

CCD Commander Log File

Software v1.3.12

This copy is registered to:

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02:38:47 Action starting.
02:38:47 Connecting to the Camera...
02:38:47 Connecting to the Mount...
02:38:48 Connecting to FocusMax...
02:38:48 Turning on Fan.
02:38:48 Turning on cooler.
02:38:48 Setting cooler = -20
02:38:48 Simple Temperature Control complete.
02:38:48 Running m13_red_30m.act
02:38:48 Starting move to action.
02:38:48 Precessing coordinates.
02:38:48 J2000 Coordinates: RA: 16h 31m 03.0s Dec: +35°13'30"
02:38:48 JNow Coordinates: RA: 16h 31m 16.6s Dec: +35°12'43"
02:38:48 Slewing to SAO 65356...
02:39:00 Done slewing!
02:39:00 Starting post slew delay.
02:39:03 Completed post slew delay.
02:39:03 Setting imager bin mode to 2x2.
02:39:03 Setting filter to Luminance.
02:39:10 Taking 5 second image for Plate Solve...
02:39:19 Saving Image...
02:39:19 Performing Plate solve with CCDSoft...
02:39:21 Plate solve results:
02:39:21 Pixel Scale = 1.85 asp.
02:39:21 North Angle = 18.35 degrees.
02:39:21 J2000 Coordinates = RA: 16h 31m 05.5s Dec: +35°14'00"
02:39:21 Syncing to RA 16.52196, Dec 35.22038
02:39:30 Starting focus run...
02:41:22 Focus succeeded! HFD = 3.38
02:41:22 Starting move to action.
02:41:22 Precessing coordinates.
02:41:22 J2000 Coordinates: RA: 16h 41m 42.0s Dec: +36°27'39"
02:41:22 JNow Coordinates: RA: 16h 41m 55.2s Dec: +36°26'58"
02:41:22 Slewing to M 13...
02:41:33 Done slewing!
02:41:33 Starting post slew delay.
02:41:36 Completed post slew delay.
02:41:36 Setting image type to Light.
02:41:36 Setting imager bin mode to 2x2.
02:41:36 Setting filter to Red.
02:41:38 Setting imager to full frame.
02:41:38 Setting imager exposure time to 300 seconds.
02:41:39 Setting autoguider bin mode to 2x2.
02:41:39 Taking a 1 second autoguider exposure.
02:41:45 Beginning guide star search...
02:41:47 Found possible guide star at 80, 104 with a max brightness of 6620 ADU.
02:41:47 Taking a 1 second autoguider exposure.
02:41:51 Beginning guide star search...
02:41:52 Found appropriate guide star at 81, 104 with a max brightness of 8627 ADU.
02:41:52 Trying to autoguide on star at 81.0,104.0.
02:41:52 Starting to autoguide.
02:41:56 Checking autoguider max error...
02:41:57 Autoguider error: X=-0.37 Y=0.45
02:41:57 Checking autoguider max error...
02:42:00 Autoguider error: X=-0.18 Y=0.17
02:42:00 Autoguider max error < 0.4!
02:42:00 Stopping autoguider...

02:42:02 Automatic guide star acquisition successful!
02:42:02 Setting autoguider exposure time to 1 seconds.
02:42:02 Setting guide star position to 81.0,104.0.
02:42:02 Starting to autoguide.
02:42:06 Checking autoguider max error...
02:42:07 Autoguider error: X=-0.68 Y=-0.38
02:42:07 Checking autoguider max error...
02:42:10 Autoguider error: X=0.14 Y=-0.44
02:42:10 Checking autoguider max error...
02:42:12 Autoguider error: X=-0.54 Y=-0.84
02:42:12 Checking autoguider max error...
02:42:15 Autoguider error: X=0.27 Y=-0.57
02:42:15 Checking autoguider max error...
02:42:17 Autoguider error: X=0.22 Y=-0.39
02:42:17 Autoguider max error < 0.4!
02:42:17 Starting imager exposure (1 of 6).
02:47:22 Imager exposure complete.
02:47:22 Stopping autoguider...
02:47:24 Setting autoguider exposure time to 1 seconds.
02:47:24 Setting guide star position to 83.0,104.0.
02:47:24 Starting to autoguide.
02:47:28 Checking autoguider max error...
02:47:28 Autoguider error: X=-1.77 Y=-0.53
02:47:28 Checking autoguider max error...
02:47:31 Autoguider error: X=-0.42 Y=-0.15
02:47:31 Checking autoguider max error...
02:47:32 Autoguider error: X=-0.06 Y=-0.05
02:47:32 Autoguider max error < 0.4!
02:47:32 Starting imager exposure (2 of 6).
02:52:37 Imager exposure complete.
02:52:37 Stopping autoguider...
02:52:39 Setting autoguider exposure time to 1 seconds.
02:52:39 Setting guide star position to 83.0,106.0.
02:52:39 Starting to autoguide.
02:52:43 Checking autoguider max error...
02:52:43 Autoguider error: X=-0.48 Y=-2.05
02:52:43 Checking autoguider max error...
02:52:46 Autoguider error: X=-0.14 Y=0.26
02:52:46 Autoguider max error < 0.4!
02:52:46 Starting imager exposure (3 of 6).
02:57:51 Imager exposure complete.
02:57:51 Stopping autoguider...
02:57:53 Setting autoguider exposure time to 1 seconds.
02:57:53 Setting guide star position to 81.0,106.0.
02:57:53 Starting to autoguide.
02:57:57 Checking autoguider max error...
02:57:58 Autoguider error: X=2.42 Y=-0.38
02:57:58 Checking autoguider max error...
02:58:01 Autoguider error: X=0.75 Y=0.34
02:58:01 Checking autoguider max error...
02:58:03 Autoguider error: X=0.35 Y=0.33
02:58:03 Autoguider max error < 0.4!
02:58:03 Starting imager exposure (4 of 6).
03:03:09 Imager exposure complete.
03:03:09 Stopping autoguider...
03:03:11 Setting autoguider exposure time to 1 seconds.
03:03:11 Setting guide star position to 79.0,106.0.
03:03:11 Starting to autoguide.
03:03:15 Checking autoguider max error...
03:03:16 Autoguider error: X=2.37 Y=-0.10
03:03:16 Checking autoguider max error...
03:03:19 Autoguider error: X=0.93 Y=0.44
03:03:19 Checking autoguider max error...

