

CCD Commander Log File

Software v1.3.0

This copy is unregistered.

Trial period expires in 12 days.

23:53:35 Action starting.
23:53:35 Connecting to the Camera...
23:53:35 Connecting to the Mount...
23:53:36 Connecting to FocusMax...
23:53:36 Starting move to action.
23:53:36 Precessing coordnates.
23:53:36 J2000 Coordinates: RA: 09h 31m 35.0s Dec: +20°16'13"
23:53:36 JNow Coordinates: RA: 09h 31m 55.3s Dec: +20°14'37"
23:53:36 Slewing to Mag. 6.6 Focus Star...
23:53:44 Done slewing!
23:53:44 Setting imager bin mode to 1x1.
23:53:44 Setting filter to Lum.
23:53:46 Taking 10 second image for Plate Solve...
23:54:18 Saving Image...
23:54:18 Performing Plate Solve with CCDSoft...
23:54:20 Plate solve results:
23:54:20 Pixel Scale = 0.93 asp.
23:54:20 North Angle = 333.64 degrees.
23:54:20 J2000 Coordinates = RA: 09h 31m 26.5s Dec: +20°18'14"
23:54:20 Syncing to RA 9.52965, Dec 20.27718
23:54:28 Starting focus run...
23:55:59 Focus succeeded! HFD = 3.35
23:55:59 Starting move to action.
23:55:59 Precessing coordnates.
23:55:59 J2000 Coordinates: RA: 09h 32m 09.0s Dec: +21°32'52"
23:55:59 JNow Coordinates: RA: 09h 32m 29.4s Dec: +21°31'16"
23:55:59 Slewing to NGC 2903 (NEW)...
23:56:06 Done slewing!
23:56:07 Setting imager bin mode to 1x1.
23:56:07 Setting filter to Lum.
23:56:14 Taking 10 second image for Plate Solve...
23:56:30 Saving Image...
23:56:30 Performing Plate Solve with CCDSoft...
23:56:32 Plate solve results:
23:56:32 Pixel Scale = 0.92 asp.
23:56:32 North Angle = 334.17 degrees.
23:56:32 J2000 Coordinates = RA: 09h 32m 07.3s Dec: +21°32'53"
23:56:32 Syncing to RA 9.54102, Dec 21.52134
23:56:36 Setting image type to Light.
23:56:36 Setting imager bin mode to 2x2.
23:56:36 Setting filter to Red.
23:56:39 Setting imager to full frame.
23:56:39 Setting imager exposure time to 180 seconds.
23:56:41 Setting autoguider bin mode to 2x2.
23:56:41 Taking a 3 second autoguider exposure.
23:56:53 Beginning guide star search...
23:56:55 Found possible guide star at 175, 228 with a max brightness of 1482 ADU.
23:56:55 Taking a 3 second autoguider exposure.
23:57:01 Beginning guide star search...
23:57:02 Found appropriate guide star at 174, 229 with a max brightness of 1731 ADU.
23:57:02 Trying to autoguide on star at 174.0,229.0.
23:57:02 Starting to autoguide.
23:57:14 Checking autoguider max error...
23:57:18 Autoguider max error = 1.79
23:57:18 Checking autoguider max error...
23:57:23 Autoguider max error = 1.27
23:57:23 Checking autoguider max error...
23:57:28 Autoguider max error = 0.52
23:57:28 Checking autoguider max error...

23:57:33 Autoguider max error = 0.83
23:57:33 Checking autoguider max error...
23:57:39 Autoguider max error = 0.41
23:57:39 Checking autoguider max error...
23:57:44 Autoguider max error = 0.56
23:57:44 Checking autoguider max error...
23:57:49 Autoguider max error = 1.14
23:57:49 Checking autoguider max error...
23:57:55 Autoguider max error = 0.91
23:57:55 Checking autoguider max error...
23:58:00 Autoguider max error = 0.77
23:58:00 Checking autoguider max error...
23:58:05 Autoguider max error = 1.13
23:58:05 Checking autoguider max error...
23:58:11 Autoguider max error = 2.05
23:58:11 Checking autoguider max error...
23:58:16 Autoguider max error = 1.41
23:58:16 Checking autoguider max error...
23:58:21 Autoguider max error = 0.82
23:58:21 Checking autoguider max error...
23:58:26 Autoguider max error = 0.61
23:58:26 Checking autoguider max error...
23:58:31 Autoguider max error = 0.47
23:58:31 Checking autoguider max error...
23:58:36 Autoguider max error = 0.42
23:58:36 Checking autoguider max error...
23:58:41 Autoguider max error = 0.62
23:58:41 Checking autoguider max error...
23:58:46 Autoguider max error = 0.38
23:58:46 Autoguider max error < 0.4!
23:58:46 Stopping autoguider...
23:58:48 Automatic guide star acquisition successful!
23:58:48 Setting guide star position to 174.0,229.0.
23:58:48 Setting autoguider exposure time to 3 seconds.
23:58:48 Starting to autoguide.
23:59:00 Checking autoguider max error...
23:59:03 Autoguider max error = 0.43
23:59:03 Checking autoguider max error...
23:59:09 Autoguider max error = 1.09
23:59:09 Checking autoguider max error...
23:59:14 Autoguider max error = 0.11
23:59:14 Autoguider max error < 0.4!
23:59:14 Starting imager exposure (1 of 10).
00:02:21 Imager exposure complete.
00:02:21 Stopping autoguider...
00:02:23 Setting guide star position to 176.0,229.0.
00:02:23 Setting autoguider exposure time to 3 seconds.
00:02:23 Starting to autoguide.
00:02:35 Checking autoguider max error...
00:02:38 Autoguider max error = 0.63
00:02:38 Checking autoguider max error...
00:02:43 Autoguider max error = 1.22
00:02:43 Checking autoguider max error...
00:02:48 Autoguider max error = 0.72
00:02:48 Checking autoguider max error...
00:02:53 Autoguider max error = 0.65
00:02:53 Checking autoguider max error...
00:02:59 Autoguider max error = 0.99
00:02:59 Checking autoguider max error...
00:03:04 Autoguider max error = 1.03
00:03:04 Checking autoguider max error...
00:03:09 Autoguider max error = 0.96
00:03:09 Checking autoguider max error...
00:03:15 Autoguider max error = 0.79
00:03:15 Checking autoguider max error...

00:03:20 Autoguider max error = 0.51
00:03:20 Checking autoguider max error...
00:03:25 Autoguider max error = 0.28
00:03:25 Autoguider max error < 0.4!
00:03:25 Starting imager exposure (2 of 10).
00:06:32 Imager exposure complete.
00:06:32 Stopping autoguider...
00:06:34 Setting guide star position to 176.0,231.0.
00:06:34 Setting autoguider exposure time to 3 seconds.
00:06:34 Starting to autoguide.
00:06:46 Checking autoguider max error...
00:06:51 Autoguider max error = 1.24
00:06:51 Checking autoguider max error...
00:06:56 Autoguider max error = 1.16
00:06:56 Checking autoguider max error...
00:07:01 Autoguider max error = 1.02
00:07:01 Checking autoguider max error...
00:07:06 Autoguider max error = 1.43
00:07:06 Checking autoguider max error...
00:07:12 Autoguider max error = 0.77
00:07:12 Checking autoguider max error...
00:07:17 Autoguider max error = 0.86
00:07:17 Checking autoguider max error...
00:07:22 Autoguider max error = 0.54
00:07:22 Checking autoguider max error...
00:07:28 Autoguider max error = 1.05
00:07:28 Checking autoguider max error...
00:07:33 Autoguider max error = 0.60
00:07:33 Checking autoguider max error...
00:07:38 Autoguider max error = 0.36
00:07:38 Autoguider max error < 0.4!
00:07:38 Starting imager exposure (3 of 10).
00:10:44 Imager exposure complete.
00:10:45 Stopping autoguider...
00:10:47 Setting guide star position to 174.0,231.0.
00:10:47 Setting autoguider exposure time to 3 seconds.
00:10:47 Starting to autoguide.
00:10:59 Checking autoguider max error...
00:11:02 Autoguider max error = 1.00
00:11:02 Checking autoguider max error...
00:11:07 Autoguider max error = 0.25
00:11:07 Autoguider max error < 0.4!
00:11:07 Starting imager exposure (4 of 10).
00:14:15 Imager exposure complete.
00:14:15 Stopping autoguider...
00:14:17 Setting guide star position to 172.0,231.0.
00:14:17 Setting autoguider exposure time to 3 seconds.
00:14:17 Starting to autoguide.
00:14:29 Checking autoguider max error...
00:14:32 Autoguider max error = 0.92
00:14:32 Checking autoguider max error...
00:14:37 Autoguider max error = 1.08
00:14:37 Checking autoguider max error...
00:14:42 Autoguider max error = 0.17
00:14:42 Autoguider max error < 0.4!
00:14:42 Starting imager exposure (5 of 10).
00:17:49 Imager exposure complete.
00:17:49 Stopping autoguider...
00:17:51 Setting guide star position to 172.0,229.0.
00:17:51 Setting autoguider exposure time to 3 seconds.
00:17:51 Starting to autoguide.
00:18:03 Checking autoguider max error...
00:18:08 Autoguider max error = 0.59
00:18:08 Checking autoguider max error...
00:18:13 Autoguider max error = 0.30

00:18:13 Autoguider max error < 0.4!
00:18:13 Starting imager exposure (6 of 10).
00:21:19 Imager exposure complete.
00:21:20 Stopping autoguider...
00:21:22 Setting guide star position to 172.0,227.0.
00:21:22 Setting autoguider exposure time to 3 seconds.
00:21:22 Starting to autoguide.
00:21:34 Checking autoguider max error...
00:21:37 Autoguider max error = 0.47
00:21:37 Checking autoguider max error...
00:21:42 Autoguider max error = 0.34
00:21:42 Autoguider max error < 0.4!
00:21:42 Starting imager exposure (7 of 10).
00:24:50 Imager exposure complete.
00:24:50 Stopping autoguider...
00:24:52 Setting guide star position to 174.0,227.0.
00:24:52 Setting autoguider exposure time to 3 seconds.
00:24:52 Starting to autoguide.
00:25:04 Checking autoguider max error...
00:25:08 Autoguider max error = 1.05
00:25:08 Checking autoguider max error...
00:25:13 Autoguider max error = 0.77
00:25:13 Checking autoguider max error...
00:25:18 Autoguider max error = 0.79
00:25:18 Checking autoguider max error...
00:25:23 Autoguider max error = 0.59
00:25:23 Checking autoguider max error...
00:25:28 Autoguider max error = 0.29
00:25:28 Autoguider max error < 0.4!
00:25:28 Starting imager exposure (8 of 10).
00:28:34 Imager exposure complete.
00:28:34 Stopping autoguider...
00:28:36 Setting guide star position to 176.0,227.0.
00:28:36 Setting autoguider exposure time to 3 seconds.
00:28:36 Starting to autoguide.
00:28:48 Checking autoguider max error...
00:28:52 Autoguider max error = 0.88
00:28:52 Checking autoguider max error...
00:28:57 Autoguider max error = 0.75
00:28:57 Checking autoguider max error...
00:29:02 Autoguider max error = 0.93
00:29:02 Checking autoguider max error...
00:29:07 Autoguider max error = 0.72
00:29:07 Checking autoguider max error...
00:29:12 Autoguider max error = 0.43
00:29:12 Checking autoguider max error...
00:29:17 Autoguider max error = 0.35
00:29:17 Autoguider max error < 0.4!
00:29:17 Starting imager exposure (9 of 10).
00:32:23 Imager exposure complete.
00:32:24 Stopping autoguider...
00:32:26 Setting guide star position to 178.0,227.0.
00:32:26 Setting autoguider exposure time to 3 seconds.
00:32:26 Starting to autoguide.
00:32:38 Checking autoguider max error...
00:32:42 Autoguider max error = 0.48
00:32:42 Checking autoguider max error...
00:32:47 Autoguider max error = 0.39
00:32:47 Autoguider max error < 0.4!
00:32:47 Starting imager exposure (10 of 10).
00:35:54 Imager exposure complete.
00:35:54 Stopping autoguider...
00:35:56 Take Images Action complete.
00:35:56 Starting move to action.
00:35:56 Precessing coordinates.

