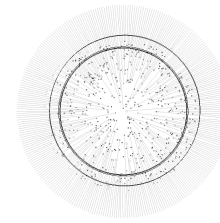
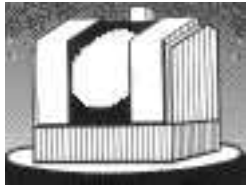
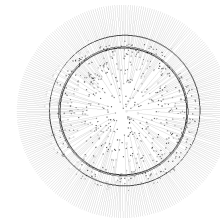
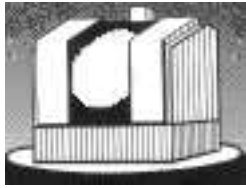
UT Date 03/07/2025 Observers KS

| File         | Title  | Filt | Exp | UT    | RA          | Dec        | HA     | Air  | Prop            | Bin | Comments  |
|--------------|--------|------|-----|-------|-------------|------------|--------|------|-----------------|-----|-----------|
| ring250.7195 | parked | RV31 | 0   | 23:26 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 | Bias 2x1  |
| ring250.7196 | parked | RV31 | 0   | 23:26 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |           |
| ring250.7197 | parked | RV31 | 0   | 23:27 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |           |
| ring250.7198 | parked | RV31 | 0   | 23:28 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |           |
| ring250.7199 | parked | RV31 | 0   | 23:28 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |           |
| ring250.7200 | parked | RV31 | 0   | 23:29 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |           |
| ring250.7201 | parked | RV31 | 0   | 23:30 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |           |
| ring250.7202 | parked | RV31 | 0   | 23:30 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |           |
| ring250.7203 | parked | RV31 | 0   | 23:31 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |           |
| ring250.7204 | parked | RV31 | 0   | 23:32 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |           |
| ring250.7205 | parked | RV31 | 0   | 23:33 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 | Bias; 2x3 |
| ring250.7206 | parked | RV31 | 0   | 23:33 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |           |
| ring250.7207 | parked | RV31 | 0   | 23:33 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |           |
| ring250.7208 | parked | RV31 | 0   | 23:34 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |           |
| ring250.7209 | parked | RV31 | 0   | 23:34 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |           |
| ring250.7210 | parked | RV31 | 0   | 23:34 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |           |
| ring250.7211 | parked | RV31 | 0   | 23:35 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |           |
| ring250.7212 | parked | RV31 | 0   | 23:35 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |           |
| ring250.7213 | parked | RV31 | 0   | 23:35 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |           |
| ring250.7214 | parked | RV31 | 0   | 23:36 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |           |



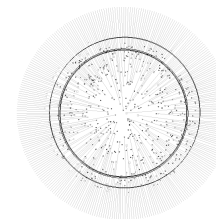
UT Date 03/07/2025 Observers KS

| File          | Title   | Filt | Exp | UT    | RA          | Dec        | HA     | Air  | Prop            | Bin | Comments   |
|---------------|---------|------|-----|-------|-------------|------------|--------|------|-----------------|-----|--|
| comp.7215     | ring250 | RV31 | 150 | 00:05 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 | RV31 2x3   |
| comp.7216     | ring250 | RV31 | 150 | 00:09 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |  |
| comp.7217     | ring250 | RV31 | 150 | 00:12 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |  |
| domeflat.7218 | ring250 | RV31 | 8   | 00:16 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |  |
| domeflat.7219 | ring250 | RV31 | 8   | 00:16 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |  |
| domeflat.7220 | ring250 | RV31 | 8   | 00:17 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |  |
| domeflat.7221 | ring250 | RV31 | 8   | 00:17 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |  |
| domeflat.7222 | ring250 | RV31 | 8   | 00:18 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |  |
| domeflat.7223 | ring250 | RV31 | 8   | 00:19 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |  |
| domeflat.7224 | ring250 | RV31 | 8   | 00:19 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x3 |  |
| comp.7225     | ring250 | Ca19 | 180 | 00:22 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 | Ca19 2x1   |
| comp.7226     | ring250 | Ca19 | 180 | 00:26 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |  |
| comp.7227     | ring250 | Ca19 | 180 | 00:29 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |  |
| domeflat.7228 | ring250 | Ca19 | 100 | 00:33 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 | Overexposed - was working from erro<br>neous notes |
| domeflat.7229 | ring250 | Ca19 | 15  | 00:36 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 | Better; counts 15,000                              |
| domeflat.7230 | ring250 | Ca19 | 15  | 00:38 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |  |
| domeflat.7231 | ring250 | Ca19 | 15  | 00:39 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |  |
| domeflat.7232 | ring250 | Ca19 | 15  | 00:40 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |  |
| domeflat.7233 | ring250 | Ca19 | 15  | 00:41 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |  |
| domeflat.7234 | ring250 | Ca19 | 15  | 00:42 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |  |