03:03:21 Autoguider error: X=0.06 Y=0.10
03:03:21 Autoguider max error < 0.4!
03:03:21 Starting imager exposure (5 of 6).
03:08:27 Imager exposure complete.
03:08:27 Stopping autoguider...
03:08:29 Setting autoguider exposure time to 1 seconds.
03:08:29 Setting guide star position to 79.0,104.0.
03:08:29 Starting to autoguide.
03:08:33 Checking autoguider max error...
03:08:34 Autoguider error: X=-0.89 Y=1.78
03:08:34 Checking autoguider max error...
03:08:37 Autoguider error: X=-0.74 Y=1.64
03:08:37 Checking autoguider max error...
03:08:40 Autoguider error: X=-0.85 Y=1.27
03:08:40 Checking autoguider max error...
03:08:42 Autoguider error: X=-0.44 Y=1.48
03:08:42 Checking autoguider max error...
03:08:45 Autoguider error: X=-0.16 Y=1.19
03:08:45 Checking autoguider max error...
03:08:47 Autoguider error: X=-0.30 Y=1.20
03:08:47 Checking autoguider max error...
03:08:50 Autoguider error: X=-0.06 Y=1.12
03:08:50 Checking autoguider max error...
03:08:52 Autoguider error: X=0.12 Y=0.88
03:08:52 Checking autoguider max error...
03:08:55 Autoguider error: X=-0.41 Y=0.48
03:08:55 Checking autoguider max error...
03:08:57 Autoguider error: X=-0.71 Y=0.22
03:08:57 Checking autoguider max error...
03:08:59 Autoguider error: X=0.30 Y=-0.01
03:08:59 Autoguider max error < 0.4!
03:08:59 Starting imager exposure (6 of 6).
03:14:05 Imager exposure complete.
03:14:05 Stopping autoguider...
03:14:07 Take Images Action complete.
03:14:07 Done running m13_red_30m.act
03:14:07 Running m13_grn_30m.act
03:14:07 Starting move to action.
03:14:07 Precessing coordnates.
03:14:07 J2000 Coordinates: RA: 16h 31m 03.0s Dec: +35°13'30"
03:14:07 JNow Coordinates: RA: 16h 31m 16.6s Dec: +35°12'43"
03:14:07 Slewing to SAO 65356...
03:14:18 Done slewing!
03:14:18 Starting post slew delay.
03:14:21 Completed post slew delay.
03:14:21 Setting imager bin mode to 2x2.
03:14:21 Setting filter to Luminance.
03:14:28 Taking 5 second image for Plate Solve...
03:14:47 Saving Image...
03:14:47 Performing Plate Solve with CCDSoft...
03:14:48 Plate solve results:
03:14:48 Pixel Scale = 1.85 asp.
03:14:48 North Angle = 18.36 degrees.
03:14:48 J2000 Coordinates = RA: 16h 31m 05.6s Dec: +35°15'13"
03:14:48 Syncing to RA 16.52199, Dec 35.24076
03:14:57 Starting focus run...
03:16:46 Focus succeeded! HFD = 2.95
03:16:46 Starting move to action.
03:16:46 Precessing coordnates.
03:16:46 J2000 Coordinates: RA: 16h 41m 42.0s Dec: +36°27'39"
03:16:46 JNow Coordinates: RA: 16h 41m 55.2s Dec: +36°26'58"
03:16:46 Slewing to M 13...
03:16:57 Done slewing!

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03:16:57 Starting post slew delay.
03:17:00 Completed post slew delay.
03:17:00 Setting image type to Light.
03:17:00 Setting imager bin mode to 2x2.
03:17:00 Setting filter to Green.
03:17:02 Setting imager to full frame.
03:17:02 Setting imager exposure time to 300 seconds.
03:17:03 Setting autoguider bin mode to 2x2.
03:17:03 Taking a 1 second autoguider exposure.
03:17:11 Beginning guide star search...
03:17:12 Found possible guide star at 82, 106 with a max brightness of 9095 ADU.
03:17:12 Taking a 1 second autoguider exposure.
03:17:16 Beginning guide star search...
03:17:17 Found appropriate guide star at 82, 105 with a max brightness of 10453 ADU.
03:17:17 Trying to autoguide on star at 82.0,105.0.
03:17:17 Starting to autoguide.
03:17:21 Checking autoguider max error...
03:17:22 Autoguider error: X=0.15 Y=0.42
03:17:22 Checking autoguider max error...
03:17:24 Autoguider error: X=-0.17 Y=0.02
03:17:24 Autoguider max error < 0.4!
03:17:24 Stopping autoguider...
03:17:26 Automatic guide star acquisition successful!
03:17:26 Setting autoguider exposure time to 1 seconds.
03:17:26 Setting guide star position to 82.0,105.0.
03:17:26 Starting to autoguide.
03:17:30 Checking autoguider max error...
03:17:30 Autoguider error: X=0.19 Y=-0.10
03:17:30 Autoguider max error < 0.4!
03:17:30 Starting imager exposure (1 of 6).
03:22:35 Imager exposure complete.
03:22:35 Stopping autoguider...
03:22:37 Setting autoguider exposure time to 1 seconds.
03:22:37 Setting guide star position to 84.0,105.0.
03:22:37 Starting to autoguide.
03:22:41 Checking autoguider max error...
03:22:43 Autoguider error: X=-1.82 Y=-0.18
03:22:43 Checking autoguider max error...
03:22:45 Autoguider error: X=-0.14 Y=0.30
03:22:45 Autoguider max error < 0.4!
03:22:45 Starting imager exposure (2 of 6).
03:27:50 Imager exposure complete.
03:27:50 Stopping autoguider...
03:27:52 Setting autoguider exposure time to 1 seconds.
03:27:52 Setting guide star position to 84.0,107.0.
03:27:52 Starting to autoguide.
03:27:56 Checking autoguider max error...
03:27:56 Autoguider error: X=0.31 Y=-2.29
03:27:56 Checking autoguider max error...
03:27:59 Autoguider error: X=0.97 Y=-0.89
03:27:59 Checking autoguider max error...
03:28:01 Autoguider error: X=-0.08 Y=0.27
03:28:01 Autoguider max error < 0.4!
03:28:01 Starting imager exposure (3 of 6).
03:33:05 Imager exposure complete.
03:33:06 Stopping autoguider...
03:33:08 Setting autoguider exposure time to 1 seconds.
03:33:08 Setting guide star position to 82.0,107.0.
03:33:08 Starting to autoguide.
03:33:12 Checking autoguider max error...
03:33:12 Autoguider error: X=1.85 Y=-0.20
03:33:12 Checking autoguider max error...

03:33:14 Autoguider error: x=0.77 Y=0.09
03:33:14 Checking autoguider max error...
03:33:16 Autoguider error: x=0.03 Y=0.09
03:33:16 Autoguider max error < 0.4!
03:33:16 Starting imager exposure (4 of 6).
03:38:21 Imager exposure complete.
03:38:21 Stopping autoguider...
03:38:23 Setting autoguider exposure time to 1 seconds.
03:38:23 Setting guide star position to 80.0,107.0.
03:38:23 Starting to autoguide.
03:38:27 Checking autoguider max error...
03:38:27 Autoguider error: x=2.22 Y=-0.45
03:38:27 Checking autoguider max error...
03:38:29 Autoguider error: x=0.78 Y=0.40
03:38:29 Checking autoguider max error...
03:38:31 Autoguider error: x=-0.03 Y=0.16
03:38:31 Autoguider max error < 0.4!
03:38:31 Starting imager exposure (5 of 6).
03:43:36 Imager exposure complete.
03:43:36 Stopping autoguider...
03:43:38 Setting autoguider exposure time to 1 seconds.
03:43:38 Setting guide star position to 80.0,105.0.
03:43:38 Starting to autoguide.
03:43:43 Checking autoguider max error...
03:43:43 Autoguider error: x=-0.46 Y=1.72
03:43:43 Checking autoguider max error...
03:43:45 Autoguider error: x=-0.09 Y=1.76
03:43:45 Checking autoguider max error...
03:43:47 Autoguider error: x=-0.24 Y=1.89
03:43:47 Checking autoguider max error...
03:43:50 Autoguider error: x=-0.90 Y=1.54
03:43:50 Checking autoguider max error...
03:43:52 Autoguider error: x=-0.28 Y=1.39
03:43:52 Checking autoguider max error...
03:43:54 Autoguider error: x=0.15 Y=1.71
03:43:54 Checking autoguider max error...
03:43:56 Autoguider error: x=-0.23 Y=1.09
03:43:56 Checking autoguider max error...
03:43:58 Autoguider error: x=-0.59 Y=0.68
03:43:58 Checking autoguider max error...
03:44:00 Autoguider error: x=-0.19 Y=0.20
03:44:00 Autoguider max error < 0.4!
03:44:00 Starting imager exposure (6 of 6).
03:49:05 Imager exposure complete.
03:49:05 Stopping autoguider...
03:49:07 Take Images Action complete.
03:49:07 Done running m13_grn_30m.act
03:49:07 Running m13_blu_30m.act
03:49:07 Starting move to action.
03:49:07 Precessing coordnates.
03:49:07 J2000 Coordinates: RA: 16h 31m 03.0s Dec: +35°13'30"
03:49:07 JNow Coordinates: RA: 16h 31m 16.6s Dec: +35°12'43"
03:49:07 Slewing to SAO 65356...
03:49:19 Done slewing!
03:49:19 Starting post slew delay.
03:49:22 Completed post slew delay.
03:49:22 Setting imager bin mode to 2x2.
03:49:22 Setting filter to Luminance.
03:49:28 Taking 5 second image for Plate Solve...
03:49:47 Saving Image...
03:49:47 Performing Plate Solve with CCDSoft...
03:49:48 Plate solve results:
03:49:48 Pixel scale = 1.85 asp.

