 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| bias.2601     | parked  | 270  | 0   | 22:22 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| bias.2602     | parked  | 270  | 0   | 22:23 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| bias.2603     | parked  | 270  | 0   | 22:24 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| bias.2604     | parked  | 270  | 0   | 22:25 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| bias.2605     | parked  | 270  | 0   | 22:26 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| bias.2606     | parked  | 270  | 0   | 22:27 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| domeflat.2607 | ring250 | 270  | 7   | 22:51 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| domeflat.2608 | ring250 | 270  | 7   | 22:52 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| domeflat.2609 | ring250 | 270  | 7   | 22:53 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| domeflat.2610 | ring250 | 270  | 7   | 22:54 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| domeflat.2611 | ring250 | 270  | 7   | 22:55 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| domeflat.2612 | ring250 | 270  | 7   | 22:57 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| domeflat.2613 | ring250 | 270  | 7   | 22:58 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| comp.2614     | ring250 | 270  | 360 | 22:59 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| comp.2615     | ring250 | 270  | 360 | 23:06 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |
| comp.2616     | ring250 | 270  | 360 | 23:13 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |          |



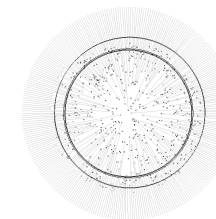
UT Date 04/14/2024 Observers RH

Focus 1.07 Filter none

| File                | Title        | Grat | Exp  | UT    | RA          | Dec          | HA     | Air  | Prop           | Comments  |
|---------------------|--------------|------|------|-------|-------------|--------------|--------|------|----------------|---|
| sflat.2617          | ring250      | 270  | 1    | 01:55 | -01:00:00.0 | -100:00:00.0 | +00:00 | 1.00 | calibration    | Counts a little low                                   |
| sflat.2618          | ring250      | 270  | 2    | 01:56 | -01:00:00.0 | -100:00:00.0 | +00:00 | 1.00 | calibration    | Counts are good.                                      |
| sflat.2619          | ring250      | 270  | 3    | 01:58 | -01:00:00.0 | -100:00:00.0 | +00:00 | 1.00 | calibration    |   |
| sflat.2620          | ring250      | 270  | 3    | 01:59 | -01:00:00.0 | -100:00:00.0 | +00:00 | 1.00 | calibration    |   |
| sflat.2621          | ring250      | 270  | 4    | 02:00 | -01:00:00.0 | -100:00:00.0 | +00:00 | 1.00 | calibration    |   |
| jiang_master.2.2622 | jiang_master | 270  | 1200 | 02:44 | +09:59:57.8 | +01:51:22    | -01:09 | 1.20 | 2024A-UAO-G199 | Clear, seeing=1.8"                                    |
| jiang_master.2.2623 | jiang_master | 270  | 1200 | 03:05 | +09:59:57.8 | +01:51:22    | -00:48 | 1.17 | 2024A-UAO-G199 | Seeing is better minus a little wind shake.           |
| jiang_master.2.2624 | jiang_master | 270  | 1200 | 03:26 | +09:59:57.8 | +01:51:22    | -00:26 | 1.16 | 2024A-UAO-G199 |   |
| jiang_master.2.2625 | jiang_master | 270  | 1200 | 03:47 | +09:59:57.8 | +01:51:22    | -00:05 | 1.15 | 2024A-UAO-G199 |   |
| jiang_master.2.2626 | jiang_master | 270  | 1200 | 04:08 | +09:59:57.8 | +01:51:22    | +00:15 | 1.15 | 2024A-UAO-G199 | Stopped early due to increasing winds from the south. |
| A1831_24a_7.2627    | A1831_24a    | 270  | 1200 | 04:46 | +13:59:13.7 | +27:57:24    | -03:05 | 1.31 | 2024A-SAO-9    | Clear, seeing=1.8"                                    |
| A1831_24a_7.2628    | A1831_24a    | 270  | 1200 | 05:07 | +13:59:13.7 | +27:57:24    | -02:44 | 1.23 | 2024A-SAO-9    |   |
| A1831_24a_7.2629    | A1831_24a    | 270  | 1200 | 05:28 | +13:59:13.7 | +27:57:24    | -02:23 | 1.17 | 2024A-SAO-9    |   |
| A1831_24a_7.2630    | A1831_24a    | 270  | 1200 | 05:49 | +13:59:13.7 | +27:57:24    | -02:02 | 1.12 | 2024A-SAO-9    |   |
| A2255_24a_2.2631    | A2255_24a    | 270  | 1200 | 06:32 | +17:12:50.9 | +64:01:36    | -04:31 | 1.63 | 2024A-SAO-9    | Clear, seeing=2.2"                                    |
| A2255_24a_2.2632    | A2255_24a    | 270  | 1200 | 06:53 | +17:12:50.9 | +64:01:36    | -04:10 | 1.55 | 2024A-SAO-9    | Seeing seems to be getting better.                    |
| A2255_24a_2.2633    | A2255_24a    | 270  | 1200 | 07:15 | +17:12:50.9 | +64:01:36    | -03:49 | 1.48 | 2024A-SAO-9    |   |
| A2255_24a_2.2634    | A2255_24a    | 270  | 1200 | 07:36 | +17:12:50.9 | +64:01:36    | -03:28 | 1.42 | 2024A-SAO-9    |   |
| A2255_24a_2.2635    | A2255_24a    | 270  | 1200 | 07:57 | +17:12:50.9 | +64:01:36    | -03:07 | 1.37 | 2024A-SAO-9    |   |
| A2255_24a_2.2636    | A2255_24a    | 270  | 1200 | 08:18 | +17:12:50.9 | +64:01:36    | -02:46 | 1.33 | 2024A-SAO-9    |   |