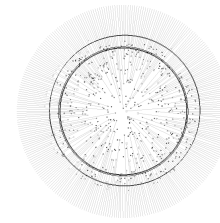
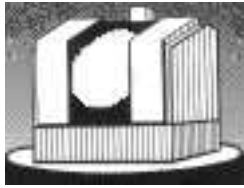


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| File          | Title   | Filt | Exp | UT    | RA          | Dec        | HA     | Air  | Prop        | Bin | Comments  |
|---------------|---------|------|-----|-------|-------------|------------|--------|------|-------------|-----|---|
| domeflat.7235 | ring250 | Ca19 | 15  | 00:43 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 |   |
| domeflat.7236 | ring250 | Ca19 | 15  | 00:44 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 |   |
| ring250.7237  | ring250 | Ca19 | 0   | 00:46 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 | The previous domeflats had a weird pattern. Making sure it doesn't persist elsewhere. |
| ring250.7238  | ring250 | Ca19 | 0   | 00:46 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 |   |
| ring250.7239  | ring250 | Ca19 | 0   | 00:47 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 |   |
| ring250.7240  | ring250 | Ca19 | 0   | 00:48 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 |   |
| ring250.7241  | ring250 | Ca19 | 0   | 00:48 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 |   |
| ring250.7242  | ring250 | Ca19 | 0   | 00:49 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 |   |
| ring250.7243  | ring250 | Ca19 | 0   | 00:50 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 |   |
| ring250.7244  | ring250 | Ca19 | 0   | 00:50 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 |   |
| ring250.7245  | ring250 | Ca19 | 0   | 00:51 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 |   |
| ring250.7246  | ring250 | Ca19 | 0   | 00:52 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 |   |
| domeflat.7247 | ring250 | Ca19 | 15  | 00:53 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 | Pattern persists  |
| sflat.7248    | ring250 | Ca19 | 25  | 01:04 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 | Ca19 2x1; Counts too low; 6000; 1 ear overhead  |
| sflat.7249    | ring250 | Ca19 | 60  | 01:06 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 | Counts 15,000; good   |
| sflat.7250    | ring250 | Ca19 | 75  | 01:08 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 | Counts 15,000; good   |
| sflat.7251    | ring250 | Ca19 | 90  | 01:10 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x1 | Counts 20,000; good   |
| sflat.7252    | ring250 | OB24 | 30  | 01:14 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x2 | OB24 2x2; counts high; 40,000   |
| sflat.7253    | ring250 | OB24 | 30  | 01:15 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x2 | Counts 30,000; high   |
| sflat.7254    | ring250 | OB24 | 25  | 01:16 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration | 2x2 | Counts 30,000; better   |