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03:49:48 North Angle = 18.39 degrees.
03:49:48 J2000 Coordinates = RA: 16h 31m 05.9s Dec: +35°15'20"
03:49:48 Syncing to RA 16.52208, Dec 35.24271
03:49:58 Starting focus run...
03:51:41 Focus succeeded! HFD = 2.99
03:51:41 Starting move to action.
03:51:41 Precessing coordinates.
03:51:41 J2000 Coordinates: RA: 16h 41m 42.0s Dec: +36°27'39"
03:51:41 JNow Coordinates: RA: 16h 41m 55.2s Dec: +36°26'58"
03:51:41 Slewing to M 13...
03:51:52 Done slewing!
03:51:53 Starting post slew delay.
03:51:56 Completed post slew delay.
03:51:56 Setting image type to Light.
03:51:56 Setting imager bin mode to 2x2.
03:51:56 Setting filter to Blue.
03:51:58 Setting imager to full frame.
03:51:58 Setting imager exposure time to 300 seconds.
03:51:59 Setting autoguider bin mode to 2x2.
03:51:59 Taking a 1 second autoguider exposure.
03:52:05 Beginning guide star search...
03:52:06 Found possible guide star at 81, 106 with a max brightness of 11282 ADU.
03:52:06 Taking a 1 second autoguider exposure.
03:52:10 Beginning guide star search...
03:52:12 Found appropriate guide star at 81, 105 with a max brightness of 10758 ADU.
03:52:12 Trying to autoguide on star at 81.0,105.0.
03:52:12 Starting to autoguide.
03:52:16 Checking autoguider max error...
03:52:16 Autoguider error: X=-0.13 Y=0.55
03:52:16 Checking autoguider max error...
03:52:18 Autoguider error: X=-0.32 Y=0.12
03:52:18 Autoguider max error < 0.4!
03:52:18 Stopping autoguider...
03:52:20 Automatic guide star acquisition successful!
03:52:20 Setting autoguider exposure time to 1 seconds.
03:52:20 Setting guide star position to 81.0,105.0.
03:52:20 Starting to autoguide.
03:52:24 Checking autoguider max error...
03:52:24 Autoguider error: X=-0.12 Y=-0.22
03:52:24 Autoguider max error < 0.4!
03:52:24 Starting imager exposure (1 of 6).
03:57:29 Imager exposure complete.
03:57:29 Stopping autoguider...
03:57:32 Setting autoguider exposure time to 1 seconds.
03:57:32 Setting guide star position to 83.0,105.0.
03:57:32 Starting to autoguide.
03:57:36 Checking autoguider max error...
03:57:37 Autoguider error: X=-1.56 Y=-0.24
03:57:37 Checking autoguider max error...
03:57:39 Autoguider error: X=-0.31 Y=-0.16
03:57:39 Autoguider max error < 0.4!
03:57:39 Starting imager exposure (2 of 6).
04:02:45 Imager exposure complete.
04:02:45 Stopping autoguider...
04:02:47 Setting autoguider exposure time to 1 seconds.
04:02:47 Setting guide star position to 83.0,107.0.
04:02:47 Starting to autoguide.
04:02:51 Checking autoguider max error...
04:02:52 Autoguider error: X=0.03 Y=-1.87
04:02:52 Checking autoguider max error...
04:02:55 Autoguider error: X=-0.18 Y=0.25
04:02:55 Autoguider max error < 0.4!

04:02:55 Starting imager exposure (3 of 6).
04:08:00 Imager exposure complete.
04:08:00 Stopping autoguider...
04:08:02 Setting autoguider exposure time to 1 seconds.
04:08:02 Setting guide star position to 81.0,107.0.
04:08:02 Starting to autoguide.
04:08:06 Checking autoguider max error...
04:08:08 Autoguider error: X=2.12 Y=-0.24
04:08:08 Checking autoguider max error...
04:08:10 Autoguider error: X=0.80 Y=0.08
04:08:10 Checking autoguider max error...
04:08:13 Autoguider error: X=-0.21 Y=-0.41
04:08:13 Checking autoguider max error...
04:08:15 Autoguider error: X=-0.04 Y=0.19
04:08:15 Autoguider max error < 0.4!
04:08:15 Starting imager exposure (4 of 6).
04:13:20 Imager exposure complete.
04:13:20 Stopping autoguider...
04:13:23 Setting autoguider exposure time to 1 seconds.
04:13:23 Setting guide star position to 79.0,107.0.
04:13:23 Starting to autoguide.
04:13:27 Checking autoguider max error...
04:13:28 Autoguider error: X=2.35 Y=0.13
04:13:28 Checking autoguider max error...
04:13:31 Autoguider error: X=0.52 Y=-0.87
04:13:31 Checking autoguider max error...
04:13:33 Autoguider error: X=0.63 Y=-0.81
04:13:33 Checking autoguider max error...
04:13:36 Autoguider error: X=0.17 Y=0.15
04:13:36 Autoguider max error < 0.4!
04:13:36 Starting imager exposure (5 of 6).
04:18:41 Imager exposure complete.
04:18:41 Stopping autoguider...
04:18:43 Setting autoguider exposure time to 1 seconds.
04:18:43 Setting guide star position to 79.0,105.0.
04:18:43 Starting to autoguide.
04:18:47 Checking autoguider max error...
04:18:49 Autoguider error: X=-0.28 Y=1.52
04:18:49 Checking autoguider max error...
04:18:51 Autoguider error: X=0.09 Y=1.74
04:18:51 Checking autoguider max error...
04:18:54 Autoguider error: X=-0.57 Y=1.35
04:18:54 Checking autoguider max error...
04:18:56 Autoguider error: X=-0.44 Y=1.08
04:18:56 Checking autoguider max error...
04:18:59 Autoguider error: X=-0.08 Y=1.08
04:18:59 Checking autoguider max error...
04:19:02 Autoguider error: X=0.01 Y=1.23
04:19:02 Checking autoguider max error...
04:19:04 Autoguider error: X=-0.34 Y=0.95
04:19:04 Checking autoguider max error...
04:19:07 Autoguider error: X=-0.51 Y=1.00
04:19:07 Checking autoguider max error...
04:19:09 Autoguider error: X=-0.09 Y=0.70
04:19:09 Checking autoguider max error...
04:19:12 Autoguider error: X=-0.19 Y=0.50
04:19:12 Checking autoguider max error...
04:19:14 Autoguider error: X=-0.05 Y=0.32
04:19:14 Autoguider max error < 0.4!
04:19:14 Starting imager exposure (6 of 6).
04:24:20 Imager exposure complete.
04:24:20 Stopping autoguider...
04:24:22 Take Images Action complete.