MMT OBSERVATORY HECTOSPEC LOG



UT Date 04/14/2024 Observers RH

Focus 1.07 Filter none

| File             | Title     | Grat | Exp  | UT    | RA          | Dec        | HA     | Air  | Prop            | Comments           |
|------------------|-----------|------|------|-------|-------------|------------|--------|------|-----------------|--------------------|
| A1831_24a_8.2637 | A1831_24a | 270  | 1200 | 08:53 | +13:59:24.3 | +28:02:14  | +01:01 | 1.03 | 2024A-SAO-9     | Clear, seeing=1.4" |
| A1831_24a_8.2638 | A1831_24a | 270  | 1200 | 09:14 | +13:59:24.3 | +28:02:14  | +01:22 | 1.05 | 2024A-SAO-9     |                    |
| A1831_24a_8.2639 | A1831_24a | 270  | 1200 | 09:36 | +13:59:24.3 | +28:02:14  | +01:44 | 1.08 | 2024A-SAO-9     |                    |
| A1831_24a_8.2640 | A1831_24a | 270  | 1200 | 09:57 | +13:59:24.3 | +28:02:14  | +02:05 | 1.12 | 2024A-SAO-9     |                    |
| A1831_24a_9.2641 | A1831_24a | 270  | 1440 | 10:31 | +13:59:24.4 | +28:02:30  | +02:39 | 1.21 | 2024A-SAO-9     | Clear, seeing=1.3" |
| A1831_24a_9.2642 | A1831_24a | 270  | 1440 | 10:56 | +13:59:24.4 | +28:02:30  | +03:04 | 1.30 | 2024A-SAO-9     |                    |
| A1831_24a_9.2643 | A1831_24a | 270  | 1440 | 11:21 | +13:59:24.4 | +28:02:30  | +03:29 | 1.41 | 2024A-SAO-9     |                    |
| dark.2644        | parked    | 270  | 1200 | 12:27 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |                    |
| dark.2645        | parked    | 270  | 1200 | 12:48 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |                    |
| dark.2646        | parked    | 270  | 1200 | 13:09 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |                    |
| dark.2647        | parked    | 270  | 1200 | 13:30 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n |                    |