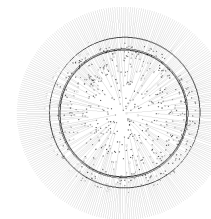
UT Date 03/07/2025 Observers KS

| File                  | Title          | Filt | Exp | UT    | RA          | Dec        | HA     | Air  | Prop         | Bin | Comments                                   |
|-----------------------|----------------|------|-----|-------|-------------|------------|--------|------|--------------|-----|--|
| sflat.7255            | ring250        | OB24 | 25  | 01:17 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration  | 2x2 | Counts 20,000; good                        |
| sflat.7256            | ring250        | OB24 | 25  | 01:18 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration  | 2x2 | Counts 20,000; good                        |
| sflat.7257            | ring250        | OB24 | 25  | 01:19 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration  | 2x2 | Counts 20,000; good                        |
| sflat.7258            | ring250        | RV31 | 30  | 01:22 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration  | 2x3 | RV31 2x3; counts high; 30,000              |
| sflat.7259            | ring250        | RV31 | 25  | 01:23 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration  | 2x3 | Counts 20,000; good                        |
| sflat.7260            | ring250        | RV31 | 25  | 01:24 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration  | 2x3 | Counts good; 20,000                        |
| sflat.7261            | ring250        | RV31 | 25  | 01:25 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration  | 2x3 | Counts good; just below 20,000             |
| sflat.7262            | ring250        | RV31 | 30  | 01:26 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration  | 2x3 | Counts good; just below 20,000             |
| sflat.7263            | ring250        | RV31 | 40  | 01:27 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibration  | 2x3 | Counts good; 20,000                        |
| domeflat.7264         | hb9f1_bright   | Ca41 | 200 | 03:27 | +05:00:38.9 | +45:56:52  | +02:02 | 1.12 | 2025A-SAO-12 | 2x1 |  |
| comp.7265             | hb9f1_bright   | Ca41 | 250 | 03:32 | +05:00:38.9 | +45:56:52  | +02:06 | 1.13 | 2025A-SAO-12 | 2x1 |  |
| hb9f1_bright_3.7266   | hb9f1_bright   | Ca41 | 720 | 03:37 | +05:00:39.2 | +45:56:48  | +02:11 | 1.14 | 2025A-SAO-12 | 2x1 | Clear; WFS=2.04"                           |
| hb9f1_bright_3.7267   | hb9f1_bright   | Ca41 | 720 | 03:50 | +05:00:39.2 | +45:56:48  | +02:24 | 1.16 | 2025A-SAO-12 | 2x1 | Thin clouds                                |
| hb9f1_bright_3.7268   | hb9f1_bright   | Ca41 | 720 | 04:02 | +05:00:39.2 | +45:56:48  | +02:37 | 1.19 | 2025A-SAO-12 | 2x1 |  |
| hb9f1_bright_3.7269   | hb9f1_bright   | Ca41 | 720 | 04:15 | +05:00:39.2 | +45:56:48  | +02:50 | 1.22 | 2025A-SAO-12 | 2x1 | Extra exps for poor seeing                 |
| hb9f1_bright_3.7270   | hb9f1_bright   | Ca41 | 720 | 04:28 | +05:00:39.2 | +45:56:48  | +03:02 | 1.26 | 2025A-SAO-12 | 2x1 |  |
| comp.7271             | hb9f1_bright   | Ca41 | 250 | 04:41 | +05:00:38.9 | +45:56:52  | +03:15 | 1.30 | 2025A-SAO-12 | 2x1 |  |
| domeflat.7272         | vro42f1_bright | Ca41 | 200 | 05:01 | +05:26:34.4 | +42:50:46  | +03:10 | 1.28 | 2025A-SAO-12 | 2x1 |  |
| comp.7273             | vro42f1_bright | Ca41 | 250 | 05:05 | +05:26:34.4 | +42:50:46  | +03:14 | 1.29 | 2025A-SAO-12 | 2x1 |  |
| vro42f1_bright_1.7274 | vro42f1_bright | Ca41 | 720 | 05:10 | +05:26:34.8 | +42:50:48  | +03:19 | 1.31 | 2025A-SAO-12 | 2x1 | Clear; WFS=3.34". FWHM looks better though |