04:24:22 Done running m13_blu_30m.act
04:24:22 Running m13_lum_30m.act
04:24:22 Running Action List Iteration #1
04:24:22 Starting move to action.
04:24:22 Precessing coordinates.
04:24:22 J2000 Coordinates: RA: 16h 31m 03.0s Dec: +35°13'30"
04:24:22 JNow Coordinates: RA: 16h 31m 16.6s Dec: +35°12'43"
04:24:22 Slewing to SAO 65356...
04:24:33 Done slewing!
04:24:33 Starting post slew delay.
04:24:36 Completed post slew delay.
04:24:36 Setting imager bin mode to 2x2.
04:24:36 Setting filter to Luminance.
04:24:42 Taking 5 second image for Plate solve...
04:25:02 Saving Image...
04:25:02 Performing Plate solve with CCDSoft...
04:25:03 Plate solve results:
04:25:03 Pixel Scale = 1.86 asp.
04:25:03 North Angle = 18.41 degrees.
04:25:03 J2000 Coordinates = RA: 16h 31m 03.5s Dec: +35°15'29"
04:25:04 Syncing to RA 16.52141, Dec 35.24496
04:25:11 Starting focus run...
04:26:52 Focus succeeded! HFD = 2.87
04:26:52 Starting move to action.
04:26:52 Precessing coordinates.
04:26:52 J2000 Coordinates: RA: 16h 41m 42.0s Dec: +36°27'39"
04:26:52 JNow Coordinates: RA: 16h 41m 55.2s Dec: +36°26'58"
04:26:52 Slewing to m13...
04:27:04 Done slewing!
04:27:04 Starting post slew delay.
04:27:07 Completed post slew delay.
04:27:07 Setting image type to Light.
04:27:07 Setting imager bin mode to 1x1.
04:27:07 Setting filter to Luminance.
04:27:09 Setting imager to full frame.
04:27:09 Setting imager exposure time to 450 seconds.
04:27:10 Setting autoguider bin mode to 2x2.
04:27:10 Taking a 1 second autoguider exposure.
04:27:16 Beginning guide star search...
04:27:17 Taking a 6.82 second autoguider exposure.
04:27:36 Beginning guide star search...
04:27:37 Found possible guide star at 113, 184 with a max brightness of 2575 ADU.
04:27:37 Taking a 6.82 second autoguider exposure.
04:27:48 Beginning guide star search...
04:27:49 Taking a 7.55 second autoguider exposure.
04:28:09 Beginning guide star search...
04:28:10 Found possible guide star at 111, 182 with a max brightness of 3471 ADU.
04:28:10 Taking a 7.55 second autoguider exposure.
04:28:21 Beginning guide star search...
04:28:22 Found appropriate guide star at 110, 181 with a max brightness of 3396 ADU.
04:28:22 Trying to autoguide on star at 110.0,181.0.
04:28:22 Starting to autoguide.
04:28:53 Checking autoguider max error...
04:28:57 Autoguider error: X=-0.04 Y=-1.60
04:28:57 Checking autoguider max error...
04:29:07 Autoguider error: X=-0.11 Y=-2.07
04:29:07 Checking autoguider max error...
04:29:15 Autoguider error: X=0.13 Y=-2.21
04:29:15 Checking autoguider max error...
04:29:24 Autoguider error: X=0.42 Y=-2.34
04:29:24 Checking autoguider max error...
04:29:33 Autoguider error: X=0.56 Y=-2.70

04:29:33 Checking autoguider max error...
04:29:42 Autoguider error: X=0.23 Y=-2.58
04:29:42 Checking autoguider max error...
04:29:51 Autoguider error: X=-0.09 Y=-1.63
04:29:51 Checking autoguider max error...
04:29:59 Autoguider error: X=-0.52 Y=-0.35
04:29:59 Checking autoguider max error...
04:30:08 Autoguider error: X=-0.09 Y=-0.66
04:30:08 Checking autoguider max error...
04:30:16 Autoguider error: X=0.07 Y=-0.26
04:30:16 Autoguider max error < 0.4!
04:30:16 Stopping autoguider...
04:30:18 Automatic guide star acquisition successful!
04:30:18 Setting autoguider exposure time to 7.55 seconds.
04:30:18 Setting guide star position to 110.0,181.0.
04:30:18 Starting to autoguide.
04:30:48 Checking autoguider max error...
04:30:53 Autoguider error: X=0.13 Y=-0.19
04:30:53 Autoguider max error < 0.4!
04:30:53 Starting imager exposure (1 of 4).
04:38:31 Imager exposure complete.
04:38:31 Stopping autoguider...
04:38:33 Setting autoguider exposure time to 7.55 seconds.
04:38:33 Setting guide star position to 112.0,181.0.
04:38:33 Starting to autoguide.
04:39:04 Checking autoguider max error...
04:39:08 Autoguider error: X=0.45 Y=0.00
04:39:08 Checking autoguider max error...
04:39:17 Autoguider error: X=0.37 Y=-0.38
04:39:17 Autoguider max error < 0.4!
04:39:17 Starting imager exposure (2 of 4).
04:46:55 Imager exposure complete.
04:46:55 Stopping autoguider...
04:46:57 Setting autoguider exposure time to 7.55 seconds.
04:46:57 Setting guide star position to 112.0,183.0.
04:46:57 Starting to autoguide.
04:47:28 Checking autoguider max error...
04:47:33 Autoguider error: X=-0.64 Y=-0.47
04:47:33 Checking autoguider max error...
04:47:41 Autoguider error: X=0.23 Y=-0.16
04:47:41 Autoguider max error < 0.4!
04:47:41 Starting imager exposure (3 of 4).
04:55:20 Imager exposure complete.
04:55:20 Stopping autoguider...
04:55:22 Setting autoguider exposure time to 7.55 seconds.
04:55:22 Setting guide star position to 110.0,183.0.
04:55:22 Starting to autoguide.
04:55:52 Checking autoguider max error...
04:55:57 Autoguider error: X=0.26 Y=-0.36
04:55:57 Autoguider max error < 0.4!
04:55:57 Starting imager exposure (4 of 4).
05:03:35 Imager exposure complete.
05:03:35 Stopping autoguider...
05:03:37 Take Images Action complete.
05:03:37 Running Action List Iteration #2
05:03:37 Starting move to action.
05:03:37 Precessing coordinates.
05:03:37 J2000 Coordinates: RA: 16h 31m 03.0s Dec: +35°13'30"
05:03:37 JNow Coordinates: RA: 16h 31m 16.6s Dec: +35°12'43"
05:03:37 Slewing to SAO 65356...
05:03:48 Done slewing!
05:03:48 Starting post slew delay.
05:03:52 Completed post slew delay.