00:35:56 J2000 Coordinates: RA: 09h 31m 35.0s Dec: +20°16'13"
00:35:56 JNow Coordinates: RA: 09h 31m 55.3s Dec: +20°14'37"
00:35:56 Slewing to Mag. 6.6 Focus Star...
00:36:04 Done slewing!
00:36:04 Setting imager bin mode to 1x1.
00:36:04 Setting filter to Lum.
00:36:12 Taking 10 second image for Plate Solve...
00:36:28 Saving Image...
00:36:29 Performing Plate Solve with CCDSoft...
00:36:35 Plate solve results:
00:36:35 Pixel Scale = 0.93 asp.
00:36:35 North Angle = 333.69 degrees.
00:36:35 J2000 Coordinates = RA: 09h 31m 34.2s Dec: +20°16'44"
00:36:35 Syncing to RA 9.53179, Dec 20.25214
00:36:42 Starting focus run...
00:38:10 Focus succeeded! HFD = 3.32
00:38:10 Starting move to action.
00:38:10 Precessing coordinates.
00:38:10 J2000 Coordinates: RA: 09h 32m 09.0s Dec: +21°32'52"
00:38:10 JNow Coordinates: RA: 09h 32m 29.4s Dec: +21°31'16"
00:38:10 Slewing to NGC 2903 (NEW)...
00:38:17 Done slewing!
00:38:18 Setting imager bin mode to 1x1.
00:38:18 Setting filter to Lum.
00:38:24 Taking 10 second image for Plate Solve...
00:38:40 Saving Image...
00:38:40 Performing Plate Solve with CCDSoft...
00:38:43 Plate solve results:
00:38:43 Pixel Scale = 0.93 asp.
00:38:43 North Angle = 333.70 degrees.
00:38:43 J2000 Coordinates = RA: 09h 32m 06.9s Dec: +21°33'06"
00:38:43 Syncing to RA 9.54090, Dec 21.52505
00:38:46 Setting image type to Light.
00:38:46 Setting imager bin mode to 2x2.
00:38:46 Setting filter to Green.
00:38:50 Setting imager to full frame.
00:38:50 Setting imager exposure time to 180 seconds.
00:38:51 Setting autoguider bin mode to 2x2.
00:38:51 Taking a 3 second autoguider exposure.
00:39:04 Beginning guide star search...
00:39:05 Found possible guide star at 177, 224 with a max brightness of 1222 ADU.
00:39:05 Taking a 3 second autoguider exposure.
00:39:11 Beginning guide star search...
00:39:13 Found appropriate guide star at 177, 224 with a max brightness of 1160 ADU.
00:39:13 Trying to autoguide on star at 177.0,224.0.
00:39:13 Starting to autoguide.
00:39:25 Checking autoguider max error...
00:39:27 Autoguider max error = 0.46
00:39:27 Checking autoguider max error...
00:39:31 Autoguider max error = 1.21
00:39:31 Checking autoguider max error...
00:39:36 Autoguider max error = 0.21
00:39:36 Autoguider max error < 0.4!
00:39:36 Stopping autoguider...
00:39:38 Automatic guide star acquisition successful!
00:39:38 Setting guide star position to 177.0,224.0.
00:39:38 Setting autoguider exposure time to 3 seconds.
00:39:38 Starting to autoguide.
00:39:50 Checking autoguider max error...
00:39:52 Autoguider max error = 1.24
00:39:52 Checking autoguider max error...
00:39:57 Autoguider max error = 0.69
00:39:57 Checking autoguider max error...
00:40:01 Autoguider max error = 0.03

00:40:01 Autoguider max error < 0.4!
00:40:01 Starting imager exposure (1 of 10).
00:43:08 Imager exposure complete.
00:43:09 Stopping autoguider...
00:43:11 Setting guide star position to 179.0,224.0.
00:43:11 Setting autoguider exposure time to 3 seconds.
00:43:11 Starting to autoguide.
00:43:23 Checking autoguider max error...
00:43:25 Autoguider max error = 0.60
00:43:25 Checking autoguider max error...
00:43:29 Autoguider max error = 1.03
00:43:29 Checking autoguider max error...
00:43:35 Autoguider max error = 0.84
00:43:35 Checking autoguider max error...
00:43:39 Autoguider max error = 0.63
00:43:39 Checking autoguider max error...
00:43:44 Autoguider max error = 0.62
00:43:44 Checking autoguider max error...
00:43:48 Autoguider max error = 0.31
00:43:48 Autoguider max error < 0.4!
00:43:48 Starting imager exposure (2 of 10).
00:46:55 Imager exposure complete.
00:46:55 Stopping autoguider...
00:46:57 Setting guide star position to 179.0,226.0.
00:46:57 Setting autoguider exposure time to 3 seconds.
00:46:57 Starting to autoguide.
00:47:09 Checking autoguider max error...
00:47:13 Autoguider max error = 1.81
00:47:13 Checking autoguider max error...
00:47:18 Autoguider max error = 1.33
00:47:18 Checking autoguider max error...
00:47:23 Autoguider max error = 0.39
00:47:23 Autoguider max error < 0.4!
00:47:23 Starting imager exposure (3 of 10).
00:50:29 Imager exposure complete.
00:50:29 Stopping autoguider...
00:50:31 Setting guide star position to 177.0,226.0.
00:50:31 Setting autoguider exposure time to 3 seconds.
00:50:31 Starting to autoguide.
00:50:43 Checking autoguider max error...
00:50:46 Autoguider max error = 0.54
00:50:46 Checking autoguider max error...
00:50:50 Autoguider max error = 0.45
00:50:50 Checking autoguider max error...
00:50:54 Autoguider max error = 0.43
00:50:54 Checking autoguider max error...
00:50:58 Autoguider max error = 0.31
00:50:58 Autoguider max error < 0.4!
00:50:58 Starting imager exposure (4 of 10).
00:54:05 Imager exposure complete.
00:54:05 Stopping autoguider...
00:54:07 Setting guide star position to 175.0,226.0.
00:54:07 Setting autoguider exposure time to 3 seconds.
00:54:07 Starting to autoguide.
00:54:19 Checking autoguider max error...
00:54:21 Autoguider max error = 0.53
00:54:21 Checking autoguider max error...
00:54:26 Autoguider max error = 0.41
00:54:26 Checking autoguider max error...
00:54:30 Autoguider max error = 0.77
00:54:30 Checking autoguider max error...
00:54:35 Autoguider max error = 0.16
00:54:35 Autoguider max error < 0.4!
00:54:35 Starting imager exposure (5 of 10).
00:57:40 Imager exposure complete.

00:57:40 Stopping autoguider...
00:57:42 Setting guide star position to 175.0,224.0.
00:57:42 Setting autoguider exposure time to 3 seconds.
00:57:42 Starting to autoguide.
00:57:55 Checking autoguider max error...
00:57:56 Autoguider max error = 0.76
00:57:56 Checking autoguider max error...
00:58:01 Autoguider max error = 0.71
00:58:01 Checking autoguider max error...
00:58:05 Autoguider max error = 0.43
00:58:05 Checking autoguider max error...
00:58:09 Autoguider max error = 0.39
00:58:09 Autoguider max error < 0.4!
00:58:09 Starting imager exposure (6 of 10).
01:01:17 Imager exposure complete.
01:01:17 Stopping autoguider...
01:01:19 Setting guide star position to 175.0,222.0.
01:01:19 Setting autoguider exposure time to 3 seconds.
01:01:19 Starting to autoguide.
01:01:31 Checking autoguider max error...
01:01:33 Autoguider max error = 0.64
01:01:33 Checking autoguider max error...
01:01:37 Autoguider max error = 0.85
01:01:37 Checking autoguider max error...
01:01:42 Autoguider max error = 0.34
01:01:42 Autoguider max error < 0.4!
01:01:42 Starting imager exposure (7 of 10).
01:04:48 Imager exposure complete.
01:04:48 Stopping autoguider...
01:04:50 Setting guide star position to 177.0,222.0.
01:04:50 Setting autoguider exposure time to 3 seconds.
01:04:50 Starting to autoguide.
01:05:02 Checking autoguider max error...
01:05:03 Autoguider max error = 0.25
01:05:03 Autoguider max error < 0.4!
01:05:04 Starting imager exposure (8 of 10).
01:08:10 Imager exposure complete.
01:08:10 Stopping autoguider...
01:08:12 Setting guide star position to 179.0,222.0.
01:08:12 Setting autoguider exposure time to 3 seconds.
01:08:12 Starting to autoguide.
01:08:25 Checking autoguider max error...
01:08:28 Autoguider max error = 0.95
01:08:28 Checking autoguider max error...
01:08:32 Autoguider max error = 1.23
01:08:32 Checking autoguider max error...
01:08:36 Autoguider max error = 0.50
01:08:36 Checking autoguider max error...
01:08:41 Autoguider max error = 1.06
01:08:41 Checking autoguider max error...
01:08:45 Autoguider max error = 1.11
01:08:45 Checking autoguider max error...
01:08:50 Autoguider max error = 1.16
01:08:50 Checking autoguider max error...
01:08:54 Autoguider max error = 0.37
01:08:54 Autoguider max error < 0.4!
01:08:54 Starting imager exposure (9 of 10).
01:12:01 Imager exposure complete.
01:12:01 Stopping autoguider...
01:12:03 Setting guide star position to 181.0,222.0.
01:12:03 Setting autoguider exposure time to 3 seconds.
01:12:03 Starting to autoguide.
01:12:15 Checking autoguider max error...
01:12:17 Autoguider max error = 0.48
01:12:17 Checking autoguider max error...

01:12:21 Autoguider max error = 0.43
01:12:21 Checking autoguider max error...
01:12:25 Autoguider max error = 0.57
01:12:25 Checking autoguider max error...
01:12:30 Autoguider max error = 0.24
01:12:30 Autoguider max error < 0.4!
01:12:30 Starting imager exposure (10 of 10).
01:15:36 Imager exposure complete.
01:15:36 Stopping autoguider...
01:15:38 Take Images Action complete.
01:15:38 Starting move to action.
01:15:38 Precessing coordnates.
01:15:39 J2000 Coordinates: RA: 09h 31m 35.0s Dec: +20°16'13"
01:15:39 JNow Coordinates: RA: 09h 31m 55.3s Dec: +20°14'37"
01:15:39 Slewing to Mag. 6.6 Focus Star...
01:15:45 Done slewing!
01:15:46 Setting imager bin mode to 1x1.
01:15:46 Setting filter to Lum.
01:15:53 Taking 10 second image for Plate Solve...
01:16:08 Saving Image...
01:16:09 Performing Plate Solve with CCDSoft...
01:16:15 Plate solve results:
01:16:15 Pixel Scale = 0.93 asp.
01:16:15 North Angle = 333.70 degrees.
01:16:15 J2000 Coordinates = RA: 09h 31m 36.4s Dec: +20°16'26"
01:16:15 Syncing to RA 9.53240, Dec 20.24732
01:16:23 Starting focus run...
01:17:52 Focus succeeded! HFD = 3.24
01:17:52 Starting move to action.
01:17:52 Precessing coordnates.
01:17:52 J2000 Coordinates: RA: 09h 32m 09.0s Dec: +21°32'52"
01:17:52 JNow Coordinates: RA: 09h 32m 29.4s Dec: +21°31'16"
01:17:52 Slewing to NGC 2903 (NEW)...
01:18:00 Done slewing!
01:18:00 Setting imager bin mode to 1x1.
01:18:00 Setting filter to Lum.
01:18:06 Taking 10 second image for Plate Solve...
01:18:22 Saving Image...
01:18:22 Performing Plate Solve with CCDSoft...
01:18:24 Plate solve results:
01:18:24 Pixel Scale = 0.92 asp.
01:18:24 North Angle = 333.73 degrees.
01:18:24 J2000 Coordinates = RA: 09h 32m 05.6s Dec: +21°33'05"
01:18:24 Syncing to RA 9.54054, Dec 21.52465
01:18:29 Setting image type to Light.
01:18:29 Setting imager bin mode to 2x2.
01:18:29 Setting filter to Blue.
01:18:33 Setting imager to full frame.
01:18:33 Setting imager exposure time to 180 seconds.
01:18:34 Setting autoguider bin mode to 2x2.
01:18:34 Taking a 3 second autoguider exposure.
01:18:45 Beginning guide star search...
01:18:47 Found possible guide star at 188, 221 with a max brightness of 1034 ADU.
01:18:47 Taking a 3 second autoguider exposure.
01:18:53 Beginning guide star search...
01:18:55 Taking a 3.72 second autoguider exposure.
01:19:08 Beginning guide star search...
01:19:10 Found possible guide star at 189, 220 with a max brightness of 1046 ADU.
01:19:10 Taking a 3.72 second autoguider exposure.
01:19:17 Beginning guide star search...
01:19:18 Found appropriate guide star at 190, 220 with a max brightness of 1139 ADU.
01:19:18 Trying to autoguide on star at 190.0,220.0.
01:19:18 Starting to autoguide.
01:19:33 Checking autoguider max error...