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| File                  | Title          | Filt | Exp | UT    | RA          | Dec        | HA     | Air  | Prop            | Bin | Comments                   |
|-----------------------|----------------|------|-----|-------|-------------|------------|--------|------|-----------------|-----|----------------------------|
| vro42f1_bright_1.7275 | vro42f1_bright | Ca41 | 720 | 05:23 | +05:26:34.8 | +42:50:48  | +03:32 | 1.36 | 2025A-SAO-12    | 2x1 |                            |
| vro42f1_bright_1.7276 | vro42f1_bright | Ca41 | 720 | 05:36 | +05:26:34.8 | +42:50:48  | +03:45 | 1.42 | 2025A-SAO-12    | 2x1 |                            |
| vro42f1_bright_1.7277 | vro42f1_bright | Ca41 | 720 | 05:48 | +05:26:34.8 | +42:50:48  | +03:57 | 1.48 | 2025A-SAO-12    | 2x1 | Extra exps for poor seeing |
| vro42f1_bright_1.7278 | vro42f1_bright | Ca41 | 720 | 06:01 | +05:26:34.8 | +42:50:48  | +04:10 | 1.55 | 2025A-SAO-12    | 2x1 |                            |
| vro42f1_bright_1.7279 | vro42f1_bright | Ca41 | 720 | 06:14 | +05:26:34.8 | +42:50:48  | +04:23 | 1.63 | 2025A-SAO-12    | 2x1 |                            |
| comp.7280             | vro42f1_bright | Ca41 | 250 | 06:27 | +05:26:34.4 | +42:50:46  | +04:36 | 1.72 | 2025A-SAO-12    | 2x1 |                            |
| domeflat.7281         | tz007346_gf1   | RV31 | 8   | 07:02 | +14:12:50.1 | +10:00:13  | -03:33 | 1.69 | 2025A-SAO-24    | 2x3 |                            |
| comp.7282             | tz007346_gf1   | RV31 | 150 | 07:03 | +14:12:50.1 | +10:00:13  | -03:33 | 1.69 | 2025A-SAO-24    | 2x3 |                            |
| comp.7284             | ring250        | Ca41 | 250 | 08:02 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 | Ca41 2x1                   |
| comp.7285             | ring250        | Ca41 | 250 | 08:06 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |                            |
| comp.7286             | ring250        | Ca41 | 250 | 08:11 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |                            |
| domeflat.7287         | ring250        | Ca41 | 200 | 08:16 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |                            |
| domeflat.7288         | ring250        | Ca41 | 200 | 08:21 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |                            |
| domeflat.7289         | ring250        | Ca41 | 200 | 08:25 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |                            |
| domeflat.7290         | ring250        | Ca41 | 200 | 08:29 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |                            |
| domeflat.7291         | ring250        | Ca41 | 200 | 08:33 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |                            |
| domeflat.7292         | ring250        | Ca41 | 200 | 08:37 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |                            |
| domeflat.7293         | ring250        | Ca41 | 200 | 08:41 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x1 |                            |
| dark.7294             | ring250        | RV31 | 900 | 09:04 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x2 |                            |
| dark.7295             | ring250        | RV31 | 900 | 09:20 | -01:00:00.0 | -100:00:00 | -00:00 | 1.00 | calibratio<br>n | 2x2 |                            |

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| <i>File</i> | <i>Title</i> | <i>Filt</i> | <i>Exp</i> | <i>UT</i> | <i>RA</i>   | <i>Dec</i> | <i>HA</i> | <i>Air</i> | <i>Prop</i>     | <i>Bin</i> | <i>Comments</i> |
|-------------|--------------|-------------|------------|-----------|-------------|------------|-----------|------------|-----------------|------------|-----------------|
| dark.7296   | ring250      | RV31        | 900        | 09:35     | -01:00:00.0 | -100:00:00 | -00:00    | 1.00       | calibratio<br>n | 2x2        |                 |
| dark.7297   | ring250      | RV31        | 900        | 09:51     | -01:00:00.0 | -100:00:00 | -00:00    | 1.00       | calibratio<br>n | 2x3        |                 |
| dark.7298   | ring250      | RV31        | 900        | 10:06     | -01:00:00.0 | -100:00:00 | -00:00    | 1.00       | calibratio<br>n | 2x3        |                 |
| dark.7299   | ring250      | RV31        | 900        | 10:22     | -01:00:00.0 | -100:00:00 | -00:00    | 1.00       | calibratio<br>n | 2x3        |                 |
| dark.7300   | ring250      | RV31        | 900        | 10:37     | -01:00:00.0 | -100:00:00 | -00:00    | 1.00       | calibratio<br>n | 2x1        |                 |
| dark.7301   | ring250      | RV31        | 900        | 10:53     | -01:00:00.0 | -100:00:00 | -00:00    | 1.00       | calibratio<br>n | 2x1        |                 |
| dark.7302   | ring250      | RV31        | 900        | 11:09     | -01:00:00.0 | -100:00:00 | -00:00    | 1.00       | calibratio<br>n | 2x1        |                 |
| dark.7303   | ring250      | RV31        | 900        | 11:25     | -01:00:00.0 | -100:00:00 | -00:00    | 1.00       | calibratio<br>n | 2x2        |                 |
| dark.7304   | ring250      | RV31        | 900        | 11:40     | -01:00:00.0 | -100:00:00 | -00:00    | 1.00       | calibratio<br>n | 2x2        |                 |