05:03:52 Setting imager bin mode to 2x2.
05:03:52 Setting filter to Luminance.
05:03:53 Taking 5 second image for Plate Solve...
05:04:11 Saving Image...
05:04:11 Performing Plate Solve with CCDSoft...
05:04:13 Plate solve results:
05:04:13 Pixel Scale = 1.86 asp.
05:04:13 North Angle = 18.43 degrees.
05:04:13 J2000 Coordinates = RA: 16h 31m 04.5s Dec: +35°15'54"
05:04:13 Syncing to RA 16.52167, Dec 35.25210
05:04:20 Starting focus run...
05:06:09 Focus succeeded! HFD = 2.76
05:06:09 Starting move to action.
05:06:09 Precessing coordinates.
05:06:09 J2000 Coordinates: RA: 16h 41m 42.0s Dec: +36°27'39"
05:06:09 JNow Coordinates: RA: 16h 41m 55.2s Dec: +36°26'58"
05:06:09 Slewing to m13...
05:06:20 Done slewing!
05:06:20 Starting post slew delay.
05:06:23 Completed post slew delay.
05:06:23 Setting image type to Light.
05:06:23 Setting imager bin mode to 1x1.
05:06:23 Setting filter to Luminance.
05:06:25 Setting imager to full frame.
05:06:25 Setting imager exposure time to 450 seconds.
05:06:26 Setting autoguider bin mode to 2x2.
05:06:26 Taking a 1 second autoguider exposure.
05:06:32 Beginning guide star search...
05:06:34 Taking a 5.37 second autoguider exposure.
05:06:50 Beginning guide star search...
05:06:51 Found possible guide star at 112, 187 with a max brightness of 2658 ADU.
05:06:51 Taking a 5.37 second autoguider exposure.
05:06:59 Beginning guide star search...
05:07:01 Found appropriate guide star at 112, 186 with a max brightness of 2900 ADU.
05:07:01 Trying to autoguide on star at 112.0,186.0.
05:07:01 Starting to autoguide.
05:07:22 Checking autoguider max error...
05:07:27 Autoguider error: X=-0.40 Y=-1.69
05:07:27 Checking autoguider max error...
05:07:34 Autoguider error: X=0.21 Y=-1.82
05:07:34 Checking autoguider max error...
05:07:39 Action Paused.
05:07:58 Action Resumed.
05:07:58 Autoguider error: X=0.27 Y=-2.71
05:07:58 Checking autoguider max error...
05:08:01 Autoguider error: X=0.29 Y=-2.37
05:08:01 Checking autoguider max error...
05:08:09 Autoguider error: X=-0.28 Y=-1.76
05:08:09 Checking autoguider max error...
05:08:16 Autoguider error: X=-0.47 Y=-0.40
05:08:16 Checking autoguider max error...
05:08:23 Autoguider error: X=-0.36 Y=-0.66
05:08:23 Checking autoguider max error...
05:08:29 Autoguider error: X=-0.06 Y=-0.16
05:08:29 Autoguider max error < 0.4!
05:08:29 Stopping autoguider...
05:08:31 Automatic guide star acquisition successful!
05:08:31 Setting autoguider exposure time to 5.37 seconds.
05:08:31 Setting guide star position to 112.0,186.0.
05:08:31 Starting to autoguide.
05:08:53 Checking autoguider max error...
05:09:00 Autoguider error: X=-0.28 Y=-0.25

05:09:00 Autoguider max error < 0.4!
05:09:00 Starting imager exposure (1 of 4).
05:16:39 Imager exposure complete.
05:16:39 Stopping autoguider...
05:16:41 Setting autoguider exposure time to 5.37 seconds.
05:16:41 Setting guide star position to 114.0,186.0.
05:16:41 Starting to autoguide.
05:17:03 Checking autoguider max error...
05:17:08 Autoguider error: X=-0.50 Y=-0.59
05:17:08 Checking autoguider max error...
05:17:15 Autoguider error: X=0.21 Y=0.03
05:17:15 Autoguider max error < 0.4!
05:17:15 Starting imager exposure (2 of 4).
05:24:54 Imager exposure complete.
05:24:54 Stopping autoguider...
05:24:56 Setting autoguider exposure time to 5.37 seconds.
05:24:56 Setting guide star position to 114.0,188.0.
05:24:56 Starting to autoguide.
05:25:18 Checking autoguider max error...
05:25:23 Autoguider error: X=-0.28 Y=-0.65
05:25:23 Checking autoguider max error...
05:25:29 Autoguider error: X=-0.17 Y=0.05
05:25:29 Autoguider max error < 0.4!
05:25:29 Starting imager exposure (3 of 4).
05:33:08 Imager exposure complete.
05:33:08 Stopping autoguider...
05:33:10 Setting autoguider exposure time to 5.37 seconds.
05:33:10 Setting guide star position to 112.0,188.0.
05:33:10 Starting to autoguide.
05:33:31 Checking autoguider max error...
05:33:36 Autoguider error: X=-0.54 Y=-0.42
05:33:36 Checking autoguider max error...
05:33:42 Autoguider error: X=-0.56 Y=-0.32
05:33:42 Checking autoguider max error...
05:33:49 Autoguider error: X=0.06 Y=-0.25
05:33:49 Autoguider max error < 0.4!
05:33:49 Starting imager exposure (4 of 4).
05:41:27 Imager exposure complete.
05:41:27 Stopping autoguider...
05:41:29 Take Images Action complete.
05:41:29 Running Action List Iteration #3
05:41:29 Starting move to action.
05:41:29 Precessing coordinates.
05:41:29 J2000 Coordinates: RA: 16h 31m 03.0s Dec: +35°13'30"
05:41:29 JNow Coordinates: RA: 16h 31m 16.6s Dec: +35°12'43"
05:41:29 Slewing to SAO 65356...
05:41:41 Done slewing!
05:41:41 Starting post slew delay.
05:41:44 Completed post slew delay.
05:41:44 Setting imager bin mode to 2x2.
05:41:44 Setting filter to Luminance.
05:41:46 Taking 5 second image for Plate solve...
05:42:04 Saving Image...
05:42:04 Performing Plate solve with CCDSoft...
05:42:05 Plate solve results:
05:42:05 Pixel Scale = 1.85 asp.
05:42:05 North Angle = 18.42 degrees.
05:42:05 J2000 Coordinates = RA: 16h 31m 04.2s Dec: +35°15'50"
05:42:05 Syncing to RA 16.52159, Dec 35.25092
05:42:12 Starting focus run...
05:44:03 Focus succeeded! HFD = 2.89
05:44:03 Starting move to action.
05:44:03 Precessing coordinates.