01:19:34 Autoguider max error = 1.31
01:19:34 Checking autoguider max error...
01:19:39 Autoguider max error = 1.13
01:19:39 Checking autoguider max error...
01:19:44 Autoguider max error = 0.46
01:19:44 Checking autoguider max error...
01:19:49 Autoguider max error = 1.73
01:19:49 Checking autoguider max error...
01:19:54 Autoguider max error = 0.30
01:19:54 Autoguider max error < 0.4!
01:19:54 Stopping autoguider...
01:19:57 Automatic guide star acquisition successful!
01:19:57 Setting guide star position to 190.0,220.0.
01:19:57 Setting autoguider exposure time to 3.72 seconds.
01:19:57 Starting to autoguide.
01:20:12 Checking autoguider max error...
01:20:13 Autoguider max error = 0.09
01:20:13 Autoguider max error < 0.4!
01:20:13 Starting imager exposure (1 of 10).
01:23:19 Imager exposure complete.
01:23:19 Stopping autoguider...
01:23:21 Setting guide star position to 192.0,220.0.
01:23:21 Setting autoguider exposure time to 3.72 seconds.
01:23:21 Starting to autoguide.
01:23:36 Checking autoguider max error...
01:23:37 Autoguider max error = 0.36
01:23:37 Autoguider max error < 0.4!
01:23:37 Starting imager exposure (2 of 10).
01:26:44 Imager exposure complete.
01:26:44 Stopping autoguider...
01:26:46 Setting guide star position to 192.0,222.0.
01:26:46 Setting autoguider exposure time to 3.72 seconds.
01:26:46 Starting to autoguide.
01:27:01 Checking autoguider max error...
01:27:04 Autoguider max error = 1.78
01:27:04 Checking autoguider max error...
01:27:10 Autoguider max error = 2.15
01:27:10 Checking autoguider max error...
01:27:15 Autoguider max error = 1.63
01:27:15 Checking autoguider max error...
01:27:21 Autoguider max error = 0.68
01:27:21 Checking autoguider max error...
01:27:26 Autoguider max error = 0.27
01:27:26 Autoguider max error < 0.4!
01:27:26 Starting imager exposure (3 of 10).
01:30:32 Imager exposure complete.
01:30:32 Stopping autoguider...
01:30:34 Setting guide star position to 190.0,222.0.
01:30:34 Setting autoguider exposure time to 3.72 seconds.
01:30:34 Starting to autoguide.
01:30:49 Checking autoguider max error...
01:30:50 Autoguider max error = 1.07
01:30:50 Checking autoguider max error...
01:30:55 Autoguider max error = 0.77
01:30:55 Checking autoguider max error...
01:31:00 Autoguider max error = 1.36
01:31:00 Checking autoguider max error...
01:31:05 Autoguider max error = 0.79
01:31:05 Checking autoguider max error...
01:31:11 Autoguider max error = 1.76
01:31:11 Checking autoguider max error...
01:31:16 Autoguider max error = 0.32
01:31:16 Autoguider max error < 0.4!
01:31:16 Starting imager exposure (4 of 10).
01:34:23 Imager exposure complete.

01:34:23 Stopping autoguider...
01:34:25 Setting guide star position to 188.0,222.0.
01:34:25 Setting autoguider exposure time to 3.72 seconds.
01:34:25 Starting to autoguide.
01:34:40 Checking autoguider max error...
01:34:41 Autoguider max error = 0.65
01:34:41 Checking autoguider max error...
01:34:46 Autoguider max error = 0.90
01:34:46 Checking autoguider max error...
01:34:51 Autoguider max error = 0.91
01:34:51 Checking autoguider max error...
01:34:56 Autoguider max error = 0.25
01:34:56 Autoguider max error < 0.4!
01:34:56 Starting imager exposure (5 of 10).
01:38:03 Imager exposure complete.
01:38:03 Stopping autoguider...
01:38:05 Setting guide star position to 188.0,220.0.
01:38:05 Setting autoguider exposure time to 3.72 seconds.
01:38:05 Starting to autoguide.
01:38:20 Checking autoguider max error...
01:38:21 Autoguider max error = 0.82
01:38:21 Checking autoguider max error...
01:38:27 Autoguider max error = 0.30
01:38:27 Autoguider max error < 0.4!
01:38:27 Starting imager exposure (6 of 10).
01:41:32 Imager exposure complete.
01:41:32 Stopping autoguider...
01:41:34 Setting guide star position to 188.0,218.0.
01:41:34 Setting autoguider exposure time to 3.72 seconds.
01:41:34 Starting to autoguide.
01:41:49 Checking autoguider max error...
01:41:51 Autoguider max error = 0.65
01:41:51 Checking autoguider max error...
01:41:56 Autoguider max error = 0.41
01:41:56 Checking autoguider max error...
01:42:01 Autoguider max error = 0.08
01:42:01 Autoguider max error < 0.4!
01:42:01 Starting imager exposure (7 of 10).
01:45:09 Imager exposure complete.
01:45:09 Stopping autoguider...
01:45:11 Setting guide star position to 190.0,218.0.
01:45:11 Setting autoguider exposure time to 3.72 seconds.
01:45:11 Starting to autoguide.
01:45:26 Checking autoguider max error...
01:45:26 Autoguider max error = 1.08
01:45:26 Checking autoguider max error...
01:45:32 Autoguider max error = 0.42
01:45:32 Checking autoguider max error...
01:45:37 Autoguider max error = 0.29
01:45:37 Autoguider max error < 0.4!
01:45:37 Starting imager exposure (8 of 10).
01:48:44 Imager exposure complete.
01:48:44 Stopping autoguider...
01:48:46 Setting guide star position to 192.0,218.0.
01:48:46 Setting autoguider exposure time to 3.72 seconds.
01:48:46 Starting to autoguide.
01:49:01 Checking autoguider max error...
01:49:03 Autoguider max error = 0.66
01:49:03 Checking autoguider max error...
01:49:08 Autoguider max error = 0.81
01:49:08 Checking autoguider max error...
01:49:13 Autoguider max error = 0.25
01:49:13 Autoguider max error < 0.4!
01:49:14 Starting imager exposure (9 of 10).
01:52:20 Imager exposure complete.

01:52:20 Stopping autoguider...
01:52:22 Setting guide star position to 194.0,218.0.
01:52:22 Setting autoguider exposure time to 3.72 seconds.
01:52:22 Starting to autoguide.
01:52:37 Checking autoguider max error...
01:52:38 Autoguider max error = 0.50
01:52:38 Checking autoguider max error...
01:52:43 Autoguider max error = 0.93
01:52:43 Checking autoguider max error...
01:52:48 Autoguider max error = 0.24
01:52:48 Autoguider max error < 0.4!
01:52:48 Starting imager exposure (10 of 10).
01:55:55 Imager exposure complete.
01:55:55 Stopping autoguider...
01:55:57 Take Images Action complete.
01:55:57 Starting move to action.
01:55:57 Precessing coordnates.
01:55:58 J2000 Coordinates: RA: 09h 31m 35.0s Dec: +20°16'13"
01:55:58 JNow Coordinates: RA: 09h 31m 55.3s Dec: +20°14'37"
01:55:58 Slewing to Mag. 6.6 Focus Star...
01:56:05 Done slewing!
01:56:05 Setting imager bin mode to 1x1.
01:56:05 Setting filter to Lum.
01:56:11 Taking 10 second image for Plate Solve...
01:56:27 Saving Image...
01:56:27 Performing Plate Solve with CCDSoft...
01:56:33 Plate solve results:
01:56:33 Pixel Scale = 0.93 asp.
01:56:33 North Angle = 333.64 degrees.
01:56:33 J2000 Coordinates = RA: 09h 31m 37.2s Dec: +20°16'31"
01:56:33 Syncing to RA 9.53263, Dec 20.24849
01:56:38 Starting focus run...
01:57:51 Focus succeeded! HFD = 3.18
01:57:51 Starting move to action.
01:57:51 Precessing coordnates.
01:57:51 J2000 Coordinates: RA: 09h 32m 09.0s Dec: +21°32'52"
01:57:51 JNow Coordinates: RA: 09h 32m 29.4s Dec: +21°31'16"
01:57:51 Slewing to NGC 2903 (NEW)...
01:57:59 Done slewing!
01:57:59 Setting imager bin mode to 1x1.
01:57:59 Setting filter to Lum.
01:58:02 Taking 10 second image for Plate Solve...
01:58:17 Saving Image...
01:58:18 Performing Plate Solve with CCDSoft...
01:58:20 Plate solve results:
01:58:20 Pixel Scale = 0.92 asp.
01:58:20 North Angle = 333.84 degrees.
01:58:20 J2000 Coordinates = RA: 09h 32m 06.0s Dec: +21°32'55"
01:58:20 Syncing to RA 9.54066, Dec 21.52189
01:58:23 Setting image type to Light.
01:58:23 Setting imager bin mode to 1x1.
01:58:23 Setting filter to Lum.
01:58:25 Setting imager to full frame.
01:58:25 Setting imager exposure time to 300 seconds.
01:58:26 Setting autoguider bin mode to 2x2.
01:58:26 Taking a 3 second autoguider exposure.
01:58:37 Beginning guide star search...
01:58:39 Found possible guide star at 182, 223 with a max brightness of 3713 ADU.
01:58:39 Taking a 3 second autoguider exposure.
01:58:45 Beginning guide star search...
01:58:47 Found appropriate guide star at 182, 223 with a max brightness of 4143 ADU.
01:58:47 Trying to autoguide on star at 182.0,223.0.
01:58:47 Starting to autoguide.
01:58:59 Checking autoguider max error...

01:59:00 Autoguider max error = 1.31
01:59:00 Checking autoguider max error...
01:59:05 Autoguider max error = 0.44
01:59:05 Checking autoguider max error...
01:59:09 Autoguider max error = 0.80
01:59:09 Checking autoguider max error...
01:59:14 Autoguider max error = 0.61
01:59:14 Checking autoguider max error...
01:59:18 Autoguider max error = 0.50
01:59:18 Checking autoguider max error...
01:59:22 Autoguider max error = 0.24
01:59:22 Autoguider max error < 0.4!
01:59:22 Stopping autoguider...
01:59:24 Automatic guide star acquisition successful!
01:59:24 Setting guide star position to 182.0,223.0.
01:59:24 Setting autoguider exposure time to 3 seconds.
01:59:24 Starting to autoguide.
01:59:37 Checking autoguider max error...
01:59:38 Autoguider max error = 0.59
01:59:38 Checking autoguider max error...
01:59:42 Autoguider max error = 1.43
01:59:42 Checking autoguider max error...
01:59:47 Autoguider max error = 0.71
01:59:47 Checking autoguider max error...
01:59:51 Autoguider max error = 0.31
01:59:51 Autoguider max error < 0.4!
01:59:51 Starting imager exposure (1 of 6).
02:05:03 Imager exposure complete.
02:05:03 Stopping autoguider...
02:05:06 Setting guide star position to 184.0,223.0.
02:05:06 Setting autoguider exposure time to 3 seconds.
02:05:06 Starting to autoguide.
02:05:18 Checking autoguider max error...
02:05:20 Autoguider max error = 0.39
02:05:20 Autoguider max error < 0.4!
02:05:20 Starting imager exposure (2 of 6).
02:10:33 Imager exposure complete.
02:10:33 Stopping autoguider...
02:10:35 Setting guide star position to 184.0,225.0.
02:10:35 Setting autoguider exposure time to 3 seconds.
02:10:35 Starting to autoguide.
02:10:47 Checking autoguider max error...
02:10:50 Autoguider max error = 1.13
02:10:50 Checking autoguider max error...
02:10:54 Autoguider max error = 1.01
02:10:54 Checking autoguider max error...
02:10:59 Autoguider max error = 1.20
02:10:59 Checking autoguider max error...
02:11:04 Autoguider max error = 1.78
02:11:04 Checking autoguider max error...
02:11:09 Autoguider max error = 1.30
02:11:09 Checking autoguider max error...
02:11:13 Autoguider max error = 1.06
02:11:13 Checking autoguider max error...
02:11:18 Autoguider max error = 0.37
02:11:18 Autoguider max error < 0.4!
02:11:18 Starting imager exposure (3 of 6).
02:16:30 Imager exposure complete.
02:16:30 Stopping autoguider...
02:16:32 Setting guide star position to 182.0,225.0.
02:16:32 Setting autoguider exposure time to 3 seconds.
02:16:32 Starting to autoguide.
02:16:45 Checking autoguider max error...
02:16:47 Autoguider max error = 0.20
02:16:47 Autoguider max error < 0.4!