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05:44:03 J2000 Coordinates: RA: 16h 41m 42.0s Dec: +36°27'39"
05:44:03 JNow Coordinates: RA: 16h 41m 55.2s Dec: +36°26'58"
05:44:03 Slewing to m13...
05:44:14 Done slewing!
05:44:14 Starting post slew delay.
05:44:17 Completed post slew delay.
05:44:17 Setting image type to Light.
05:44:17 Setting imager bin mode to 1x1.
05:44:17 Setting filter to Luminance.
05:44:19 Setting imager to full frame.
05:44:19 Setting imager exposure time to 450 seconds.
05:44:20 Setting autoguider bin mode to 2x2.
05:44:20 Taking a 1 second autoguider exposure.
05:44:27 Beginning guide star search...
05:44:28 Taking a 5.1 second autoguider exposure.
05:44:43 Beginning guide star search...
05:44:44 Taking a 9.11 second autoguider exposure.
05:45:07 Beginning guide star search...
05:45:08 Found possible guide star at 106, 185 with a max brightness of 3152 ADU.
05:45:08 Taking a 9.11 second autoguider exposure.
05:45:21 Beginning guide star search...
05:45:22 Found appropriate guide star at 107, 184 with a max brightness of 3190
ADU.
05:45:22 Trying to autoguide on star at 107.0,184.0.
05:45:22 Starting to autoguide.
05:45:58 Checking autoguider max error...
05:46:03 Autoguider error: X=0.62 Y=-1.63
05:46:03 Checking autoguider max error...
05:46:14 Autoguider error: X=0.52 Y=-1.95
05:46:14 Checking autoguider max error...
05:46:24 Autoguider error: X=0.20 Y=-2.41
05:46:24 Checking autoguider max error...
05:46:34 Autoguider error: X=0.42 Y=-2.86
05:46:34 Checking autoguider max error...
05:46:45 Autoguider error: X=0.84 Y=-3.10
05:46:45 Checking autoguider max error...
05:46:55 Autoguider error: X=0.70 Y=-3.15
05:46:55 Checking autoguider max error...
05:47:06 Autoguider error: X=0.39 Y=-2.72
05:47:06 Checking autoguider max error...
05:47:16 Autoguider error: X=0.12 Y=-1.49
05:47:16 Checking autoguider max error...
05:47:27 Autoguider error: X=-0.37 Y=-0.33
05:47:27 Autoguider max error < 0.4!
05:47:27 Stopping autoguider...
05:47:29 Automatic guide star acquisition successful!
05:47:29 Setting autoguider exposure time to 9.11 seconds.
05:47:29 Setting guide star position to 107.0,184.0.
05:47:29 Starting to autoguide.
05:48:05 Checking autoguider max error...
05:48:10 Autoguider error: X=-0.60 Y=-0.61
05:48:10 Checking autoguider max error...
05:48:20 Autoguider error: X=-0.25 Y=-0.54
05:48:20 Checking autoguider max error...
05:48:30 Autoguider error: X=-0.11 Y=-0.27
05:48:30 Autoguider max error < 0.4!
05:48:30 Starting imager exposure (1 of 4).
05:56:08 Imager exposure complete.
05:56:09 Stopping autoguider...
05:56:11 Setting autoguider exposure time to 9.11 seconds.
05:56:11 Setting guide star position to 109.0,184.0.
05:56:11 Starting to autoguide.
05:56:47 Checking autoguider max error...

05:56:52 Autoguider error: X=-0.47 Y=-0.24
05:56:52 Checking autoguider max error...
05:57:02 Autoguider error: X=0.12 Y=-0.40
05:57:02 Autoguider max error < 0.4!
05:57:02 Starting imager exposure (2 of 4).
06:04:40 Imager exposure complete.
06:04:40 Stopping autoguider...
06:04:42 Setting autoguider exposure time to 9.11 seconds.
06:04:42 Setting guide star position to 109.0,186.0.
06:04:42 Starting to autoguide.
06:05:19 Checking autoguider max error...
06:05:24 Autoguider error: X=-0.25 Y=0.02
06:05:24 Autoguider max error < 0.4!
06:05:24 Starting imager exposure (3 of 4).
06:13:02 Imager exposure complete.
06:13:02 Stopping autoguider...
06:13:04 Setting autoguider exposure time to 9.11 seconds.
06:13:04 Setting guide star position to 107.0,186.0.
06:13:04 Starting to autoguide.
06:13:41 Checking autoguider max error...
06:13:46 Autoguider error: X=-0.19 Y=-0.97
06:13:46 Checking autoguider max error...
06:13:56 Autoguider error: X=-0.16 Y=-0.11
06:13:56 Autoguider max error < 0.4!
06:13:56 Starting imager exposure (4 of 4).
06:21:34 Imager exposure complete.
06:21:34 Stopping autoguider...
06:21:36 Take Images Action complete.
06:21:36 Running Action List Iteration #4
06:21:36 Starting move to action.
06:21:36 Precessing coordinates.
06:21:36 J2000 Coordinates: RA: 16h 31m 03.0s Dec: +35°13'30"
06:21:36 JNow Coordinates: RA: 16h 31m 16.6s Dec: +35°12'43"
06:21:37 Slewing to SAO 65356...
06:21:47 Done slewing!
06:21:47 Starting post slew delay.
06:21:50 Completed post slew delay.
06:21:50 Setting imager bin mode to 2x2.
06:21:50 Setting filter to Luminance.
06:21:52 Taking 5 second image for Plate solve...
06:22:10 Saving Image...
06:22:10 Performing Plate Solve with CCDSoft...
06:22:11 Plate solve results:
06:22:11 Pixel Scale = 1.86 asp.
06:22:11 North Angle = 18.44 degrees.
06:22:11 J2000 Coordinates = RA: 16h 31m 04.0s Dec: +35°16'07"
06:22:11 Syncing to RA 16.52153, Dec 35.25552
06:22:18 Starting focus run...
06:24:10 Focus succeeded! HFD = 2.69
06:24:10 Starting move to action.
06:24:10 Precessing coordinates.
06:24:10 J2000 Coordinates: RA: 16h 41m 42.0s Dec: +36°27'39"
06:24:10 JNow Coordinates: RA: 16h 41m 55.2s Dec: +36°26'58"
06:24:10 Slewing to m13...
06:24:22 Done slewing!
06:24:22 Starting post slew delay.
06:24:25 Completed post slew delay.
06:24:25 Setting image type to Light.
06:24:25 Setting imager bin mode to 1x1.
06:24:25 Setting filter to Luminance.
06:24:27 Setting imager to full frame.
06:24:27 Setting imager exposure time to 450 seconds.
06:24:28 Setting autoguider bin mode to 2x2.

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06:24:28 Taking a 1 second autoguider exposure.
06:24:34 Beginning guide star search...
06:24:36 Taking a 3.39 second autoguider exposure.
06:24:47 Beginning guide star search...
06:24:49 Found possible guide star at 111, 190 with a max brightness of 2829 ADU.
06:24:49 Taking a 3.39 second autoguider exposure.
06:24:55 Beginning guide star search...
06:24:56 Taking a 3.82 second autoguider exposure.
06:25:09 Beginning guide star search...
06:25:10 Found possible guide star at 112, 190 with a max brightness of 3020 ADU.
06:25:10 Taking a 3.82 second autoguider exposure.
06:25:17 Beginning guide star search...
06:25:19 Found appropriate guide star at 112, 189 with a max brightness of 3423 ADU.
06:25:19 Trying to autoguide on star at 112.0,189.0.
06:25:19 Starting to autoguide.
06:25:34 Checking autoguider max error...
06:25:34 Autoguider error: X=-0.35 Y=-0.76
06:25:34 Checking autoguider max error...
06:25:40 Autoguider error: X=0.71 Y=-0.71
06:25:40 Checking autoguider max error...
06:25:45 Autoguider error: X=0.02 Y=-0.96
06:25:45 Checking autoguider max error...
06:25:56 Autoguider error: X=0.13 Y=-1.52
06:25:56 Checking autoguider max error...
06:26:00 Autoguider error: X=0.41 Y=-1.26
06:26:00 Checking autoguider max error...
06:26:06 Autoguider error: X=0.15 Y=-1.79
06:26:06 Checking autoguider max error...
06:26:12 Autoguider error: X=-0.07 Y=-2.07
06:26:12 Checking autoguider max error...
06:26:17 Autoguider error: X=0.26 Y=-1.87
06:26:17 Checking autoguider max error...
06:26:23 Autoguider error: X=-0.30 Y=-1.48
06:26:23 Checking autoguider max error...
06:26:29 Autoguider error: X=0.31 Y=-0.31
06:26:29 Autoguider max error < 0.4!
06:26:29 Stopping autoguider...
06:26:31 Automatic guide star acquisition successful!
06:26:31 Setting autoguider exposure time to 3.82 seconds.
06:26:31 Setting guide star position to 112.0,189.0.
06:26:31 Starting to autoguide.
06:26:46 Checking autoguider max error...
06:26:48 Autoguider error: X=-0.62 Y=-1.12
06:26:48 Checking autoguider max error...
06:26:53 Autoguider error: X=-0.88 Y=-0.29
06:26:53 Checking autoguider max error...
06:26:59 Autoguider error: X=-0.40 Y=-0.76
06:26:59 Checking autoguider max error...
06:27:04 Autoguider error: X=-0.24 Y=0.01
06:27:04 Autoguider max error < 0.4!
06:27:04 Starting imager exposure (1 of 4).
06:34:26 Skip ahead at 06:34 action is active. skipping ahead.
06:34:26 Stopping autoguider...
06:34:26 Skipping remainder of Action: Light 4x450s Luminance AS "m13_lum", AG Dither every 1 exp.
06:34:27 Running Action List Iteration #5
06:34:27 Skipping Action: Move to SAO 65356.
06:34:27 Skipping Action: Plate Solve, Sync, and ReSlew.
06:34:27 Skipping Action: Focus with Luminance filter.
06:34:27 Skipping Action: Move to m13.
06:34:27 Skipping Action: Light 4x450s Luminance AS "m13_lum", AG Dither every 1 exp.