02:16:47 Starting imager exposure (4 of 6).
02:21:59 Imager exposure complete.
02:22:00 Stopping autoguider...
02:22:02 Setting guide star position to 180.0,225.0.
02:22:02 Setting autoguider exposure time to 3 seconds.
02:22:02 Starting to autoguide.
02:22:14 Checking autoguider max error...
02:22:16 Autoguider max error = 1.39
02:22:16 Checking autoguider max error...
02:22:20 Autoguider max error = 0.80
02:22:20 Checking autoguider max error...
02:22:25 Autoguider max error = 0.28
02:22:25 Autoguider max error < 0.4!
02:22:25 Starting imager exposure (5 of 6).
02:27:36 Imager exposure complete.
02:27:37 Stopping autoguider...
02:27:39 Setting guide star position to 180.0,223.0.
02:27:39 Setting autoguider exposure time to 3 seconds.
02:27:39 Starting to autoguide.
02:27:51 Checking autoguider max error...
02:27:53 Autoguider max error = 1.07
02:27:53 Checking autoguider max error...
02:27:57 Autoguider max error = 1.65
02:27:57 Checking autoguider max error...
02:28:02 Autoguider max error = 2.21
02:28:02 Checking autoguider max error...
02:28:07 Autoguider max error = 0.47
02:28:07 Checking autoguider max error...
02:28:11 Autoguider max error = 0.32
02:28:11 Autoguider max error < 0.4!
02:28:11 Starting imager exposure (6 of 6).
02:33:23 Imager exposure complete.
02:33:23 Stopping autoguider...
02:33:26 Take Images Action complete.
02:33:26 Starting move to action.
02:33:26 Precessing coordnates.
02:33:26 J2000 Coordinates: RA: 09h 31m 35.0s Dec: +20°16'13"
02:33:26 JNow Coordinates: RA: 09h 31m 55.3s Dec: +20°14'37"
02:33:27 Slewing to Mag. 6.6 Focus Star...
02:33:34 Done slewing!
02:33:34 Setting imager bin mode to 1x1.
02:33:34 Setting filter to Lum.
02:33:36 Taking 10 second image for Plate Solve...
02:33:52 Saving Image...
02:33:52 Performing Plate Solve with CCDSoft...
02:33:56 Plate solve results:
02:33:56 Pixel Scale = 0.93 asp.
02:33:56 North Angle = 333.66 degrees.
02:33:56 J2000 Coordinates = RA: 09h 31m 38.7s Dec: +20°16'25"
02:33:56 Syncing to RA 9.53303, Dec 20.24686
02:34:01 Starting focus run...
02:35:16 Focus succeeded! HFD = 3.27
02:35:16 Starting move to action.
02:35:16 Precessing coordnates.
02:35:16 J2000 Coordinates: RA: 09h 32m 09.0s Dec: +21°32'52"
02:35:16 JNow Coordinates: RA: 09h 32m 29.4s Dec: +21°31'16"
02:35:16 Slewing to NGC 2903 (NEW)...
02:35:23 Done slewing!
02:35:23 Setting imager bin mode to 1x1.
02:35:23 Setting filter to Lum.
02:35:26 Taking 10 second image for Plate Solve...
02:35:41 Saving Image...
02:35:42 Performing Plate Solve with CCDSoft...
02:35:43 Plate solve error!
02:35:43 Setting image type to Light.

02:35:43 Setting imager bin mode to 1x1.
02:35:43 Setting filter to Lum.
02:35:45 Setting imager to full frame.
02:35:45 Setting imager exposure time to 300 seconds.
02:35:46 Setting autoguider bin mode to 2x2.
02:35:46 Taking a 3 second autoguider exposure.
02:35:58 Beginning guide star search...
02:36:00 Taking a 4.85 second autoguider exposure.
02:36:15 Beginning guide star search...
02:36:17 Taking a 15 second autoguider exposure.
02:36:52 Beginning guide star search...
02:36:54 Cannot find star greater then 1000 ADU.
02:36:54 Stopping autoguider...
02:36:55 Unable to find a guide star.
02:36:55 Take Images Action failed.
02:36:55 Starting move to action.
02:36:55 Precessing cooridnates.
02:36:55 J2000 Coordinates: RA: 09h 31m 35.0s Dec: +20°16'13"
02:36:55 JNow Coordinates: RA: 09h 31m 55.3s Dec: +20°14'37"
02:36:55 Slewing to Mag. 6.6 Focus Star...
02:37:03 Done slewing!
02:37:03 Setting imager bin mode to 1x1.
02:37:03 Setting filter to Lum.
02:37:05 Taking 10 second image for Plate Solve...
02:37:21 Saving Image...
02:37:21 Performing Plate Solve with CCDSoft...
02:37:25 Plate solve results:
02:37:25 Pixel Scale = 0.93 asp.
02:37:25 North Angle = 333.69 degrees.
02:37:25 J2000 Coordinates = RA: 09h 31m 34.8s Dec: +20°16'17"
02:37:25 Syncing to RA 9.53196, Dec 20.24471
02:37:30 Starting focus run...
02:38:42 Focus succeeded! HFD = 3.11
02:38:42 Starting move to action.
02:38:42 Precessing cooridnates.
02:38:42 J2000 Coordinates: RA: 09h 32m 09.0s Dec: +21°32'52"
02:38:42 JNow Coordinates: RA: 09h 32m 29.4s Dec: +21°31'16"
02:38:42 Slewing to NGC 2903 (NEW)...
02:38:50 Done slewing!
02:38:50 Setting imager bin mode to 1x1.
02:38:50 Setting filter to Lum.
02:38:52 Taking 10 second image for Plate Solve...
02:39:07 Saving Image...
02:39:08 Performing Plate Solve with CCDSoft...
02:39:10 Plate solve results:
02:39:10 Pixel Scale = 0.92 asp.
02:39:10 North Angle = 333.83 degrees.
02:39:10 J2000 Coordinates = RA: 09h 32m 06.6s Dec: +21°32'59"
02:39:10 Syncing to RA 9.54082, Dec 21.52295
02:39:14 Setting image type to Light.
02:39:14 Setting imager bin mode to 1x1.
02:39:14 Setting filter to Lum.
02:39:16 Setting imager to full frame.
02:39:16 Setting imager exposure time to 300 seconds.
02:39:17 Setting autoguider bin mode to 2x2.
02:39:17 Taking a 3 second autoguider exposure.
02:39:28 Beginning guide star search...
02:39:30 Found possible guide star at 178, 225 with a max brightness of 4082 ADU.
02:39:30 Taking a 3 second autoguider exposure.
02:39:36 Beginning guide star search...
02:39:38 Found possible guide star at 180, 225 with a max brightness of 3699 ADU.
02:39:38 Taking a 3 second autoguider exposure.
02:39:44 Beginning guide star search...
02:39:45 Found appropriate guide star at 180, 225 with a max brightness of 3920 ADU.

02:39:45 Trying to autoguide on star at 180.0,225.0.
02:39:45 Starting to autoguide.
02:39:57 Checking autoguider max error...
02:39:59 Autoguider max error = 0.14
02:39:59 Autoguider max error < 0.4!
02:39:59 Stopping autoguider...
02:40:01 Automatic guide star acquisition successful!
02:40:01 Setting guide star position to 180.0,225.0.
02:40:02 Setting autoguider exposure time to 3 seconds.
02:40:02 Starting to autoguide.
02:40:14 Checking autoguider max error...
02:40:16 Autoguider max error = 0.07
02:40:16 Autoguider max error < 0.4!
02:40:16 Starting imager exposure (1 of 6).
02:45:28 Imager exposure complete.
02:45:28 Stopping autoguider...
02:45:30 Setting guide star position to 182.0,225.0.
02:45:30 Setting autoguider exposure time to 3 seconds.
02:45:30 Starting to autoguide.
02:45:42 Checking autoguider max error...
02:45:44 Autoguider max error = 0.85
02:45:44 Checking autoguider max error...
02:45:49 Autoguider max error = 0.85
02:45:49 Checking autoguider max error...
02:45:53 Autoguider max error = 0.90
02:45:53 Checking autoguider max error...
02:45:58 Autoguider max error = 1.02
02:45:58 Checking autoguider max error...
02:46:03 Autoguider max error = 0.78
02:46:03 Checking autoguider max error...
02:46:07 Autoguider max error = 0.62
02:46:07 Checking autoguider max error...
02:46:11 Autoguider max error = 0.23
02:46:11 Autoguider max error < 0.4!
02:46:11 Starting imager exposure (2 of 6).
02:51:23 Imager exposure complete.
02:51:24 Stopping autoguider...
02:51:26 Setting guide star position to 182.0,227.0.
02:51:26 Setting autoguider exposure time to 3 seconds.
02:51:26 Starting to autoguide.
02:51:38 Checking autoguider max error...
02:51:40 Autoguider max error = 1.97
02:51:40 Checking autoguider max error...
02:51:45 Autoguider max error = 1.48
02:51:45 Checking autoguider max error...
02:51:49 Autoguider max error = 1.63
02:51:49 Checking autoguider max error...
02:51:54 Autoguider max error = 1.26
02:51:54 Checking autoguider max error...
02:51:59 Autoguider max error = 0.42
02:51:59 Checking autoguider max error...
02:52:04 Autoguider max error = 0.86
02:52:04 Checking autoguider max error...
02:52:08 Autoguider max error = 0.38
02:52:08 Autoguider max error < 0.4!
02:52:08 Starting imager exposure (3 of 6).
02:57:22 Imager exposure complete.
02:57:22 Stopping autoguider...
02:57:24 Setting guide star position to 180.0,227.0.
02:57:24 Setting autoguider exposure time to 3 seconds.
02:57:24 Starting to autoguide.
02:57:36 Checking autoguider max error...
02:57:39 Autoguider max error = 1.05
02:57:39 Checking autoguider max error...
02:57:43 Autoguider max error = 0.31

02:57:43 Autoguider max error < 0.4!
02:57:43 Starting imager exposure (4 of 6).
03:02:55 Imager exposure complete.
03:02:56 Stopping autoguider...
03:02:58 Setting guide star position to 178.0,227.0.
03:02:58 Setting autoguider exposure time to 3 seconds.
03:02:58 Starting to autoguide.
03:03:11 Checking autoguider max error...
03:03:12 Autoguider max error = 1.59
03:03:12 Checking autoguider max error...
03:03:18 Autoguider max error = 0.53
03:03:18 Checking autoguider max error...
03:03:22 Autoguider max error = 0.21
03:03:22 Autoguider max error < 0.4!
03:03:22 Starting imager exposure (5 of 6).
03:08:34 Imager exposure complete.
03:08:34 Stopping autoguider...
03:08:36 Setting guide star position to 178.0,225.0.
03:08:36 Setting autoguider exposure time to 3 seconds.
03:08:36 Starting to autoguide.
03:08:48 Checking autoguider max error...
03:08:51 Autoguider max error = 0.65
03:08:51 Checking autoguider max error...
03:08:56 Autoguider max error = 0.83
03:08:56 Checking autoguider max error...
03:09:00 Autoguider max error = 0.39
03:09:00 Autoguider max error < 0.4!
03:09:00 Starting imager exposure (6 of 6).
03:14:12 Imager exposure complete.
03:14:12 Stopping autoguider...
03:14:15 Take Images Action complete.
03:14:15 Starting move to action.
03:14:15 Precessing coordinates.
03:14:15 J2000 Coordinates: RA: 09h 31m 35.0s Dec: +20°16'13"
03:14:15 JNow Coordinates: RA: 09h 31m 55.3s Dec: +20°14'37"
03:14:15 Flipping mount...
03:16:23 Slewing to Mag. 6.6 Focus Star...
03:16:43 Done slewing!
03:16:43 Setting imager bin mode to 1x1.
03:16:43 Setting filter to Lum.
03:16:45 Taking 10 second image for Plate Solve...
03:17:01 Saving Image...
03:17:01 Performing Plate Solve with CCDSoft...
03:17:04 Plate solve results:
03:17:04 Pixel Scale = 0.93 asp.
03:17:04 North Angle = 333.97 degrees.
03:17:04 J2000 Coordinates = RA: 09h 32m 27.5s Dec: +20°24'24"
03:17:04 Syncing to RA 9.54659, Dec 20.37997
03:17:12 Starting focus run...
03:18:26 Focus succeeded! HFD = 2.90
03:18:26 Starting move to action.
03:18:26 Precessing coordinates.
03:18:26 J2000 Coordinates: RA: 09h 32m 09.0s Dec: +21°32'52"
03:18:26 JNow Coordinates: RA: 09h 32m 29.4s Dec: +21°31'16"
03:18:26 Slewing to NGC 2903 (NEW)...
03:18:34 Done slewing!
03:18:34 Setting imager bin mode to 1x1.
03:18:34 Setting filter to Lum.
03:18:36 Taking 10 second image for Plate Solve...
03:18:52 Saving Image...
03:18:52 Performing Plate Solve with CCDSoft...
03:18:56 Plate solve results:
03:18:56 Pixel Scale = 0.92 asp.
03:18:56 North Angle = 333.94 degrees.
03:18:56 J2000 Coordinates = RA: 09h 32m 09.2s Dec: +21°32'29"

03:18:56 Syncing to RA 9.54155, Dec 21.51476
03:18:59 Setting image type to Light.
03:18:59 Setting imager bin mode to 1x1.
03:18:59 Setting filter to Lum.
03:19:01 Setting imager to full frame.
03:19:02 Setting imager exposure time to 300 seconds.
03:19:03 Setting autoguider bin mode to 2x2.
03:19:03 Taking a 3 second autoguider exposure.
03:19:14 Beginning guide star search...
03:19:15 Found possible guide star at 186, 165 with a max brightness of 1528 ADU.
03:19:15 Taking a 3 second autoguider exposure.
03:19:22 Beginning guide star search...
03:19:23 Found appropriate guide star at 186, 165 with a max brightness of 1348 ADU.
03:19:23 Trying to autoguide on star at 186.0,165.0.
03:19:23 Starting to autoguide.
03:19:35 Checking autoguider max error...
03:19:38 Autoguider max error = 0.75
03:19:38 Checking autoguider max error...
03:19:42 Autoguider max error = 0.54
03:19:42 Checking autoguider max error...
03:19:46 Autoguider max error = 0.40
03:19:46 Autoguider max error < 0.4!
03:19:46 Stopping autoguider...
03:19:49 Automatic guide star acquisition successful!
03:19:49 Setting guide star position to 186.0,165.0.
03:19:49 Setting autoguider exposure time to 3 seconds.
03:19:49 Starting to autoguide.
03:20:01 Checking autoguider max error...
03:20:03 Autoguider max error = 0.22
03:20:03 Autoguider max error < 0.4!
03:20:03 Starting imager exposure (1 of 6).
03:25:15 Imager exposure complete.
03:25:15 Stopping autoguider...
03:25:17 Setting guide star position to 188.0,165.0.
03:25:17 Setting autoguider exposure time to 3 seconds.
03:25:17 Starting to autoguide.
03:25:29 Checking autoguider max error...
03:25:31 Autoguider max error = 1.01
03:25:31 Checking autoguider max error...
03:25:37 Autoguider max error = 1.00
03:25:37 Checking autoguider max error...
03:25:42 Autoguider max error = 1.34
03:25:42 Checking autoguider max error...
03:25:46 Autoguider max error = 0.94
03:25:47 Checking autoguider max error...
03:25:51 Autoguider max error = 0.84
03:25:51 Checking autoguider max error...
03:25:56 Autoguider max error = 0.69
03:25:56 Checking autoguider max error...
03:26:00 Autoguider max error = 0.77
03:26:00 Checking autoguider max error...
03:26:06 Autoguider max error = 0.81
03:26:06 Checking autoguider max error...
03:26:10 Autoguider max error = 0.18
03:26:10 Autoguider max error < 0.4!
03:26:10 Starting imager exposure (2 of 6).
03:31:23 Imager exposure complete.
03:31:23 Stopping autoguider...
03:31:25 Setting guide star position to 188.0,167.0.
03:31:25 Setting autoguider exposure time to 3 seconds.
03:31:25 Starting to autoguide.
03:31:37 Checking autoguider max error...
03:31:41 Autoguider max error = 2.03
03:31:41 Checking autoguider max error...

03:31:45 Autoguider max error = 2.04
03:31:45 Checking autoguider max error...
03:31:50 Autoguider max error = 1.52
03:31:50 Checking autoguider max error...
03:31:55 Autoguider max error = 1.11
03:31:55 Checking autoguider max error...
03:32:00 Autoguider max error = 0.55
03:32:00 Checking autoguider max error...
03:32:04 Autoguider max error = 0.14
03:32:04 Autoguider max error < 0.4!
03:32:04 Starting imager exposure (3 of 6).
03:37:18 Imager exposure complete.
03:37:19 Stopping autoguider...
03:37:21 Setting guide star position to 186.0,167.0.
03:37:21 Setting autoguider exposure time to 3 seconds.
03:37:21 Starting to autoguide.
03:37:33 Checking autoguider max error...
03:37:35 Autoguider max error = 0.86
03:37:35 Checking autoguider max error...
03:37:39 Autoguider max error = 0.21
03:37:39 Autoguider max error < 0.4!
03:37:39 Starting imager exposure (4 of 6).
03:42:52 Imager exposure complete.
03:42:52 Stopping autoguider...
03:42:55 Setting guide star position to 184.0,167.0.
03:42:55 Setting autoguider exposure time to 3 seconds.
03:42:55 Starting to autoguide.
03:43:07 Checking autoguider max error...
03:43:09 Autoguider max error = 0.57
03:43:09 Checking autoguider max error...
03:43:14 Autoguider max error = 0.60
03:43:14 Checking autoguider max error...
03:43:19 Autoguider max error = 0.69
03:43:19 Checking autoguider max error...
03:43:23 Autoguider max error = 0.40
03:43:23 Checking autoguider max error...
03:43:28 Autoguider max error = 0.96
03:43:28 Checking autoguider max error...
03:43:32 Autoguider max error = 0.18
03:43:32 Autoguider max error < 0.4!
03:43:32 Starting imager exposure (5 of 6).
03:48:45 Imager exposure complete.
03:48:46 Stopping autoguider...
03:48:48 Setting guide star position to 184.0,165.0.
03:48:49 Setting autoguider exposure time to 3 seconds.
03:48:49 Starting to autoguide.
03:49:01 Checking autoguider max error...
03:49:03 Autoguider max error = 1.75
03:49:03 Checking autoguider max error...
03:49:09 Autoguider max error = 0.80
03:49:09 Checking autoguider max error...
03:49:13 Autoguider max error = 0.67
03:49:13 Checking autoguider max error...
03:49:18 Autoguider max error = 0.10
03:49:18 Autoguider max error < 0.4!
03:49:18 Starting imager exposure (6 of 6).
03:54:30 Imager exposure complete.
03:54:31 Stopping autoguider...
03:54:33 Take Images Action complete.
03:54:33 Starting move to action.
03:54:33 Preprocessing coordinates.
03:54:33 J2000 Coordinates: RA: 09h 31m 35.0s Dec: +20°16'13"
03:54:33 JNow Coordinates: RA: 09h 31m 55.3s Dec: +20°14'37"
03:54:33 Slewing to Mag. 6.6 Focus Star...
03:54:41 Done slewing!

03:54:42 Setting imager bin mode to 1x1.
03:54:42 Setting filter to Lum.
03:54:44 Taking 10 second image for Plate Solve...
03:54:59 Saving Image...
03:55:00 Performing Plate Solve with CCDSoft...
03:55:05 Plate solve results:
03:55:05 Pixel Scale = 0.93 asp.
03:55:05 North Angle = 333.99 degrees.
03:55:05 J2000 Coordinates = RA: 09h 31m 34.7s Dec: +20°16'29"
03:55:05 Syncing to RA 9.53194, Dec 20.24796
03:55:13 Starting focus run...
03:56:40 Focus succeeded! HFD = 3.27
03:56:40 Starting move to action.
03:56:40 Preprocessing coordinates.
03:56:40 J2000 Coordinates: RA: 09h 32m 09.0s Dec: +21°32'52"
03:56:40 JNow Coordinates: RA: 09h 32m 29.4s Dec: +21°31'16"
03:56:40 Slewing to NGC 2903 (NEW)...
03:56:48 Done slewing!
03:56:48 Setting imager bin mode to 1x1.
03:56:48 Setting filter to Lum.
03:56:54 Taking 10 second image for Plate Solve...
03:57:09 Saving Image...
03:57:10 Performing Plate Solve with CCDSoft...
03:57:11 Plate solve error!
03:57:11 Setting image type to Light.
03:57:11 Setting imager bin mode to 2x2.
03:57:11 Setting filter to Blue.
03:57:15 Setting imager to full frame.
03:57:15 Setting imager exposure time to 180 seconds.
03:57:17 Setting autoguider bin mode to 2x2.
03:57:17 Taking a 3 second autoguider exposure.
03:57:28 Beginning guide star search...
03:57:30 Taking a 3.76 second autoguider exposure.
03:57:43 Beginning guide star search...
03:57:45 Taking a 9.38 second autoguider exposure.
03:58:10 Beginning guide star search...
03:58:12 Found possible guide star at 180, 180 with a max brightness of 1110 ADU.
03:58:12 Taking a 9.38 second autoguider exposure.
03:58:24 Beginning guide star search...
03:58:26 Taking a 11.19 second autoguider exposure.
03:58:54 Beginning guide star search...
03:58:56 Found possible guide star at 178, 181 with a max brightness of 1379 ADU.
03:58:56 Taking a 11.19 second autoguider exposure.
03:59:10 Beginning guide star search...
03:59:12 Found appropriate guide star at 178, 181 with a max brightness of 1386
ADU.
03:59:12 Trying to autoguide on star at 178.0,181.0.
03:59:12 Starting to autoguide.
03:59:57 Checking autoguider max error...
04:00:03 Autoguider max error = 1.03
04:00:03 Checking autoguider max error...
04:00:16 Autoguider max error = 0.32
04:00:16 Autoguider max error < 0.4!
04:00:16 Stopping autoguider...
04:00:18 Automatic guide star acquisition successful!
04:00:18 Setting guide star position to 178.0,181.0.
04:00:18 Setting autoguider exposure time to 11.19 seconds.
04:00:18 Starting to autoguide.
04:01:03 Checking autoguider max error...
04:01:09 Autoguider max error = 1.72
04:01:09 Checking autoguider max error...
04:01:22 Autoguider max error = 0.48
04:01:22 Checking autoguider max error...
04:01:35 Autoguider max error = 0.73
04:01:35 Checking autoguider max error...

04:01:47 Autoguider max error = 0.42
04:01:47 Checking autoguider max error...
04:02:01 Autoguider max error = 0.43
04:02:01 Checking autoguider max error...
04:02:14 Autoguider max error = 0.38
04:02:14 Autoguider max error < 0.4!
04:02:14 Starting imager exposure (1 of 10).
04:05:21 Imager exposure complete.
04:05:21 Stopping autoguider...
04:05:23 Setting guide star position to 180.0,181.0.
04:05:23 Setting autoguider exposure time to 11.19 seconds.
04:05:23 Starting to autoguide.
04:06:08 Checking autoguider max error...
04:06:15 Autoguider max error = 0.52
04:06:15 Checking autoguider max error...
04:06:28 Autoguider max error = 0.40
04:06:28 Checking autoguider max error...
04:06:41 Autoguider max error = 0.40
04:06:41 Checking autoguider max error...
04:06:53 Autoguider max error = 0.79
04:06:53 Checking autoguider max error...
04:07:06 Autoguider max error = 0.58
04:07:06 Checking autoguider max error...
04:07:21 Autoguider max error = 1.20
04:07:21 Checking autoguider max error...
04:07:35 Autoguider max error = 1.10
04:07:35 Checking autoguider max error...
04:07:49 Autoguider max error = 0.07
04:07:49 Autoguider max error < 0.4!
04:07:49 Starting imager exposure (2 of 10).
04:10:58 Imager exposure complete.
04:10:59 Stopping autoguider...
04:11:01 Setting guide star position to 180.0,183.0.
04:11:01 Setting autoguider exposure time to 11.19 seconds.
04:11:01 Starting to autoguide.
04:11:46 Checking autoguider max error...
04:11:54 Autoguider max error = 1.00
04:11:54 Checking autoguider max error...
04:12:09 Autoguider max error = 0.93
04:12:09 Checking autoguider max error...
04:12:22 Autoguider max error = 0.81
04:12:22 Checking autoguider max error...
04:12:36 Autoguider max error = 0.58
04:12:36 Checking autoguider max error...
04:12:49 Autoguider max error = 0.44
04:12:49 Checking autoguider max error...
04:13:01 Autoguider max error = 0.90
04:13:01 Checking autoguider max error...
04:13:14 Autoguider max error = 0.22
04:13:14 Autoguider max error < 0.4!
04:13:14 Starting imager exposure (3 of 10).
04:16:20 Imager exposure complete.
04:16:20 Stopping autoguider...
04:16:22 Setting guide star position to 178.0,183.0.
04:16:22 Setting autoguider exposure time to 11.19 seconds.
04:16:22 Starting to autoguide.
04:17:07 Checking autoguider max error...
04:17:14 Autoguider max error = 1.04
04:17:14 Checking autoguider max error...
04:17:27 Autoguider max error = 0.36
04:17:27 Autoguider max error < 0.4!
04:17:27 Starting imager exposure (4 of 10).
04:20:35 Imager exposure complete.
04:20:35 Stopping autoguider...
04:20:38 Setting guide star position to 176.0,183.0.