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06:34:27 Running Action List Iteration #6
06:34:27 Skipping Action: Move to SAO 65356.
06:34:27 Skipping Action: Plate Solve, Sync, and Reslew.
06:34:27 Skipping Action: Focus with Luminance filter.
06:34:27 Skipping Action: Move to m13.
06:34:27 Skipping Action: Light 4x450s Luminance AS "m13_lum", AG Dither every 1 exp.
06:34:27 Done running m13_lum_30m.act
06:34:27 Skipping Action: Dark 5x450s Blue AS "m13_dark_1x1"
06:34:27 Skipping Action: Dark 5x300s Blue AS "m13_dark_2x2"
06:34:27 In Auto Flat Action.
06:34:27 Slewing to flat target location.
06:34:27 Moving to Alt-Az position: Alt: 85°00' 00.0" Az: 270°00'00"
06:36:38 Done slewing!
06:36:38 Starting post slew delay.
06:36:41 Completed post slew delay.
06:36:42 Setting imager bin mode to 1x1.
06:36:42 Setting filter to Luminance.
06:36:44 Setting imager to full frame.
06:36:53 Setting imager exposure time to 1.0 seconds.
06:36:53 Starting imager exposure...
06:37:01 Exposure complete. Computing average ADU.
06:37:01 Average ADU = 716
06:37:01 Target ADU = 20000
06:37:01 New exposure time computed to be 27.9
06:37:04 Setting imager exposure time to 27.9 seconds.
06:37:05 Starting imager exposure...
06:37:40 Exposure complete. Computing average ADU.
06:37:41 Average ADU = 15058
06:37:41 Target ADU = 20000
06:37:41 New exposure time computed to be 37.1
06:37:46 Setting imager exposure time to 37.1 seconds.
06:37:46 Starting imager exposure...
06:38:31 Exposure complete. Computing average ADU.
06:38:31 Average ADU = 24570
06:38:31 Target ADU = 20000
06:38:31 New exposure time computed to be 30.2
06:38:36 Setting imager exposure time to 30.2 seconds.
06:38:36 Starting imager exposure...
06:39:14 Exposure complete. Computing average ADU.
06:39:15 Average ADU = 24720
06:39:15 Target ADU = 20000
06:39:15 New exposure time computed to be 24.4
06:39:20 Setting imager exposure time to 24.4 seconds.
06:39:20 Starting imager exposure...
06:39:52 Exposure complete. Computing average ADU.
06:39:53 Average ADU = 24008
06:39:53 Target ADU = 20000
06:39:53 New exposure time computed to be 20.3
06:39:58 Setting imager exposure time to 20.3 seconds.
06:39:58 Starting imager exposure...
06:40:26 Exposure complete. Computing average ADU.
06:40:26 Average ADU = 23389
06:40:26 Target ADU = 20000
06:40:26 New exposure time computed to be 17.4
06:40:32 Setting imager exposure time to 17.4 seconds.
06:40:32 Starting imager exposure...
06:40:57 Exposure complete. Computing average ADU.
06:40:57 Average ADU = 23068
06:40:57 Target ADU = 20000
06:40:57 New exposure time computed to be 15.1
06:41:02 Setting imager exposure time to 15.1 seconds.
06:41:02 Starting imager exposure...

06:41:25 Exposure complete. Computing average ADU.
06:41:26 Average ADU = 22777
06:41:26 Target ADU = 20000
06:41:26 New exposure time computed to be 13.3
06:41:29 Setting imager exposure time to 13.3 seconds.
06:41:29 Starting imager exposure...
06:41:50 Exposure complete. Computing average ADU.
06:41:51 Average ADU = 22408
06:41:51 Target ADU = 20000
06:41:51 New exposure time computed to be 11.9
06:41:54 Setting imager exposure time to 11.9 seconds.
06:41:54 Starting imager exposure...
06:42:14 Exposure complete. Computing average ADU.
06:42:14 Average ADU = 22231
06:42:14 Target ADU = 20000
06:42:14 New exposure time computed to be 10.7
06:42:18 Setting imager exposure time to 10.7 seconds.
06:42:18 Starting imager exposure...
06:42:36 Exposure complete. Computing average ADU.
06:42:36 Average ADU = 22017
06:42:36 Target ADU = 20000
06:42:36 New exposure time computed to be 9.7
06:42:40 Setting imager exposure time to 9.7 seconds.
06:42:40 Starting imager exposure...
06:42:57 Exposure complete. Computing average ADU.
06:42:57 Average ADU = 21827
06:42:57 Target ADU = 20000
06:42:57 Current exposure time good! Taking Flats.
06:43:01 Setting imager exposure time to 9.7 seconds.
06:43:01 Starting imager exposure #1
06:43:19 Exposure complete. Computing average ADU.
06:43:19 Average ADU = 23806
06:43:19 Recomputing exposure time...
06:43:19 New exposure time computed to be 7.4
06:43:22 Setting imager exposure time to 7.4 seconds.
06:43:22 Starting imager exposure #2
06:43:38 Exposure complete. Computing average ADU.
06:43:39 Average ADU = 19833
06:43:39 Recomputing exposure time...
06:43:39 New exposure time computed to be 6.8
06:43:42 Setting imager exposure time to 6.8 seconds.
06:43:42 Starting imager exposure #3
06:43:57 Exposure complete. Computing average ADU.
06:43:57 Average ADU = 19723
06:43:58 Recomputing exposure time...
06:43:58 New exposure time computed to be 6.3
06:44:01 Setting imager exposure time to 6.3 seconds.
06:44:01 Starting imager exposure #4
06:44:15 Exposure complete. Computing average ADU.
06:44:16 Average ADU = 19707
06:44:16 Recomputing exposure time...
06:44:16 New exposure time computed to be 5.8
06:44:19 Setting imager exposure time to 5.8 seconds.
06:44:19 Starting imager exposure #5
06:44:33 Exposure complete. Computing average ADU.
06:44:33 Average ADU = 19494
06:44:33 Recomputing exposure time...
06:44:33 New exposure time computed to be 5.4
06:44:33 Automatic Flat Action complete.
06:44:33 In Auto Flat Action.
06:44:33 Slewing to flat target location.
06:44:33 Moving to Alt-Az position: Alt: 80°00' 00.0" Az: 270°00'00"
06:44:48 Done slewing!