04:20:38 Setting autoguider exposure time to 11.19 seconds.
04:20:38 Starting to autoguide.
04:21:22 Checking autoguider max error...
04:21:29 Autoguider max error = 0.39
04:21:29 Autoguider max error < 0.4!
04:21:29 Starting imager exposure (5 of 10).
04:24:35 Imager exposure complete.
04:24:35 Stopping autoguider...
04:24:37 Setting guide star position to 176.0,181.0.
04:24:37 Setting autoguider exposure time to 11.19 seconds.
04:24:37 Starting to autoguide.
04:25:22 Checking autoguider max error...
04:25:29 Autoguider max error = 0.92
04:25:29 Checking autoguider max error...
04:25:42 Autoguider max error = 0.98
04:25:42 Checking autoguider max error...
04:25:55 Autoguider max error = 0.57
04:25:55 Checking autoguider max error...
04:26:09 Autoguider max error = 0.69
04:26:09 Checking autoguider max error...
04:26:23 Autoguider max error = 0.71
04:26:23 Checking autoguider max error...
04:26:37 Autoguider max error = 0.63
04:26:37 Checking autoguider max error...
04:26:52 Autoguider max error = 0.80
04:26:52 Checking autoguider max error...
04:27:05 Autoguider max error = 0.61
04:27:05 Checking autoguider max error...
04:27:19 Autoguider max error = 0.88
04:27:19 Checking autoguider max error...
04:27:31 Autoguider max error = 0.43
04:27:31 Checking autoguider max error...
04:27:45 Autoguider max error = 1.50
04:27:45 Checking autoguider max error...
04:27:58 Autoguider max error = 0.36
04:27:58 Autoguider max error < 0.4!
04:27:58 Starting imager exposure (6 of 10).
04:31:06 Imager exposure complete.
04:31:06 Stopping autoguider...
04:31:08 Setting guide star position to 176.0,179.0.
04:31:08 Setting autoguider exposure time to 11.19 seconds.
04:31:08 Starting to autoguide.
04:31:53 Checking autoguider max error...
04:32:03 Autoguider max error = 0.55
04:32:03 Checking autoguider max error...
04:32:15 Autoguider max error = 0.75
04:32:15 Checking autoguider max error...
04:32:28 Autoguider max error = 0.71
04:32:28 Checking autoguider max error...
04:32:40 Autoguider max error = 0.62
04:32:41 Checking autoguider max error...
04:32:53 Autoguider max error = 0.36
04:32:53 Autoguider max error < 0.4!
04:32:53 Starting imager exposure (7 of 10).
04:35:59 Imager exposure complete.
04:36:00 Stopping autoguider...
04:36:02 Setting guide star position to 178.0,179.0.
04:36:02 Setting autoguider exposure time to 11.19 seconds.
04:36:02 Starting to autoguide.
04:36:47 Checking autoguider max error...
04:36:54 Autoguider max error = 0.89
04:36:54 Checking autoguider max error...
04:37:06 Autoguider max error = 0.74
04:37:06 Checking autoguider max error...
04:37:19 Autoguider max error = 1.03

04:37:19 Checking autoguider max error...
04:37:32 Autoguider max error = 1.10
04:37:32 Checking autoguider max error...
04:37:45 Autoguider max error = 0.35
04:37:45 Autoguider max error < 0.4!
04:37:45 Starting imager exposure (8 of 10).
04:40:51 Imager exposure complete.
04:40:51 Stopping autoguider...
04:40:53 Setting guide star position to 180.0,179.0.
04:40:54 Setting autoguider exposure time to 11.19 seconds.
04:40:54 Starting to autoguide.
04:41:38 Checking autoguider max error...
04:41:45 Autoguider max error = 1.70
04:41:45 Checking autoguider max error...
04:41:58 Autoguider max error = 1.62
04:41:58 Checking autoguider max error...
04:42:11 Autoguider max error = 1.18
04:42:11 Checking autoguider max error...
04:42:23 Autoguider max error = 0.60
04:42:23 Checking autoguider max error...
04:42:36 Autoguider max error = 0.67
04:42:36 Checking autoguider max error...
04:42:48 Autoguider max error = 0.56
04:42:48 Checking autoguider max error...
04:43:03 Autoguider max error = 2.25
04:43:03 Checking autoguider max error...
04:43:17 Autoguider max error = 0.85
04:43:17 Checking autoguider max error...
04:43:31 Autoguider max error = 1.41
04:43:31 Checking autoguider max error...
04:43:45 Autoguider max error = 1.54
04:43:45 Checking autoguider max error...
04:43:59 Autoguider max error = 0.36
04:43:59 Autoguider max error < 0.4!
04:43:59 Starting imager exposure (9 of 10).
04:47:08 Imager exposure complete.
04:47:08 Stopping autoguider...
04:47:11 Setting guide star position to 182.0,179.0.
04:47:11 Setting autoguider exposure time to 11.19 seconds.
04:47:11 Starting to autoguide.
04:47:55 Checking autoguider max error...
04:48:05 Autoguider max error = 0.18
04:48:05 Autoguider max error < 0.4!
04:48:05 Starting imager exposure (10 of 10).
04:51:14 Imager exposure complete.
04:51:14 Stopping autoguider...
04:51:16 Take Images Action complete.
04:51:16 Starting move to action.
04:51:16 Precessing cooridnates.
04:51:16 J2000 Coordinates: RA: 09h 31m 35.0s Dec: +20°16'13"
04:51:16 JNow Coordinates: RA: 09h 31m 55.3s Dec: +20°14'37"
04:51:16 Slewing to Mag. 6.6 Focus Star...
04:51:23 Done slewing!
04:51:23 Setting imager bin mode to 1x1.
04:51:23 Setting filter to Lum.
04:51:29 Taking 10 second image for Plate Solve...
04:51:45 Saving Image...
04:51:45 Performing Plate Solve with CCDSoft...
04:51:49 Plate solve results:
04:51:49 Pixel Scale = 0.93 asp.
04:51:49 North Angle = 333.95 degrees.
04:51:50 J2000 Coordinates = RA: 09h 31m 34.1s Dec: +20°15'52"
04:51:50 Syncing to RA 9.53178, Dec 20.23770
04:51:57 Starting focus run...
04:53:25 Focus succeeded! HFD = 2.89

04:53:25 Starting move to action.
04:53:25 Preprocessing coordinates.
04:53:25 J2000 Coordinates: RA: 09h 32m 09.0s Dec: +21°32'52"
04:53:25 JNow Coordinates: RA: 09h 32m 29.4s Dec: +21°31'16"
04:53:25 Slewing to NGC 2903 (NEW)...
04:53:33 Done slewing!
04:53:33 Setting imager bin mode to 1x1.
04:53:33 Setting filter to Lum.
04:53:40 Taking 10 second image for Plate Solve...
04:53:55 Saving Image...
04:53:56 Performing Plate Solve with CCDSoft...
04:53:57 Plate solve error!
04:53:57 Setting image type to Light.
04:53:57 Setting imager bin mode to 2x2.
04:53:57 Setting filter to Green.
04:54:01 Setting imager to full frame.
04:54:01 Setting imager exposure time to 180 seconds.
04:54:02 Setting autoguider bin mode to 2x2.
04:54:02 Taking a 3 second autoguider exposure.
04:54:14 Beginning guide star search...
04:54:16 Taking a 3.83 second autoguider exposure.
04:54:29 Beginning guide star search...
04:54:31 Taking a 7.62 second autoguider exposure.
04:54:52 Beginning guide star search...
04:54:54 Taking a 10.15 second autoguider exposure.
04:55:20 Beginning guide star search...
04:55:21 Found possible guide star at 188, 176 with a max brightness of 1319 ADU.
04:55:21 Taking a 10.15 second autoguider exposure.
04:55:34 Beginning guide star search...
04:55:36 Found appropriate guide star at 187, 177 with a max brightness of 1168 ADU.
04:55:36 Trying to autoguide on star at 187.0,177.0.
04:55:36 Starting to autoguide.
04:56:17 Checking autoguider max error...
04:56:23 Autoguider max error = 0.23
04:56:23 Autoguider max error < 0.4!
04:56:23 Stopping autoguider...
04:56:26 Automatic guide star acquisition successful!
04:56:26 Setting guide star position to 187.0,177.0.
04:56:26 Setting autoguider exposure time to 10.15 seconds.
04:56:26 Starting to autoguide.
04:57:06 Checking autoguider max error...
04:57:14 Autoguider max error = 0.62
04:57:14 Checking autoguider max error...
04:57:27 Autoguider max error = 0.59
04:57:27 Checking autoguider max error...
04:57:38 Autoguider max error = 0.41
04:57:39 Checking autoguider max error...
04:57:50 Autoguider max error = 0.68
04:57:50 Checking autoguider max error...
04:58:02 Autoguider max error = 1.15
04:58:02 Checking autoguider max error...
04:58:14 Autoguider max error = 0.22
04:58:14 Autoguider max error < 0.4!
04:58:14 Starting imager exposure (1 of 10).
05:01:21 Imager exposure complete.
05:01:22 Stopping autoguider...
05:01:24 Setting guide star position to 189.0,177.0.
05:01:24 Setting autoguider exposure time to 10.15 seconds.
05:01:24 Starting to autoguide.
05:02:05 Checking autoguider max error...
05:02:12 Autoguider max error = 0.31
05:02:12 Autoguider max error < 0.4!
05:02:12 Starting imager exposure (2 of 10).
05:05:19 Imager exposure complete.

05:05:19 Stopping autoguider...
05:05:21 Setting guide star position to 189.0,179.0.
05:05:21 Setting autoguider exposure time to 10.15 seconds.
05:05:21 Starting to autoguide.
05:06:02 Checking autoguider max error...
05:06:10 Autoguider max error = 0.96
05:06:10 Checking autoguider max error...
05:06:22 Autoguider max error = 1.05
05:06:22 Checking autoguider max error...
05:06:34 Autoguider max error = 1.09
05:06:34 Checking autoguider max error...
05:06:46 Autoguider max error = 1.35
05:06:46 Checking autoguider max error...
05:06:58 Autoguider max error = 1.39
05:06:58 Checking autoguider max error...
05:07:10 Autoguider max error = 0.67
05:07:10 Checking autoguider max error...
05:07:23 Autoguider max error = 0.46
05:07:23 Checking autoguider max error...
05:07:35 Autoguider max error = 0.94
05:07:35 Checking autoguider max error...
05:07:47 Autoguider max error = 0.41
05:07:47 Checking autoguider max error...
05:07:59 Autoguider max error = 0.24
05:07:59 Autoguider max error < 0.4!
05:07:59 Starting imager exposure (3 of 10).
05:11:07 Imager exposure complete.
05:11:07 Stopping autoguider...
05:11:09 Setting guide star position to 187.0,179.0.
05:11:09 Setting autoguider exposure time to 10.15 seconds.
05:11:09 Starting to autoguide.
05:11:50 Checking autoguider max error...
05:11:57 Autoguider max error = 0.11
05:11:57 Autoguider max error < 0.4!
05:11:57 Starting imager exposure (4 of 10).
05:15:05 Imager exposure complete.
05:15:05 Stopping autoguider...
05:15:07 Setting guide star position to 185.0,179.0.
05:15:07 Setting autoguider exposure time to 10.15 seconds.
05:15:07 Starting to autoguide.
05:15:48 Checking autoguider max error...
05:15:55 Autoguider max error = 0.51
05:15:55 Checking autoguider max error...
05:16:07 Autoguider max error = 0.77
05:16:07 Checking autoguider max error...
05:16:19 Autoguider max error = 0.54
05:16:19 Checking autoguider max error...
05:16:32 Autoguider max error = 0.76
05:16:32 Checking autoguider max error...
05:16:44 Autoguider max error = 0.62
05:16:44 Checking autoguider max error...
05:16:55 Autoguider max error = 0.37
05:16:55 Autoguider max error < 0.4!
05:16:55 Starting imager exposure (5 of 10).
05:20:03 Imager exposure complete.
05:20:04 Stopping autoguider...
05:20:06 Setting guide star position to 185.0,177.0.
05:20:06 Setting autoguider exposure time to 10.15 seconds.
05:20:06 Starting to autoguide.
05:20:46 Checking autoguider max error...
05:20:56 Autoguider max error = 0.59
05:20:56 Checking autoguider max error...
05:21:08 Autoguider max error = 0.60
05:21:08 Checking autoguider max error...
05:21:19 Autoguider max error = 0.62

05:21:19 Checking autoguider max error...
05:21:31 Autoguider max error = 0.13
05:21:31 Autoguider max error < 0.4!
05:21:31 Starting imager exposure (6 of 10).
05:24:38 Imager exposure complete.
05:24:38 Stopping autoguider...
05:24:40 Setting guide star position to 185.0,175.0.
05:24:40 Setting autoguider exposure time to 10.15 seconds.
05:24:40 Starting to autoguide.
05:25:21 Checking autoguider max error...
05:25:28 Autoguider max error = 0.40
05:25:28 Checking autoguider max error...
05:25:40 Autoguider max error = 0.59
05:25:40 Checking autoguider max error...
05:25:51 Autoguider max error = 0.19
05:25:51 Autoguider max error < 0.4!
05:25:51 Starting imager exposure (7 of 10).
05:28:59 Imager exposure complete.
05:28:59 Stopping autoguider...
05:29:01 Setting guide star position to 187.0,175.0.
05:29:01 Setting autoguider exposure time to 10.15 seconds.
05:29:01 Starting to autoguide.
05:29:42 Checking autoguider max error...
05:29:50 Autoguider max error = 0.97
05:29:50 Checking autoguider max error...
05:30:02 Autoguider max error = 0.46
05:30:02 Checking autoguider max error...
05:30:13 Autoguider max error = 0.53
05:30:13 Checking autoguider max error...
05:30:25 Autoguider max error = 1.16
05:30:25 Checking autoguider max error...
05:30:37 Autoguider max error = 0.67
05:30:37 Checking autoguider max error...
05:30:48 Autoguider max error = 1.27
05:30:49 Checking autoguider max error...
05:31:00 Autoguider max error = 0.60
05:31:00 Checking autoguider max error...
05:31:13 Autoguider max error = 1.44
05:31:13 Checking autoguider max error...
05:31:24 Autoguider max error = 0.15
05:31:24 Autoguider max error < 0.4!
05:31:25 Starting imager exposure (8 of 10).
05:34:31 Imager exposure complete.
05:34:31 Stopping autoguider...
05:34:33 Setting guide star position to 189.0,175.0.
05:34:33 Setting autoguider exposure time to 10.15 seconds.
05:34:33 Starting to autoguide.
05:35:14 Checking autoguider max error...
05:35:21 Autoguider max error = 0.31
05:35:21 Autoguider max error < 0.4!
05:35:21 Starting imager exposure (9 of 10).
05:38:29 Imager exposure complete.
05:38:30 Stopping autoguider...
05:38:32 Setting guide star position to 191.0,175.0.
05:38:32 Setting autoguider exposure time to 10.15 seconds.
05:38:32 Starting to autoguide.
05:39:13 Checking autoguider max error...
05:39:20 Autoguider max error = 0.65
05:39:20 Checking autoguider max error...
05:39:32 Autoguider max error = 0.58
05:39:32 Checking autoguider max error...
05:39:43 Autoguider max error = 0.65
05:39:43 Checking autoguider max error...
05:39:55 Autoguider max error = 0.11
05:39:55 Autoguider max error < 0.4!

05:39:55 Starting imager exposure (10 of 10).
05:43:02 Imager exposure complete.
05:43:02 Stopping autoguider...
05:43:04 Take Images Action complete.
05:43:04 Starting move to action.
05:43:04 Precessing coordnates.
05:43:04 J2000 Coordinates: RA: 09h 31m 35.0s Dec: +20°16'13"
05:43:04 JNow Coordinates: RA: 09h 31m 55.3s Dec: +20°14'37"
05:43:05 Slewing to Mag. 6.6 Focus Star...
05:43:12 Done slewing!
05:43:12 Setting imager bin mode to 1x1.
05:43:12 Setting filter to Lum.
05:43:15 Taking 10 second image for Plate Solve...
05:43:31 Saving Image...
05:43:31 Performing Plate Solve with CCDSoft...
05:43:35 Plate solve results:
05:43:35 Pixel Scale = 0.93 asp.
05:43:35 North Angle = 333.93 degrees.
05:43:35 J2000 Coordinates = RA: 09h 31m 34.7s Dec: +20°15'43"
05:43:35 Syncing to RA 9.53194, Dec 20.23535
05:43:43 Starting focus run...
05:45:12 Focus succeeded! HFD = 3.32
05:45:12 Starting move to action.
05:45:12 Precessing coordnates.
05:45:12 J2000 Coordinates: RA: 09h 32m 09.0s Dec: +21°32'52"
05:45:12 JNow Coordinates: RA: 09h 32m 29.4s Dec: +21°31'16"
05:45:12 Slewing to NGC 2903 (NEW)...
05:45:19 Done slewing!
05:45:19 Setting imager bin mode to 1x1.
05:45:19 Setting filter to Lum.
05:45:26 Taking 10 second image for Plate Solve...
05:45:42 Saving Image...
05:45:43 Performing Plate Solve with CCDSoft...
05:45:47 Plate solve results:
05:45:47 Pixel Scale = 0.92 asp.
05:45:47 North Angle = 333.96 degrees.
05:45:47 J2000 Coordinates = RA: 09h 32m 08.6s Dec: +21°32'29"
05:45:47 Syncing to RA 9.54140, Dec 21.51455
05:45:50 Setting image type to Light.
05:45:50 Setting imager bin mode to 2x2.
05:45:51 Setting filter to Red.
05:45:54 Setting imager to full frame.
05:45:54 Setting imager exposure time to 180 seconds.
05:45:55 Setting autoguider bin mode to 2x2.
05:45:55 Taking a 3 second autoguider exposure.
05:46:06 Beginning guide star search...
05:46:08 Taking a 5.03 second autoguider exposure.
05:46:23 Beginning guide star search...
05:46:25 Taking a 7.71 second autoguider exposure.
05:46:47 Beginning guide star search...
05:46:48 Found possible guide star at 183, 162 with a max brightness of 1024 ADU.
05:46:48 Taking a 7.71 second autoguider exposure.
05:47:00 Beginning guide star search...
05:47:01 Found appropriate guide star at 183, 162 with a max brightness of 1145 ADU.
05:47:01 Trying to autoguide on star at 183.0,162.0.
05:47:01 Starting to autoguide.
05:47:32 Checking autoguider max error...
05:47:38 Autoguider max error = 0.27
05:47:38 Autoguider max error < 0.4!
05:47:38 Stopping autoguider...
05:47:40 Automatic guide star acquisition successful!
05:47:40 Setting guide star position to 183.0,162.0.
05:47:40 Setting autoguider exposure time to 7.71 seconds.
05:47:40 Starting to autoguide.

05:48:11 Checking autoguider max error...
05:48:19 Autoguider max error = 0.05
05:48:19 Autoguider max error < 0.4!
05:48:19 Starting imager exposure (1 of 10).
05:51:26 Imager exposure complete.
05:51:28 Stopping autoguider...
05:51:30 Setting guide star position to 185.0,162.0.
05:51:30 Setting autoguider exposure time to 7.71 seconds.
05:51:30 Starting to autoguide.
05:52:01 Checking autoguider max error...
05:52:07 Autoguider max error = 0.53
05:52:07 Checking autoguider max error...
05:52:16 Autoguider max error = 0.50
05:52:16 Checking autoguider max error...
05:52:26 Autoguider max error = 0.34
05:52:26 Autoguider max error < 0.4!
05:52:26 Starting imager exposure (2 of 10).
05:55:33 Imager exposure complete.
05:55:33 Stopping autoguider...
05:55:35 Setting guide star position to 185.0,164.0.
05:55:35 Setting autoguider exposure time to 7.71 seconds.
05:55:35 Starting to autoguide.
05:56:06 Checking autoguider max error...
05:56:14 Autoguider max error = 0.87
05:56:14 Checking autoguider max error...
05:56:23 Autoguider max error = 0.81
05:56:23 Checking autoguider max error...
05:56:33 Autoguider max error = 0.62
05:56:33 Checking autoguider max error...
05:56:42 Autoguider max error = 0.65
05:56:42 Checking autoguider max error...
05:56:52 Autoguider max error = 1.30
05:56:52 Checking autoguider max error...
05:57:02 Autoguider max error = 0.45
05:57:02 Checking autoguider max error...
05:57:12 Autoguider max error = 0.11
05:57:12 Autoguider max error < 0.4!
05:57:12 Starting imager exposure (3 of 10).
06:00:20 Imager exposure complete.
06:00:20 Stopping autoguider...
06:00:22 Setting guide star position to 183.0,164.0.
06:00:22 Setting autoguider exposure time to 7.71 seconds.
06:00:22 Starting to autoguide.
06:00:53 Checking autoguider max error...
06:01:01 Autoguider max error = 0.19
06:01:01 Autoguider max error < 0.4!
06:01:01 Starting imager exposure (4 of 10).
06:04:08 Imager exposure complete.
06:04:08 Stopping autoguider...
06:04:10 Setting guide star position to 181.0,164.0.
06:04:10 Setting autoguider exposure time to 7.71 seconds.
06:04:10 Starting to autoguide.
06:04:41 Checking autoguider max error...
06:04:49 Autoguider max error = 0.31
06:04:50 Autoguider max error < 0.4!
06:04:50 Starting imager exposure (5 of 10).
06:07:57 Imager exposure complete.
06:07:57 Stopping autoguider...
06:08:00 Setting guide star position to 181.0,162.0.
06:08:00 Setting autoguider exposure time to 7.71 seconds.
06:08:00 Starting to autoguide.
06:08:31 Checking autoguider max error...
06:08:38 Autoguider max error = 0.47
06:08:38 Checking autoguider max error...
06:08:47 Autoguider max error = 0.22

06:08:47 Autoguider max error < 0.4!
06:08:47 Starting imager exposure (6 of 10).
06:11:54 Imager exposure complete.
06:11:54 Stopping autoguider...
06:11:57 Setting guide star position to 181.0,160.0.
06:11:57 Setting autoguider exposure time to 7.71 seconds.
06:11:57 Starting to autoguide.
06:12:28 Checking autoguider max error...
06:12:35 Autoguider max error = 0.53
06:12:35 Checking autoguider max error...
06:12:44 Autoguider max error = 0.29
06:12:44 Autoguider max error < 0.4!
06:12:44 Starting imager exposure (7 of 10).
06:15:55 Imager exposure complete.
06:15:55 Stopping autoguider...
06:15:57 Setting guide star position to 183.0,160.0.
06:15:57 Setting autoguider exposure time to 7.71 seconds.
06:15:57 Starting to autoguide.
06:16:28 Checking autoguider max error...
06:16:35 Autoguider max error = 0.64
06:16:35 Checking autoguider max error...
06:16:44 Autoguider max error = 0.24
06:16:44 Autoguider max error < 0.4!
06:16:44 Starting imager exposure (8 of 10).
06:19:51 Imager exposure complete.
06:19:51 Stopping autoguider...
06:19:53 Setting guide star position to 185.0,160.0.
06:19:53 Setting autoguider exposure time to 7.71 seconds.
06:19:53 Starting to autoguide.
06:20:24 Checking autoguider max error...
06:20:31 Autoguider max error = 0.66
06:20:31 Checking autoguider max error...
06:20:40 Autoguider max error = 0.19
06:20:40 Autoguider max error < 0.4!
06:20:40 Starting imager exposure (9 of 10).
06:23:49 Imager exposure complete.
06:23:50 Stopping autoguider...
06:23:52 Setting guide star position to 187.0,160.0.
06:23:52 Setting autoguider exposure time to 7.71 seconds.
06:23:52 Starting to autoguide.
06:24:23 Checking autoguider max error...
06:24:30 Autoguider max error = 0.69
06:24:30 Checking autoguider max error...
06:24:39 Autoguider max error = 0.53
06:24:39 Checking autoguider max error...
06:24:48 Autoguider max error = 0.50
06:24:48 Checking autoguider max error...
06:24:57 Autoguider max error = 0.54
06:24:57 Checking autoguider max error...
06:25:08 Autoguider max error = 0.47
06:25:08 Checking autoguider max error...
06:25:17 Autoguider max error = 0.54
06:25:17 Checking autoguider max error...
06:25:27 Autoguider max error = 0.11
06:25:27 Autoguider max error < 0.4!
06:25:27 Starting imager exposure (10 of 10).
06:28:33 Imager exposure complete.
06:28:33 Stopping autoguider...
06:28:36 Take Images Action complete.
06:28:36 Setting image type to Dark.
06:28:36 Setting imager bin mode to 1x1.
06:28:36 Setting filter to Lum.
06:28:43 Setting imager to full frame.
06:28:43 Setting imager exposure time to 300 seconds.
06:28:44 Starting imager exposure (1 of 10).