06:44:48 Starting post slew delay.
06:44:51 Completed post slew delay.
06:44:52 Setting imager bin mode to 2x2.
06:44:52 Setting filter to Red.
06:44:55 Setting imager to full frame.
06:45:01 Setting imager exposure time to 1.0 seconds.
06:45:01 Starting imager exposure...
06:45:06 Exposure complete. Computing average ADU.
06:45:06 Average ADU = 7843
06:45:06 Target ADU = 20000
06:45:06 New exposure time computed to be 2.5
06:45:09 Setting imager exposure time to 2.5 seconds.
06:45:09 Starting imager exposure...
06:45:15 Exposure complete. Computing average ADU.
06:45:15 Average ADU = 15745
06:45:15 Target ADU = 20000
06:45:15 New exposure time computed to be 3.2
06:45:19 Setting imager exposure time to 3.2 seconds.
06:45:19 Starting imager exposure...
06:45:26 Exposure complete. Computing average ADU.
06:45:26 Average ADU = 20870
06:45:26 Target ADU = 20000
06:45:26 Current exposure time good! Taking Flats.
06:45:30 Setting imager exposure time to 3.2 seconds.
06:45:30 Starting imager exposure #1
06:45:37 Exposure complete. Computing average ADU.
06:45:37 Average ADU = 21743
06:45:37 Recomputing exposure time...
06:45:37 New exposure time computed to be 2.9
06:45:41 Setting imager exposure time to 2.9 seconds.
06:45:41 Starting imager exposure #2
06:45:48 Exposure complete. Computing average ADU.
06:45:48 Average ADU = 20541
06:45:48 Recomputing exposure time...
06:45:48 New exposure time computed to be 2.8
06:45:51 Setting imager exposure time to 2.8 seconds.
06:45:51 Starting imager exposure #3
06:45:58 Exposure complete. Computing average ADU.
06:45:58 Average ADU = 20618
06:45:58 Recomputing exposure time...
06:45:58 New exposure time computed to be 2.7
06:46:01 Setting imager exposure time to 2.7 seconds.
06:46:01 Starting imager exposure #4
06:46:08 Exposure complete. Computing average ADU.
06:46:08 Average ADU = 20645
06:46:08 Recomputing exposure time...
06:46:08 New exposure time computed to be 2.6
06:46:12 Setting imager exposure time to 2.6 seconds.
06:46:12 Starting imager exposure #5
06:46:18 Exposure complete. Computing average ADU.
06:46:19 Average ADU = 20632
06:46:19 Recomputing exposure time...
06:46:19 New exposure time computed to be 2.5
06:46:19 Setting filter to Green.
06:46:22 Setting imager to full frame.
06:46:26 Setting imager exposure time to 1.0 seconds.
06:46:26 Starting imager exposure...
06:46:30 Exposure complete. Computing average ADU.
06:46:30 Average ADU = 7444
06:46:30 Target ADU = 20000
06:46:30 New exposure time computed to be 2.7
06:46:33 Setting imager exposure time to 2.7 seconds.
06:46:33 Starting imager exposure...

06:46:40 Exposure complete. Computing average ADU.
06:46:40 Average ADU = 16149
06:46:40 Target ADU = 20000
06:46:40 New exposure time computed to be 3.3
06:46:44 Setting imager exposure time to 3.3 seconds.
06:46:44 Starting imager exposure...
06:46:51 Exposure complete. Computing average ADU.
06:46:51 Average ADU = 20459
06:46:51 Target ADU = 20000
06:46:51 Current exposure time good! Taking Flats.
06:46:54 Setting imager exposure time to 3.3 seconds.
06:46:54 Starting imager exposure #1
06:47:02 Exposure complete. Computing average ADU.
06:47:02 Average ADU = 21278
06:47:02 Recomputing exposure time...
06:47:02 New exposure time computed to be 3.1
06:47:05 Setting imager exposure time to 3.1 seconds.
06:47:05 Starting imager exposure #2
06:47:12 Exposure complete. Computing average ADU.
06:47:13 Average ADU = 20815
06:47:13 Recomputing exposure time...
06:47:13 New exposure time computed to be 3.0
06:47:16 Setting imager exposure time to 3.0 seconds.
06:47:16 Starting imager exposure #3
06:47:23 Exposure complete. Computing average ADU.
06:47:24 Average ADU = 20963
06:47:24 Recomputing exposure time...
06:47:24 New exposure time computed to be 2.9
06:47:27 Setting imager exposure time to 2.9 seconds.
06:47:27 Starting imager exposure #4
06:47:33 Exposure complete. Computing average ADU.
06:47:34 Average ADU = 21080
06:47:34 Recomputing exposure time...
06:47:34 New exposure time computed to be 2.8
06:47:37 Setting imager exposure time to 2.8 seconds.
06:47:37 Starting imager exposure #5
06:47:44 Exposure complete. Computing average ADU.
06:47:44 Average ADU = 21129
06:47:44 Recomputing exposure time...
06:47:44 New exposure time computed to be 2.7
06:47:44 Setting filter to Blue.
06:47:48 Setting imager to full frame.
06:47:51 Setting imager exposure time to 1.0 seconds.
06:47:51 Starting imager exposure...
06:47:56 Exposure complete. Computing average ADU.
06:47:56 Average ADU = 10635
06:47:56 Target ADU = 20000
06:47:56 New exposure time computed to be 1.9
06:47:59 Setting imager exposure time to 1.9 seconds.
06:47:59 Starting imager exposure...
06:48:05 Exposure complete. Computing average ADU.
06:48:05 Average ADU = 16268
06:48:05 Target ADU = 20000
06:48:05 New exposure time computed to be 2.3
06:48:09 Setting imager exposure time to 2.3 seconds.
06:48:09 Starting imager exposure...
06:48:15 Exposure complete. Computing average ADU.
06:48:15 Average ADU = 20204
06:48:15 Target ADU = 20000
06:48:15 Current exposure time good! Taking Flats.
06:48:18 Setting imager exposure time to 2.3 seconds.
06:48:18 Starting imager exposure #1
06:48:25 Exposure complete. Computing average ADU.

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06:48:25 Average ADU = 20862
06:48:25 Recomputing exposure time...
06:48:25 New exposure time computed to be 2.2
06:48:28 Setting imager exposure time to 2.2 seconds.
06:48:28 Starting imager exposure #2
06:48:34 Exposure complete. Computing average ADU.
06:48:34 Average ADU = 20733
06:48:34 Recomputing exposure time...
06:48:34 New exposure time computed to be 2.1
06:48:38 Setting imager exposure time to 2.1 seconds.
06:48:38 Starting imager exposure #3
06:48:44 Exposure complete. Computing average ADU.
06:48:44 Average ADU = 20425
06:48:44 Recomputing exposure time...
06:48:44 New exposure time computed to be 2.1
06:48:47 Setting imager exposure time to 2.1 seconds.
06:48:47 Starting imager exposure #4
06:48:53 Exposure complete. Computing average ADU.
06:48:53 Average ADU = 21095
06:48:53 Recomputing exposure time...
06:48:53 New exposure time computed to be 2.0
06:48:57 Setting imager exposure time to 2.0 seconds.
06:48:57 Starting imager exposure #5
06:49:03 Exposure complete. Computing average ADU.
06:49:03 Average ADU = 20756
06:49:03 Recomputing exposure time...
06:49:03 New exposure time computed to be 1.9
06:49:03 Automatic Flat Action complete.
06:49:03 Action complete.