06:33:56 Imager exposure complete.
06:33:57 Starting imager exposure (2 of 10).
06:39:09 Imager exposure complete.
06:39:10 Starting imager exposure (3 of 10).
06:44:22 Imager exposure complete.
06:44:23 Starting imager exposure (4 of 10).
06:49:13 Skip ahead at 06:49 action is active. Skipping ahead.
06:49:13 Skipping remainder of Action: Dark 10x300s Lum AS "ngc2903dar..."
06:49:13 Skipping Action: Dark 10x180s Blue AS "ngc2903dar..."
06:49:13 In Auto Flat Action.
06:49:13 Slewing to flat target location.
06:49:13 Moving to Alt-Az position: Alt: 85°00' 00.0" Az: 270°00'00"
06:50:01 Done slewing!
06:50:03 Setting imager bin mode to 1x1.
06:50:03 Setting filter to Lum.
06:50:06 Setting imager to full frame.
06:50:15 Setting imager exposure time to 1.0 seconds.
06:50:15 Starting imager exposure...
06:50:24 Exposure complete. Computing average ADU.
06:50:25 Average ADU = 1474
06:50:25 Target ADU = 20000
06:50:25 New exposure time computed to be 13.6
06:50:30 Setting imager exposure time to 13.6 seconds.
06:50:30 Starting imager exposure...
06:50:53 Exposure complete. Computing average ADU.
06:50:53 Average ADU = 16275
06:50:53 Target ADU = 20000
06:50:53 New exposure time computed to be 16.7
06:51:00 Setting imager exposure time to 16.7 seconds.
06:51:00 Starting imager exposure...
06:51:25 Exposure complete. Computing average ADU.
06:51:26 Average ADU = 22873
06:51:26 Target ADU = 20000
06:51:26 New exposure time computed to be 14.6
06:51:31 Setting imager exposure time to 14.6 seconds.
06:51:31 Starting imager exposure...
06:51:55 Exposure complete. Computing average ADU.
06:51:56 Average ADU = 22854
06:51:56 Target ADU = 20000
06:51:56 New exposure time computed to be 12.8
06:52:01 Setting imager exposure time to 12.8 seconds.
06:52:02 Starting imager exposure...
06:52:23 Exposure complete. Computing average ADU.
06:52:24 Average ADU = 22844
06:52:24 Target ADU = 20000
06:52:24 New exposure time computed to be 11.2
06:52:31 Setting imager exposure time to 11.2 seconds.
06:52:31 Starting imager exposure...
06:52:51 Exposure complete. Computing average ADU.
06:52:52 Average ADU = 22752
06:52:52 Target ADU = 20000
06:52:52 New exposure time computed to be 9.8
06:52:59 Setting imager exposure time to 9.8 seconds.
06:52:59 Starting imager exposure...
06:53:18 Exposure complete. Computing average ADU.
06:53:18 Average ADU = 22425
06:53:18 Target ADU = 20000
06:53:18 New exposure time computed to be 8.7
06:53:24 Setting imager exposure time to 8.7 seconds.
06:53:24 Starting imager exposure...
06:53:41 Exposure complete. Computing average ADU.
06:53:42 Average ADU = 22152
06:53:42 Target ADU = 20000
06:53:42 New exposure time computed to be 7.9
06:53:46 Setting imager exposure time to 7.9 seconds.

06:53:46 Starting imager exposure...
06:54:03 Exposure complete. Computing average ADU.
06:54:03 Average ADU = 22202
06:54:03 Target ADU = 20000
06:54:03 New exposure time computed to be 7.1
06:54:07 Setting imager exposure time to 7.1 seconds.
06:54:07 Starting imager exposure...
06:54:23 Exposure complete. Computing average ADU.
06:54:24 Average ADU = 21886
06:54:24 Target ADU = 20000
06:54:24 Current exposure time good! Taking Flats.
06:54:29 Setting imager exposure time to 7.1 seconds.
06:54:29 Starting imager exposure #1
06:54:48 Exposure complete. Computing average ADU.
06:54:49 Average ADU = 24101
06:54:49 Recomputing exposure time...
06:54:49 New exposure time computed to be 5.4
06:54:55 Setting imager exposure time to 5.4 seconds.
06:54:55 Starting imager exposure #2
06:55:12 Exposure complete. Computing average ADU.
06:55:13 Average ADU = 20489
06:55:13 Recomputing exposure time...
06:55:13 New exposure time computed to be 4.8
06:55:17 Setting imager exposure time to 4.8 seconds.
06:55:17 Starting imager exposure #3
06:55:33 Exposure complete. Computing average ADU.
06:55:34 Average ADU = 20020
06:55:34 Recomputing exposure time...
06:55:34 New exposure time computed to be 4.4
06:55:39 Setting imager exposure time to 4.4 seconds.
06:55:39 Starting imager exposure #4
06:55:55 Exposure complete. Computing average ADU.
06:55:56 Average ADU = 20128
06:55:56 Recomputing exposure time...
06:55:56 New exposure time computed to be 4.0
06:56:01 Setting imager exposure time to 4.0 seconds.
06:56:01 Starting imager exposure #5
06:56:16 Exposure complete. Computing average ADU.
06:56:17 Average ADU = 20126
06:56:17 Recomputing exposure time...
06:56:17 New exposure time computed to be 3.6
06:56:17 Automatic Flat Action complete.
06:56:17 In Auto Flat Action.
06:56:17 Slewing to flat target location.
06:56:17 Moving to Alt-Az position: Alt: 85°00' 00.0" Az: 270°00'00"
06:56:23 Done slewing!
06:56:24 Setting imager bin mode to 2x2.
06:56:24 Setting filter to Red.
06:56:28 Setting imager to full frame.
06:56:32 Setting imager exposure time to 1.0 seconds.
06:56:32 Starting imager exposure...
06:56:37 Exposure complete. Computing average ADU.
06:56:38 Average ADU = 11373
06:56:38 Target ADU = 20000
06:56:38 New exposure time computed to be 1.8
06:56:42 Setting imager exposure time to 1.8 seconds.
06:56:42 Starting imager exposure...
06:56:48 Exposure complete. Computing average ADU.
06:56:48 Average ADU = 16723
06:56:48 Target ADU = 20000
06:56:48 New exposure time computed to be 2.2
06:56:52 Setting imager exposure time to 2.2 seconds.
06:56:52 Starting imager exposure...
06:56:59 Exposure complete. Computing average ADU.
06:56:59 Average ADU = 21311

06:56:59 Target ADU = 20000
06:56:59 Current exposure time good! Taking Flats.
06:57:03 Setting imager exposure time to 2.2 seconds.
06:57:03 Starting imager exposure #1
06:57:11 Exposure complete. Computing average ADU.
06:57:11 Average ADU = 22335
06:57:11 Recomputing exposure time...
06:57:11 New exposure time computed to be 2.0
06:57:18 Setting imager exposure time to 2.0 seconds.
06:57:18 Starting imager exposure #2
06:57:26 Exposure complete. Computing average ADU.
06:57:26 Average ADU = 21585
06:57:26 Recomputing exposure time...
06:57:26 New exposure time computed to be 1.9
06:57:32 Setting imager exposure time to 1.9 seconds.
06:57:32 Starting imager exposure #3
06:57:39 Exposure complete. Computing average ADU.
06:57:40 Average ADU = 21748
06:57:40 Recomputing exposure time...
06:57:40 New exposure time computed to be 1.7
06:57:45 Setting imager exposure time to 1.7 seconds.
06:57:45 Starting imager exposure #4
06:57:53 Exposure complete. Computing average ADU.
06:57:54 Average ADU = 20634
06:57:54 Recomputing exposure time...
06:57:54 New exposure time computed to be 1.6
06:58:00 Setting imager exposure time to 1.6 seconds.
06:58:00 Starting imager exposure #5
06:58:07 Exposure complete. Computing average ADU.
06:58:07 Average ADU = 20572
06:58:07 Recomputing exposure time...
06:58:07 New exposure time computed to be 1.6
06:58:08 Setting filter to Green.
06:58:11 Setting imager to full frame.
06:58:16 Setting imager exposure time to 1.0 seconds.
06:58:16 Starting imager exposure...
06:58:21 Exposure complete. Computing average ADU.
06:58:21 Average ADU = 12602
06:58:22 Target ADU = 20000
06:58:22 New exposure time computed to be 1.6
06:58:26 Setting imager exposure time to 1.6 seconds.
06:58:26 Starting imager exposure...
06:58:32 Exposure complete. Computing average ADU.
06:58:32 Average ADU = 16484
06:58:32 Target ADU = 20000
06:58:32 New exposure time computed to be 1.9
06:58:38 Setting imager exposure time to 1.9 seconds.
06:58:38 Starting imager exposure...
06:58:44 Exposure complete. Computing average ADU.
06:58:44 Average ADU = 20490
06:58:44 Target ADU = 20000
06:58:45 Current exposure time good! Taking Flats.
06:58:48 Setting imager exposure time to 1.9 seconds.
06:58:48 Starting imager exposure #1
06:58:56 Exposure complete. Computing average ADU.
06:58:56 Average ADU = 21409
06:58:56 Recomputing exposure time...
06:58:56 New exposure time computed to be 1.8
06:59:02 Setting imager exposure time to 1.8 seconds.
06:59:02 Starting imager exposure #2
06:59:09 Exposure complete. Computing average ADU.
06:59:09 Average ADU = 21360
06:59:09 Recomputing exposure time...
06:59:09 New exposure time computed to be 1.7
06:59:15 Setting imager exposure time to 1.7 seconds.

06:59:15 Starting imager exposure #3
06:59:22 Exposure complete. Computing average ADU.
06:59:23 Average ADU = 21279
06:59:23 Recomputing exposure time...
06:59:23 New exposure time computed to be 1.6
06:59:27 Setting imager exposure time to 1.6 seconds.
06:59:27 Starting imager exposure #4
06:59:34 Exposure complete. Computing average ADU.
06:59:34 Average ADU = 20957
06:59:34 Recomputing exposure time...
06:59:34 New exposure time computed to be 1.5
06:59:39 Setting imager exposure time to 1.5 seconds.
06:59:39 Starting imager exposure #5
06:59:45 Exposure complete. Computing average ADU.
06:59:46 Average ADU = 20601
06:59:46 Recomputing exposure time...
06:59:46 New exposure time computed to be 1.5
06:59:46 Setting filter to Blue.
06:59:50 Setting imager to full frame.
06:59:54 Setting imager exposure time to 1.0 seconds.
06:59:54 Starting imager exposure...
06:59:59 Exposure complete. Computing average ADU.
07:00:00 Average ADU = 20631
07:00:00 Target ADU = 20000
07:00:00 Current exposure time good! Taking Flats.
07:00:04 Setting imager exposure time to 1.0 seconds.
07:00:04 Starting imager exposure #1
07:00:10 Exposure complete. Computing average ADU.
07:00:10 Average ADU = 16920
07:00:10 Recomputing exposure time...
07:00:11 New exposure time computed to be 1.2
07:00:16 Setting imager exposure time to 1.2 seconds.
07:00:16 Starting imager exposure #2
07:00:23 Exposure complete. Computing average ADU.
07:00:23 Average ADU = 21224
07:00:23 Recomputing exposure time...
07:00:23 New exposure time computed to be 1.1
07:00:27 Setting imager exposure time to 1.1 seconds.
07:00:27 Starting imager exposure #3
07:00:34 Exposure complete. Computing average ADU.
07:00:34 Average ADU = 20257
07:00:34 Recomputing exposure time...
07:00:34 New exposure time computed to be 1.1
07:00:38 Setting imager exposure time to 1.1 seconds.
07:00:38 Starting imager exposure #4
07:00:45 Exposure complete. Computing average ADU.
07:00:45 Average ADU = 21083
07:00:45 Recomputing exposure time...
07:00:45 New exposure time computed to be 1.0
07:00:50 Setting imager exposure time to 1.0 seconds.
07:00:50 Starting imager exposure #5
07:00:57 Exposure complete. Computing average ADU.
07:00:57 Average ADU = 20009
07:00:57 Recomputing exposure time...
07:00:57 New exposure time computed to be 1.0
07:00:57 Automatic Flat Action complete.
07:00:57 Turning on Fan.
07:00:57 Warming up camera...
07:00:57 Setting camera temperature to -5.2
07:00:57 Waiting for temperature to rise...
07:01:57 Waiting for temperature to rise...
07:02:57 Waiting for temperature to rise...
07:03:08 Setting camera temperature to 4.8
07:03:08 Waiting for temperature to rise...
07:04:08 Waiting for temperature to rise...

07:04:58 Setting camera temperature to 14.9
07:04:58 Waiting for temperature to rise...
07:05:58 Waiting for temperature to rise...
07:06:59 Waiting for temperature to rise...
07:07:19 Shutting down cooler.
07:07:19 Action complete.